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ASSESSMENT REPORT

describing

SOIL GEOCHEMICAL SAMPLING AND PROSPECTING

Field work performed from June 10 to 21, July 1 to 3, and September 7, 2017

at the

ROSY PROPERTY

Rosy 1-20	YC18054-YC18073
21-30	YC18159-YC18168
31-90	YC83534-YC83593
91-152	YF5652- YF56582
Sam 1-45	YF49455- YF49499
Sam 46-201	YF52516- YF52671

NTS 105C/13

Latitude 60°56'N; Longitude 133°45'W

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

By

D. Walsh B.Sc., GIT

January 2018

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INTRODUCTION

The Rosy property covers gold-silver prospects, which surrounds and extend five kilometres south of the Red Mountain Molybdenum Porphyry Deposit in southern Yukon. The property is wholly owned by ATAC Resources Ltd.

This report describes a soil geochemical sampling and prospecting program conducted between June 10 and 21, July 1 and 3 and September 7, 2017. The program was conducted by Archer, Cathro & Associates (1981) Limited on behalf of ATAC. The author did not partake in the exploration program but he did interpret all results from this work. The author's Statement of Qualifications appear in Appendix I. A Statement of Expenditures is in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Rosy property comprises 353 contiguous mineral claims located 77 km east-northeast of Whitehorse in southern Yukon at latitude 60°56'N and longitude 133°45'W on NTS 105C/13, as shown on Figure 1. The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Claim data is listed below while the locations of individual claims are illustrated on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Rosy 1-20	YC18054-YC18073	March 21, 2024
21-30	YC18159-YC18168	March 21, 2024
31-90	YC83534-YC83593	March 21, 2024
91-152	YF56521- YF56582	March 21, 2023
SAM 1-45	YF49455- YF49499	March 21, 2022
SAM 46-201	YF52516- YF52671	March 21, 2022

* Expiry dates include 2017 work which has been filed for assessment credit but has not yet been accepted.

The 2017 exploration crew were housed in tents on platforms situated in a historic exploration camp on the property. Access to and from the property was provided by Horizon Helicopters, utilizing an AS350 SD2 (A-Star) from a temporary staging area on the Red Mountain access road, which extends northward from the South Canol Road. Daily transportation for the field crew from camp to various points along the access road was provided by a Kubota all- terrane vehicle. The Red Mountain access road is a gated road built by Tintina Mines Limited., the owner of the Red Mountain Deposit. Tintina Mines does not allow public access to the road.

HISTORY

The first recorded activity in the vicinity of the Rosy property occurred in 1935 when silver-lead-zinc veins on the flanks of the Red Mountain Deposit were staked. These occurrences consist of galena and sphalerite in quartz-carbonate veins cutting metasedimentary rocks. They have been staked and explored by a number of operators over the years and are currently owned by Tintina Mines.

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

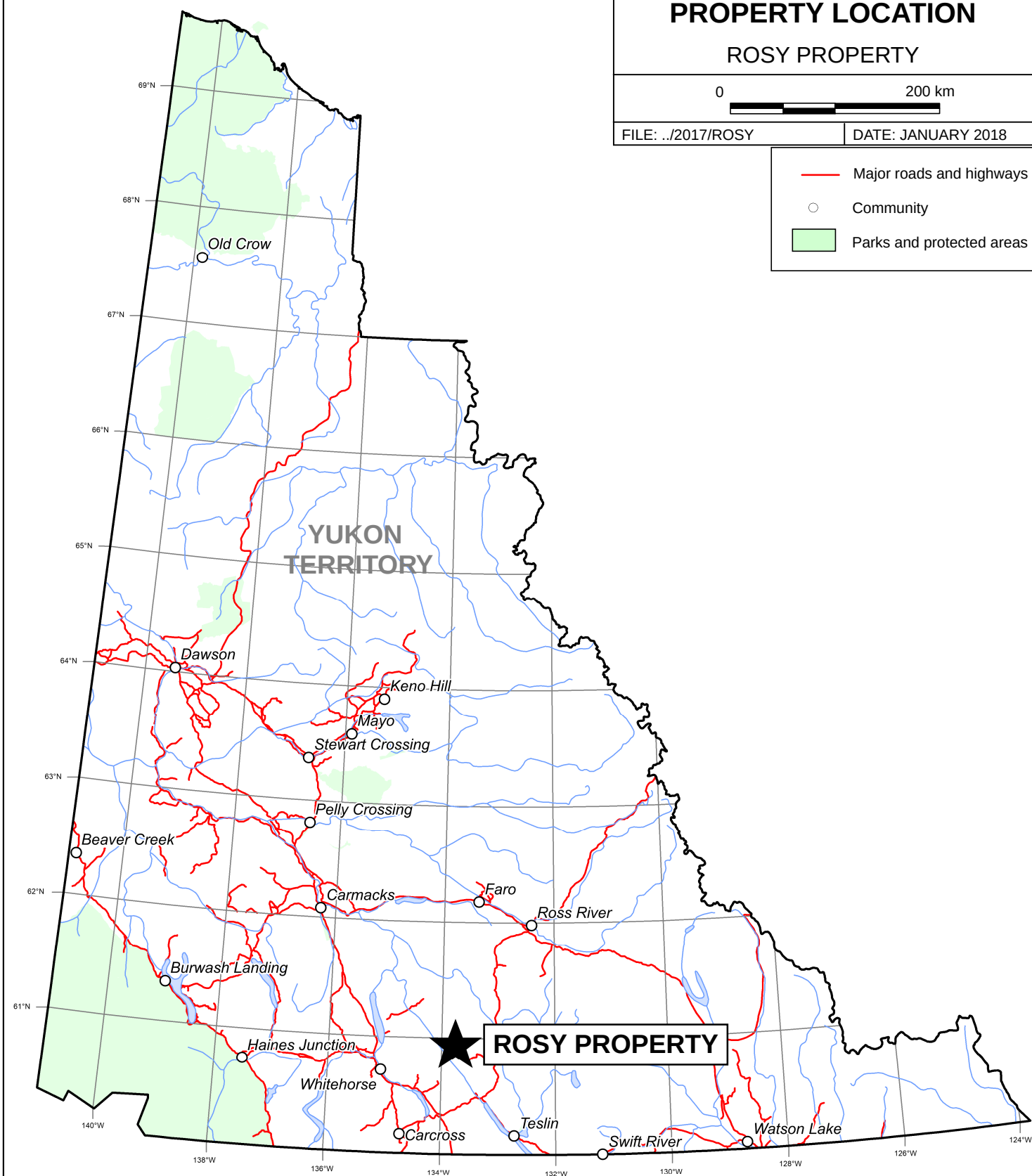
ROSY PROPERTY

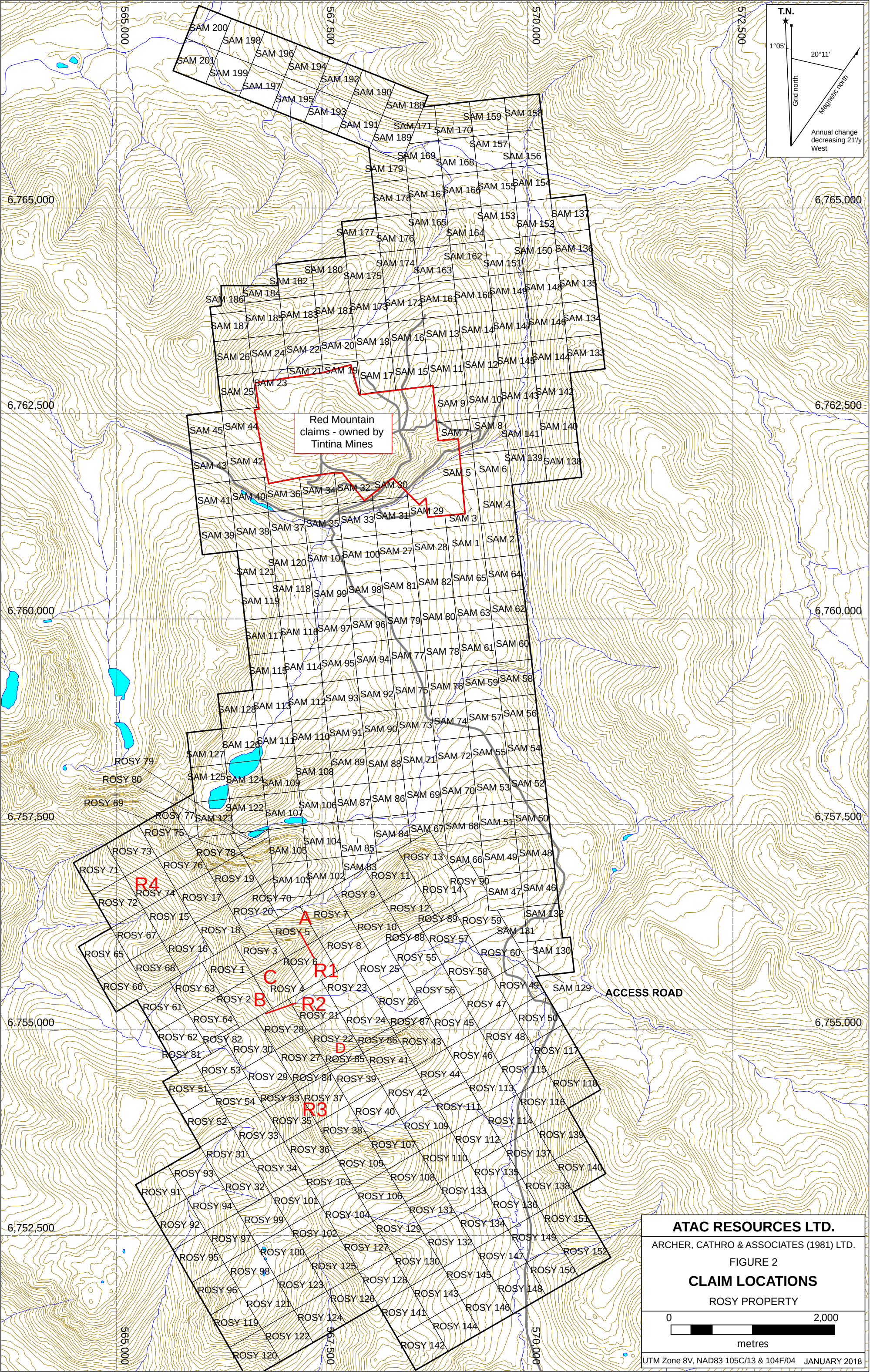
0 200 km

FILE: ../2017/ROSY

DATE: JANUARY 2018

- Major roads and highways
- Community
- Parks and protected areas





The Red Mountain Deposit is marked by a prominent red gossan and comprises quartz stockwork veining associated with a Late Cretaceous quartz monzonite stock.

In 1969, Boswell River drilled 16 holes with the most significant result returning 0.084% MoS₂ over 176 ft (53.64 m).

Following this work, the claims were allowed to lapse and were re-staked by an independent prospector. In 1976, Tintina Silver Mines Limited (now Tintina Mines Limited.) optioned the property from the prospector.

The main exploration program was conducted between 1977 and 1982 by Amoco Canada Petroleum Company, which earned a 50% interest from the owner Tintina Mines. Exploration included geological mapping soil, silt and rock geochemical sampling, geophysical surveys and 32 holes (21,391 m) of diamond drilling (Turner and Sabag, 1995). Drill indicated reserves are reported to be 170 million tonnes grading 0.167% MoS₂, including 19.3 million tonnes averaging 0.293% MoS₂ (Deklerk and Traynor, 2005). Gold content is low in the porphyry deposit and is inversely proportional to molybdenum content.

In 1993, Amoco's 50% interest in the Red Mountain project was purchased by Tintina Mines.

The first reported staking on what is now the Rosy property occurred in July 1986 immediately following the release of geochemical results from a reconnaissance stream sediment sampling program conducted by the Geological Survey of Canada (Open File 517). All-North Resources Ltd. staked the Was 1-6 claims in the headwaters of a creek, which returned 95th percentile values for gold (0.036 g/t), arsenic (121 ppm) and antimony (2.8 ppm). Concurrently, Noranda Exploration Company Limited staked the Saw 1-6 claims on a north-facing slope further downstream to cover another part of the anomalous drainage. However, recent prospecting on the Rosy property discovered numerous old claim posts that likely date back to the 1930s or 1940s. There is no record of this staking or any associated exploration.

Both All-North and Noranda conducted reconnaissance mapping and soil sampling in 1987. All-North reported quartz vein float that assayed up to 1.3 g/t gold and 102 g/t silver associated with a soil anomaly containing values up to 0.145 g/t gold and 9 g/t silver (Garagan, 1987). Noranda found quartz-carbonate alteration zones, samples of which returned low values. No further work was done on either property and the claims were allowed to lapse.

ATAC staked the Rosy 1-30 claims in summer 1999 and explored later that year with prospecting and soil geochemical sampling. That work outlined several veins marked by recessive linears and strongly anomalous gold, silver and arsenic soil geochemical results (Eaton, 1999).

ATAC conducted further prospecting and soil geochemical sampling in 2004, which discovered additional veins and expanded the area of anomalous geochemistry (Eaton, 2004).

In September 2007, a property-wide helicopter-borne total field magnetic and versatile time domain electromagnetic (VTEM) survey was conducted on behalf of ATAC. Neither

geophysical survey defined specific targets. Total field magnetics showed a strong correlation to geological units (Wengzynowski, 2008). VTEM produced a few discrete conductors, some of which are in the vicinity of mineralized veins, but none of those features are well defined.

Valere Mining Limited optioned the property in spring 2008, and that summer it performed geochemical sampling, geological mapping and prospecting (Smith, 2008). This work identified one new vein zone (R1), followed up a known vein zone (R2) and outlined four gold-in-soil anomalies (A to D). Valere dropped its option in early 2009.

In summer 2009, ATAC explored with more soil sampling and prospecting (Smith, 2010). This exploration resulted in the discovered two additional vein zones (R3 and R4). In fall 2009, ATAC staked the Rosy 31-90 claims.

Bonaparte Capital Corp. optioned the Rosy property in spring 2010 and conducted a small diamond drill program in June of that year. This drilling confirmed the presence of the R1 vein at depth. Hole Rosy-10-01 intersected the R1 vein close to surface where it was weathered and altered. Hole Rosy-10-02 cut the vein deeper in section and returned 1.28 g/t gold, 2.63 g/t silver and 3382 ppm arsenic over 2.29 m. The R1 vein lies alongside a barren, quartz-feldspar porphyry dyke (Smith, 2010). Bonaparte Capital dropped its option on the Rosy property in December of 2010.

In July 2016, ATAC conducted a two day prospecting and soil sampling program, collecting 32 rock samples and 115 soil samples. Three of the vein samples collected 350 m north of the R3 vein zone returned 12.55 g/t, 6.52 g/t, and 5.2 g/t gold and 93.1 g/t, 13.85 g/t, and 11.05 g/t silver, respectively. Two rock samples collected 295 m north of the R2 vein returned 5.86 g/t and 2.57 g/t gold and 3.76 g/t and 73.1 g/t silver, respectively. These samples coincide with the surface trace of a previously identified northwesterly trending linear in the vicinity of Anomaly C. Soil sampling in 2016 was conducted north and west of the R3 vein zone and to the east and southeast of Anomaly A (Lane and Walsh, 2016). The soil results returned encouraging values for gold and moderate values for silver north of the R3 vein zone.

In winter 2016, ATAC staked the Sam 1-201 claims, and in spring 2017, it staked the Rosy 91-152 claims.

GEOMORPHOLOGY

The Rosy property is located along the eastern edge of the Sawtooth range. It is drained by creeks that flow north into the Teslin River, via the Boswell River, which is a part of the Yukon River watershed. There is abundant water for camp and diamond drilling purposes on the property.

The southern part of the property covers a series of northwest-facing ridges and glacial valleys. Valley floors are thickly treed, but give way to steep slopes vegetated solely with moss and lichen. South facing slopes are generally accessible, while north facing slopes are characterised by cliffs and unstable talus.

The northern part of the property covers subdued, thickly vegetated slopes that flank slate and Red Mountain. Valley floors are generally narrow in their headwaters, where talus encroaches from surrounding slopes, but become broad and relatively flat bottomed further downstream, where they are blanketed by glacial and fluvial material.

A prominent peak in the southern part of the property reaches an elevation of 2094 m, while elevations elsewhere range between 1900 m on ridge tops to 920 m along the Boswell River. In the southeast part of the property there is an extensive upland marsh that appears to have formed where an old tarn lake has completely filled with silt.

REGIONAL GEOLOGY

The Rosy property lies in a structurally complex area where large faults have juxtaposed various metamorphosed volcanic, sedimentary and intrusive rocks, belonging to the Yukon-Tanana, Slide Mountain, Cassiar, and Stikinia terranes (Figure 3). Previous mappers have interpreted this area to be a steeply dipping suture zone marking accretion of an island arc to North America during Jurassic times (Tempelman-Kluit, 1979). Recent detailed structural mapping has led to a reinterpretation, which indicates that the steep dips are the result of a large-scale fold (de Keijzer, et al., 1999).

In 2003, Gordy and Makepeace completed a Yukon-wide geological compilation that updated lithological unit names in the area. The Yukon Geological Survey (YGS) maintains a website illustrating regional geology, which is periodically updated when new information becomes available (YGS, 2018). The main lithological units are described below in Table 1, and the regional geology is illustrated on Figure 4.

Table I - Regional Lithological Units (after Gordey and Makepeace, 2003)

<u>Age</u>	<u>Unit Name</u>	<u>Description</u>
Pleistocene to recent	Overburden	Glacial till and moraines; glaciofluvial outwash and more recent talus and fluvial material
Late Cretaceous	LKPR	Quartz monzonite and quartz-feldspar porphyry of the Rancheria Suite
Mid-Cretaceous	mKgC	Medium- to coarse-grained, equigranular to porphyritic granite, granodiorite and quartz monzonite of the Cassiar Suite
Early Jurassic	EJgL	Medium-to coarse-grained, foliated biotite-hornblende granodiorite, foliated hornblende diorite and monzodiorite of the Long Lake Suite
Lower and Middle Jurassic	JL1	Poorly sorted, medium bedded to massive arkosic sandstone and minor shale with interbeds and thicker members of heteroclastic pebble- and boulder-conglomerate of the Richhofen Formation
Devonian, Mississippian and older(?)	DMF1	Graphitic quartzite and muscovite- and quartz-rich schist with interspersed marble of the Finlayson Formation

FIGURE 3

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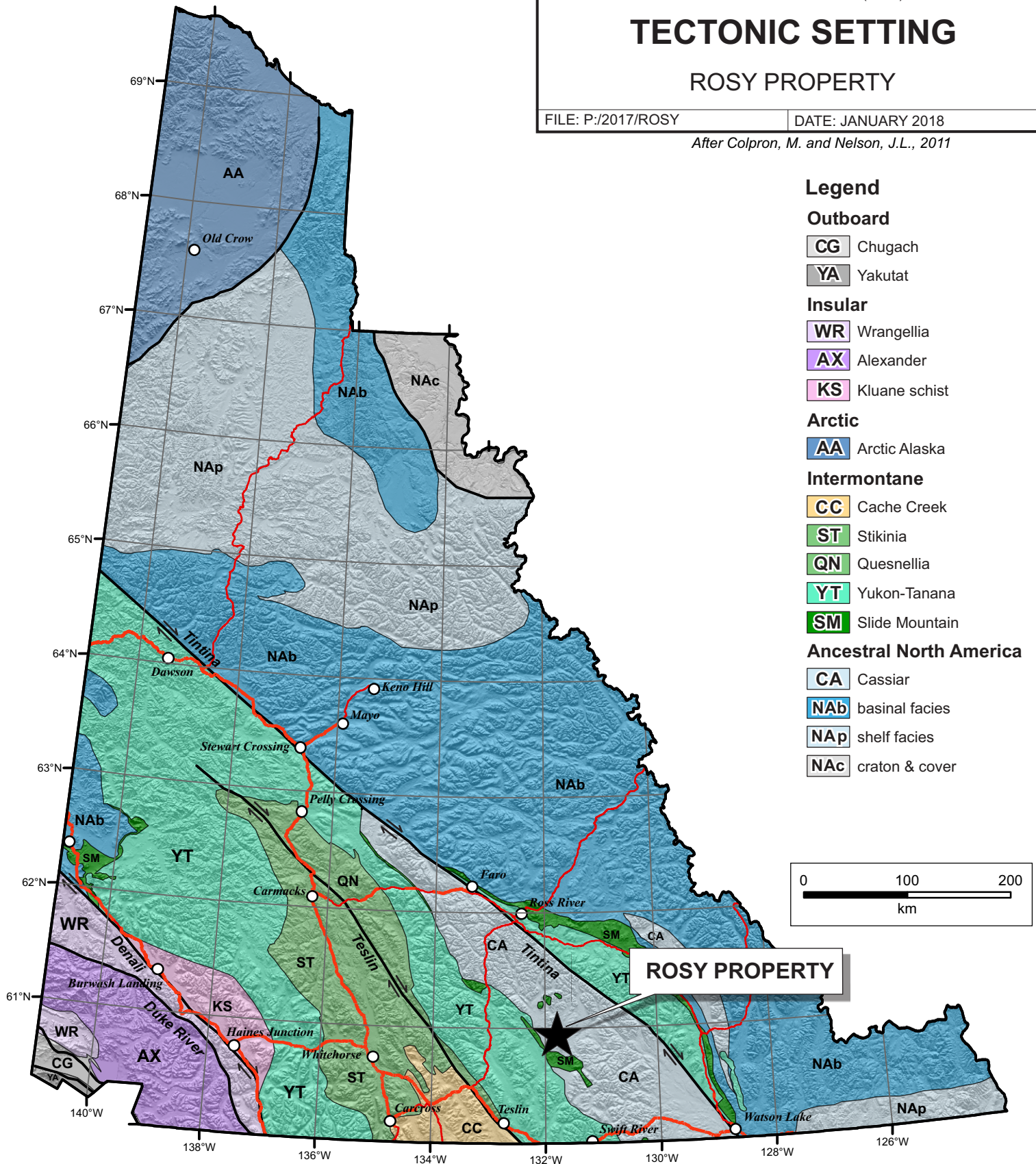
TECTONIC SETTING

ROSY PROPERTY

FILE: P:/2017/ROSY

DATE: JANUARY 2018

After Colpron, M. and Nelson, J.L., 2011



Late Cretaceous: RANCHERIA SUITE

LKqR Boswell Pluton: quartz monzonite and quartz feldspar pluton.

Mid Cretaceous: CASSIAR SUITE

mKgC Quiet Lake Batholith: quartz monzonite

Early to Middle Jurassic: RICHTHOFEN FORMATION

JL1 submarine fan complex mass-flow conglomerates and deep-water turbidites

Early Jurassic: LONG LAKE SUITE

EJgL Sawtooth Pluton: massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite.

Devonian and Mississippian: FINLAYSON FORMATION

DMF1 mafic volcanic rocks including cl-bi-schist, amphibolite, hb-gneiss, ac-pg-cl-bi-schist, pg-ac-cl-schist, phyllite, quartzite and ultramafics.

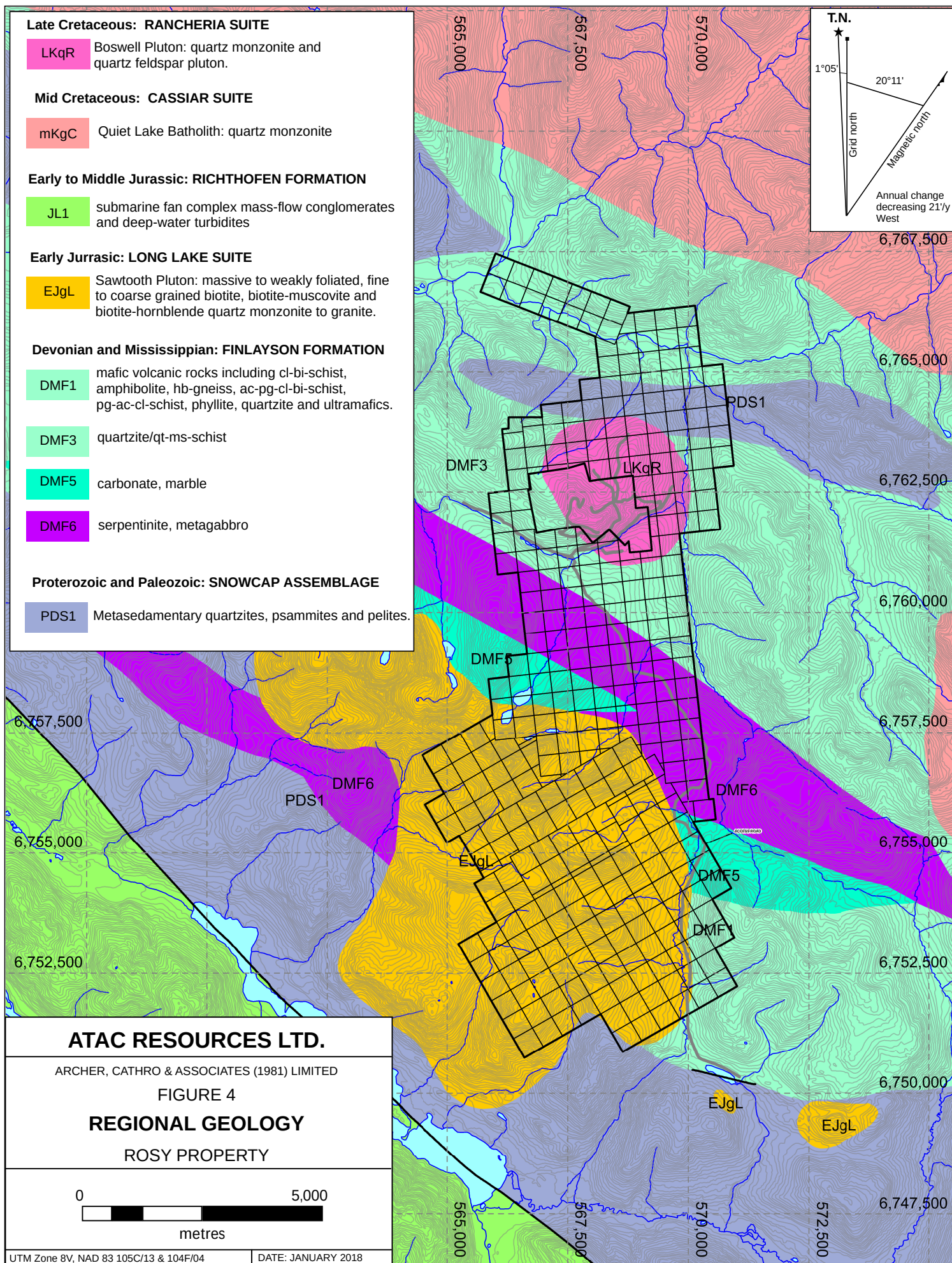
DMF3 quartzite/qt-ms-schist

DMF5 carbonate, marble

DMF6 serpentinite, metagabbro

Proterozoic and Paleozoic: SNOWCAP ASSEMBLAGE

PDS1 Metasedimentary quartzites, psammites and pelites.



	DMF3	Quartzite and quartz-muscovite schist of the Finlayson
	DMF5	Massive marble of the Finlayson Formation
	DMF6	Serpentinite, metagabbro of the Finlayson Formation
Paleozoic or Proterozoic	PPa	Amphibolite consisting of metamorphosed mafic rocks, including hornblendite and serpentinite
	PDS1	Metasedimentary quartzites, psammites and pelites of the Snowcap Assemblage.

The main structural trend in the area is northerly to northwesterly. The Teslin Fault, a regional-scale, post-accretionary, high angle structure is located about five kilometres southwest of the property (Figure 4). Rocks on the southwest side of the Teslin Fault are quite different from those on the northeast side. They belong to the Whitehorse Trough, part of the Stikinia Terrane.

PROPERTY GEOLOGY AND MINERALIZATION

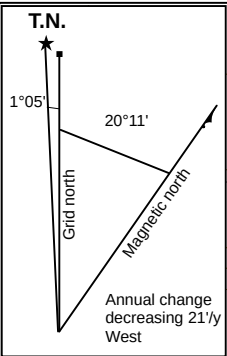
The property is predominantly underlain by Devonian to Mississippian aged metasedimentary and metavolcanic rock of the Yukon-Tanana Terrane. In the southern part of the property, these rocks are intruded by the Early Jurassic Sawtooth Pluton, which comprises weakly foliated hornblende-biotite granodiorite. In the northern part of the property, Yukon-Tanana rocks are cut by the Late Cretaceous Boswell Pluton, which is the host of the Red Mountain Deposit. A contact aureole of rusty fractured hornfels surrounds the Boswell Pluton.

No systematic geological mapping has been completed on the Rosy property by ATAC or preceding exploration companies. The initial claim block covered a portion of the Sawtooth pluton, and a small amount of country rock. Figure 5 illustrates the property geology, while the following paragraphs describe property geology as it relates to the new claim boundary.

The primary structural features in the southern part of the property are a series of strong north-south trending linears and a less obvious, secondary set of northeast-southwest trending linears that cuts orthogonally across the main structural trend. Individual linears in both sets range from 1 to 10 m wide and exhibit moderate to steep dips to the southeast. Sharp breaks separate unaltered resistant-weathering wallrocks from altered recessive-weathering rocks in the linears. The linear features are most evident on ridge crests and cliffs because blocky, unaltered wallrock talus tends to obscure them on normal hillsides.

Numerous cream to pink weathering, quartz-feldspar porphyry dykes (LKPR) cut the Sawtooth pluton. These dykes are generally less than 10 m thick and can be traced along strike for tens to a few hundred metres. They exhibit a variety of strikes but all dip steeply. Many of the dykes have strong recessive linears associated with them and are flanked by quartz-carbonate veins and/or carbonate altered wallrocks.

More than 35 quartz-carbonate veins have been mapped in the southern part of the property. They occur with gouge zones, quartz-feldspar porphyry dykes and carbonate altered wallrocks, usually within the recessive linears. They are rarely seen in outcrop. Where the veins are exposed in bedrock, they are typically less than 80 cm wide and contain milky white to light



Data in this region is taken from a geology map on the Wopus claims by Gordon Davis, 1963.

6,765,000

6,765,000

6,760,000

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6,755,000



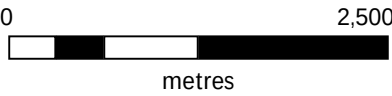
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FIGURE 5

PROPERTY GEOLOGY

ROSY PROPERTY



UTM Zone 8V, NAD 83 105C/13 & 104F/04

DATE: JANUARY 2018

grey, often chalcedonic, quartz. Carbonate normally occurs with the quartz. It weathers orange to red-brown and is likely a mixture of ankerite and dolomite. The veins often exhibit differential weathering that highlights delicate interbanding of quartz and carbonate. Most of the quartz-carbonate veins are hosted by EJgL and are surrounded by one to three metre wide alteration envelopes. These envelopes exhibit rusty weathering surfaces and pervasive yellow to green clay alteration. Angular fragments of altered wallrock are occasionally seen within vein zones. A number of late-stage, barren, white quartz veins crosscut all units on the property.

The Rosy property hosts two main types of mineralization. The first occurs within quartz-carbonate veins and the second is found in altered intrusive rocks.

Primary mineralization within the veins consists of pyrite, lesser arsenopyrite, and rare chalcopyrite. These sulphides typically total 1 to 10% of the veins. They occur as fine disseminations, blebs and stringers hosted in medium grey quartz. There is a weak positive correlation between the abundance of pyrite and that of arsenopyrite. Arsenopyrite and chalcopyrite abundance is also strongly correlated, but there is little apparent correlation between pyrite and chalcopyrite. On weathered surfaces, the primary sulphide minerals have been oxidized and leached to produce limonitic pits. Alteration envelopes peripheral to veins are generally riddled with white quartz veinlets. These quartz veinlets contain 1 to 5% sulphides, consisting of finely disseminated pyrite and arsenopyrite.

The other type of mineralization is found in intrusive rocks of EJgL. In most parts of the property, EJgL contains trace pyrite and rare arsenopyrite, which weather to give the unit a weakly gossanous appearance.

To date the key mineral showings on the Rosy property include the R1-R4 veins and the A-D anomalies. Each of these showings and anomalies are presented on Figure 2 and are described below.

R1 is a 15 to 20 m wide by 20 m long area of rusty orange soil containing quartz-carbonate vein float and minor amounts of altered intrusive rock. Quartz vein material is typically grey and has rare chalcedonic clots. Mineralization consists of finely disseminated pyrite and arsenopyrite, millimeter-scale stringers of arsenopyrite, minor pyrite cubes and rare limonitic pits. Samples of this vein material returned values ranging from 2.14 to 4.42 g/t gold while samples of altered intrusive rock hosting centimeter thick clear to white quartz veinlets with minor disseminated pyrite and trace disseminated arsenopyrite yielded 1.09 and 1.79 g/t gold (Smith, 2008).

R2 is a 20 m wide area of orange-brown rusty soil containing scattered quartz-carbonate float, which historically has returned up to 35.92 g/t gold. In 2008, five rock samples from R2 returned between 2.41 and 5.840 g/t gold (Smith, 2008).

R3 comprises two samples taken approximately 200 m apart. The first sample was collected from a saddle on a ridge. It is a two centimeter wide quartz vein with trace calcite and 10% dark brown limonite in fractures. Mineralization in the vein consists of 0.5% disseminated arsenopyrite that has partially weathered to scorodite. This sample yielded 1.45 g/t gold, 7.7 g/t silver and 8100 ppm arsenic. The other sample was found 200 m west of the ridge crest on a

west facing talus slope. It is a quartz-carbonate vein with disseminated pyrite and arsenopyrite that returned 0.536 g/t gold, 1.7 g/t silver and 2260 ppm arsenic (Smith, 2010).

R4 is situated about 3000 m northwest of R3 in the northwestern part of the property. A talus sample of white quartz vein with a limonitic surface and a core of scorodite with very fine grained disseminated pyrite and arsenopyrite yielded 0.609 g/t gold, 2.5 g/t silver and 2910 ppm arsenic. A second sample of this vein material returned low gold, 39.1 g/t silver and 2040 ppm arsenic (Smith, 2010).

Anomaly A is 500 m long and forms a linear northwesterly trending band that corresponds to the R1 vein. Eight soil samples taken on a south-facing side hill returned greater than 0.500 ppm gold and six of those exceeded 1 ppm, to a maximum of 1.82 ppm gold. To the north, this anomaly extends across a ridge crest onto a cliff-face, which could not be sampled, and from there under a talus- and till- covered valley. To the south, the anomaly projects into a broad silt covered valley (Eaton 2004).

Anomaly B is 350 m long and coincides with the R2 vein. Part of this anomaly is defined by results from a pre-2008 detail grid. The three best soil samples from that grid averaged 0.670 g/t, with a peak value of 0.835 ppm gold (Eaton, 2004). The highest gold-in-soil value from samples taken in 2008 was 0.581 ppm.

Anomaly C lies between Anomalies A and B. It is 250 m long and exhibits a northwesterly trend, subparallel to Anomaly A. Soil samples have yielded values of up to 0.648 ppm gold. This anomaly is located near two anomalous rock samples collected during a previous program but a bedrock source has not been identified.

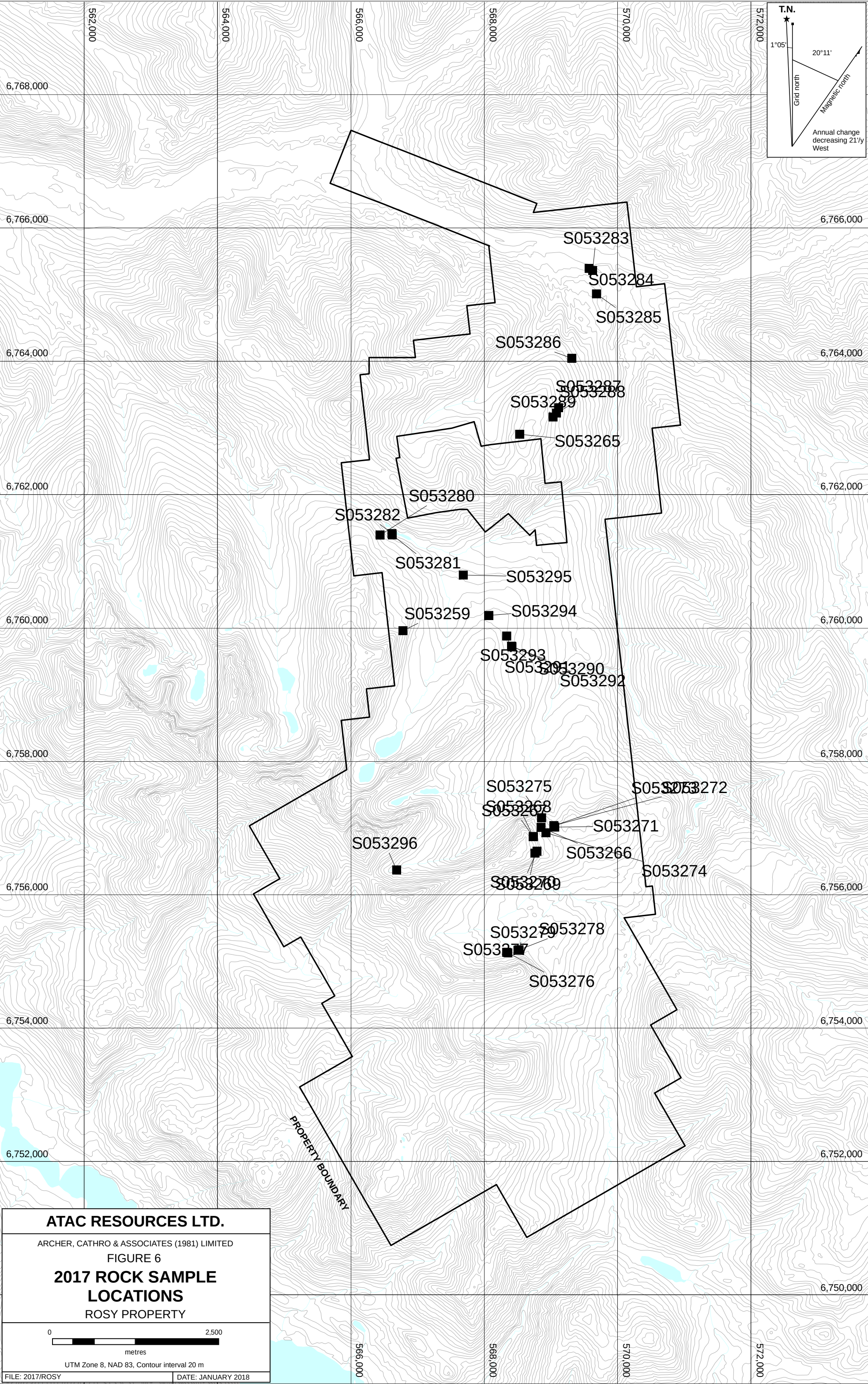
Anomaly D comprises a cluster of five soil samples spread over a 300 by 150 m area, which have yielded up to 0.571 ppm gold. This anomaly is located in a part of the property where little prospecting and mapping have been done (Smith, 2008).

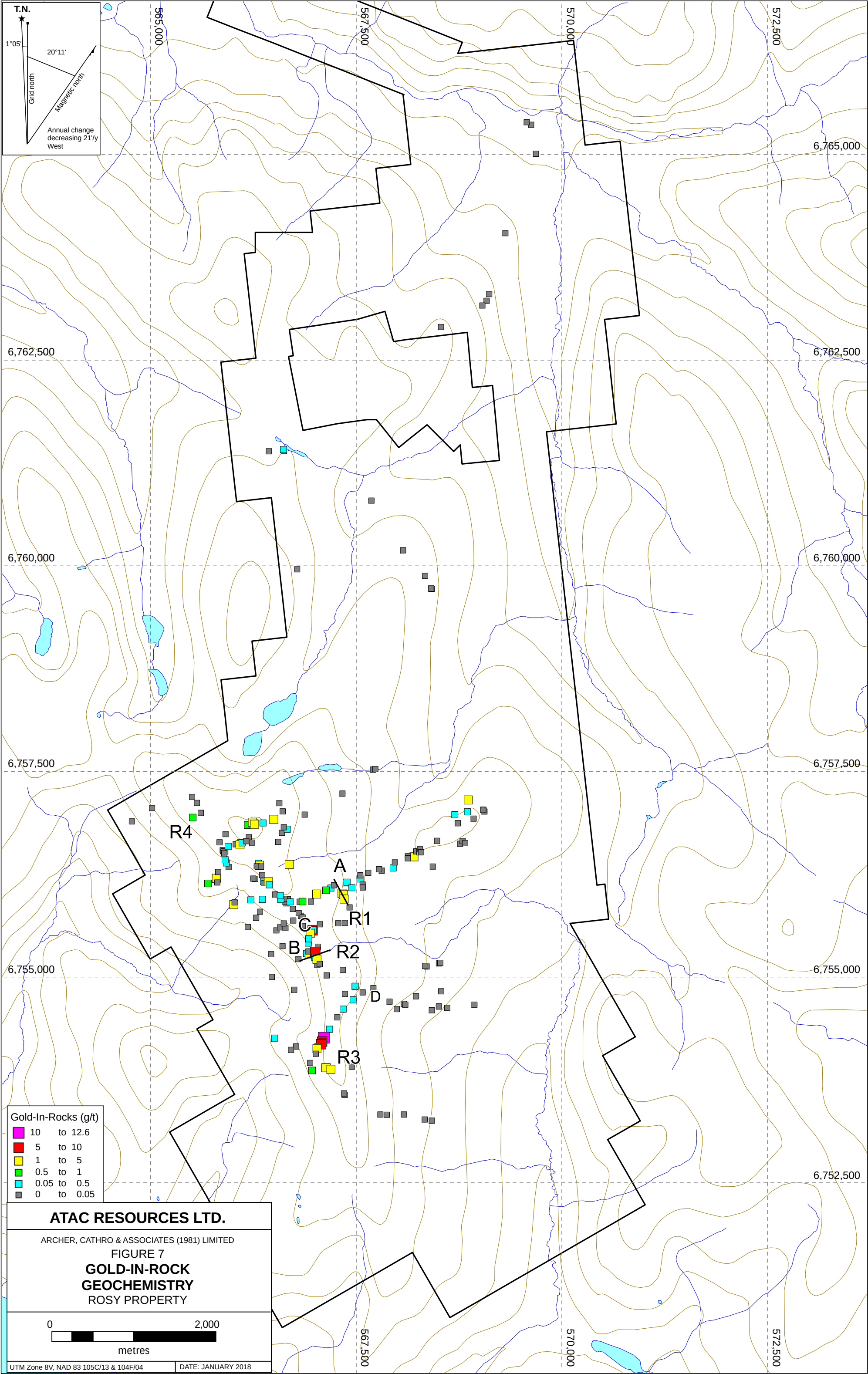
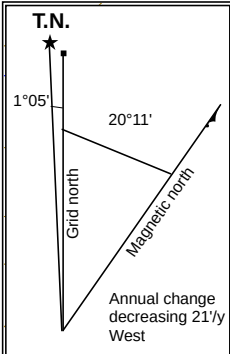
ROCK GEOCHEMISTRY

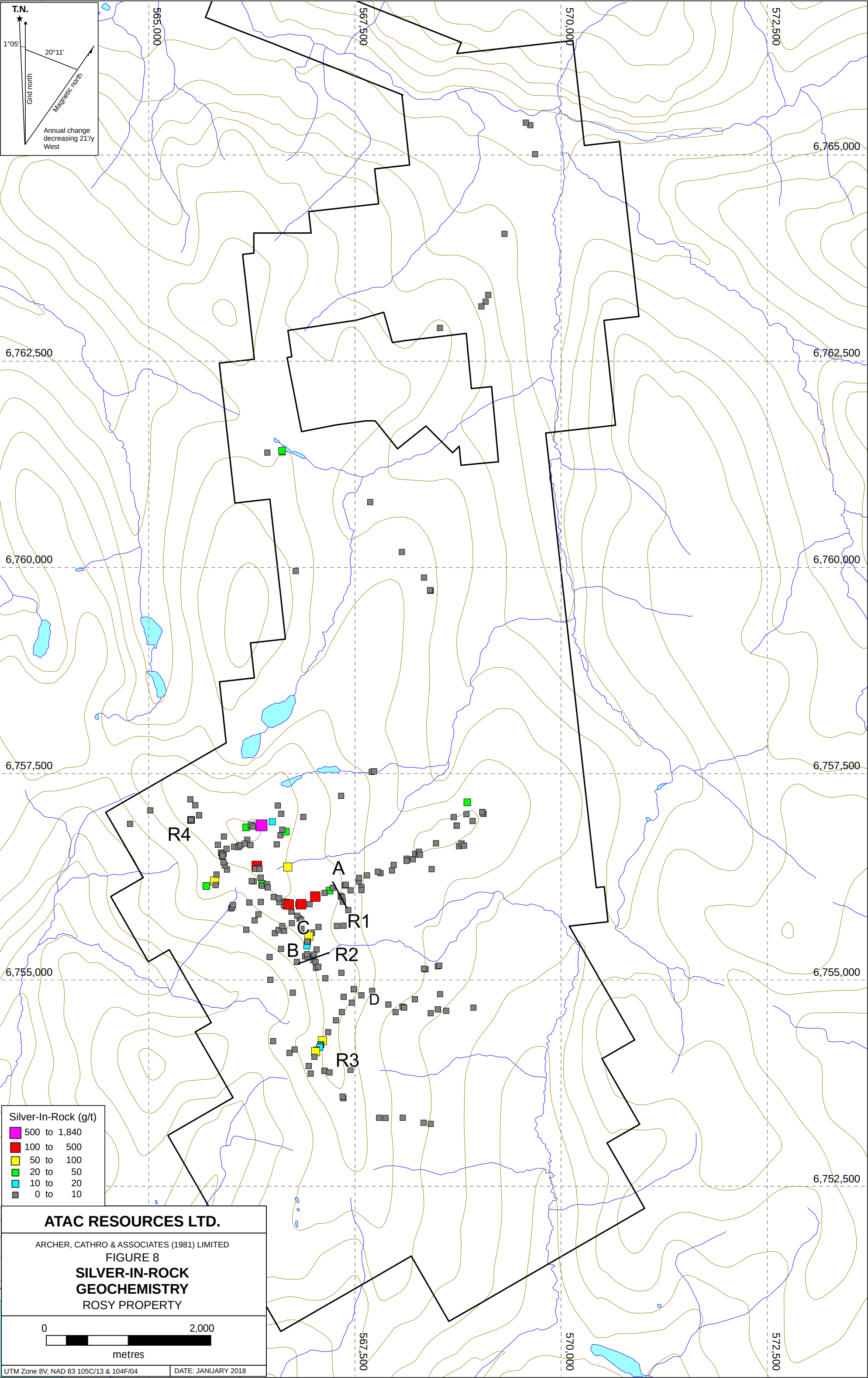
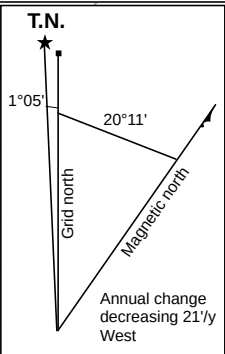
In 2017, 33 rock samples of predominately quartz and quartz-carbonate veins were collected for analysis from across the property.

Rock sample descriptions are located in Appendix III, while Certificates of Analysis for the 2017 samples are provided in Appendix IV.

The 2017 sample locations are shown on Figure 6, while results from all programs for gold and silver are illustrated thematically on Figures 7 and 8, respectively. Rock sample locations in 2017 were recorded using hand-held GPS units. Sample sites are marked by two pieces of flagging labelled with a sample number in permanent ink. The flagging was wrapped around a rock and left at the sample location. The rock samples were sent to ALS Minerals in Whitehorse where they were dried, fine crushed to 70% passing 2 mm before a 250 g split was pulverized to 85% passing 70 microns. A split of the pulverized fraction was shipped to ALS Minerals in North Vancouver where it was dissolved in a multi-acid digestion and analyzed for 49 elements







(ME-MS61) using inductively coupled plasma (ICP) together with mass spectrometry (MS) and atomic emission spectroscopy (AES). Gold analyses were performed by the Au-AA24 procedure that involves fire assay preparation using a 30 gram charge with atomic absorption spectroscopy (AAS) finish.

In 2017, three rock samples of significance were collected from the property. The first sample was located between the R1 and R4 vein zones and returned 4.57 g/t gold and 83.9 g/t silver. The second rock sample was collected two kilometers northeast of the R1 vein and assayed 1.74 g/t gold and 30.0 g/t silver. The third sample was located southwest of Tintina Mines' Red Mountain claim group and yielded 0.05 g/t gold and 21.4 g/t silver.

SOIL GEOCHEMISTRY

In the summer of 2017, 767 soil samples were collected in order to extend existing coverage past areas previously defined as anomalous for gold. Figures 9A to 9C show the locations of the 2017 soil samples. Results from all programs for gold silver and molybdenum are illustrated thematically on Figures 10 to 12, respectively.

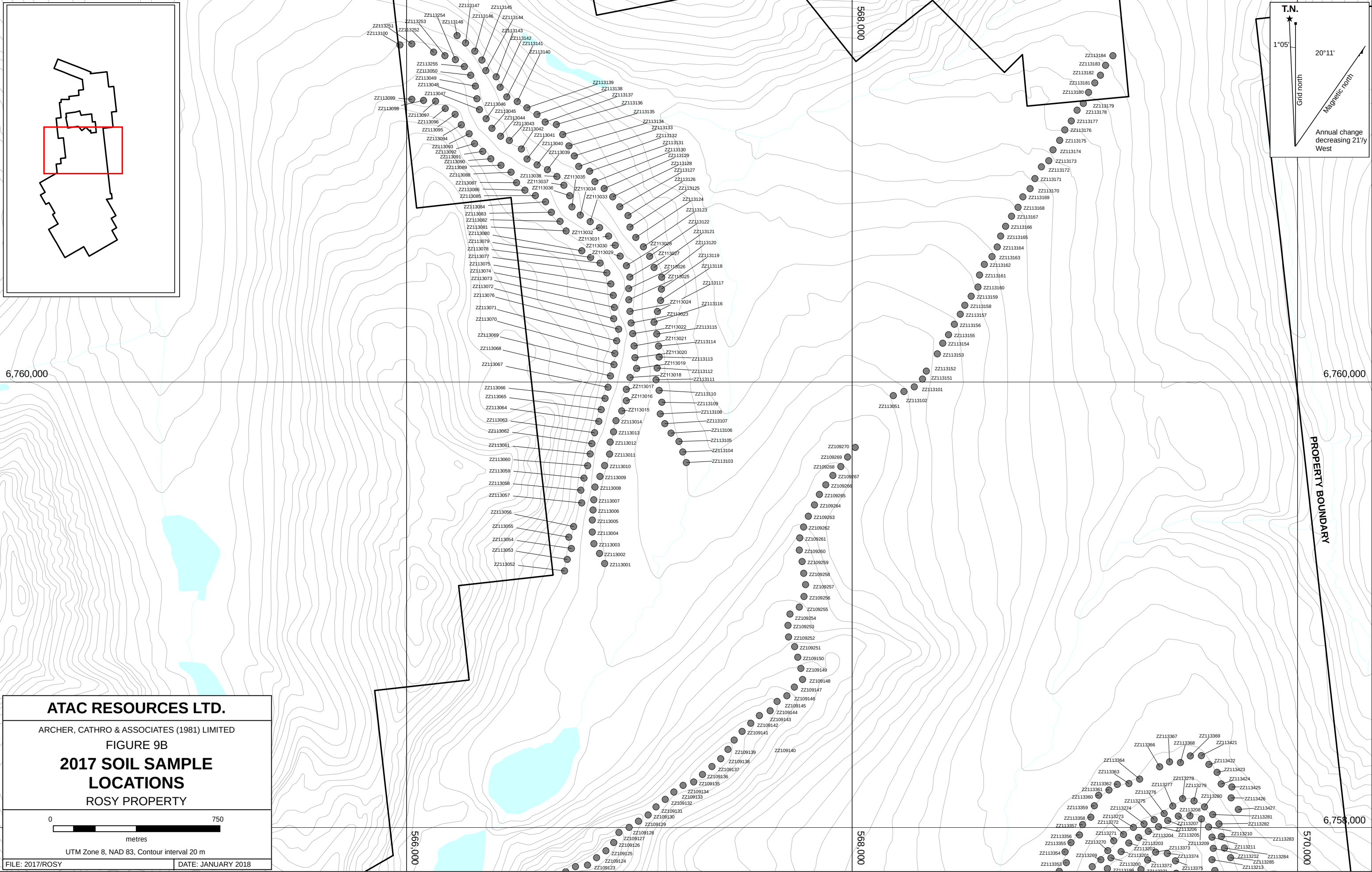
The 2017 soil samples were collected along a combination of grid lines, contour lines and ridge top lines. Contour sampling consisted of samples being collected at 50 m intervals along contours differing by 100 m in elevation. Ridge top samples were collected at 50 m spacing along the height of land. P Hand-held augers were used to collect samples, while locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath. Upon collection, samples were placed into individually pre-numbered Kraft paper bags. All samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The pulps were then sent to the North Vancouver ALS laboratory where they were then analysed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are provided in Appendix IV.

Anomalous thresholds and peak values of gold and silver for all soil samples collected on the property to date are listed in Table II

Table II – Soil Geochemical Thresholds

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	2017 Peak
Gold (ppm)	0.1 < 0.2	≥ 0.2 < 0.5	≥ 0.5 < 1	≥ 1	0.126
Silver (ppm)	1 < 2	≥ 2 < 5	≥ 5 < 10	≥ 10	4.01
Molybdenum (ppm)	1 < 2	≥ 2 < 5	≥ 5 < 10	≥ 10	138

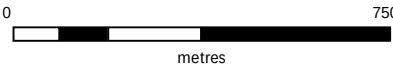
Soil sampling in 2017 was conducted north and east of previous sampling, extending the coverage into the newly acquired Sam claims. The sampling program identified an anomalous cluster 1.75 km northeast of Anomaly A, with assays of up to 0.126 ppm gold. The contour soil



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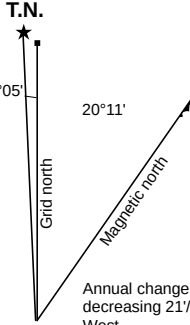
**FIGURE 9B
2017 SOIL SAMPLE
LOCATIONS
ROSY PROPERTY**



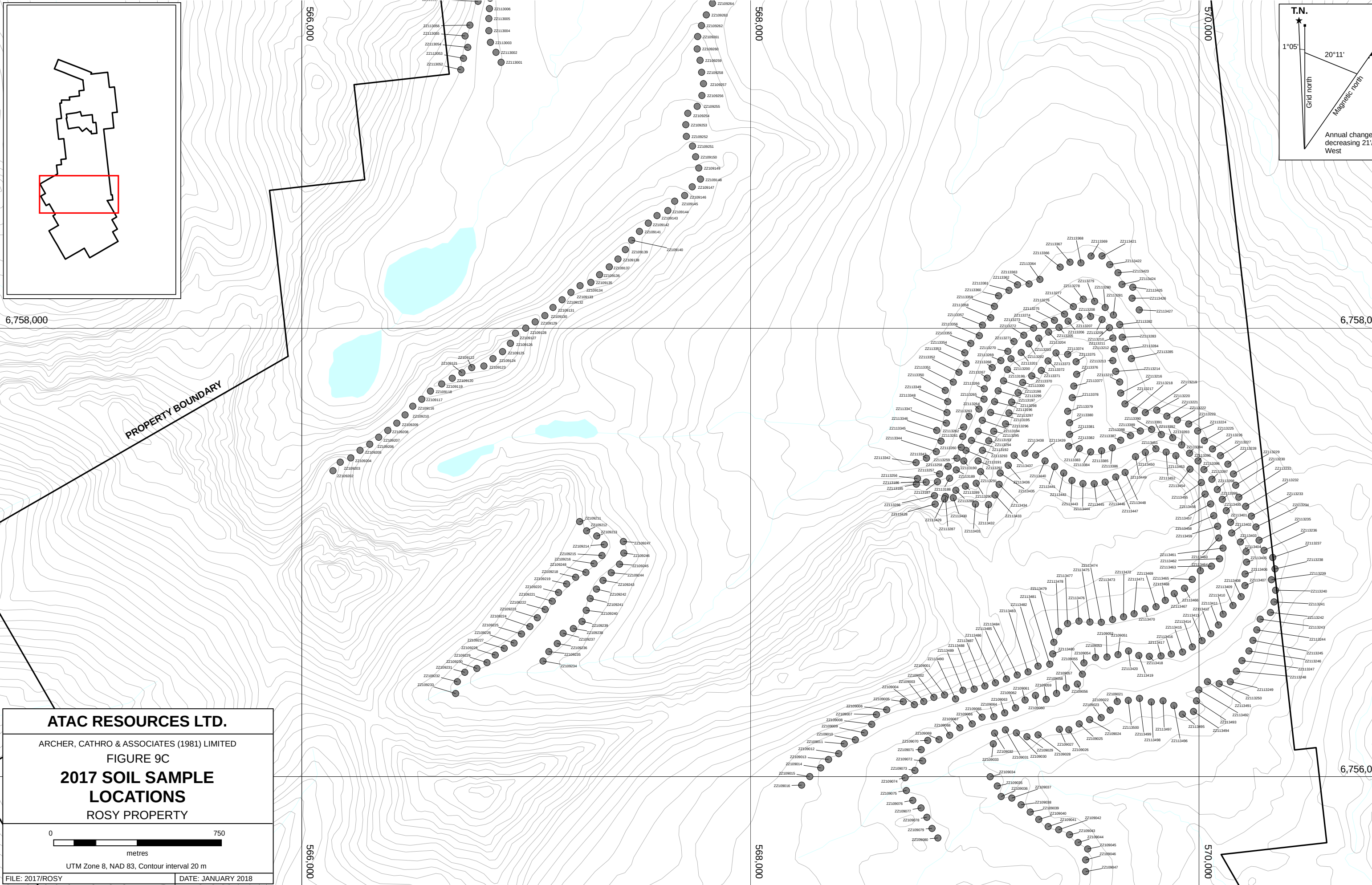
UTM Zone 8, NAD 83, Contour interval 20 m

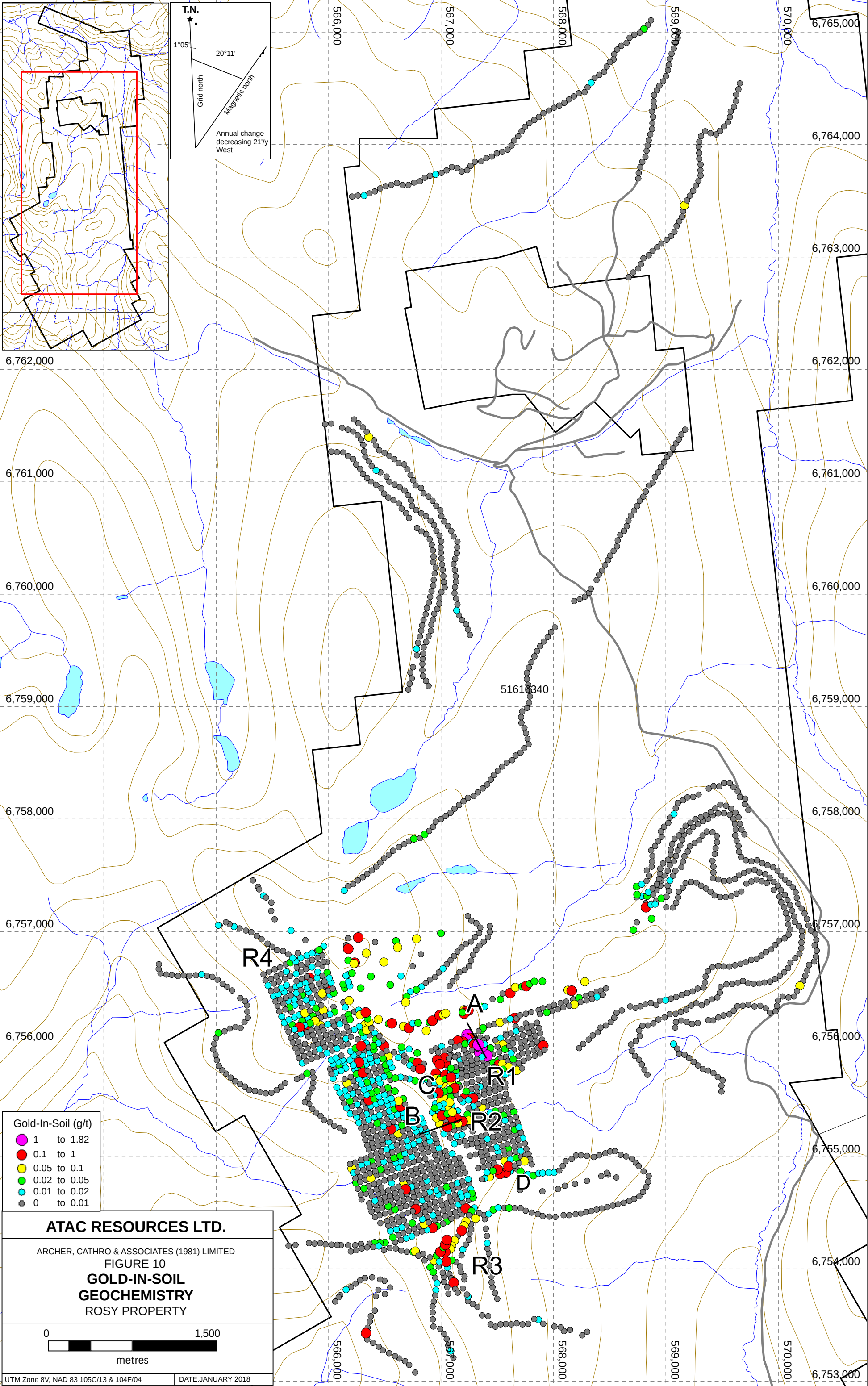
FILE: 2017/ROSY

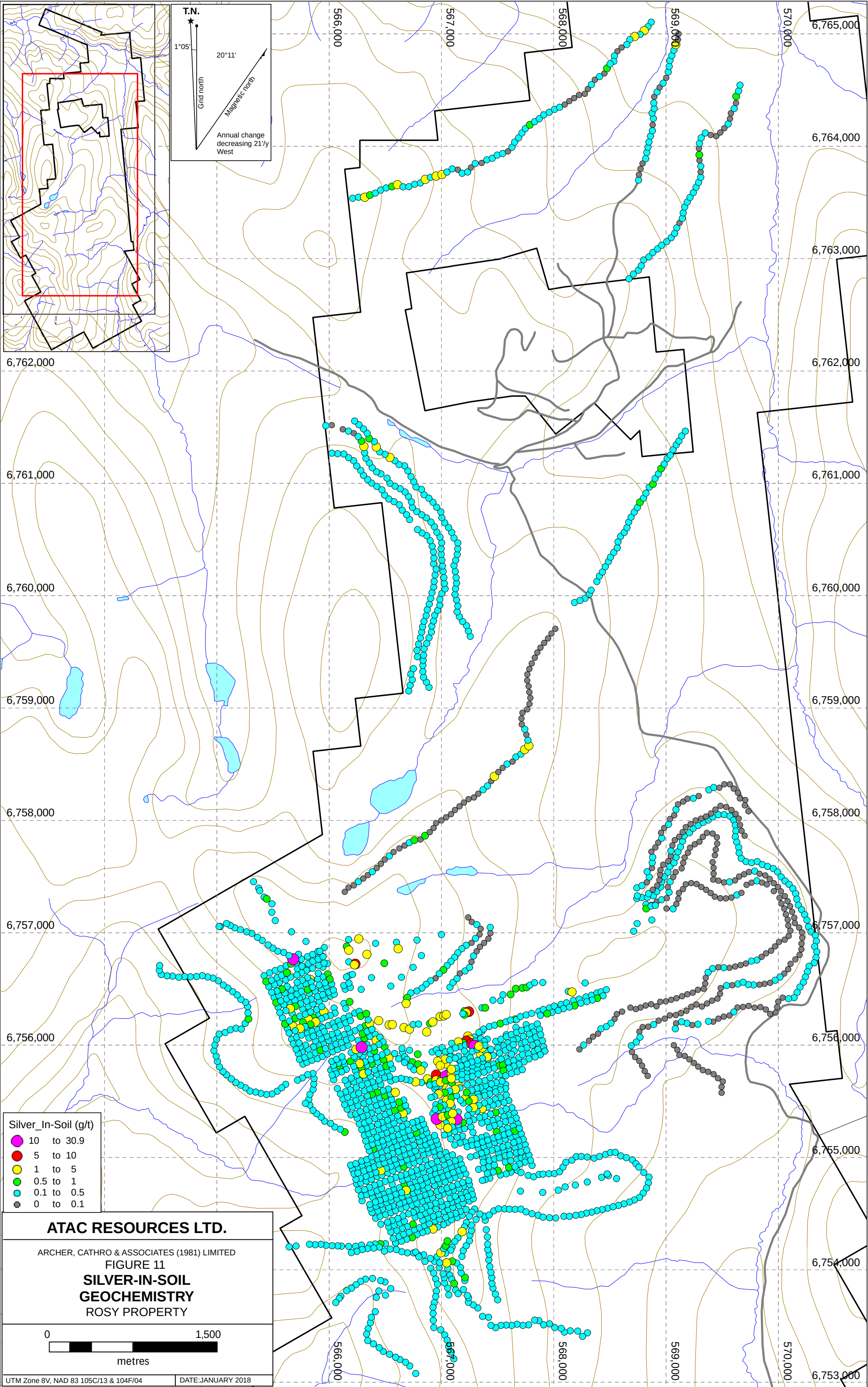
DATE: JANUARY 2018

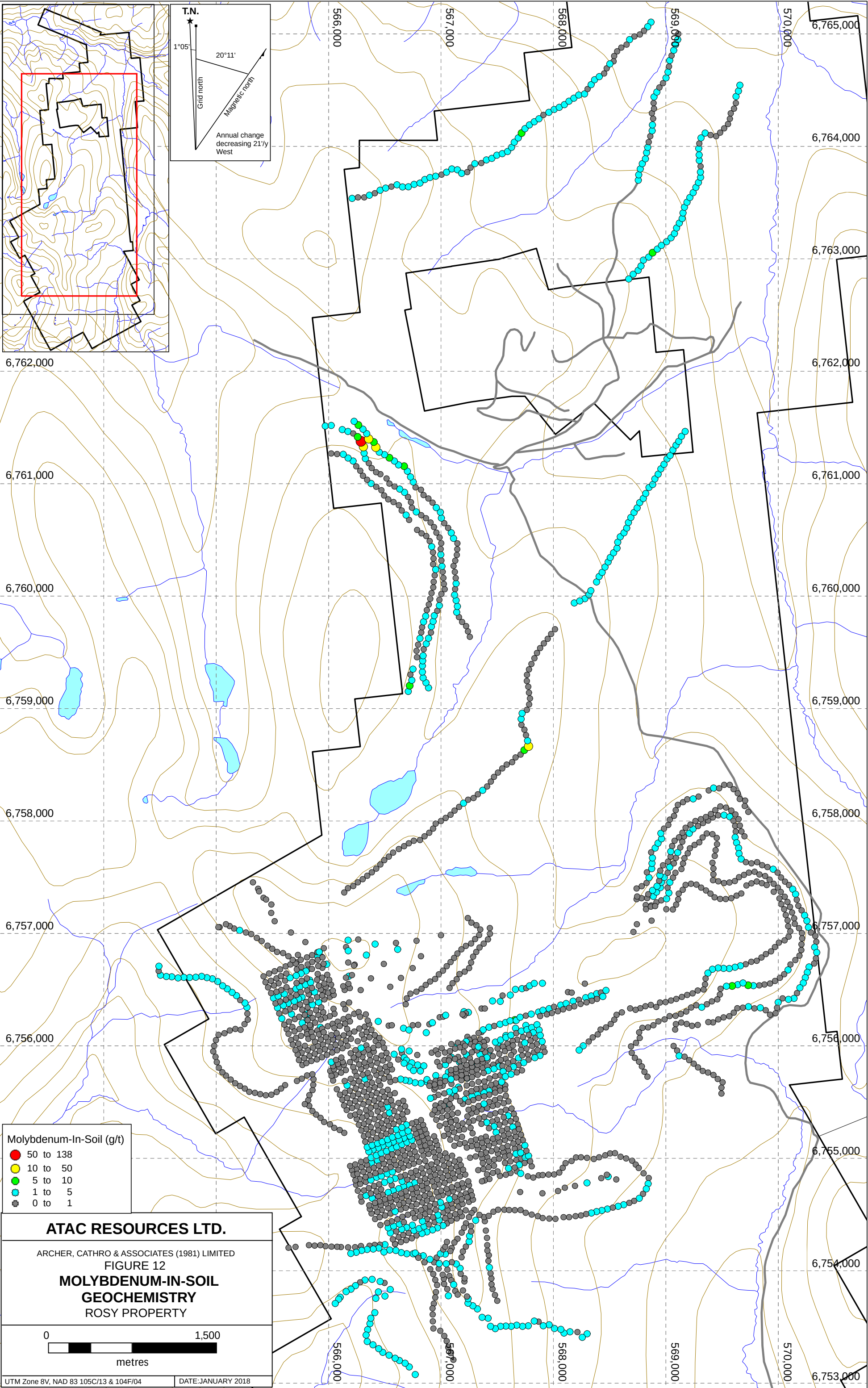


PROPERTY BOUNDARY









sampling done to the southwest of the Red Mountain claims produced multiple samples with strong to very strong molybdenum values of up to 138 ppm.

DISCUSSION AND CONCLUSIONS

The Rosy property hosts widespread gold-and-silver bearing veins that appear to be spatially and temporally associated with Late Cretaceous intrusive activity. The lithogeochemical signature and textural features observed in veins in both float and drill core, suggests that they are developed in a distal part of a large hydrothermal system, probably in a low sulphidation, epithermal setting. The nearby Red Mountain Deposit is likely part of the same system. It exhibits a pronounced lithophile signature, which is characteristic of many Cretaceous-age intrusion-related precious metal deposits elsewhere in Yukon.

The 2017, soil sampling in conjunction with prospecting identified several new geochemical anomalies. A cluster of anomalous gold-in-soil values identified northeast of Anomaly A, overlaps with the location of the 1.74 g/t gold and 30.0 g/t silver rock sample.

A second cluster of anomalous molybdenum-in-soil values was found within close proximity to the Red Mountain Deposit.

Future work on the Rosy property is recommended, due to the size and tenor of the geochemical anomalies and the ongoing discoveries of gold-enriched rock in various parts of the property. All known areas of mineralization warrant further work and reconnaissance-scale soil sampling and prospecting should continue to be performed in the northern part of the property. Grid soil sampling should be extended north and east of the R1 zone, with coverage over the location of the 1.74 g/t gold-in-rock sample. Detailed geological mapping, prospecting and hand trenching should be performed in the vicinity of soil anomalies C and D and at the anomalous areas identified north of the R2 and R3 veins zones. An IP geophysical survey is also recommended in an attempt to trace the mineralized veins beneath talus and ground cover.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



D. Walsh B.Sc., GIT

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2018 MapViewer Online <http://mapservices.gov.yk.ca/Mining/WebMap.aspx>

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from Simon Fraser University in 2013 with a B.Sc. in Earth Sciences.
2. From 2011 to present, I have been actively engaged in mineral exploration in Yukon Territory and British Columbia.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have interpreted data resulting from this programs fieldwork.



D. Walsh B.Sc., GIT

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
Rosy 1-152 and Sam 1-201 Mineral Claims
November 15, 2017

Labour

D. Eaton – geologist – 2 hours March to September at \$120/hr	\$ 252.00
H. Burrell – geologist – 20 hours March to September at \$111/hr	2,331.00
J. Lane – geologist – 6 hours March to September at 111/hr	699.30
J. Morton – geologist – 149 hours March to September at \$85/hr	13,298.25
T. Cruz – geologist – 49 hours March to September at \$78/hr	4,013.10
D. Walsh – geologist – 41 hours March to September at \$78/hr	3,357.90
K. Willms - geologist – 24 hours March to September at \$62/hr	1,562.40
J. Kitchen – field assistant – 108 hours March to September at \$55/hr	6,237.00
K. Whiting – field assistant -8 hours March to September at \$55/hr	462.00
E. Driver – field assistant – 68 hours March to September at \$51/hr	3,641.40
L. Martin-Berry –field assistant – 48 hours March to September at \$51/hr	2,570.40
Q. Wilms -field assistant – 48 hours March to September at \$51/hr	2,570.40
M. Stashick – field assistant – 68 hours March to September at \$47/hr	3,355.80
O. Wolfe – field assistant – 8 hours March to September at \$47/hr	394.80
A. Carne – EIT – 21 hours March to October at \$92/hr	2,028.60
J. Itkin – office – 19 hours March to September at \$92/hr	1,835.40
J. Mariacher office – 36 hours March to November at \$90/hr	3,402.00
S. Newman – office – 50 hours March to September at \$68/hr	3,570.00
W. Schneider – expediting- 3 hours March to September at \$96/hr	302.40
D. Huston – expediting – 8 hours March to September at \$92/hr	772.80
C. Beck – expediting & office- 29 hours March to September at \$81/hr	2,466.45
L. Corbett - expediting – 25 hours March to September at \$81/hr	2,126.25
L. Smith - expediting & office– 37 hours March to October at 81/hr	3,146.85
V. Cournory-Derome – expediting -2 hours March to September at \$51/hr	107.10
T. Brulotte – expediting – 1 hour March to September at \$47/hr	49.35
	<u>64,552.95</u>

Expenses (including management)

Field room and board – 80 3/4 mandays at \$195/day	17,793.26
Capital Helicopters 2.7 hours AStar at \$1,775/hr plus fuel	6,111.15
Horizon Helicopters 4.3 hours AStar at \$1,725/hr plus fuel and 7 hours Hughes 500 at \$1,065/hr plus fuel	17,614.56
Pacesetter Petroleum Jet A	231.65
ALS Chemex	21,807.56
G. Downs time and expenses	1,401.81
R. Carne – consultant	1,310.80
Truck rental	2,678.07
Report estimate	<u>13,350.00</u>
	82,298.86

\$146,851.81

Note: ALS Chemex invoices total \$28,952.41 for 1009 samples. Costs pro-rated to \$21,807.56 for the 760 samples taken on claims.

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions		Property: Rosy		
Sample Number:	K291631	UTM:	585127 mE	Nad83, Zone 8
Elevation:	5686 m	UTM:	6742708 mN	
Comments: Outcrop sample, comprising orange weathering bull quartz from a ~15cm wide vein, with rare clots of very fine grained pyrite. Vein cuts muscovite schist, in an area of multiple <15cm wide quartz vein 'sweats' that are aligned with foliation.				
Sample Number:	K291632	UTM:	584953 mE	Nad83, Zone 8
Elevation:	5717 m	UTM:	6742658 mN	
Comments: Float sample of punky, rusty-orange weathering, limonitic quartz breccia, with abundant manganese stains on fracture surfaces and cm-diameter clots of smokey arsenopyrite-bearing quartz. Collected from a 30x30x30cm boulder in a ridge-top saddle.				
Sample Number:	K291633	UTM:	584942 mE	Nad83, Zone 8
Elevation:	5703 m	UTM:	6742661 mN	
Comments: Float sample of rusty orange to yellow weathering, punky, banded quartz with dark grey bands hosting abundant very fine grained arsenopyrite and moderate clots of live limonite. Collected in a ridge-top saddle.				
Sample Number:	K291634	UTM:	584931 mE	Nad83, Zone 8
Elevation:	5711 m	UTM:	6742690 mN	
Comments: Float sample of rock with the same lithology as sample K291632, collected in a talus chute of abundant mineralized quartz.				
Sample Number:	K291635	UTM:	584357 mE	Nad83, Zone 8
Elevation:	5264 m	UTM:	6740868 mN	
Comments: Subcrop sample, removed from a 60x50x50cm boulder, or rusty orange weathering, banded quartz, with bands of dark smokey quartz with abundant very fine grained arsenopyrite and a dark black mineralization (comprising ~4% of rock). Collected below a saddle in a float train of abundant rusty mineralized quartz.				
Sample Number:	K291636	UTM:	584362 mE	Nad83, Zone 8
Elevation:	5257 m	UTM:	6740869 mN	
Comments: Subcrop sample of rock with the same lithology as K291635, removed from a 120x70x60cm boulder. No rep.				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	K292844	UTM:	571231 mE	Nad83, Zone 8
Elevation:	m	UTM:	6751987 mN	
Comments: Composite sample of four pieces. 15x20x10 cm pieces. Quartz breccia with 2 cm dark grey quartz clasts, white chalcedonic matrix and rare carbonate. Weakly disseminated and clots of arsenopyrite and rare chalcopyrite. Rusty, clay-like coating on some rocks. Found near a small spring within the trees. Earthy hematite stringers 1%.				
Sample Number:	K292845	UTM:	571305 mE	Nad83, Zone 8
Elevation:	m	UTM:	6752192 mN	
Comments: Quartz vein float in linear. 30x20x20 cm block of white quartz vein with limonite coated fractures. Regular limonite to live limonite and goethite filled cavities after sulphides. Rare residual arsenopyrite.				
Sample Number:	K292846	UTM:	573282 mE	Nad83, Zone 8
Elevation:	m	UTM:	6750825 mN	
Comments: Composite sample of two pieces. Both pieces 10x5x20 cm of quartz-carbonate and chalcedonic quartz vein. Rusty exterior with very vibrant orange limonite. No visible sulphides, but dark silica.				
Sample Number:	K292847	UTM:	591240 mE	Nad83, Zone 8
Elevation:	m	UTM:	6742978 mN	
Comments: Dark grey banded silica with rusty limonite surface, less than 1% disseminated arsenopyrite, weak scorodite.				
Sample Number:	K292848	UTM:	591281 mE	Nad83, Zone 8
Elevation:	m	UTM:	6743033 mN	
Comments: Rusty weathering surface, pale grey to clear banded silica with 1% disseminated pyrite. Limonitic fractures.				
Sample Number:	K292849	UTM:	591150 mE	Nad83, Zone 8
Elevation:	m	UTM:	6743000 mN	
Comments: Rusty, limonitic surface on dark grey silica. Vuggy, pitted limonite area. 1% disseminated arsenopyrite. Most interesting sample so far. Dark grey silica with disseminated sulphide - fine grained galena?				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	K292850	UTM:	519140 mE	Nad83, Zone 8
Elevation:	m	UTM:	6742990 mN	
Comments: Sample from soil pit ZZ119706. Four pieces (10cm3) of angular, white silica with abundant fractures, pitted limonite after residula sulphide. Rare sulphide - 1% - pyrite. One pale green to sky blue crystal - flourite?				
Sample Number:	M059848	UTM:	591306 mE	Nad83, Zone 8
Elevation:	0 m	UTM:	6743126 mN	
Comments: Graham's Sample				
Sample Number:	S053101	UTM:	591306 mE	Nad83, Zone 8
Elevation:	m	UTM:	6743126 mN	
Comments: Graham's other Sample				
Sample Number:	S053259	UTM:	566782 mE	Nad83, Zone 8
Elevation:	5276 m	UTM:	6759958 mN	
Comments: Outcrop sample of brick-red weathering, carbonate-altered gabbro, with coarse grained fuchsite, possibly malachite, banded throughout. Effervesces. Appears to be in a fault zone bearing 335/75E with slickenlines with an orientation of 09/335.				
Sample Number:	S053265	UTM:	568531 mE	Nad83, Zone 8
Elevation:	4606 m	UTM:	6762904 mN	
Comments: Float grab of orange weathering quartz, with limonitic hairline fractures, disseminated pocks filled with limonite, and rare disseminated fine grained pyrite. Collected from a road cut.				
Sample Number:	S053266	UTM:	568853 mE	Nad83, Zone 8
Elevation:	5231 m	UTM:	6757010 mN	
Comments: Composite grab of orange, carbonate-altered gabbro(?) breccia, with manganese stains on fracture surfaces and abundant calcite veinlets.				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	S053267	UTM:	568734 mE	Nad83, Zone 8
Elevation:	5504 m	UTM:	6756870 mN	
Comments: Subcrop sample of a brecciated quartz vein cutting dark green amphibolite, with sparse fine grained epidote and rare clots of medium grained galena.				
Sample Number:	S053268	UTM:	568736 mE	Nad83, Zone 8
Elevation:	m	UTM:	6756871 mN	
Comments: Outcrop sample of dark, pyritized amphibolite, with sparse clots of fine grained chalcopyrite rimmed by malachite.				
Sample Number:	S053269	UTM:	568762 mE	Nad83, Zone 8
Elevation:	5489 m	UTM:	6756622 mN	
Comments: Subcrop composite sample of brick-red weathering, colloform carbonate breccia with brecciated clasts of carbonate-altered amphibolite.				
Sample Number:	S053270	UTM:	568793 mE	Nad83, Zone 8
Elevation:	5457 m	UTM:	6756653 mN	
Comments: Subcrop sample of rock with the same lithology as sample S053269.				
Sample Number:	S053271	UTM:	569059 mE	Nad83, Zone 8
Elevation:	5079 m	UTM:	6757013 mN	
Comments: Float grab of tan to buff weathering quartz breccia, with clasts of quartz that have dark grey bands. No rep.				
Sample Number:	S053272	UTM:	569046 mE	Nad83, Zone 8
Elevation:	5076 m	UTM:	6757035 mN	
Comments: Float grab of pale orange weathering, banded chalcedonic quartz, with dark grey bands (of sx?); Removed from a 40cm x 30cm x 30cm boulder in a gully/fault. Material is fairly abundant.				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	S053273	UTM:	569044 mE	Nad83, Zone 8
Elevation:	5083 m	UTM:	6757033 mN	
Comments: Float grab of dark orange weathering, colloform quartz-carbonate breccia, with a dark chalcedonic matrix (containing very fine grained sx?); Collected from a 15cm x 15cm x 10cm boulder.				
Sample Number:	S053274	UTM:	568927 mE	Nad83, Zone 8
Elevation:	5223 m	UTM:	6756927 mN	
Comments: Subcrop sample of bright orange and limonitic, colloform carbonate breccia, with brecciated clasts of carbonate-altered amphibolite in a dolomite/calcite matrix. (Same lithology as sample S052369). Very abundant.				
Sample Number:	S053275	UTM:	568862 mE	Nad83, Zone 8
Elevation:	5083 m	UTM:	6757153 mN	
Comments: Subcrop sample of orange weathering and limonitic, banded quartz-carbonate with sub-mm dark green bands (of chlorite?)				
Sample Number:	S053276	UTM:	568356 mE	Nad83, Zone 8
Elevation:	5041 m	UTM:	6755128 mN	
Comments: Float grab of bull quartz with hairline stringers of dull limonite, trace coarse grained galena, fine grained chalcopryite and rare patches of malachite. Collected from a large boulder field of meta-diorite.				
Sample Number:	S053277	UTM:	568337 mE	Nad83, Zone 8
Elevation:	5011 m	UTM:	6755135 mN	
Comments: Float grab of tan weathering, banded garnet-diopside skarn. Removed from a 70cm x 70cm x 50cm boulder in a large boulder field of meta-diorite.				
Sample Number:	S053278	UTM:	568505 mE	Nad83, Zone 8
Elevation:	4951 m	UTM:	6755166 mN	
Comments: Float grab of tan weathering, banded, sucrosic quartz with slightly smoky bands. Collected from a large boulder field.				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	S053279	UTM:	568523 mE	Nad83, Zone 8
Elevation:	4950 m	UTM:	6755172 mN	
Comments: Float grab of brecciated, carbonate-altered meta-gabbro with the same lithology as sample S053269. Collected from abundant float in a large boulder field. No rep.				
Sample Number:	S053280	UTM:	566438 mE	Nad83, Zone 8
Elevation:	4765 m	UTM:	6761393 mN	
Comments: Subcrop sample of dark orange-brown, crumbly, pyritized/hornfelsed quartz-mica schist, with fuchsite on fracture surfaces.				
Sample Number:	S053281	UTM:	566622 mE	Nad83, Zone 8
Elevation:	4507 m	UTM:	6761395 mN	
Comments: Float grab of brown weathering bull quartz with sparse disseminated coarse grains of pyrite. Collected from the bottom of a scree slope.				
Sample Number:	S053282	UTM:	566616 mE	Nad83, Zone 8
Elevation:	4523 m	UTM:	6761415 mN	
Comments: Composite sample of vuggy, small brown fragments of brecciated shale, with a quartz matrix. Collected from the bottom of a scree slope. No rep.				
Sample Number:	S053283	UTM:	569627 mE	Nad83, Zone 8
Elevation:	3162 m	UTM:	6765362 mN	
Comments: Chip sample across a 70cm x 70cm x 40cm boulder of tan weathering, banded, colloform, chalcedonic quartz, with smoky grey bands, earthy limonite in fracture surfaces, and trace fine grained arsenopyrite. Collected on the side of a road cut.				
Sample Number:	S053284	UTM:	569573 mE	Nad83, Zone 8
Elevation:	3151 m	UTM:	6765392 mN	
Comments: Float grsab of rock with the same lithology as sample S053283. Collected along a road cut from a 15cm x 10cm x 10cm boulder. No rep.				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	S053285	UTM:	569684 mE	Nad83, Zone 8
Elevation:	3299 m	UTM:	6765010 mN	
Comments: Outcrop sample of tan to buff weathering, milky white, sucrosic quartz-carbonate. Collected from a road cut.				
Sample Number:	S053286	UTM:	569314 mE	Nad83, Zone 8
Elevation:	3952 m	UTM:	6764044 mN	
Comments: ~6m chip sample, oriented north-south along a road cut, of grungy, orange weathering, coarse grained rhyolite tuff, with dark brown-black manganese stains on weathered surfaces.				
Sample Number:	S053287	UTM:	569117 mE	Nad83, Zone 8
Elevation:	4382 m	UTM:	6763304 mN	
Comments: Subcrop grab of rock with the same lithology as sample S053286, collected from a road cut. No rep.				
Sample Number:	S053288	UTM:	569084 mE	Nad83, Zone 8
Elevation:	4431 m	UTM:	6763223 mN	
Comments: Subcrop sample of bright orange weathering, pale tan quartz-eye rhyolite, with large grains of quartz weathering to limonite, and dark brown-black, sometimes dendritic, manganese on weather surfaces. Collected from a road cut.				
Sample Number:	S053289	UTM:	569033 mE	Nad83, Zone 8
Elevation:	4442 m	UTM:	6763164 mN	
Comments: Subcrop grab of earthy, deep orange and limonitic weathering rhyolite, with dark brown-black iron/manganese stains on outside surfaces. Collected from a road cut.				
Sample Number:	S053290	UTM:	568418 mE	Nad83, Zone 8
Elevation:	4672 m	UTM:	6759718 mN	
Comments: Float grab of orange weathering quartz, with numerous hairline fractures filled with limonite. Collected from road material.				

Rock Sample Descriptions		Property: Rosy		
Sample Number:	S053291	UTM:	568413 mE	Nad83, Zone 8
Elevation:	4672 m	UTM:	6759721 mN	
Comments: ~10m chip sample of rock with the same lithology as sample S053289. Collected along a road cut. No rep.				
Sample Number:	S053292	UTM:	568410 mE	Nad83, Zone 8
Elevation:	4667 m	UTM:	6759725 mN	
Comments: ~10m chip sample of black, sooty shale. Collected from road cut. No rep.				
Sample Number:	S053293	UTM:	568338 mE	Nad83, Zone 8
Elevation:	4711 m	UTM:	6759878 mN	
Comments: Outcrop sample of strange rainbow-coloured, flow-banded rhyolite. Collected from road cut.				
Sample Number:	S053294	UTM:	568069 mE	Nad83, Zone 8
Elevation:	4752 m	UTM:	6760187 mN	
Comments: ~12m chip sample from along a road cut of orange and brown flow-banded rhyolite.				
Sample Number:	S053295	UTM:	567686 mE	Nad83, Zone 8
Elevation:	4478 m	UTM:	6760793 mN	
Comments: Float grab of tan weathering, milky white quartz, with vugs filled with earthy limonite and limonite along hairline fractures. No rep. Collected from road material.				
Sample Number:	S053296	UTM:	566686 mE	Nad83, Zone 8
Elevation:	1646 m	UTM:	6756369 mN	
Comments: Orange Brown weathering, limonitic, vuggy, quartz rich with dark grey patches				

APPENDIX IV
CERTIFICATE OF ANALYSIS



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com

To: **ATAC RESOURCES LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Total # Pages: 8 (A - C)
Plus Appendix Pages
Finalized Date: 19- JUL- 2017
Account: RCM

CERTIFICATE WH17127290

Project: ROSY

This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE

JULIA LANE

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ATAC RESOURCES LTD.**
ATTN: JULIA LANE
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 8 (A - C)
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Account: RCM

Project: ROSY

CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113001		0.47	<0.2	1.74	11	<10	160	<0.5	<2	0.59	<0.5	16	119	50	2.50	<10
ZZ113002		0.46	0.3	1.92	14	<10	240	<0.5	<2	0.55	<0.5	14	96	51	2.78	<10
ZZ113003		0.33	0.2	1.81	12	<10	150	<0.5	<2	0.75	<0.5	13	98	44	2.30	<10
ZZ113004		0.49	<0.2	1.43	10	<10	60	<0.5	<2	0.40	<0.5	13	97	38	2.14	<10
ZZ113005		0.40	<0.2	1.74	11	<10	70	<0.5	<2	0.16	<0.5	11	69	37	2.10	<10
ZZ113006		0.43	<0.2	1.49	8	<10	50	<0.5	<2	0.29	<0.5	16	103	59	2.02	<10
ZZ113007		0.47	<0.2	1.76	8	<10	70	<0.5	<2	0.21	<0.5	14	78	45	2.29	<10
ZZ113008		0.32	<0.2	1.15	5	<10	40	<0.5	<2	0.16	<0.5	14	102	52	1.68	<10
ZZ113009		0.36	0.2	1.92	7	<10	60	<0.5	<2	0.22	<0.5	21	151	67	2.78	<10
ZZ113010		0.46	<0.2	2.17	8	<10	90	<0.5	<2	0.27	<0.5	19	117	71	2.64	<10
ZZ113011		0.49	<0.2	1.76	7	<10	60	<0.5	<2	0.27	<0.5	15	117	54	2.04	<10
ZZ113012		0.37	<0.2	3.81	21	<10	220	0.7	<2	0.39	<0.5	27	219	387	4.01	10
ZZ113013		0.30	<0.2	1.58	7	<10	60	<0.5	<2	0.21	<0.5	10	79	33	1.97	<10
ZZ113014		0.45	<0.2	1.63	7	<10	70	<0.5	<2	0.34	<0.5	13	142	32	2.59	10
ZZ113015		0.49	<0.2	1.72	6	<10	40	<0.5	<2	0.28	<0.5	18	158	41	1.98	<10
ZZ113016		0.32	<0.2	2.01	10	<10	110	<0.5	<2	0.72	<0.5	14	127	103	1.86	<10
ZZ113017		0.52	<0.2	1.86	5	<10	60	<0.5	<2	0.39	<0.5	17	159	53	2.25	<10
ZZ113018		0.53	<0.2	2.01	6	<10	80	<0.5	<2	0.51	<0.5	16	168	42	2.49	10
ZZ113019		0.47	<0.2	1.84	6	<10	100	<0.5	<2	0.31	<0.5	17	147	73	2.32	<10
ZZ113020		0.49	<0.2	1.79	3	<10	50	<0.5	<2	0.26	<0.5	14	122	34	2.16	<10
ZZ113021		0.56	<0.2	1.54	5	<10	60	<0.5	<2	0.30	<0.5	14	119	40	2.05	<10
ZZ113022		0.44	<0.2	1.51	3	<10	20	<0.5	<2	0.28	<0.5	15	141	48	1.64	<10
ZZ113023		0.43	<0.2	1.45	3	<10	20	<0.5	<2	0.24	<0.5	13	124	52	1.44	<10
ZZ113024		0.52	<0.2	1.65	4	<10	50	<0.5	<2	0.43	<0.5	12	149	99	1.74	<10
ZZ113025		0.43	<0.2	2.46	3	<10	80	<0.5	<2	0.55	<0.5	27	222	422	2.37	<10
ZZ113026		0.48	<0.2	1.83	10	<10	60	<0.5	<2	0.42	<0.5	17	226	127	2.02	<10
ZZ113027		0.37	<0.2	1.80	6	<10	60	<0.5	<2	0.37	<0.5	12	258	90	1.75	<10
ZZ113028		0.35	<0.2	1.22	2	<10	30	<0.5	<2	0.16	<0.5	9	111	34	1.27	<10
ZZ113029		0.60	<0.2	1.75	3	<10	30	<0.5	<2	0.30	<0.5	19	204	90	1.70	<10
ZZ113030		0.56	<0.2	1.51	6	<10	30	<0.5	<2	0.17	<0.5	10	112	37	1.96	<10
ZZ113031		0.70	<0.2	1.29	3	<10	20	<0.5	<2	0.24	<0.5	11	130	35	1.75	<10
ZZ113032		0.72	<0.2	1.30	3	<10	20	<0.5	<2	0.25	<0.5	13	117	45	1.68	<10
ZZ113033		0.37	<0.2	1.10	2	<10	20	<0.5	<2	0.20	<0.5	9	95	37	1.10	<10
ZZ113034		0.42	<0.2	1.39	10	<10	40	<0.5	<2	0.25	<0.5	17	144	51	1.59	<10
ZZ113035		0.34	<0.2	1.40	4	<10	50	<0.5	<2	0.44	<0.5	9	136	103	1.26	<10
ZZ113036		0.63	<0.2	1.37	2	<10	20	<0.5	<2	0.29	<0.5	14	132	27	1.56	<10
ZZ113037		0.51	<0.2	1.04	3	<10	20	<0.5	<2	0.36	<0.5	14	92	28	1.18	<10
ZZ113038		0.35	<0.2	1.96	4	<10	40	<0.5	<2	0.43	<0.5	19	225	119	1.68	<10
ZZ113039		0.43	<0.2	1.69	2	<10	30	<0.5	<2	0.19	<0.5	13	110	29	2.57	<10
ZZ113040		0.73	<0.2	1.09	<2	<10	30	<0.5	<2	0.24	<0.5	10	98	21	1.16	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
ZZ113001		<1	0.10	10	1.45	426	4	0.01	55	570	9	0.02	2	5	19	<20
ZZ113002		<1	0.09	10	1.35	434	4	0.01	53	580	10	0.05	2	5	21	<20
ZZ113003		<1	0.08	10	1.22	381	1	0.01	46	770	9	0.05	<2	3	15	<20
ZZ113004		1	0.04	10	1.23	336	2	0.01	44	320	6	<0.01	<2	3	12	<20
ZZ113005		<1	0.04	10	0.74	381	1	<0.01	30	850	6	0.06	<2	1	9	<20
ZZ113006		<1	0.03	<10	1.12	354	1	<0.01	46	510	4	0.02	<2	2	10	<20
ZZ113007		<1	0.06	10	0.87	332	1	<0.01	37	680	6	0.02	<2	2	10	<20
ZZ113008		1	0.03	<10	0.81	280	<1	<0.01	50	470	3	0.02	<2	3	8	<20
ZZ113009		<1	0.04	<10	1.23	693	1	<0.01	58	830	2	0.06	<2	1	10	<20
ZZ113010		<1	0.05	10	1.29	338	1	0.01	62	530	5	0.02	2	3	12	<20
ZZ113011		<1	0.03	<10	1.26	305	<1	0.01	47	370	3	0.02	<2	2	11	<20
ZZ113012		<1	0.11	20	2.16	562	1	0.01	112	920	10	0.05	<2	12	18	<20
ZZ113013		<1	0.05	<10	0.61	361	1	0.01	29	790	4	0.08	2	<1	10	<20
ZZ113014		<1	0.04	<10	1.25	241	1	<0.01	53	210	4	0.01	<2	4	13	<20
ZZ113015		<1	0.02	<10	1.58	309	<1	0.01	61	210	3	0.01	<2	3	10	<20
ZZ113016		<1	0.05	10	1.19	458	1	0.02	49	670	5	0.07	<2	4	19	<20
ZZ113017		<1	0.04	10	1.46	397	<1	<0.01	60	370	4	0.01	<2	4	13	<20
ZZ113018		<1	0.05	<10	1.42	400	<1	<0.01	59	430	4	0.02	<2	3	14	<20
ZZ113019		<1	0.06	10	1.34	328	<1	<0.01	62	260	4	0.01	2	5	11	<20
ZZ113020		<1	0.04	10	1.06	318	<1	<0.01	44	350	4	0.02	<2	3	10	<20
ZZ113021		<1	0.04	<10	1.08	299	<1	0.01	46	280	3	<0.01	<2	4	11	<20
ZZ113022		1	0.01	<10	1.18	243	<1	<0.01	49	170	<2	<0.01	<2	3	8	<20
ZZ113023		<1	0.02	<10	1.03	213	1	<0.01	44	320	2	0.01	<2	2	9	<20
ZZ113024		<1	0.03	<10	1.18	219	<1	<0.01	52	520	3	0.03	<2	6	12	<20
ZZ113025		<1	0.03	10	2.23	622	1	<0.01	110	990	2	0.09	<2	3	13	<20
ZZ113026		<1	0.03	<10	1.53	282	<1	<0.01	75	370	2	0.01	<2	5	12	<20
ZZ113027		<1	0.03	<10	1.56	219	<1	<0.01	78	360	2	0.03	2	3	11	<20
ZZ113028		<1	0.02	<10	0.82	164	<1	0.01	37	440	2	0.04	<2	1	7	<20
ZZ113029		<1	0.02	<10	1.70	290	<1	<0.01	73	250	2	<0.01	<2	4	10	<20
ZZ113030		<1	0.03	<10	0.81	214	<1	<0.01	35	300	4	0.02	<2	1	9	<20
ZZ113031		<1	0.02	<10	1.00	172	<1	<0.01	40	210	2	0.01	<2	2	9	<20
ZZ113032		<1	0.02	<10	0.98	193	<1	<0.01	40	230	3	0.01	<2	2	9	<20
ZZ113033		<1	0.02	<10	0.78	133	<1	<0.01	32	390	2	0.01	<2	1	8	<20
ZZ113034		<1	0.02	<10	1.13	540	1	<0.01	52	340	4	0.02	<2	2	10	<20
ZZ113035		<1	0.03	<10	0.95	278	<1	0.01	43	680	<2	0.06	<2	1	8	<20
ZZ113036		<1	0.01	<10	1.26	181	<1	<0.01	46	180	<2	<0.01	<2	3	10	<20
ZZ113037		<1	0.01	<10	1.02	248	<1	<0.01	36	320	<2	<0.01	<2	2	11	<20
ZZ113038		<1	0.02	<10	1.85	358	1	<0.01	83	530	3	0.04	<2	4	12	<20
ZZ113039		<1	0.03	<10	1.01	445	1	<0.01	35	650	5	0.05	<2	2	9	<20
ZZ113040		<1	0.03	<10	0.92	190	<1	0.01	32	480	2	0.02	<2	2	10	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti	Ti	U	V	W	Zn	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
ZZ113001		0.08	<10	<10	55	<10	71	0.001
ZZ113002		0.06	<10	10	59	<10	85	0.001
ZZ113003		0.05	<10	<10	50	<10	60	0.001
ZZ113004		0.07	<10	<10	51	<10	42	<0.001
ZZ113005		0.02	<10	<10	52	<10	37	0.003
ZZ113006		0.04	<10	<10	47	<10	31	<0.001
ZZ113007		0.07	<10	<10	58	<10	43	<0.001
ZZ113008		0.02	<10	<10	38	<10	26	<0.001
ZZ113009		0.02	<10	<10	62	<10	40	0.004
ZZ113010		0.07	<10	<10	64	<10	48	<0.001
ZZ113011		0.06	<10	<10	50	<10	30	<0.001
ZZ113012		0.05	<10	<10	100	<10	70	0.003
ZZ113013		0.02	<10	<10	53	<10	33	0.001
ZZ113014		0.14	<10	<10	71	<10	33	<0.001
ZZ113015		0.08	<10	<10	47	<10	30	<0.001
ZZ113016		0.04	<10	<10	42	<10	37	0.001
ZZ113017		0.07	<10	<10	52	<10	32	<0.001
ZZ113018		0.07	<10	<10	57	<10	36	<0.001
ZZ113019		0.08	<10	<10	54	<10	34	<0.001
ZZ113020		0.12	<10	<10	52	<10	41	0.003
ZZ113021		0.12	<10	<10	51	<10	31	0.002
ZZ113022		0.08	<10	<10	38	<10	20	<0.001
ZZ113023		0.06	<10	<10	34	<10	22	<0.001
ZZ113024		0.04	<10	<10	39	<10	30	<0.001
ZZ113025		0.03	<10	<10	48	<10	40	0.001
ZZ113026		0.05	<10	<10	45	<10	33	0.002
ZZ113027		0.09	<10	<10	42	<10	28	<0.001
ZZ113028		0.05	<10	<10	33	<10	20	<0.001
ZZ113029		0.07	<10	<10	39	<10	25	<0.001
ZZ113030		0.08	<10	<10	50	<10	30	0.002
ZZ113031		0.12	<10	<10	48	<10	19	<0.001
ZZ113032		0.08	<10	<10	42	<10	21	0.002
ZZ113033		0.04	<10	<10	27	<10	16	<0.001
ZZ113034		0.05	<10	<10	37	<10	27	<0.001
ZZ113035		0.03	<10	<10	27	<10	30	<0.001
ZZ113036		0.09	<10	<10	39	<10	20	<0.001
ZZ113037		0.05	<10	<10	26	<10	18	<0.001
ZZ113038		0.03	<10	<10	33	<10	36	<0.001
ZZ113039		0.14	<10	<10	64	<10	37	<0.001
ZZ113040		0.06	<10	<10	27	<10	22	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113041		0.55	<0.2	1.39	2	<10	20	<0.5	<2	0.29	<0.5	14	128	32	1.51	<10
ZZ113042		0.53	<0.2	1.20	2	<10	20	<0.5	<2	0.32	<0.5	11	97	25	1.56	<10
ZZ113043		0.44	<0.2	1.40	5	<10	60	<0.5	<2	0.42	<0.5	13	159	54	1.60	<10
ZZ113044		0.40	<0.2	1.42	13	<10	70	<0.5	<2	0.54	<0.5	14	156	73	1.75	<10
ZZ113045		0.56	<0.2	1.21	3	<10	50	<0.5	<2	0.33	<0.5	14	87	25	1.59	<10
ZZ113046		0.44	<0.2	1.48	9	<10	40	<0.5	<2	0.27	<0.5	12	90	19	1.85	<10
ZZ113047		0.59	<0.2	1.19	12	<10	60	<0.5	<2	0.33	<0.5	11	74	28	1.74	<10
ZZ113048		0.30	<0.2	1.03	<2	<10	60	<0.5	<2	0.10	<0.5	6	16	7	2.48	<10
ZZ113049		0.54	2.7	0.43	117	<10	290	<0.5	<2	0.02	<0.5	<1	44	19	5.14	<10
ZZ113050		0.45	0.7	0.62	10	<10	70	<0.5	<2	0.04	1.2	7	16	62	4.13	<10
ZZ113051		0.31	<0.2	1.69	20	<10	50	<0.5	<2	0.18	<0.5	11	76	31	2.31	<10
ZZ113052		0.47	<0.2	2.46	10	<10	160	<0.5	2	0.72	<0.5	13	132	39	2.73	10
ZZ113053		0.33	0.3	1.68	15	<10	180	<0.5	<2	0.43	0.6	11	87	37	2.36	<10
ZZ113054		0.28	<0.2	2.84	3	<10	140	<0.5	<2	1.11	0.6	12	125	32	2.65	10
ZZ113055		0.39	<0.2	3.32	3	<10	180	<0.5	<2	1.50	<0.5	14	143	43	2.83	10
ZZ113056		0.24	<0.2	1.63	6	<10	60	<0.5	<2	0.22	<0.5	18	179	38	2.65	<10
ZZ113057		0.19	<0.2	0.28	<2	<10	20	<0.5	<2	0.11	<0.5	3	7	10	0.52	<10
ZZ113058		0.20	<0.2	0.91	3	<10	40	<0.5	<2	0.15	<0.5	7	47	29	1.17	<10
ZZ113059		0.39	<0.2	1.64	8	<10	50	<0.5	<2	0.25	<0.5	15	105	60	2.13	<10
ZZ113060		0.25	<0.2	1.13	5	<10	60	<0.5	<2	0.15	<0.5	11	107	26	1.93	<10
ZZ113061		0.13	<0.2	0.27	<2	<10	30	<0.5	<2	0.10	<0.5	4	17	8	0.62	<10
ZZ113062		0.31	<0.2	0.26	<2	<10	10	<0.5	<2	0.05	<0.5	2	12	7	0.61	<10
ZZ113063		0.29	<0.2	1.10	4	<10	70	<0.5	<2	0.17	<0.5	23	103	26	1.63	<10
ZZ113064		0.31	<0.2	1.27	12	<10	50	<0.5	<2	0.77	<0.5	14	105	36	1.96	<10
ZZ113065		0.47	<0.2	1.59	4	<10	50	<0.5	<2	0.26	<0.5	13	154	41	2.14	<10
ZZ113066		0.20	0.2	0.96	3	<10	90	<0.5	<2	0.44	1.1	20	87	105	1.46	<10
ZZ113067		0.32	<0.2	1.14	2	<10	30	<0.5	<2	0.15	<0.5	11	101	63	1.55	<10
ZZ113068		0.37	<0.2	2.39	5	<10	70	<0.5	<2	0.48	<0.5	20	250	152	2.48	<10
ZZ113069		0.31	<0.2	1.80	4	<10	50	<0.5	<2	0.20	<0.5	15	144	58	2.34	<10
ZZ113070		0.32	<0.2	1.39	3	<10	30	<0.5	<2	0.22	<0.5	11	161	31	1.94	10
ZZ113071		0.62	<0.2	1.79	3	<10	50	<0.5	<2	0.33	<0.5	12	149	53	1.78	<10
ZZ113072		0.60	<0.2	1.64	6	<10	30	<0.5	<2	0.22	<0.5	11	160	46	1.67	<10
ZZ113073		0.65	<0.2	1.58	4	<10	30	<0.5	<2	0.36	<0.5	14	157	44	1.81	<10
ZZ113074		0.69	<0.2	1.81	2	<10	50	<0.5	<2	0.30	<0.5	14	190	77	1.85	<10
ZZ113075		1.54	<0.2	1.20	8	<10	50	<0.5	<2	0.31	<0.5	10	120	48	1.57	<10
ZZ113076		0.79	<0.2	1.54	4	<10	30	<0.5	<2	0.29	<0.5	14	187	49	2.07	<10
ZZ113077		0.56	<0.2	1.53	5	<10	30	<0.5	<2	0.34	<0.5	35	251	130	1.53	<10
ZZ113078		0.70	<0.2	1.83	3	<10	30	<0.5	<2	0.30	<0.5	16	178	51	1.91	<10
ZZ113079		0.64	<0.2	1.69	3	<10	30	<0.5	<2	0.29	<0.5	20	160	76	1.80	<10
ZZ113080		0.55	<0.2	1.39	4	<10	30	<0.5	<2	0.21	<0.5	13	133	52	1.79	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
ZZ113041		<1	0.02	<10	1.21	208	<1	<0.01	42	350	<2	0.01	<2	3	11	<20
ZZ113042		<1	0.01	<10	0.92	168	<1	<0.01	30	160	3	0.02	<2	2	12	<20
ZZ113043		<1	0.02	<10	1.20	242	<1	<0.01	58	370	3	0.03	<2	5	13	<20
ZZ113044		<1	0.03	<10	1.01	345	<1	0.01	54	710	<2	0.06	<2	6	13	<20
ZZ113045		<1	0.02	<10	0.94	310	<1	<0.01	33	400	<2	0.03	<2	1	14	<20
ZZ113046		<1	0.03	<10	0.97	213	<1	<0.01	33	390	3	0.02	<2	1	15	<20
ZZ113047		<1	0.02	<10	0.77	225	1	<0.01	31	340	3	0.01	<2	1	21	<20
ZZ113048		<1	0.12	20	0.56	373	2	<0.01	14	460	16	0.02	<2	1	7	<20
ZZ113049		<1	0.16	10	0.03	45	18	<0.01	6	6150	29	0.57	19	<1	86	<20
ZZ113050		<1	0.05	10	0.10	223	138	0.04	61	890	52	0.20	2	1	24	<20
ZZ113051		<1	0.05	10	0.68	256	1	<0.01	30	560	10	0.03	<2	2	10	<20
ZZ113052		<1	0.05	10	2.63	425	4	<0.01	55	540	8	0.02	<2	6	20	<20
ZZ113053		1	0.06	10	1.20	310	7	<0.01	52	640	11	0.03	2	2	13	<20
ZZ113054		<1	0.05	10	3.79	493	1	<0.01	40	490	4	0.05	<2	8	12	<20
ZZ113055		1	0.43	10	4.91	521	<1	<0.01	44	460	3	0.06	<2	11	12	<20
ZZ113056		<1	0.04	<10	1.35	550	1	<0.01	65	720	3	0.06	<2	1	9	<20
ZZ113057		<1	0.02	<10	0.09	162	<1	0.01	4	380	<2	0.04	<2	<1	7	<20
ZZ113058		<1	0.03	<10	0.57	166	<1	0.01	20	670	<2	0.08	<2	<1	8	<20
ZZ113059		<1	0.03	<10	1.10	360	<1	<0.01	44	490	3	0.04	<2	2	10	<20
ZZ113060		<1	0.03	<10	0.68	364	1	<0.01	30	590	3	0.06	<2	1	10	<20
ZZ113061		<1	0.03	<10	0.11	256	<1	0.01	7	400	<2	0.04	<2	<1	7	<20
ZZ113062		<1	0.01	<10	0.10	50	<1	0.01	5	190	<2	0.02	<2	<1	6	<20
ZZ113063		<1	0.04	<10	0.56	2130	1	<0.01	25	1010	4	0.12	<2	1	9	<20
ZZ113064		<1	0.03	<10	0.84	746	1	<0.01	36	1170	4	0.10	<2	2	12	<20
ZZ113065		<1	0.04	<10	1.37	284	<1	<0.01	59	230	3	0.02	<2	3	10	<20
ZZ113066		<1	0.03	<10	0.62	887	<1	<0.01	46	450	4	0.04	<2	1	12	<20
ZZ113067		<1	0.02	<10	0.86	188	<1	<0.01	34	320	3	0.03	<2	1	8	<20
ZZ113068		<1	0.05	<10	2.08	446	<1	<0.01	109	610	3	0.05	<2	5	12	<20
ZZ113069		<1	0.04	<10	1.14	319	<1	<0.01	51	410	4	0.04	<2	2	10	<20
ZZ113070		<1	0.03	<10	0.96	237	<1	<0.01	42	160	3	0.01	<2	3	10	<20
ZZ113071		<1	0.03	<10	1.26	286	<1	<0.01	50	380	2	0.03	3	2	10	<20
ZZ113072		<1	0.03	<10	1.11	210	<1	<0.01	56	440	3	0.04	2	2	9	<20
ZZ113073		<1	0.02	<10	1.27	263	<1	<0.01	54	210	<2	0.02	<2	3	10	<20
ZZ113074		<1	0.02	<10	1.39	302	<1	<0.01	64	310	3	0.03	<2	3	11	<20
ZZ113075		<1	0.02	<10	0.96	237	1	0.01	46	250	3	0.02	<2	3	9	<20
ZZ113076		1	0.02	<10	1.30	229	1	0.01	57	190	2	0.01	<2	3	9	<20
ZZ113077		<1	0.01	<10	2.07	282	<1	<0.01	91	140	<2	0.01	<2	4	11	<20
ZZ113078		<1	0.02	<10	1.59	200	<1	<0.01	71	140	<2	0.01	<2	3	9	<20
ZZ113079		1	0.02	<10	1.49	269	<1	<0.01	69	170	<2	0.01	<2	3	9	<20
ZZ113080		<1	0.02	<10	1.08	170	<1	<0.01	55	330	3	0.03	2	2	8	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti	Ti	U	V	W	Zn	Au
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001
ZZ113041		0.08	<10	<10	34	<10	23	0.001
ZZ113042		0.10	<10	<10	37	<10	19	<0.001
ZZ113043		0.03	<10	<10	34	<10	27	0.001
ZZ113044		0.02	<10	<10	40	<10	29	0.013
ZZ113045		0.03	<10	<10	35	<10	36	<0.001
ZZ113046		0.04	<10	<10	36	<10	56	<0.001
ZZ113047		0.04	<10	<10	38	<10	58	0.002
ZZ113048		0.09	<10	<10	18	<10	65	<0.001
ZZ113049		<0.01	<10	<10	130	<10	123	0.007
ZZ113050		0.01	<10	<10	42	<10	688	<0.001
ZZ113051		0.06	<10	<10	48	<10	38	<0.001
ZZ113052		0.10	<10	<10	69	<10	66	0.001
ZZ113053		0.04	<10	<10	51	<10	104	<0.001
ZZ113054		0.14	<10	<10	87	<10	60	<0.001
ZZ113055		0.17	<10	<10	95	<10	55	<0.001
ZZ113056		0.05	<10	<10	71	<10	42	<0.001
ZZ113057		0.01	<10	<10	16	<10	10	<0.001
ZZ113058		0.03	<10	<10	29	<10	24	0.014
ZZ113059		0.05	<10	<10	48	<10	36	<0.001
ZZ113060		0.07	<10	<10	52	<10	29	0.001
ZZ113061		0.02	<10	<10	22	<10	19	<0.001
ZZ113062		0.02	<10	<10	18	<10	10	<0.001
ZZ113063		0.05	<10	<10	44	<10	28	<0.001
ZZ113064		0.02	<10	<10	44	<10	52	0.002
ZZ113065		0.07	<10	<10	50	<10	35	0.001
ZZ113066		0.05	<10	<10	38	<10	39	0.002
ZZ113067		0.07	<10	<10	36	<10	22	<0.001
ZZ113068		0.04	<10	<10	53	<10	57	<0.001
ZZ113069		0.08	<10	<10	51	<10	51	<0.001
ZZ113070		0.20	<10	<10	59	<10	24	<0.001
ZZ113071		0.04	<10	<10	41	<10	33	<0.001
ZZ113072		0.04	<10	<10	39	<10	28	<0.001
ZZ113073		0.06	<10	<10	40	<10	27	<0.001
ZZ113074		0.06	<10	<10	43	<10	24	<0.001
ZZ113075		0.05	<10	<10	36	<10	23	<0.001
ZZ113076		0.13	<10	<10	49	<10	26	<0.001
ZZ113077		0.05	<10	<10	27	<10	16	<0.001
ZZ113078		0.08	<10	<10	41	<10	24	<0.001
ZZ113079		0.07	<10	<10	39	<10	22	<0.001
ZZ113080		0.07	<10	<10	44	<10	21	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113081		0.46	<0.2	1.44	4	<10	30	<0.5	<2	0.21	<0.5	14	123	58	1.56	<10
ZZ113082		0.61	<0.2	1.58	7	<10	20	<0.5	<2	0.24	<0.5	17	168	80	1.63	<10
ZZ113083		0.68	<0.2	1.57	6	<10	30	<0.5	<2	0.23	<0.5	17	167	88	1.77	<10
ZZ113084		0.63	<0.2	1.49	4	<10	30	<0.5	<2	0.29	<0.5	15	151	74	1.40	<10
ZZ113085		0.61	<0.2	1.87	7	<10	40	<0.5	<2	0.45	<0.5	19	224	171	1.64	<10
ZZ113086		0.62	<0.2	1.64	5	<10	20	<0.5	<2	0.38	<0.5	22	208	106	1.52	<10
ZZ113087		0.72	<0.2	1.31	7	<10	40	<0.5	<2	0.43	<0.5	17	213	113	2.01	<10
ZZ113088		0.60	<0.2	1.37	5	<10	20	<0.5	<2	0.36	<0.5	18	155	56	1.45	<10
ZZ113089		0.41	<0.2	1.26	2	<10	40	<0.5	<2	0.29	<0.5	10	121	36	1.06	<10
ZZ113090		0.30	<0.2	1.48	26	<10	90	<0.5	<2	0.53	<0.5	23	209	109	2.38	<10
ZZ113091		0.49	<0.2	1.64	18	<10	80	<0.5	<2	0.32	<0.5	16	228	104	2.19	<10
ZZ113092		0.44	<0.2	1.61	19	<10	70	<0.5	<2	0.47	<0.5	20	291	122	2.23	<10
ZZ113093		0.44	<0.2	0.94	2	<10	30	<0.5	<2	0.21	<0.5	8	94	32	1.09	<10
ZZ113094		0.25	<0.2	1.45	4	<10	80	<0.5	<2	0.20	<0.5	12	45	48	2.05	<10
ZZ113095		0.59	0.2	1.32	39	<10	150	<0.5	<2	1.10	<0.5	15	33	73	4.00	<10
ZZ113096		0.33	0.2	1.29	88	<10	130	<0.5	<2	0.76	<0.5	11	62	65	2.38	<10
ZZ113097		0.59	0.2	1.22	80	<10	110	<0.5	<2	0.45	<0.5	18	25	77	4.68	<10
ZZ113098		0.50	<0.2	0.58	5	<10	30	<0.5	<2	0.15	<0.5	3	19	19	0.71	<10
ZZ113099		0.34	<0.2	1.58	4	<10	50	<0.5	<2	0.19	<0.5	11	101	63	1.81	<10
ZZ113100		0.44	<0.2	1.22	19	<10	80	<0.5	<2	0.18	0.6	9	53	24	2.74	<10
ZZ113101		0.29	<0.2	1.51	55	<10	70	<0.5	<2	0.24	0.5	12	79	27	2.69	<10
ZZ113102		0.35	<0.2	1.60	9	<10	60	<0.5	<2	0.21	<0.5	9	78	16	2.15	<10
ZZ113103		0.46	<0.2	1.47	3	<10	60	<0.5	<2	0.34	<0.5	15	129	27	1.79	<10
ZZ113104		0.35	<0.2	2.00	4	<10	100	<0.5	<2	0.37	<0.5	13	162	57	2.11	10
ZZ113105		0.42	<0.2	2.76	7	<10	130	<0.5	<2	0.34	<0.5	17	218	91	2.83	10
ZZ113106		0.40	<0.2	1.54	3	<10	40	<0.5	<2	0.30	<0.5	13	155	32	1.82	<10
ZZ113107		0.30	<0.2	1.45	3	<10	80	<0.5	<2	0.32	<0.5	10	106	29	1.52	<10
ZZ113108		0.49	<0.2	1.56	4	<10	70	<0.5	<2	0.43	<0.5	16	142	50	1.82	<10
ZZ113109		0.38	<0.2	1.96	3	<10	70	<0.5	<2	0.29	<0.5	15	152	48	2.19	<10
ZZ113110		0.32	<0.2	2.17	7	<10	110	<0.5	<2	0.46	<0.5	18	178	80	2.47	<10
ZZ113111		0.40	<0.2	2.38	6	<10	150	<0.5	<2	0.31	<0.5	15	183	83	2.41	10
ZZ113112		0.27	<0.2	1.83	5	<10	50	<0.5	<2	0.23	<0.5	14	138	35	2.58	<10
ZZ113113		0.32	<0.2	2.19	6	<10	120	<0.5	<2	0.55	<0.5	15	159	59	2.44	<10
ZZ113114		0.29	<0.2	1.41	3	<10	40	<0.5	<2	0.23	<0.5	10	104	26	1.57	<10
ZZ113115		0.49	<0.2	1.93	5	<10	90	<0.5	<2	0.43	<0.5	16	163	76	2.25	<10
ZZ113116		0.32	<0.2	2.13	8	<10	70	<0.5	<2	0.47	<0.5	15	184	116	2.28	<10
ZZ113117		0.28	0.2	1.90	5	<10	50	<0.5	<2	0.38	<0.5	18	134	184	1.76	<10
ZZ113118		0.34	0.2	2.12	16	<10	70	<0.5	<2	0.52	<0.5	19	193	187	2.06	<10
ZZ113119		0.39	0.2	1.71	13	<10	60	<0.5	<2	0.47	<0.5	14	148	67	1.68	<10
ZZ113120		0.36	<0.2	1.25	3	<10	20	<0.5	<2	0.31	<0.5	11	112	34	1.71	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
ZZ113081		<1	0.02	<10	1.17	210	<1	<0.01	58	320	3	0.03	<2	1	9	<20
ZZ113082		<1	0.02	<10	1.44	238	1	<0.01	75	240	<2	0.02	<2	2	8	<20
ZZ113083		<1	0.02	<10	1.47	243	<1	<0.01	69	170	3	0.01	<2	3	9	<20
ZZ113084		<1	0.02	<10	1.32	195	<1	0.01	65	350	2	0.02	<2	1	9	<20
ZZ113085		<1	0.03	<10	1.73	251	<1	0.01	96	440	<2	0.04	<2	5	9	<20
ZZ113086		<1	0.02	<10	1.90	268	<1	<0.01	84	220	<2	0.02	<2	4	10	<20
ZZ113087		<1	0.03	<10	0.79	375	<1	<0.01	73	330	<2	0.02	3	11	7	<20
ZZ113088		1	0.01	<10	1.44	217	<1	<0.01	64	180	<2	0.01	<2	3	11	<20
ZZ113089		<1	0.02	<10	0.89	148	<1	0.01	41	590	2	0.06	<2	1	9	<20
ZZ113090		<1	0.05	<10	1.22	428	1	<0.01	92	350	2	0.03	8	14	11	<20
ZZ113091		<1	0.03	<10	1.39	308	<1	<0.01	90	560	2	0.03	3	7	9	<20
ZZ113092		<1	0.04	<10	1.44	322	<1	<0.01	119	340	<2	0.02	5	14	8	<20
ZZ113093		<1	0.02	<10	0.73	170	<1	0.01	33	460	<2	0.03	<2	2	8	<20
ZZ113094		<1	0.05	<10	0.68	588	<1	<0.01	21	810	6	0.02	<2	3	16	<20
ZZ113095		1	0.06	10	1.28	526	2	<0.01	33	800	14	0.02	3	4	28	<20
ZZ113096		1	0.04	10	0.88	527	1	0.02	31	690	10	0.05	6	4	21	<20
ZZ113097		<1	0.05	20	0.93	822	2	<0.01	35	860	11	0.02	<2	5	17	<20
ZZ113098		<1	0.02	<10	0.22	141	<1	0.02	7	430	2	0.03	<2	<1	7	<20
ZZ113099		<1	0.03	<10	1.12	388	<1	0.02	47	650	3	0.05	<2	1	11	<20
ZZ113100		<1	0.05	10	0.46	218	4	<0.01	31	400	9	0.02	<2	2	16	<20
ZZ113101		<1	0.04	10	0.72	255	2	0.01	34	550	9	0.02	<2	2	12	<20
ZZ113102		<1	0.03	10	0.64	229	1	0.01	26	250	6	0.02	<2	2	10	<20
ZZ113103		1	0.02	<10	1.30	215	<1	<0.01	49	290	2	0.02	<2	4	10	<20
ZZ113104		<1	0.04	<10	1.38	286	<1	0.01	57	520	3	0.05	<2	2	14	<20
ZZ113105		<1	0.06	<10	1.94	314	<1	<0.01	82	380	5	0.03	<2	5	14	<20
ZZ113106		<1	0.02	<10	1.38	248	<1	0.01	54	250	2	0.01	<2	3	10	<20
ZZ113107		<1	0.03	<10	1.00	205	<1	0.01	40	560	4	0.03	<2	3	12	<20
ZZ113108		1	0.03	<10	1.42	245	1	0.01	57	240	3	0.02	<2	5	12	<20
ZZ113109		<1	0.05	<10	1.42	324	1	0.01	56	500	3	0.03	<2	3	11	<20
ZZ113110		<1	0.05	<10	1.59	488	1	0.01	68	670	4	0.04	2	5	14	<20
ZZ113111		<1	0.06	<10	1.56	285	1	0.01	72	420	5	0.04	<2	4	13	<20
ZZ113112		<1	0.04	10	1.18	264	<1	0.01	47	290	5	0.03	<2	3	10	<20
ZZ113113		<1	0.06	10	1.40	364	1	0.01	63	640	4	0.05	<2	4	14	<20
ZZ113114		<1	0.03	<10	0.87	215	<1	0.01	34	430	3	0.02	<2	2	9	<20
ZZ113115		<1	0.04	<10	1.43	333	<1	0.01	67	330	2	0.02	<2	4	11	<20
ZZ113116		<1	0.04	10	1.32	382	<1	<0.01	60	880	4	0.06	<2	5	12	<20
ZZ113117		<1	0.03	<10	1.14	330	<1	0.01	54	770	3	0.06	<2	2	9	<20
ZZ113118		<1	0.03	<10	1.51	446	<1	0.01	82	790	2	0.05	<2	7	10	<20
ZZ113119		<1	0.03	<10	1.37	220	<1	0.01	59	380	3	0.03	<2	5	11	<20
ZZ113120		1	0.01	<10	1.03	168	<1	<0.01	41	150	2	0.01	<2	2	9	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ti %	ME- ICP41 Ti ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm	Au- ICP21 Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113081		0.04	<10	<10	34	<10	24	<0.001
ZZ113082		0.06	<10	<10	33	<10	20	<0.001
ZZ113083		0.06	<10	<10	37	<10	24	<0.001
ZZ113084		0.03	<10	<10	27	<10	19	<0.001
ZZ113085		0.03	<10	<10	32	<10	40	<0.001
ZZ113086		0.03	<10	<10	28	<10	24	0.003
ZZ113087		0.01	<10	<10	46	<10	24	0.001
ZZ113088		0.06	<10	<10	30	<10	17	<0.001
ZZ113089		0.03	<10	<10	24	<10	17	<0.001
ZZ113090		0.01	<10	<10	48	<10	34	0.001
ZZ113091		0.02	<10	<10	44	<10	29	0.002
ZZ113092		0.01	<10	<10	47	<10	23	<0.001
ZZ113093		0.03	<10	<10	24	<10	17	<0.001
ZZ113094		0.01	<10	<10	38	<10	47	0.001
ZZ113095		0.01	<10	<10	27	<10	93	0.003
ZZ113096		0.02	<10	<10	32	<10	60	0.006
ZZ113097		<0.01	<10	<10	30	<10	113	<0.001
ZZ113098		0.03	<10	<10	17	<10	16	<0.001
ZZ113099		0.03	<10	<10	33	<10	49	<0.001
ZZ113100		0.06	<10	<10	49	<10	132	<0.001
ZZ113101		0.05	<10	<10	52	<10	76	0.001
ZZ113102		0.10	<10	<10	57	<10	28	0.001
ZZ113103		0.04	<10	<10	37	<10	35	0.001
ZZ113104		0.07	<10	<10	53	<10	29	<0.001
ZZ113105		0.07	<10	<10	64	<10	39	0.001
ZZ113106		0.08	<10	<10	41	<10	24	<0.001
ZZ113107		0.05	<10	<10	33	<10	26	<0.001
ZZ113108		0.06	<10	<10	45	<10	29	0.012
ZZ113109		0.05	<10	<10	49	<10	40	<0.001
ZZ113110		0.04	<10	<10	56	<10	36	<0.001
ZZ113111		0.07	<10	<10	53	<10	39	0.001
ZZ113112		0.10	<10	<10	50	<10	38	0.001
ZZ113113		0.05	<10	<10	54	<10	45	0.001
ZZ113114		0.08	<10	<10	40	<10	28	0.001
ZZ113115		0.06	<10	<10	49	<10	33	<0.001
ZZ113116		0.03	<10	<10	48	<10	40	0.001
ZZ113117		0.03	<10	<10	38	<10	30	0.001
ZZ113118		0.02	<10	<10	42	<10	32	0.001
ZZ113119		0.04	<10	<10	42	<10	30	0.003
ZZ113120		0.08	<10	<10	36	<10	18	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113121		0.40	<0.2	1.10	2	<10	30	<0.5	<2	0.19	<0.5	7	86	16	1.41	<10
ZZ113122		0.43	<0.2	1.35	4	<10	30	<0.5	<2	0.22	<0.5	9	100	28	1.62	<10
ZZ113123		0.21	<0.2	1.70	4	<10	30	<0.5	<2	0.22	<0.5	12	151	61	1.72	<10
ZZ113124		0.35	<0.2	0.70	<2	<10	40	<0.5	<2	0.12	<0.5	4	39	15	0.93	<10
ZZ113125		0.24	<0.2	1.96	9	<10	50	<0.5	<2	0.20	<0.5	12	114	40	2.83	10
ZZ113126		0.26	<0.2	1.27	5	<10	40	<0.5	<2	0.11	<0.5	3	45	21	1.69	10
ZZ113127		0.29	<0.2	0.99	6	<10	30	<0.5	<2	0.18	<0.5	9	98	19	1.91	<10
ZZ113128		0.26	<0.2	1.77	5	<10	70	<0.5	<2	0.24	<0.5	13	135	85	1.63	<10
ZZ113129		0.35	<0.2	1.41	4	<10	30	<0.5	<2	0.26	<0.5	11	86	22	1.42	<10
ZZ113130		0.45	<0.2	1.02	3	<10	20	<0.5	<2	0.37	<0.5	14	87	26	1.23	<10
ZZ113131		0.34	<0.2	1.32	2	<10	20	<0.5	<2	0.24	<0.5	13	113	15	1.32	<10
ZZ113132		1.41	<0.2	1.47	7	<10	40	<0.5	<2	0.20	<0.5	13	83	24	1.95	<10
ZZ113133		0.52	<0.2	1.66	20	<10	60	<0.5	<2	0.33	<0.5	14	117	85	2.19	<10
ZZ113134		0.55	0.3	1.45	27	<10	100	<0.5	<2	0.49	0.7	16	94	58	2.09	<10
ZZ113135		0.46	<0.2	1.11	21	<10	40	<0.5	<2	0.28	1.0	16	48	43	2.97	<10
ZZ113136		0.49	<0.2	1.89	21	<10	170	<0.5	<2	0.84	2.2	12	66	46	4.95	<10
ZZ113137		0.38	<0.2	1.21	9	<10	70	<0.5	<2	0.08	<0.5	5	36	24	2.34	10
ZZ113138		0.36	<0.2	0.97	23	<10	50	<0.5	<2	0.07	0.6	7	31	37	3.62	<10
ZZ113139		0.32	1.0	1.08	87	<10	230	<0.5	<2	0.08	0.5	5	43	37	5.23	<10
ZZ113140		0.37	0.2	1.15	22	<10	60	<0.5	<2	0.29	1.1	10	49	30	2.72	<10
ZZ113141		0.37	0.2	0.95	27	<10	70	<0.5	<2	0.27	<0.5	7	43	37	2.46	<10
ZZ113142		0.32	1.3	0.95	41	<10	80	<0.5	<2	0.06	<0.5	7	31	49	4.54	<10
ZZ113143		0.37	0.4	0.83	23	<10	50	<0.5	<2	0.05	1.1	6	25	75	3.85	<10
ZZ113144		0.44	0.8	0.54	58	<10	80	<0.5	<2	0.08	2.7	18	6	50	4.96	<10
ZZ113145		0.43	<0.2	0.69	12	<10	60	<0.5	<2	0.15	<0.5	9	35	17	2.24	<10
ZZ113146		0.34	<0.2	0.84	16	<10	50	<0.5	<2	0.12	<0.5	7	37	29	2.13	<10
ZZ113147		0.30	0.2	0.71	17	<10	110	<0.5	<2	0.43	1.1	14	21	49	5.96	<10
ZZ113148		0.38	<0.2	1.20	5	<10	60	<0.5	<2	0.24	1.3	25	12	63	5.21	<10
ZZ113149		0.33	0.3	1.61	29	<10	110	0.5	<2	0.09	0.7	6	39	20	2.66	10
ZZ113150		0.31	0.3	1.61	44	<10	140	<0.5	<2	0.10	0.5	8	56	19	2.79	10
ZZ113151		0.39	<0.2	1.61	11	<10	70	<0.5	<2	0.25	<0.5	11	79	20	2.73	<10
ZZ113152		0.43	<0.2	1.68	8	<10	50	<0.5	<2	0.26	<0.5	10	90	20	2.22	<10
ZZ113153		0.45	<0.2	1.77	11	<10	120	<0.5	<2	0.38	<0.5	13	79	24	2.60	<10
ZZ113154		0.48	0.2	0.67	10	<10	50	<0.5	<2	0.09	<0.5	5	31	14	1.87	10
ZZ113155		0.48	<0.2	1.64	14	<10	60	<0.5	<2	0.27	0.5	11	88	21	2.67	<10
ZZ113156		0.46	0.4	0.95	12	<10	40	<0.5	<2	0.10	<0.5	5	33	15	2.16	<10
ZZ113157		0.54	0.2	1.97	12	<10	60	<0.5	<2	0.21	<0.5	8	54	23	2.98	<10
ZZ113158		0.45	0.2	1.55	12	<10	60	<0.5	<2	0.14	<0.5	7	44	18	2.42	10
ZZ113159		0.39	<0.2	1.70	17	<10	70	<0.5	<2	0.11	0.5	9	42	34	3.79	<10
ZZ113160		0.42	<0.2	1.08	12	<10	60	<0.5	<2	0.11	<0.5	5	32	13	2.32	10



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Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
ZZ113121		<1	0.02	<10	0.64	153	1	0.01	27	310	3	0.03	<2	1	9	<20
ZZ113122		<1	0.02	<10	0.90	172	1	0.01	35	390	4	0.02	<2	2	9	<20
ZZ113123		<1	0.03	<10	1.30	254	<1	0.01	55	330	3	0.03	<2	2	8	<20
ZZ113124		<1	0.04	<10	0.36	78	<1	0.02	13	320	3	0.01	<2	1	7	<20
ZZ113125		<1	0.06	10	1.05	314	1	0.01	43	620	6	0.05	<2	1	10	<20
ZZ113126		1	0.03	10	0.35	105	1	0.01	13	320	8	0.03	<2	1	8	<20
ZZ113127		<1	0.03	<10	0.69	177	1	0.01	31	320	4	0.04	<2	2	10	<20
ZZ113128		<1	0.03	<10	1.18	368	<1	0.01	48	660	3	0.06	<2	2	12	<20
ZZ113129		1	0.02	<10	0.79	178	<1	0.01	30	310	3	0.03	<2	1	13	<20
ZZ113130		<1	0.02	<10	0.92	178	<1	0.01	34	230	<2	0.01	<2	2	14	<20
ZZ113131		<1	0.01	<10	1.14	137	<1	0.01	39	190	<2	0.02	2	2	11	<20
ZZ113132		<1	0.03	<10	1.05	221	<1	0.01	34	400	2	0.02	<2	1	15	<20
ZZ113133		<1	0.03	10	1.16	265	2	0.01	49	500	6	0.02	2	4	21	<20
ZZ113134		<1	0.04	10	0.97	293	3	0.01	44	750	6	0.04	<2	4	23	<20
ZZ113135		<1	0.04	10	0.67	402	3	0.01	40	860	11	0.02	<2	2	16	<20
ZZ113136		<1	0.07	10	0.62	696	7	0.01	38	3210	13	0.14	2	2	36	<20
ZZ113137		<1	0.08	10	0.29	193	2	<0.01	15	390	9	0.05	<2	1	10	<20
ZZ113138		<1	0.04	10	0.29	381	4	<0.01	28	580	16	0.04	3	1	8	<20
ZZ113139		1	0.11	10	0.27	246	8	0.02	24	1480	23	0.22	14	<1	74	<20
ZZ113140		1	0.04	10	0.51	335	3	0.01	27	730	8	0.04	3	1	19	<20
ZZ113141		<1	0.03	10	0.42	263	4	<0.01	23	670	7	0.03	3	<1	20	<20
ZZ113142		<1	0.04	10	0.20	356	10	<0.01	23	960	20	0.06	5	<1	18	<20
ZZ113143		<1	0.06	10	0.18	160	7	<0.01	49	1150	16	0.04	3	<1	8	<20
ZZ113144		<1	0.08	20	0.07	740	11	<0.01	60	800	26	0.02	<2	1	7	<20
ZZ113145		<1	0.04	10	0.25	435	3	<0.01	17	490	10	0.04	2	1	12	<20
ZZ113146		<1	0.04	10	0.24	155	3	0.01	16	570	10	0.05	2	1	12	<20
ZZ113147		1	0.04	10	0.20	1115	5	<0.01	37	1000	15	0.04	9	4	18	<20
ZZ113148		<1	0.04	20	0.62	1010	3	<0.01	49	1320	14	0.03	3	3	13	<20
ZZ113149		<1	0.07	10	0.42	267	3	0.01	17	580	20	0.07	2	1	14	<20
ZZ113150		<1	0.11	10	0.71	462	3	0.01	28	510	17	0.06	2	2	14	<20
ZZ113151		<1	0.06	10	0.82	306	1	0.01	35	480	7	0.03	<2	2	12	<20
ZZ113152		<1	0.04	10	0.83	208	1	<0.01	33	420	4	0.03	<2	2	11	<20
ZZ113153		1	0.05	10	0.96	351	1	0.01	38	340	6	0.02	2	3	17	<20
ZZ113154		<1	0.03	10	0.16	133	2	<0.01	13	340	7	0.03	<2	1	8	<20
ZZ113155		<1	0.04	10	0.88	285	1	0.01	33	280	5	0.02	<2	3	12	<20
ZZ113156		<1	0.03	10	0.26	144	1	<0.01	14	490	8	0.04	<2	1	8	<20
ZZ113157		1	0.04	10	0.59	278	1	0.01	22	720	6	0.03	<2	3	11	<20
ZZ113158		<1	0.05	10	0.43	289	2	<0.01	17	490	9	0.02	<2	1	10	<20
ZZ113159		<1	0.06	10	0.50	353	2	<0.01	26	760	11	0.02	2	2	9	<20
ZZ113160		1	0.05	10	0.31	350	2	<0.01	14	580	10	0.01	<2	1	10	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti	Ti	U	V	W	Zn	Au
		% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2	ppm 0.001
ZZ113121		0.09	<10	<10	40	<10	22	0.001
ZZ113122		0.07	<10	<10	43	<10	26	<0.001
ZZ113123		0.07	<10	<10	40	<10	28	<0.001
ZZ113124		0.06	<10	<10	23	<10	15	<0.001
ZZ113125		0.06	<10	<10	59	<10	46	0.002
ZZ113126		0.08	<10	<10	52	<10	22	0.001
ZZ113127		0.13	<10	<10	53	<10	30	<0.001
ZZ113128		0.04	<10	<10	35	<10	41	0.001
ZZ113129		0.06	<10	<10	35	<10	22	0.003
ZZ113130		0.09	<10	<10	29	<10	17	<0.001
ZZ113131		0.10	<10	<10	30	<10	20	<0.001
ZZ113132		0.04	<10	<10	37	<10	41	<0.001
ZZ113133		0.04	<10	<10	48	<10	61	0.004
ZZ113134		0.02	<10	<10	38	<10	100	0.001
ZZ113135		0.03	<10	<10	36	<10	162	0.002
ZZ113136		0.02	<10	<10	49	<10	384	0.001
ZZ113137		0.09	<10	<10	83	<10	66	<0.001
ZZ113138		0.04	<10	<10	42	<10	169	0.001
ZZ113139		0.03	<10	<10	69	<10	178	0.009
ZZ113140		0.03	<10	<10	39	<10	141	<0.001
ZZ113141		0.02	<10	<10	43	<10	120	0.001
ZZ113142		0.02	<10	<10	53	<10	216	0.003
ZZ113143		0.01	<10	<10	26	<10	314	0.002
ZZ113144		<0.01	<10	<10	8	<10	359	0.075
ZZ113145		0.05	<10	<10	43	<10	68	<0.001
ZZ113146		0.07	<10	<10	57	<10	52	<0.001
ZZ113147		0.01	<10	<10	32	<10	140	<0.001
ZZ113148		0.01	<10	<10	16	<10	182	<0.001
ZZ113149		0.05	<10	<10	60	<10	77	0.002
ZZ113150		0.08	<10	<10	69	<10	90	<0.001
ZZ113151		0.07	<10	<10	62	<10	61	<0.001
ZZ113152		0.06	<10	<10	50	<10	37	<0.001
ZZ113153		0.09	<10	<10	62	<10	52	0.001
ZZ113154		0.09	<10	<10	71	<10	37	0.003
ZZ113155		0.10	<10	<10	64	<10	53	<0.001
ZZ113156		0.06	<10	<10	52	<10	45	0.001
ZZ113157		0.05	<10	<10	60	<10	59	<0.001
ZZ113158		0.05	<10	<10	62	<10	61	0.001
ZZ113159		0.02	<10	<10	62	<10	149	0.001
ZZ113160		0.07	<10	<10	56	<10	52	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113161		0.43	0.2	1.56	14	<10	60	<0.5	<2	0.13	<0.5	6	42	23	2.69	<10
ZZ113162		0.47	<0.2	1.02	18	<10	50	<0.5	<2	0.13	<0.5	6	39	13	2.38	10
ZZ113163		0.44	0.2	1.31	17	<10	70	<0.5	<2	0.11	<0.5	7	37	16	2.62	10
ZZ113164		0.35	0.4	0.87	7	<10	150	<0.5	<2	0.14	0.5	3	23	9	1.13	<10
ZZ113165		0.54	0.2	1.12	7	<10	40	<0.5	<2	0.10	<0.5	2	30	8	1.46	<10
ZZ113166		0.48	<0.2	1.27	7	<10	40	<0.5	<2	0.14	<0.5	7	44	20	2.36	<10
ZZ113167		0.48	0.2	1.22	11	<10	80	<0.5	<2	0.14	<0.5	5	36	18	1.89	<10
ZZ113168		0.43	0.2	1.29	35	<10	60	<0.5	<2	0.11	0.5	5	37	14	2.28	<10
ZZ113169		0.46	0.5	0.75	96	<10	60	<0.5	<2	0.12	<0.5	3	24	12	1.51	<10
ZZ113170		0.48	0.3	0.84	50	<10	50	<0.5	<2	0.11	<0.5	3	23	6	1.13	10
ZZ113171		0.51	<0.2	1.01	40	<10	60	<0.5	<2	0.13	<0.5	6	34	11	2.36	<10
ZZ113172		0.44	0.3	1.54	89	<10	100	<0.5	<2	0.12	<0.5	6	40	17	2.51	<10
ZZ113173		0.33	0.5	1.10	162	<10	90	<0.5	<2	0.06	<0.5	3	24	17	2.26	10
ZZ113174		0.49	0.3	1.76	138	<10	90	<0.5	<2	0.11	0.8	6	45	24	3.04	<10
ZZ113175		0.43	<0.2	1.23	47	<10	60	<0.5	<2	0.12	<0.5	5	37	17	2.15	10
ZZ113176		0.50	0.6	1.31	135	<10	80	<0.5	<2	0.12	0.7	5	39	24	2.31	<10
ZZ113177		0.48	0.2	1.57	72	<10	70	<0.5	2	0.11	<0.5	7	52	28	3.80	10
ZZ113178		0.39	0.3	1.18	22	<10	50	<0.5	<2	0.09	<0.5	5	36	16	3.24	10
ZZ113179		0.40	0.2	0.85	18	<10	40	<0.5	<2	0.09	<0.5	2	21	7	1.35	10
ZZ113180		0.48	<0.2	1.60	18	<10	70	<0.5	<2	0.19	<0.5	8	50	25	2.66	<10
ZZ113181		0.56	<0.2	1.22	18	<10	80	<0.5	<2	0.17	<0.5	6	39	22	2.02	<10
ZZ113182		0.37	<0.2	0.76	16	<10	50	<0.5	<2	0.10	<0.5	4	26	15	1.42	<10
ZZ113183		0.55	<0.2	1.13	19	<10	70	<0.5	<2	0.18	<0.5	6	41	25	2.10	<10
ZZ113184		0.45	0.2	1.89	24	<10	90	<0.5	<2	0.16	0.9	12	56	31	3.62	10
ZZ113185		0.47	<0.2	1.02	36	<10	80	<0.5	<2	0.25	<0.5	17	34	55	3.52	10
ZZ113186		0.03	0.2	1.46	80	<10	210	<0.5	<2	0.70	<0.5	54	76	196	10.90	10
ZZ113187		0.39	0.2	1.66	167	<10	250	0.5	<2	0.84	<0.5	31	52	143	6.15	10
ZZ113188		0.34	<0.2	1.09	20	<10	130	<0.5	<2	0.32	<0.5	10	31	33	2.36	<10
ZZ113189		0.50	<0.2	1.54	10	<10	90	<0.5	<2	0.22	<0.5	14	60	39	2.63	<10
ZZ113190		0.48	<0.2	1.60	4	<10	100	<0.5	<2	0.23	<0.5	14	95	37	2.33	<10
ZZ113191		0.49	<0.2	1.56	15	<10	150	<0.5	<2	0.39	<0.5	16	122	58	2.58	<10
ZZ113192		0.38	0.3	1.58	11	<10	110	<0.5	<2	0.23	<0.5	14	103	39	2.38	<10
ZZ113193		0.51	<0.2	1.62	7	<10	70	<0.5	<2	0.38	<0.5	20	151	68	2.41	<10
ZZ113194		0.55	<0.2	1.50	5	<10	40	<0.5	<2	0.25	<0.5	16	169	48	2.05	<10
ZZ113195		0.40	<0.2	1.89	2	<10	50	<0.5	<2	0.37	<0.5	24	244	242	2.45	<10
ZZ113196		0.45	<0.2	1.62	4	<10	40	<0.5	<2	0.21	<0.5	16	161	65	2.19	<10
ZZ113197		0.48	<0.2	1.56	4	<10	30	<0.5	<2	0.18	<0.5	11	100	57	2.02	<10
ZZ113198		0.45	<0.2	1.43	3	<10	20	<0.5	<2	0.20	<0.5	12	196	28	1.89	<10
ZZ113199		0.53	<0.2	1.55	3	<10	40	<0.5	<2	0.33	<0.5	20	205	209	1.91	<10
ZZ113200		0.52	<0.2	1.61	3	<10	30	<0.5	<2	0.29	<0.5	22	200	86	1.81	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
ZZ113161		<1	0.05	10	0.53	235	2	<0.01	20	610	10	0.02	<2	1	8	<20
ZZ113162		1	0.05	10	0.41	249	2	0.01	18	480	10	0.01	<2	1	10	<20
ZZ113163		1	0.06	10	0.39	436	3	<0.01	19	650	12	0.02	2	<1	10	<20
ZZ113164		1	0.04	10	0.17	151	2	<0.01	9	770	7	0.03	<2	<1	14	<20
ZZ113165		1	0.03	10	0.25	95	1	<0.01	10	350	9	0.01	<2	1	8	<20
ZZ113166		<1	0.04	10	0.50	236	2	0.01	20	700	8	0.02	2	1	9	<20
ZZ113167		<1	0.05	10	0.38	177	1	<0.01	20	550	8	0.01	2	1	9	<20
ZZ113168		<1	0.05	10	0.37	166	1	<0.01	18	400	8	0.02	<2	1	9	<20
ZZ113169		<1	0.05	10	0.26	148	2	<0.01	15	620	38	0.02	<2	<1	9	<20
ZZ113170		1	0.04	10	0.23	200	2	<0.01	10	230	17	0.01	<2	1	9	<20
ZZ113171		<1	0.05	20	0.39	218	2	0.01	20	320	12	0.01	2	2	10	<20
ZZ113172		<1	0.05	10	0.45	177	2	<0.01	23	240	22	0.02	3	3	10	<20
ZZ113173		1	0.04	10	0.20	101	3	0.01	13	440	73	0.04	10	2	10	<20
ZZ113174		<1	0.05	10	0.50	189	2	0.01	27	390	47	0.03	5	3	11	<20
ZZ113175		<1	0.03	10	0.38	147	1	<0.01	18	440	28	0.01	2	2	9	<20
ZZ113176		1	0.05	10	0.42	147	2	0.01	24	490	76	0.03	6	3	12	<20
ZZ113177		<1	0.05	10	0.58	213	2	0.01	22	720	40	0.04	3	3	12	<20
ZZ113178		1	0.04	10	0.37	199	2	<0.01	16	760	18	0.02	<2	2	9	<20
ZZ113179		1	0.03	10	0.18	121	2	<0.01	9	370	24	0.01	<2	1	9	<20
ZZ113180		<1	0.05	10	0.67	217	1	0.01	26	670	12	0.01	3	3	12	<20
ZZ113181		1	0.05	10	0.46	152	1	<0.01	21	620	14	0.02	<2	2	12	<20
ZZ113182		1	0.04	10	0.27	101	2	<0.01	13	450	11	0.01	2	1	9	<20
ZZ113183		<1	0.05	10	0.58	175	3	0.01	27	360	18	<0.01	<2	2	12	<20
ZZ113184		<1	0.05	10	0.70	486	2	0.01	33	580	21	<0.01	<2	3	12	<20
ZZ113185		<1	0.04	<10	0.57	326	<1	0.03	29	410	2	0.03	<2	7	15	<20
ZZ113186		<1	0.06	<10	1.77	820	<1	0.02	96	490	2	0.02	6	23	18	<20
ZZ113187		<1	0.09	<10	1.11	805	<1	0.02	54	1080	3	0.03	6	23	24	<20
ZZ113188		<1	0.05	<10	0.47	379	1	0.01	18	920	3	0.03	<2	3	14	<20
ZZ113189		<1	0.05	10	0.81	459	1	0.01	34	670	5	0.01	<2	2	12	<20
ZZ113190		<1	0.04	10	1.15	496	1	<0.01	41	510	5	0.01	2	2	11	<20
ZZ113191		<1	0.05	<10	1.23	390	1	0.01	52	450	2	0.01	<2	5	14	<20
ZZ113192		<1	0.04	<10	1.08	434	1	0.01	38	600	4	0.01	<2	2	10	<20
ZZ113193		<1	0.04	<10	1.61	415	<1	0.01	59	430	2	<0.01	<2	5	14	<20
ZZ113194		<1	0.03	<10	1.34	317	1	<0.01	61	410	2	0.01	<2	3	10	<20
ZZ113195		<1	0.03	<10	2.25	360	<1	0.01	117	340	2	<0.01	<2	4	12	<20
ZZ113196		<1	0.03	<10	1.36	297	<1	<0.01	60	320	2	<0.01	<2	2	10	<20
ZZ113197		<1	0.03	<10	0.82	158	1	<0.01	39	310	2	0.01	<2	2	10	<20
ZZ113198		<1	0.02	<10	1.26	164	<1	<0.01	61	190	<2	<0.01	<2	2	9	<20
ZZ113199		<1	0.03	<10	1.65	241	<1	<0.01	82	250	<2	<0.01	<2	3	12	<20
ZZ113200		<1	0.02	<10	1.51	247	<1	<0.01	76	330	<2	<0.01	<2	2	10	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ti %	ME- ICP41 Ti ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm	Au- ICP21 Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113161		0.02	<10	<10	53	<10	61	<0.001
ZZ113162		0.04	<10	<10	62	<10	63	<0.001
ZZ113163		0.02	<10	<10	65	<10	73	<0.001
ZZ113164		0.02	<10	<10	37	<10	38	<0.001
ZZ113165		0.04	<10	<10	43	<10	33	<0.001
ZZ113166		0.04	<10	<10	54	<10	49	<0.001
ZZ113167		0.02	<10	<10	41	<10	55	0.001
ZZ113168		0.04	<10	<10	45	<10	67	<0.001
ZZ113169		0.01	<10	<10	30	<10	73	<0.001
ZZ113170		0.06	<10	<10	44	<10	38	<0.001
ZZ113171		0.04	<10	<10	44	<10	78	0.004
ZZ113172		0.04	<10	<10	57	<10	89	0.001
ZZ113173		0.03	<10	<10	69	<10	62	<0.001
ZZ113174		0.03	<10	<10	69	<10	117	<0.001
ZZ113175		0.06	<10	<10	57	<10	59	<0.001
ZZ113176		0.04	<10	<10	55	<10	108	0.001
ZZ113177		0.07	<10	<10	98	<10	84	<0.001
ZZ113178		0.12	<10	<10	100	<10	72	<0.001
ZZ113179		0.11	<10	<10	61	<10	31	<0.001
ZZ113180		0.08	<10	<10	59	<10	70	<0.001
ZZ113181		0.05	<10	<10	53	<10	60	<0.001
ZZ113182		0.06	<10	<10	47	<10	42	<0.001
ZZ113183		0.07	<10	<10	54	<10	69	<0.001
ZZ113184		0.07	<10	<10	72	<10	109	<0.001
ZZ113185		0.05	<10	<10	149	<10	40	0.006
ZZ113186		0.09	<10	<10	530	<10	72	0.010
ZZ113187		0.03	<10	<10	183	<10	63	0.035
ZZ113188		0.03	<10	<10	59	<10	29	0.002
ZZ113189		0.05	<10	<10	62	<10	46	<0.001
ZZ113190		0.05	<10	<10	49	<10	39	<0.001
ZZ113191		0.03	<10	<10	52	<10	37	<0.001
ZZ113192		0.02	<10	<10	52	<10	46	0.001
ZZ113193		0.09	<10	<10	51	<10	38	<0.001
ZZ113194		0.06	<10	<10	47	<10	26	<0.001
ZZ113195		0.08	<10	<10	42	<10	32	<0.001
ZZ113196		0.08	<10	<10	44	<10	32	<0.001
ZZ113197		0.06	<10	<10	40	<10	26	<0.001
ZZ113198		0.12	<10	<10	43	<10	22	<0.001
ZZ113199		0.07	<10	<10	32	<10	27	0.002
ZZ113200		0.08	<10	<10	32	<10	24	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113201		0.42	<0.2	1.67	4	<10	60	<0.5	<2	0.20	<0.5	12	139	107	1.87	<10
ZZ113202		0.43	<0.2	1.18	6	<10	20	<0.5	<2	0.17	<0.5	10	90	29	2.34	10
ZZ113203		0.57	<0.2	1.31	2	<10	20	<0.5	<2	0.21	<0.5	10	136	48	1.57	<10
ZZ113204		0.48	<0.2	1.91	3	<10	50	<0.5	<2	0.31	<0.5	21	200	190	2.20	<10
ZZ113205		0.46	<0.2	1.83	4	<10	40	<0.5	<2	0.28	<0.5	20	183	105	2.18	<10
ZZ113206		0.69	<0.2	1.54	3	<10	40	<0.5	<2	0.32	<0.5	17	140	78	1.99	<10
ZZ113207		0.49	<0.2	1.38	3	<10	20	<0.5	<2	0.32	<0.5	18	120	63	2.01	<10
ZZ113208		0.48	<0.2	1.54	4	<10	30	<0.5	<2	0.24	<0.5	14	147	43	2.41	10
ZZ113209		0.40	<0.2	0.71	2	<10	20	<0.5	<2	0.15	<0.5	6	63	12	1.58	10
ZZ113210		0.41	<0.2	1.22	4	<10	40	<0.5	<2	0.11	<0.5	6	47	24	1.94	10
ZZ113211		0.33	<0.2	1.01	2	<10	20	<0.5	<2	0.15	<0.5	9	77	53	1.60	<10
ZZ113212		0.42	<0.2	1.76	5	<10	30	<0.5	<2	0.26	<0.5	15	116	40	2.45	<10
ZZ113213		0.42	<0.2	1.81	3	<10	30	<0.5	<2	0.19	<0.5	13	119	38	2.52	10
ZZ113214		0.44	<0.2	1.54	5	<10	30	<0.5	<2	0.16	<0.5	10	99	33	2.35	<10
ZZ113215		0.41	<0.2	1.60	3	<10	30	<0.5	<2	0.17	<0.5	13	145	32	2.46	10
ZZ113216		0.50	<0.2	2.81	6	<10	90	<0.5	<2	0.35	<0.5	26	267	112	3.57	10
ZZ113217		0.37	<0.2	1.98	3	<10	90	<0.5	<2	0.38	<0.5	18	203	92	1.99	<10
ZZ113218		0.53	<0.2	2.51	4	<10	30	<0.5	<2	0.31	<0.5	20	247	68	3.27	10
ZZ113219		0.48	<0.2	1.63	5	<10	40	<0.5	<2	0.32	<0.5	13	135	58	2.21	<10
ZZ113220		0.40	<0.2	1.46	3	<10	30	<0.5	<2	0.26	<0.5	15	148	69	1.92	<10
ZZ113221		0.30	<0.2	1.47	2	<10	30	<0.5	<2	0.25	<0.5	15	140	65	1.86	<10
ZZ113222		0.53	<0.2	1.49	6	<10	30	<0.5	<2	0.25	<0.5	16	117	46	2.37	<10
ZZ113223		0.40	<0.2	1.22	6	<10	50	<0.5	<2	0.23	<0.5	9	87	36	2.30	10
ZZ113224		0.43	<0.2	1.39	4	<10	40	<0.5	<2	0.23	<0.5	12	100	47	2.30	<10
ZZ113225		0.38	<0.2	1.31	4	<10	20	<0.5	<2	0.27	<0.5	17	93	97	1.91	<10
ZZ113226		0.45	<0.2	1.46	5	<10	30	<0.5	<2	0.34	<0.5	23	110	122	2.60	<10
ZZ113227		0.55	<0.2	1.92	5	<10	30	<0.5	<2	0.29	<0.5	24	163	138	2.69	<10
ZZ113228		0.48	<0.2	1.42	3	<10	40	<0.5	<2	0.20	<0.5	10	103	33	2.28	10
ZZ113229		0.44	<0.2	1.76	4	<10	50	<0.5	<2	0.24	<0.5	17	137	68	2.41	<10
ZZ113230		0.38	<0.2	1.26	4	<10	50	<0.5	<2	0.14	<0.5	14	116	36	1.99	<10
ZZ113231		0.64	<0.2	1.56	2	<10	20	<0.5	<2	0.30	<0.5	15	115	65	2.01	<10
ZZ113232		0.47	<0.2	1.67	3	<10	30	<0.5	<2	0.18	<0.5	14	145	52	2.55	<10
ZZ113233		0.45	<0.2	1.67	4	<10	40	<0.5	<2	0.16	<0.5	7	59	52	2.29	10
ZZ113234		0.41	<0.2	0.98	4	<10	40	<0.5	<2	0.11	<0.5	8	74	44	1.67	<10
ZZ113235		0.48	<0.2	1.80	3	<10	20	<0.5	<2	0.27	<0.5	14	87	82	3.35	10
ZZ113236		0.51	<0.2	1.32	3	<10	30	<0.5	<2	0.22	<0.5	9	77	51	1.82	<10
ZZ113237		0.42	<0.2	1.15	4	<10	20	<0.5	<2	0.15	<0.5	11	101	36	2.21	<10
ZZ113238		0.41	<0.2	1.04	4	<10	40	<0.5	<2	0.10	<0.5	5	49	16	1.97	10
ZZ113239		0.40	<0.2	1.52	4	<10	30	<0.5	<2	0.16	<0.5	14	160	40	2.22	<10
ZZ113240		0.46	<0.2	1.65	5	<10	20	<0.5	<2	0.18	<0.5	20	148	53	2.23	<10



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CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1	ME- ICP41 Th ppm 20
ZZ113201		<1	0.03	10	1.06	204	1	0.01	48	470	4	0.02	<2	2	11	<20
ZZ113202		<1	0.02	<10	0.59	139	1	<0.01	28	280	3	<0.01	<2	2	9	<20
ZZ113203		<1	0.02	<10	0.97	162	<1	<0.01	43	290	2	<0.01	<2	2	9	<20
ZZ113204		<1	0.03	<10	1.76	392	<1	0.01	80	470	3	<0.01	<2	4	13	<20
ZZ113205		<1	0.03	<10	1.67	377	<1	0.01	68	370	2	<0.01	<2	4	11	<20
ZZ113206		<1	0.03	<10	1.37	338	<1	<0.01	57	400	2	<0.01	<2	4	11	<20
ZZ113207		<1	0.01	<10	1.30	299	<1	<0.01	46	270	2	<0.01	<2	3	10	<20
ZZ113208		<1	0.02	<10	1.18	232	1	<0.01	45	240	3	<0.01	<2	3	10	<20
ZZ113209		<1	0.02	<10	0.45	97	1	<0.01	18	180	3	<0.01	<2	2	7	<20
ZZ113210		<1	0.02	10	0.37	129	<1	<0.01	15	430	4	0.02	<2	1	8	<20
ZZ113211		<1	0.02	<10	0.76	168	<1	0.01	27	320	2	0.01	<2	1	8	<20
ZZ113212		<1	0.02	<10	1.19	282	<1	0.01	45	190	3	<0.01	<2	3	11	<20
ZZ113213		<1	0.03	<10	1.02	297	1	<0.01	39	390	4	0.02	<2	2	9	<20
ZZ113214		<1	0.02	<10	0.79	190	1	0.01	32	310	6	0.01	<2	2	9	<20
ZZ113215		<1	0.02	<10	1.09	423	1	<0.01	43	280	2	0.01	<2	2	9	<20
ZZ113216		<1	0.05	<10	2.48	410	1	0.01	99	230	2	<0.01	<2	6	15	<20
ZZ113217		<1	0.03	<10	1.62	315	1	0.01	75	480	2	0.02	<2	3	13	<20
ZZ113218		<1	0.02	<10	2.26	299	<1	0.01	81	260	<2	0.01	<2	4	12	<20
ZZ113219		<1	0.02	<10	1.22	247	<1	0.01	44	320	2	0.01	<2	2	11	<20
ZZ113220		<1	0.02	<10	1.28	306	<1	<0.01	48	440	<2	0.01	<2	2	10	<20
ZZ113221		<1	0.02	<10	1.19	281	<1	0.01	46	520	3	0.02	<2	1	10	<20
ZZ113222		<1	0.02	<10	1.22	307	<1	<0.01	45	310	2	0.01	<2	2	11	<20
ZZ113223		<1	0.02	<10	0.65	161	1	<0.01	28	360	5	0.02	<2	2	11	<20
ZZ113224		<1	0.02	10	1.09	216	<1	<0.01	37	380	2	<0.01	<2	3	10	<20
ZZ113225		<1	0.02	<10	1.04	330	<1	<0.01	43	440	2	<0.01	<2	3	11	<20
ZZ113226		<1	0.02	<10	1.38	414	<1	<0.01	49	420	3	<0.01	<2	4	12	<20
ZZ113227		<1	0.03	<10	1.74	495	<1	<0.01	63	430	2	<0.01	<2	5	11	<20
ZZ113228		<1	0.03	<10	0.90	225	1	<0.01	37	230	5	<0.01	<2	2	10	<20
ZZ113229		<1	0.03	<10	1.22	424	1	<0.01	50	390	2	0.01	<2	2	11	<20
ZZ113230		<1	0.03	<10	0.85	697	<1	<0.01	38	750	3	0.04	<2	1	9	<20
ZZ113231		<1	0.02	<10	1.22	291	<1	0.01	46	390	2	<0.01	<2	2	12	<20
ZZ113232		<1	0.02	<10	1.23	309	<1	<0.01	49	330	3	<0.01	<2	2	9	<20
ZZ113233		<1	0.03	10	0.45	191	1	<0.01	19	460	4	0.03	<2	1	10	<20
ZZ113234		<1	0.03	<10	0.58	255	1	0.01	21	430	3	0.03	<2	1	7	<20
ZZ113235		<1	0.01	<10	0.99	352	1	<0.01	32	410	2	0.01	<2	2	10	<20
ZZ113236		<1	0.02	<10	0.84	177	<1	0.01	29	480	3	<0.01	<2	2	10	<20
ZZ113237		<1	0.02	<10	0.78	173	<1	<0.01	32	410	2	0.03	<2	1	8	<20
ZZ113238		<1	0.02	10	0.35	112	<1	0.01	15	260	5	<0.01	<2	1	8	<20
ZZ113239		<1	0.02	<10	1.06	266	1	<0.01	48	430	3	0.03	<2	1	9	<20
ZZ113240		<1	0.02	<10	1.40	298	1	0.01	63	270	2	0.01	<2	2	9	<20



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Project: ROSY

CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	ME- ICP41 Ti %	ME- ICP41 Ti ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm	Au- ICP21 Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113201		0.05	<10	<10	40	<10	28	0.001
ZZ113202		0.13	<10	<10	59	<10	23	<0.001
ZZ113203		0.09	<10	<10	38	<10	21	<0.001
ZZ113204		0.07	<10	<10	45	<10	37	<0.001
ZZ113205		0.09	<10	<10	46	<10	33	<0.001
ZZ113206		0.11	<10	<10	43	<10	28	<0.001
ZZ113207		0.09	<10	<10	50	<10	24	<0.001
ZZ113208		0.16	<10	<10	61	<10	26	<0.001
ZZ113209		0.19	<10	<10	61	<10	16	0.001
ZZ113210		0.07	<10	<10	46	<10	23	<0.001
ZZ113211		0.08	<10	<10	36	<10	20	<0.001
ZZ113212		0.13	<10	<10	54	<10	31	<0.001
ZZ113213		0.14	<10	<10	63	<10	36	<0.001
ZZ113214		0.13	<10	<10	60	<10	29	0.001
ZZ113215		0.21	<10	<10	73	<10	32	<0.001
ZZ113216		0.14	<10	<10	75	<10	48	<0.001
ZZ113217		0.05	<10	<10	38	<10	40	<0.001
ZZ113218		0.13	<10	<10	63	<10	34	<0.001
ZZ113219		0.08	<10	<10	51	<10	28	<0.001
ZZ113220		0.07	<10	<10	44	<10	29	<0.001
ZZ113221		0.05	<10	<10	42	<10	25	<0.001
ZZ113222		0.11	<10	<10	54	<10	27	<0.001
ZZ113223		0.12	<10	<10	64	<10	26	<0.001
ZZ113224		0.12	<10	<10	57	<10	25	0.004
ZZ113225		0.08	<10	<10	41	<10	30	0.006
ZZ113226		0.11	<10	<10	58	<10	30	<0.001
ZZ113227		0.08	<10	<10	62	<10	39	<0.001
ZZ113228		0.16	<10	<10	58	<10	27	<0.001
ZZ113229		0.08	<10	<10	51	<10	33	0.002
ZZ113230		0.04	<10	<10	45	<10	35	0.004
ZZ113231		0.10	<10	<10	42	<10	27	0.002
ZZ113232		0.11	<10	<10	55	<10	34	<0.001
ZZ113233		0.13	<10	<10	54	<10	30	<0.001
ZZ113234		0.12	<10	<10	43	<10	23	0.001
ZZ113235		0.36	<10	<10	86	<10	30	<0.001
ZZ113236		0.11	<10	<10	40	<10	25	<0.001
ZZ113237		0.16	<10	<10	54	<10	25	<0.001
ZZ113238		0.14	<10	<10	61	<10	20	<0.001
ZZ113239		0.12	<10	<10	49	<10	27	0.001
ZZ113240		0.08	<10	<10	39	<10	29	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01	ME- ICP41 Ga ppm 10
ZZ113241		0.42	<0.2	1.00	3	<10	40	<0.5	<2	0.17	<0.5	8	79	24	1.78	<10
ZZ113242		0.42	<0.2	1.77	5	<10	20	<0.5	<2	0.18	<0.5	15	193	42	2.50	10
ZZ113243		0.50	<0.2	2.12	3	<10	30	<0.5	<2	0.48	<0.5	35	283	418	2.42	<10
ZZ113244		0.35	<0.2	0.71	2	<10	30	<0.5	<2	0.09	<0.5	3	43	10	1.17	10
ZZ113245		0.44	0.2	1.36	3	<10	20	<0.5	<2	0.19	<0.5	13	131	40	2.11	<10
ZZ113246		0.45	<0.2	1.46	6	<10	30	<0.5	<2	0.14	<0.5	14	255	43	2.64	10
ZZ113247		0.35	<0.2	1.53	2	<10	90	<0.5	<2	0.49	<0.5	9	88	90	2.24	10
ZZ113248		0.46	<0.2	1.99	3	<10	140	<0.5	<2	0.31	<0.5	7	49	59	2.93	10
ZZ113249		0.46	<0.2	1.48	4	<10	70	<0.5	<2	0.19	<0.5	10	45	21	2.43	<10
ZZ113250		0.43	<0.2	1.72	6	<10	160	<0.5	<2	0.37	<0.5	9	56	52	2.66	10



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CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ113241		<1	0.02	<10	0.60	148	<1	<0.01	29	320	4	<0.01	<2	1	9
ZZ113242		<1	0.02	<10	1.40	199	<1	<0.01	73	200	3	<0.01	<2	2	9
ZZ113243		<1	0.02	<10	2.40	300	1	<0.01	210	510	<2	0.01	2	4	11
ZZ113244		<1	0.02	<10	0.24	68	1	<0.01	11	270	6	<0.01	<2	1	7
ZZ113245		<1	0.02	<10	1.01	233	1	<0.01	42	440	2	0.01	<2	1	9
ZZ113246		<1	0.02	<10	1.20	211	1	0.01	54	260	2	0.01	<2	2	7
ZZ113247		<1	0.05	<10	1.00	284	1	0.01	31	830	4	0.04	<2	2	13
ZZ113248		<1	0.06	10	1.27	214	<1	0.01	17	780	9	0.03	<2	2	13
ZZ113249		<1	0.05	10	0.69	419	1	0.01	22	470	6	0.01	<2	1	12
ZZ113250		<1	0.06	10	0.87	263	1	0.01	26	760	5	0.03	<2	3	18



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CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	ME- ICP41 Ti %	ME- ICP41 Ti ppm	ME- ICP41 U ppm	ME- ICP41 V ppm	ME- ICP41 W ppm	ME- ICP41 Zn ppm	Au- ICP21 Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113241		0.10	<10	<10	49	<10	26	<0.001
ZZ113242		0.13	<10	<10	52	<10	27	<0.001
ZZ113243		0.04	<10	<10	31	<10	37	<0.001
ZZ113244		0.13	<10	<10	52	<10	13	<0.001
ZZ113245		0.07	<10	<10	40	<10	25	<0.001
ZZ113246		0.15	<10	<10	60	<10	26	<0.001
ZZ113247		0.04	<10	<10	46	<10	49	0.058
ZZ113248		0.05	<10	<10	60	<10	63	0.001
ZZ113249		0.06	<10	<10	58	<10	43	<0.001
ZZ113250		0.05	<10	<10	56	<10	49	<0.001



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CERTIFICATE OF ANALYSIS WH17127290

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP21 ME- ICP41



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CERTIFICATE WH17127294

Project: Rosy

This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE

JULIA LANE

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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

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

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Finalized Date: 30- JUL- 2017
Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113251		0.37	<0.001	0.07	0.51	3.3	<0.02	<10	60	0.23	0.22	0.11	0.37	51.6	5.1	12
ZZ113252		0.27	<0.001	0.07	0.72	3.9	<0.02	<10	70	0.13	0.24	0.06	0.18	26.3	3.4	21
ZZ113253		0.35	<0.001	0.14	0.82	16.5	<0.02	<10	100	0.22	0.18	0.13	1.12	36.8	9.2	26
ZZ113254		0.26	<0.001	0.03	0.37	2.2	<0.02	<10	30	0.07	0.08	0.04	0.17	8.20	2.4	7
ZZ113255		0.39	0.002	0.10	1.33	11.5	<0.02	<10	80	0.36	1.02	0.12	1.06	32.6	12.4	44
ZZ113256		0.40	0.037	0.12	1.27	84.6	0.02	<10	110	0.24	0.09	0.48	0.12	10.55	32.9	75
ZZ113257		0.31	0.012	0.18	1.76	65.9	<0.02	<10	260	0.49	0.06	1.15	0.16	10.35	28.6	74
ZZ113258		0.32	0.002	0.06	1.38	13.8	<0.02	<10	160	0.30	0.16	0.40	0.09	9.30	8.3	47
ZZ113259		0.42	0.001	0.08	1.82	14.9	<0.02	<10	140	0.46	0.10	0.32	0.14	14.30	20.0	121
ZZ113260		0.41	0.002	0.08	1.80	19.6	<0.02	<10	190	0.42	0.08	0.32	0.13	9.97	18.3	138
ZZ113261		0.28	<0.001	0.05	1.35	11.7	<0.02	<10	50	0.14	0.13	0.15	0.16	9.34	10.2	75
ZZ113262		0.59	0.002	0.03	2.08	6.7	<0.02	<10	130	0.24	0.15	0.43	0.15	9.91	23.1	234
ZZ113263		0.41	<0.001	0.06	2.06	4.7	<0.02	<10	130	0.29	0.21	0.38	0.14	7.65	19.0	185
ZZ113264		0.45	<0.001	0.04	1.98	2.1	<0.02	<10	70	0.19	0.12	0.24	0.11	6.78	18.7	214
ZZ113265		0.36	<0.001	0.06	0.89	1.6	<0.02	<10	60	0.09	0.08	0.09	0.06	2.85	8.1	75
ZZ113266		0.24	<0.001	0.10	1.27	1.6	<0.02	<10	110	0.20	0.11	0.26	0.12	10.05	9.0	66
ZZ113267		0.39	<0.001	0.02	1.35	3.0	<0.02	<10	30	0.12	0.14	0.19	0.14	6.35	13.9	120
ZZ113268		0.63	<0.001	0.03	1.10	2.2	<0.02	<10	20	0.09	0.08	0.30	0.06	3.20	14.3	135
ZZ113269		0.54	0.001	0.02	1.64	2.5	<0.02	<10	30	0.10	0.11	0.27	0.08	4.58	14.5	221
ZZ113270		0.38	<0.001	0.05	1.53	2.3	<0.02	<10	40	0.11	0.10	0.20	0.09	4.91	14.7	170
ZZ113271		0.33	<0.001	0.05	1.52	3.4	<0.02	<10	30	0.08	0.16	0.24	0.09	4.89	12.7	188
ZZ113272		0.20	<0.001	0.09	0.59	0.8	<0.02	<10	10	<0.05	0.05	0.08	0.03	1.80	4.2	54
ZZ113273		0.35	<0.001	0.05	1.41	1.8	<0.02	<10	30	0.11	0.06	0.22	0.05	5.91	8.3	149
ZZ113274		0.32	<0.001	0.05	1.25	1.7	<0.02	<10	40	0.14	0.08	0.17	0.05	7.11	7.1	105
ZZ113275		0.38	<0.001	0.05	1.91	2.9	<0.02	<10	30	0.13	0.07	0.31	0.09	4.89	16.6	210
ZZ113276		0.26	0.001	0.03	1.65	3.4	<0.02	<10	30	0.17	0.08	0.26	0.16	6.37	13.4	145
ZZ113277		0.31	<0.001	0.04	0.77	3.2	<0.02	<10	50	0.18	0.14	0.15	0.06	7.52	6.5	36
ZZ113278		0.39	<0.001	0.05	1.40	4.1	<0.02	<10	40	0.12	0.18	0.21	0.08	9.47	8.2	102
ZZ113279		0.34	0.001	0.05	1.32	2.8	<0.02	<10	50	0.17	0.18	0.15	0.07	12.10	5.6	62
ZZ113280		0.21	<0.001	0.03	0.47	0.6	<0.02	<10	20	0.08	0.04	0.08	0.02	3.78	1.7	6
ZZ113281		0.63	<0.001	0.02	1.95	3.7	<0.02	<10	40	0.27	0.15	0.31	0.09	12.25	15.9	136
ZZ113282		0.22	<0.001	0.05	0.76	2.1	<0.02	<10	30	0.09	0.17	0.09	0.08	8.48	3.9	42
ZZ113283		0.59	0.001	0.03	1.96	5.0	<0.02	<10	40	0.21	0.20	0.25	0.12	14.00	13.5	126
ZZ113284		0.59	0.001	0.05	1.95	6.2	<0.02	<10	70	0.29	0.16	0.54	0.08	15.25	20.1	168
ZZ113285		0.77	<0.001	0.04	2.07	4.0	<0.02	<10	50	0.13	0.07	0.57	0.10	5.01	22.5	187
ZZ113286		0.93	0.004	0.11	2.10	18.1	<0.02	<10	250	0.54	0.06	0.84	0.17	14.10	29.0	98
ZZ113287		0.59	0.002	0.06	2.03	17.7	<0.02	<10	270	0.73	0.12	0.52	0.11	17.95	20.0	76
ZZ113288		0.60	<0.001	0.06	0.94	4.8	<0.02	<10	110	0.24	0.06	0.30	0.06	5.61	6.1	32
ZZ113289		0.24	0.034	0.26	1.96	133.0	0.03	<10	210	0.32	0.04	0.72	0.18	5.06	55.0	17
ZZ113290		0.47	0.001	0.06	1.55	48.3	<0.02	<10	220	0.55	0.09	0.32	0.26	22.7	24.1	78

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Plus Appendix Pages

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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113251		6.38	11.9	1.69	1.31	0.05	0.02	0.02	0.020	0.04	25.5	7.8	0.05	602	3.54
ZZ113252		6.84	15.0	1.35	3.71	<0.05	<0.02	0.03	0.013	0.05	13.5	1.9	0.09	142	2.67
ZZ113253		9.28	30.5	3.11	2.10	0.05	<0.02	0.02	0.016	0.07	19.1	5.8	0.20	775	4.51
ZZ113254		2.64	7.1	0.95	2.04	<0.05	<0.02	0.02	0.006	0.03	3.7	0.9	0.07	179	0.82
ZZ113255		12.90	27.4	3.32	3.46	<0.05	0.02	0.02	0.027	0.06	15.6	9.1	0.37	516	5.40
ZZ113256		9.34	79.8	6.34	6.54	0.05	0.02	0.03	0.024	0.06	4.9	12.3	1.06	608	0.43
ZZ113257		33.2	122.5	5.78	5.42	<0.05	0.04	0.05	0.049	0.15	5.1	18.0	1.27	774	0.77
ZZ113258		13.40	28.7	2.38	4.63	<0.05	<0.02	0.01	0.023	0.06	4.5	11.3	0.65	396	1.04
ZZ113259		7.45	44.9	2.88	4.22	<0.05	<0.02	0.02	0.017	0.07	6.9	15.6	1.40	542	1.10
ZZ113260		13.80	72.8	2.93	3.73	<0.05	0.02	0.02	0.016	0.06	4.9	18.6	1.42	497	0.82
ZZ113261		5.86	23.1	3.17	5.37	<0.05	<0.02	0.03	0.016	0.04	4.4	10.3	0.81	328	1.40
ZZ113262		4.30	47.2	2.93	4.17	<0.05	0.02	0.01	0.014	0.04	3.9	15.3	1.99	503	0.81
ZZ113263		6.20	56.4	2.55	5.01	<0.05	<0.02	0.02	0.014	0.06	3.6	14.4	1.53	595	0.85
ZZ113264		3.54	119.5	2.08	3.87	<0.05	<0.02	0.01	0.010	0.04	3.4	12.2	1.88	306	0.50
ZZ113265		1.98	41.5	1.18	2.96	<0.05	<0.02	0.02	0.006	0.04	1.4	4.7	0.59	220	0.36
ZZ113266		2.91	43.6	1.00	3.22	<0.05	<0.02	0.02	0.008	0.03	4.3	4.4	0.43	2410	1.08
ZZ113267		1.84	40.5	1.92	3.62	<0.05	<0.02	0.02	0.009	0.03	3.1	6.0	0.71	304	0.58
ZZ113268		0.71	51.7	1.31	2.04	<0.05	<0.02	0.01	0.005	0.02	1.5	5.9	1.00	160	0.30
ZZ113269		1.11	35.9	1.88	3.55	<0.05	<0.02	0.01	0.007	0.02	2.2	8.1	1.33	229	0.43
ZZ113270		1.23	53.5	1.49	3.40	<0.05	<0.02	0.01	0.009	0.03	2.4	7.8	1.17	425	0.40
ZZ113271		1.24	31.9	2.37	5.73	<0.05	<0.02	0.02	0.009	0.02	2.4	7.6	1.25	189	0.86
ZZ113272		0.74	14.6	0.90	2.45	<0.05	<0.02	0.02	<0.005	0.02	0.9	2.5	0.41	89	0.40
ZZ113273		0.96	35.4	1.38	2.88	<0.05	<0.02	0.02	0.006	0.03	2.7	7.1	1.02	158	0.35
ZZ113274		1.07	34.8	1.26	3.22	<0.05	<0.02	0.02	0.007	0.02	3.5	6.5	0.80	150	0.35
ZZ113275		1.66	86.4	2.16	3.41	<0.05	<0.02	0.02	0.010	0.03	2.3	13.3	1.78	282	0.51
ZZ113276		1.26	51.1	1.94	3.64	<0.05	<0.02	0.02	0.011	0.03	3.1	10.7	1.30	275	0.48
ZZ113277		4.52	16.6	1.29	3.96	<0.05	<0.02	0.02	0.009	0.03	3.8	2.6	0.21	411	0.63
ZZ113278		1.84	21.7	2.19	5.31	<0.05	<0.02	0.02	0.013	0.03	4.5	6.3	0.71	187	0.78
ZZ113279		2.94	28.1	1.51	4.89	<0.05	<0.02	0.03	0.013	0.03	5.6	5.8	0.45	191	0.62
ZZ113280		0.31	11.1	0.64	2.14	<0.05	<0.02	0.02	<0.005	0.03	1.8	0.9	0.10	37	0.21
ZZ113281		1.67	49.4	2.38	4.19	<0.05	<0.02	0.01	0.013	0.04	5.4	15.5	1.32	359	0.42
ZZ113282		3.18	13.1	1.11	3.85	<0.05	<0.02	0.03	0.009	0.03	4.0	2.6	0.22	170	0.77
ZZ113283		1.73	45.2	2.39	4.98	<0.05	<0.02	0.02	0.017	0.04	6.6	12.4	1.20	270	0.61
ZZ113284		2.20	111.0	2.62	4.32	<0.05	0.02	0.02	0.014	0.05	6.6	16.9	1.58	513	0.68
ZZ113285		1.27	77.5	2.71	4.02	<0.05	<0.02	0.01	0.011	0.03	2.3	13.8	1.95	390	0.33
ZZ113286		47.8	150.0	5.94	5.41	<0.05	0.06	0.03	0.049	0.18	6.8	26.9	1.48	1140	0.28
ZZ113287		33.1	78.7	5.48	5.34	<0.05	0.04	0.03	0.044	0.11	9.2	18.5	0.96	864	0.53
ZZ113288		11.10	23.4	1.82	3.53	<0.05	<0.02	0.02	0.016	0.04	2.7	7.0	0.37	222	0.33
ZZ113289		21.7	628	8.87	8.27	0.05	0.04	0.04	0.044	0.16	2.3	20.9	2.14	970	0.17
ZZ113290		16.70	66.9	5.41	3.42	<0.05	<0.02	0.02	0.046	0.08	10.4	18.2	0.69	1380	1.37

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ113251		0.23	12.2	400	21.0	3.3	<0.001	0.01	0.50	1.3	0.8	<0.2	11.5	<0.01	0.03
ZZ113252		0.30	11.9	600	13.5	5.1	<0.001	0.04	0.39	0.3	0.5	0.5	6.4	<0.01	0.03
ZZ113253		0.17	33.7	600	19.0	5.7	<0.001	0.02	4.68	1.0	2.9	0.2	11.5	<0.01	0.04
ZZ113254		0.14	6.3	380	4.9	2.7	<0.001	0.03	0.27	0.2	0.5	0.2	5.0	<0.01	0.01
ZZ113255		0.34	45.4	770	91.7	6.5	<0.001	0.04	0.90	1.5	1.5	0.3	10.5	<0.01	0.10
ZZ113256		0.30	57.4	490	2.7	6.1	<0.001	0.03	1.99	17.5	0.6	0.2	15.7	<0.01	0.02
ZZ113257		0.25	53.6	1770	2.7	24.2	<0.001	0.06	3.40	23.1	1.0	0.3	26.4	<0.01	0.02
ZZ113258		0.33	21.1	990	4.2	7.4	<0.001	0.06	0.98	2.4	0.3	0.3	16.1	<0.01	0.03
ZZ113259		0.36	53.0	570	3.8	9.5	<0.001	0.04	0.61	5.0	0.5	0.2	12.8	<0.01	0.03
ZZ113260		0.29	59.2	560	2.7	8.1	<0.001	0.03	0.73	7.1	0.5	0.2	12.5	<0.01	0.02
ZZ113261		0.38	24.5	680	4.2	6.4	<0.001	0.03	0.81	1.9	0.5	0.4	6.9	<0.01	0.03
ZZ113262		0.42	92.3	390	2.8	4.2	<0.001	0.02	0.38	4.0	0.5	0.2	13.4	<0.01	0.03
ZZ113263		0.34	68.9	810	3.1	6.6	<0.001	0.06	0.26	2.0	0.5	0.3	14.0	<0.01	0.02
ZZ113264		0.30	96.3	520	2.1	3.7	<0.001	0.03	0.13	2.8	0.4	0.2	9.1	<0.01	0.01
ZZ113265		0.26	26.9	400	1.5	3.2	<0.001	0.04	0.11	1.1	0.2	0.2	5.5	<0.01	0.01
ZZ113266		0.18	21.2	710	3.1	3.8	<0.001	0.05	0.16	0.8	0.2	0.2	10.6	<0.01	0.01
ZZ113267		0.54	36.2	410	2.4	5.5	<0.001	0.03	0.27	1.2	0.4	0.3	7.9	<0.01	0.01
ZZ113268		0.22	47.3	250	0.8	1.7	<0.001	0.01	0.16	1.5	0.3	<0.2	8.2	<0.01	0.01
ZZ113269		0.46	65.6	210	2.1	3.3	<0.001	0.02	0.21	1.8	0.3	0.3	9.6	<0.01	0.02
ZZ113270		0.30	56.7	380	2.0	3.2	<0.001	0.03	0.15	1.3	0.4	0.2	8.5	<0.01	0.01
ZZ113271		0.75	54.9	230	3.9	3.1	0.001	0.03	0.34	2.4	0.2	0.3	10.7	<0.01	0.02
ZZ113272		0.14	16.0	340	1.6	2.3	<0.001	0.04	0.11	0.3	<0.2	<0.2	5.3	<0.01	0.01
ZZ113273		0.26	42.4	510	2.0	3.2	<0.001	0.03	0.17	1.4	0.3	0.2	9.9	<0.01	0.01
ZZ113274		0.29	31.9	530	2.5	3.2	<0.001	0.05	0.17	0.9	0.2	0.2	9.3	<0.01	0.01
ZZ113275		0.33	72.3	360	1.9	2.9	<0.001	0.04	0.28	3.3	0.3	0.2	12.1	<0.01	0.01
ZZ113276		0.44	50.2	420	2.7	3.4	<0.001	0.04	0.25	2.0	0.3	0.2	10.9	<0.01	0.01
ZZ113277		0.31	10.0	750	6.5	6.7	<0.001	0.08	0.30	0.4	<0.2	0.4	9.2	<0.01	0.02
ZZ113278		0.79	27.6	470	4.0	4.4	<0.001	0.05	0.40	1.4	0.3	0.5	9.9	<0.01	0.02
ZZ113279		0.63	17.0	590	5.1	5.4	<0.001	0.05	0.30	0.9	0.6	0.6	9.6	<0.01	0.01
ZZ113280		0.14	2.2	440	1.4	1.4	<0.001	0.04	0.05	0.2	<0.2	<0.2	7.2	<0.01	0.01
ZZ113281		0.73	46.2	340	3.6	4.9	<0.001	0.03	0.36	3.6	0.4	0.4	9.9	<0.01	0.02
ZZ113282		0.49	11.1	500	4.8	4.1	<0.001	0.07	0.37	0.5	0.4	0.5	7.0	<0.01	0.02
ZZ113283		0.75	43.6	390	4.4	5.2	<0.001	0.03	0.40	3.1	0.6	0.4	11.5	<0.01	0.02
ZZ113284		0.58	61.9	380	4.0	4.9	<0.001	0.02	0.38	5.9	0.4	0.5	14.8	<0.01	0.02
ZZ113285		0.35	74.4	230	1.5	2.7	<0.001	0.03	0.29	3.7	0.3	0.2	15.1	<0.01	0.02
ZZ113286		0.21	69.1	1860	2.7	23.5	<0.001	0.03	2.30	21.6	0.9	0.3	23.8	<0.01	0.01
ZZ113287		0.45	40.0	1190	4.6	17.5	<0.001	0.04	2.03	13.8	0.8	0.4	18.5	<0.01	0.03
ZZ113288		0.22	13.8	860	2.4	6.9	<0.001	0.07	0.66	1.6	0.3	0.2	14.2	<0.01	0.01
ZZ113289		0.11	53.6	400	1.9	14.8	<0.001	0.03	4.44	33.9	0.6	0.2	19.8	<0.01	0.02
ZZ113290		0.21	56.6	840	4.6	9.2	<0.001	0.03	1.99	13.1	0.6	0.2	8.9	<0.01	0.03

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113251		0.005	0.07	0.72	14	0.15	4.76	74	0.9
ZZ113252		0.026	0.10	0.69	31	0.16	2.55	45	<0.5
ZZ113253		0.014	0.14	0.74	28	0.13	8.52	182	<0.5
ZZ113254		0.025	0.04	0.29	18	0.06	1.12	32	<0.5
ZZ113255		0.027	0.08	0.95	39	0.40	6.85	216	0.5
ZZ113256		0.073	0.24	0.30	266	0.22	7.16	57	0.9
ZZ113257		0.033	0.48	0.28	175	0.53	18.15	65	0.8
ZZ113258		0.033	0.11	0.43	68	0.37	3.67	38	<0.5
ZZ113259		0.042	0.12	0.40	63	0.31	5.77	52	<0.5
ZZ113260		0.024	0.20	0.32	59	0.29	7.36	44	<0.5
ZZ113261		0.071	0.09	0.31	94	0.25	2.66	50	<0.5
ZZ113262		0.070	0.05	0.43	56	0.36	3.84	51	<0.5
ZZ113263		0.045	0.08	0.59	55	0.30	3.31	51	<0.5
ZZ113264		0.051	0.06	0.44	40	0.19	3.53	39	<0.5
ZZ113265		0.040	0.04	0.32	28	0.18	1.49	23	<0.5
ZZ113266		0.037	0.09	0.42	24	0.22	4.78	19	<0.5
ZZ113267		0.087	0.03	0.29	45	0.21	1.90	26	<0.5
ZZ113268		0.067	0.02	0.20	27	0.17	1.82	17	<0.5
ZZ113269		0.120	0.03	0.21	44	0.22	1.78	22	<0.5
ZZ113270		0.058	0.04	0.26	30	0.19	1.89	24	<0.5
ZZ113271		0.223	0.03	0.23	70	0.30	1.85	28	<0.5
ZZ113272		0.040	0.02	0.27	25	0.08	0.55	14	<0.5
ZZ113273		0.074	0.04	0.23	34	0.13	1.68	21	<0.5
ZZ113274		0.052	0.05	0.31	29	0.14	1.74	20	<0.5
ZZ113275		0.095	0.04	0.24	51	0.18	2.62	31	<0.5
ZZ113276		0.085	0.04	0.47	45	0.20	2.25	35	<0.5
ZZ113277		0.035	0.06	0.40	42	0.14	1.92	24	<0.5
ZZ113278		0.116	0.06	0.46	63	0.25	2.06	28	<0.5
ZZ113279		0.075	0.07	0.48	46	0.17	2.26	23	<0.5
ZZ113280		0.035	<0.02	0.19	19	<0.05	0.98	10	<0.5
ZZ113281		0.129	0.07	0.58	59	0.25	4.14	38	<0.5
ZZ113282		0.060	0.04	0.39	40	0.14	1.25	20	<0.5
ZZ113283		0.122	0.08	0.56	59	0.31	3.94	39	<0.5
ZZ113284		0.141	0.08	0.82	66	0.28	7.24	44	0.5
ZZ113285		0.132	0.04	0.26	62	0.16	3.51	36	<0.5
ZZ113286		0.038	0.39	0.32	148	0.36	21.7	66	1.0
ZZ113287		0.031	0.36	0.47	112	0.82	15.70	67	0.7
ZZ113288		0.023	0.10	0.28	48	0.40	3.36	25	<0.5
ZZ113289		0.128	0.44	0.14	395	0.18	9.70	79	0.9
ZZ113290		0.009	0.13	0.40	95	0.28	13.05	87	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113291		0.52	<0.001	0.10	1.99	7.6	<0.02	<10	140	0.28	0.12	0.52	0.21	12.05	18.0	125
ZZ113292		0.43	<0.001	0.07	2.10	8.0	<0.02	<10	120	0.32	0.11	0.49	0.14	11.20	21.0	142
ZZ113293		0.39	0.014	0.28	1.61	105.0	<0.02	<10	420	0.87	0.07	1.16	0.30	39.7	29.5	121
ZZ113294		0.30	<0.001	0.05	1.60	3.9	<0.02	<10	50	0.19	0.09	0.24	0.10	8.48	13.8	138
ZZ113295		0.37	<0.001	0.05	1.86	2.2	<0.02	<10	50	0.14	0.25	0.31	0.08	5.19	18.7	186
ZZ113296		0.64	<0.001	0.04	2.06	4.8	<0.02	<10	30	0.17	0.08	0.25	0.12	6.26	61.9	289
ZZ113297		0.68	<0.001	0.02	2.05	3.2	<0.02	<10	30	0.18	0.11	0.30	0.07	7.88	20.6	197
ZZ113298		0.54	<0.001	0.02	1.79	2.5	<0.02	<10	40	0.13	0.08	0.27	0.08	5.57	16.6	205
ZZ113299		0.72	0.002	0.03	1.65	1.9	<0.02	<10	40	0.13	0.09	0.27	0.06	5.66	16.6	210
ZZ113300		0.39	<0.001	0.04	1.81	3.7	<0.02	<10	40	0.13	0.10	0.27	0.14	6.22	20.1	193
ZZ113301		0.40	0.001	0.47	1.68	42.1	<0.02	<10	100	0.39	0.40	0.12	0.55	24.1	7.8	54
ZZ113302		0.28	<0.001	0.10	1.87	16.4	<0.02	<10	80	0.20	0.15	0.10	0.23	15.75	9.0	126
ZZ113303		0.33	<0.001	0.30	1.63	17.3	<0.02	<10	120	0.45	0.39	0.09	0.40	19.80	6.0	42
ZZ113304		0.38	<0.001	0.32	1.38	12.8	<0.02	<10	120	0.29	0.39	0.08	0.15	23.5	3.7	31
ZZ113305		0.27	<0.001	0.33	1.18	33.6	<0.02	<10	130	0.43	0.41	0.09	0.58	26.2	6.6	33
ZZ113306		0.39	<0.001	0.22	1.58	23.7	<0.02	<10	130	0.54	0.43	0.08	0.34	25.0	4.6	32
ZZ113307		0.41	<0.001	0.11	1.13	17.5	<0.02	<10	100	0.37	0.30	0.13	0.37	37.1	6.9	34
ZZ113308		0.27	<0.001	0.38	1.39	19.8	<0.02	<10	90	0.50	0.33	0.12	0.41	36.4	6.4	34
ZZ113309		0.36	<0.001	0.16	1.12	36.2	<0.02	<10	100	0.35	0.41	0.08	0.38	27.3	5.9	25
ZZ113310		0.34	<0.001	0.10	0.95	11.4	<0.02	<10	80	0.29	0.35	0.07	0.46	27.2	3.7	21
ZZ113311		0.30	<0.001	0.27	1.02	14.4	<0.02	<10	80	0.32	0.36	0.09	0.62	25.1	4.8	25
ZZ113312		0.32	<0.001	0.09	1.38	11.9	<0.02	<10	90	0.60	0.42	0.08	0.79	34.7	4.7	21
ZZ113313		0.36	<0.001	0.14	1.14	17.5	<0.02	<10	80	0.26	0.31	0.09	0.42	32.9	6.2	31
ZZ113314		0.39	<0.001	0.21	1.27	19.6	<0.02	<10	90	0.37	0.28	0.08	0.48	31.7	6.5	32
ZZ113315		0.38	0.065	0.15	1.11	23.4	<0.02	<10	100	0.32	0.28	0.20	0.37	40.3	7.3	31
ZZ113316		1.48	0.001	0.17	1.04	29.3	<0.02	<10	100	0.35	0.24	0.24	0.42	42.2	9.0	30
ZZ113317		0.30	<0.001	0.13	1.22	30.7	<0.02	<10	110	0.36	0.25	0.22	1.10	42.4	11.1	37
ZZ113318		0.39	0.002	0.22	1.29	35.2	<0.02	<10	110	0.33	0.23	0.30	0.76	44.6	13.4	46
ZZ113319		0.32	0.004	0.15	1.21	37.6	<0.02	<10	110	0.31	0.24	0.31	0.74	40.6	11.0	40
ZZ113320		0.35	0.001	0.15	1.35	30.3	<0.02	<10	110	0.46	0.28	0.34	0.66	43.2	12.5	43
ZZ113321		0.32	0.001	0.12	1.28	33.4	<0.02	<10	80	0.31	0.26	0.17	0.73	38.6	10.5	44
ZZ113322		0.37	<0.001	0.08	1.32	18.6	<0.02	<10	100	0.27	0.25	0.48	0.49	31.4	12.2	55
ZZ113323		0.19	<0.001	0.17	1.64	15.4	<0.02	<10	180	0.55	0.28	0.64	0.25	34.0	10.1	46
ZZ113324		0.41	<0.001	0.05	0.89	5.7	<0.02	<10	80	0.35	0.29	0.20	0.25	25.5	3.3	20
ZZ113325		0.37	<0.001	0.56	1.71	13.4	<0.02	<10	170	1.13	0.46	0.87	0.61	40.9	10.6	34
ZZ113326		0.26	<0.001	0.04	1.00	3.6	<0.02	<10	70	0.29	0.39	0.33	0.19	20.8	2.5	10
ZZ113327		0.28	0.001	0.15	1.98	7.9	<0.02	<10	120	0.70	0.27	1.50	0.24	46.9	12.5	30
ZZ113328		0.19	0.002	0.25	1.56	9.8	<0.02	<10	150	0.86	0.27	2.21	0.24	40.4	9.8	32
ZZ113329		0.42	0.001	0.19	1.28	7.6	<0.02	<10	100	1.22	0.25	0.76	0.17	40.9	4.2	25
ZZ113330		0.33	<0.001	0.05	1.02	4.9	<0.02	<10	80	0.38	0.16	0.34	0.05	27.8	3.5	21

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113291		2.11	69.5	2.87	4.18	<0.05	<0.02	0.02	0.014	0.06	5.7	12.9	1.59	431	1.22
ZZ113292		5.37	73.5	2.94	4.27	<0.05	<0.02	0.02	0.015	0.06	5.0	15.5	1.69	527	0.68
ZZ113293		18.50	115.5	5.61	3.20	0.05	0.03	0.03	0.037	0.11	20.0	21.8	1.07	1320	2.48
ZZ113294		4.07	48.9	2.04	3.68	<0.05	<0.02	0.03	0.010	0.03	3.9	10.0	1.16	317	0.48
ZZ113295		1.14	61.5	2.20	3.76	<0.05	<0.02	0.01	0.009	0.03	2.5	10.3	1.73	356	0.27
ZZ113296		1.69	117.0	3.25	3.37	<0.05	<0.02	0.01	0.010	0.03	2.7	10.0	2.83	874	0.46
ZZ113297		1.34	69.7	2.29	3.87	<0.05	<0.02	0.02	0.011	0.03	3.5	11.1	1.70	335	0.44
ZZ113298		0.92	79.5	1.86	3.00	<0.05	<0.02	0.01	0.007	0.03	2.7	9.7	1.64	230	0.35
ZZ113299		0.69	80.4	1.62	2.55	<0.05	<0.02	0.01	0.006	0.02	2.7	8.6	1.54	218	0.32
ZZ113300		1.09	40.6	1.92	3.53	<0.05	<0.02	0.03	0.009	0.03	2.9	10.1	1.26	233	0.47
ZZ113301		5.25	19.0	2.93	5.61	<0.05	<0.02	0.03	0.029	0.10	11.5	18.8	0.80	264	2.25
ZZ113302		9.32	20.5	2.45	4.20	<0.05	<0.02	0.02	0.017	0.06	6.4	15.0	1.25	199	1.43
ZZ113303		4.37	20.3	2.58	5.89	<0.05	<0.02	0.04	0.028	0.11	10.5	10.4	0.43	538	3.52
ZZ113304		5.11	13.4	2.44	6.38	<0.05	<0.02	0.02	0.023	0.09	12.3	9.8	0.34	243	3.42
ZZ113305		6.38	27.7	3.01	4.27	<0.05	<0.02	0.02	0.038	0.09	14.2	11.9	0.39	241	6.53
ZZ113306		7.58	24.6	2.49	6.12	<0.05	<0.02	0.03	0.028	0.13	13.4	13.0	0.43	249	3.46
ZZ113307		2.19	22.0	2.11	4.19	0.07	<0.02	0.01	0.022	0.08	19.5	15.9	0.55	218	1.65
ZZ113308		3.03	17.0	2.30	4.95	0.06	<0.02	0.02	0.021	0.08	19.2	19.3	0.54	195	1.62
ZZ113309		6.87	13.3	2.38	5.60	0.05	<0.02	0.01	0.023	0.06	14.8	7.8	0.27	215	2.26
ZZ113310		4.68	8.9	1.84	4.44	<0.05	<0.02	0.01	0.016	0.05	14.3	8.5	0.24	245	2.29
ZZ113311		5.55	13.0	2.08	4.81	<0.05	<0.02	0.02	0.020	0.07	13.4	8.7	0.32	297	2.11
ZZ113312		5.22	10.2	2.01	4.98	<0.05	0.02	0.01	0.024	0.08	18.4	12.2	0.30	260	2.03
ZZ113313		3.01	17.8	2.58	4.71	<0.05	<0.02	<0.01	0.020	0.10	16.8	12.3	0.46	276	2.09
ZZ113314		1.77	24.0	2.31	4.42	0.05	<0.02	0.02	0.021	0.09	16.7	13.4	0.49	195	2.13
ZZ113315		1.94	20.5	2.24	3.57	0.06	<0.02	0.01	0.018	0.10	21.4	15.0	0.55	274	2.04
ZZ113316		1.81	27.5	2.40	3.16	0.07	0.02	0.01	0.016	0.09	22.6	13.5	0.55	321	1.99
ZZ113317		1.87	27.6	2.68	3.74	0.06	<0.02	0.01	0.018	0.09	21.9	14.4	0.67	337	2.47
ZZ113318		2.01	40.7	3.01	3.72	0.06	0.03	0.01	0.020	0.10	22.9	14.8	0.78	447	2.15
ZZ113319		1.90	32.8	3.01	3.42	0.06	0.03	0.01	0.018	0.09	20.8	14.5	0.71	344	2.38
ZZ113320		1.74	39.3	3.03	3.72	0.06	0.02	0.01	0.021	0.12	21.8	14.6	0.76	368	2.09
ZZ113321		2.15	27.1	2.79	3.90	0.05	<0.02	<0.01	0.021	0.09	19.8	13.1	0.76	314	2.21
ZZ113322		2.35	26.9	2.38	3.79	0.05	0.02	0.01	0.021	0.11	15.4	12.8	0.80	360	1.03
ZZ113323		2.95	33.1	2.54	5.03	0.05	0.02	0.02	0.025	0.10	17.3	14.9	0.75	356	0.81
ZZ113324		2.77	7.6	1.42	5.02	<0.05	0.02	0.01	0.014	0.06	12.7	8.4	0.27	166	1.13
ZZ113325		4.66	30.4	2.51	5.48	0.05	0.02	0.04	0.030	0.09	20.6	17.1	0.47	1260	1.47
ZZ113326		3.30	4.9	1.42	4.61	<0.05	<0.02	0.01	0.017	0.10	9.8	8.6	0.22	149	1.03
ZZ113327		4.67	23.1	3.44	6.36	0.08	0.06	0.03	0.025	0.17	25.6	27.1	1.12	559	0.69
ZZ113328		5.68	19.6	2.47	4.50	0.08	0.04	0.06	0.030	0.05	27.8	17.5	0.55	468	1.18
ZZ113329		4.93	12.9	1.76	4.44	0.07	0.03	0.03	0.021	0.07	36.1	27.5	0.43	415	1.37
ZZ113330		2.28	5.7	1.38	3.40	<0.05	0.03	0.01	0.013	0.08	15.3	10.8	0.34	167	0.95

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ113291		0.46	55.3	520	3.5	5.2	<0.001	0.03	0.55	4.5	0.6	0.2	18.2	<0.01	0.02
ZZ113292		0.44	60.8	450	3.2	5.0	<0.001	0.04	0.49	5.0	0.4	0.2	16.5	<0.01	0.03
ZZ113293		0.08	74.5	1040	6.4	8.6	<0.001	0.07	2.45	16.8	1.1	0.2	28.5	<0.01	0.02
ZZ113294		0.32	42.1	610	2.2	4.1	<0.001	0.06	0.31	1.8	0.4	0.2	12.0	<0.01	0.02
ZZ113295		0.26	73.1	420	1.8	3.5	<0.001	0.03	0.19	2.9	0.2	0.2	13.2	<0.01	0.02
ZZ113296		0.26	187.0	540	2.2	2.8	<0.001	0.02	0.27	4.4	0.6	<0.2	9.2	<0.01	0.04
ZZ113297		0.59	78.2	330	2.4	3.3	<0.001	0.02	0.27	3.0	0.4	0.2	12.0	<0.01	0.03
ZZ113298		0.30	78.7	270	1.9	2.8	<0.001	0.02	0.19	2.1	0.2	0.2	11.4	<0.01	0.02
ZZ113299		0.27	76.3	260	1.4	2.3	<0.001	0.02	0.17	2.2	0.2	<0.2	10.8	<0.01	0.02
ZZ113300		0.65	70.2	190	2.4	2.9	<0.001	0.02	0.28	2.5	0.3	0.3	11.8	<0.01	0.02
ZZ113301		1.29	30.0	600	17.5	15.4	<0.001	0.04	1.66	3.4	0.5	0.5	12.8	<0.01	0.04
ZZ113302		0.41	90.3	490	10.4	10.5	<0.001	0.03	1.76	4.2	0.3	0.3	11.3	<0.01	0.02
ZZ113303		0.39	17.0	1190	18.2	24.1	<0.001	0.08	1.15	0.6	0.7	0.6	13.6	<0.01	0.04
ZZ113304		1.39	12.2	490	22.0	15.4	<0.001	0.07	0.98	2.3	0.5	0.7	12.1	<0.01	0.05
ZZ113305		0.38	32.8	590	32.1	15.5	<0.001	0.07	5.25	1.0	2.7	0.5	22.8	<0.01	0.07
ZZ113306		0.43	19.7	1160	28.1	29.1	<0.001	0.06	1.94	0.6	0.6	0.8	14.5	<0.01	0.05
ZZ113307		0.85	26.4	520	14.3	11.3	<0.001	0.01	1.36	2.7	0.7	0.6	10.1	<0.01	0.02
ZZ113308		1.52	23.1	750	14.6	13.4	<0.001	0.02	1.02	2.9	0.9	0.7	9.0	<0.01	0.03
ZZ113309		1.21	21.7	910	13.5	15.2	<0.001	0.03	2.66	2.3	0.4	0.7	10.4	<0.01	0.02
ZZ113310		0.81	11.2	480	17.0	13.5	<0.001	0.03	0.81	1.1	0.5	0.5	7.6	<0.01	0.02
ZZ113311		0.88	15.7	650	16.2	11.7	<0.001	0.03	1.05	1.6	0.4	0.6	8.7	<0.01	0.01
ZZ113312		1.44	14.7	470	14.0	13.9	<0.001	0.02	0.86	1.5	0.3	0.7	9.5	<0.01	0.01
ZZ113313		1.11	21.6	850	13.6	14.5	<0.001	0.03	1.36	2.3	0.7	0.5	8.6	<0.01	0.04
ZZ113314		0.29	27.6	530	12.0	9.5	0.001	0.02	1.51	0.9	0.7	0.5	8.6	<0.01	0.03
ZZ113315		0.61	25.3	680	11.0	10.2	<0.001	0.02	1.59	2.0	1.0	0.4	11.9	<0.01	0.03
ZZ113316		0.51	31.7	670	13.2	7.8	<0.001	0.02	2.89	2.5	1.1	0.3	13.9	<0.01	0.02
ZZ113317		0.54	34.3	670	15.2	9.1	<0.001	0.02	3.20	2.5	1.1	0.3	14.5	<0.01	0.04
ZZ113318		0.46	43.8	750	15.1	8.6	<0.001	0.01	2.46	3.2	1.1	0.3	15.8	<0.01	0.06
ZZ113319		0.46	36.9	780	14.4	6.6	<0.001	0.02	2.31	2.6	1.1	0.2	14.4	<0.01	0.06
ZZ113320		0.37	41.6	650	17.3	8.5	<0.001	0.02	2.23	2.8	1.2	0.2	16.7	<0.01	0.06
ZZ113321		0.48	33.0	570	15.1	10.2	<0.001	0.01	1.86	2.4	1.4	0.2	10.8	<0.01	0.05
ZZ113322		0.56	32.4	710	13.0	11.0	<0.001	0.01	1.37	3.4	0.9	0.3	17.9	<0.01	0.06
ZZ113323		0.95	31.7	500	12.4	12.8	<0.001	0.02	1.23	3.7	0.8	0.5	23.6	<0.01	0.05
ZZ113324		1.59	8.3	200	11.5	16.0	<0.001	0.01	0.56	1.8	0.3	0.6	13.7	<0.01	<0.01
ZZ113325		0.76	20.1	840	20.0	19.1	<0.001	0.03	1.11	3.1	0.6	0.6	31.0	<0.01	0.02
ZZ113326		1.81	5.2	200	8.5	24.3	<0.001	0.02	0.50	1.5	0.4	0.6	15.0	<0.01	0.01
ZZ113327		1.17	29.3	970	12.8	24.7	0.001	0.04	1.40	4.3	1.1	0.6	41.5	<0.01	0.02
ZZ113328		1.49	18.2	1240	10.4	6.0	<0.001	0.08	0.88	3.9	1.8	0.6	103.5	<0.01	<0.01
ZZ113329		1.47	12.2	560	10.9	15.9	<0.001	0.04	0.54	1.9	1.4	0.6	37.9	<0.01	0.01
ZZ113330		1.24	9.3	160	11.3	12.5	<0.001	0.01	0.25	2.0	0.3	0.4	16.1	<0.01	0.01

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113291		0.088	0.07	0.44	65	0.35	5.22	61	<0.5
ZZ113292		0.092	0.12	0.36	64	0.34	5.46	46	<0.5
ZZ113293		0.006	0.46	0.33	77	0.32	19.35	90	1.0
ZZ113294		0.071	0.05	0.34	48	0.16	2.86	32	<0.5
ZZ113295		0.072	0.04	0.23	47	0.17	2.59	35	<0.5
ZZ113296		0.082	0.04	0.29	48	0.28	3.36	36	<0.5
ZZ113297		0.115	0.05	0.29	48	0.28	3.04	30	<0.5
ZZ113298		0.078	0.03	0.21	37	0.19	2.28	25	<0.5
ZZ113299		0.065	0.03	0.20	32	0.17	2.45	22	<0.5
ZZ113300		0.091	0.05	0.23	45	0.67	2.07	25	<0.5
ZZ113301		0.068	0.13	0.87	59	0.57	3.70	84	0.5
ZZ113302		0.019	0.07	0.45	50	0.21	2.39	55	<0.5
ZZ113303		0.027	0.15	1.41	64	0.36	2.99	82	<0.5
ZZ113304		0.075	0.16	0.96	69	0.47	2.99	57	<0.5
ZZ113305		0.032	0.17	1.20	48	0.35	4.29	167	<0.5
ZZ113306		0.026	0.17	1.95	44	0.30	3.13	80	<0.5
ZZ113307		0.043	0.12	1.29	37	0.25	5.70	78	<0.5
ZZ113308		0.040	0.13	1.37	38	0.28	5.97	75	<0.5
ZZ113309		0.038	0.09	0.80	39	0.39	2.65	88	<0.5
ZZ113310		0.031	0.08	0.80	37	0.36	2.75	58	<0.5
ZZ113311		0.048	0.08	0.89	41	0.33	3.07	71	<0.5
ZZ113312		0.019	0.13	1.65	32	0.34	3.98	95	<0.5
ZZ113313		0.046	0.11	1.08	46	0.34	3.91	83	<0.5
ZZ113314		0.022	0.11	1.00	38	0.25	4.01	90	<0.5
ZZ113315		0.029	0.10	1.07	33	0.26	6.06	89	<0.5
ZZ113316		0.026	0.10	1.11	30	0.19	8.50	105	0.7
ZZ113317		0.024	0.10	0.92	36	0.21	5.65	129	0.5
ZZ113318		0.033	0.08	1.03	36	0.29	7.88	124	1.5
ZZ113319		0.027	0.09	0.84	34	0.22	5.74	136	1.9
ZZ113320		0.023	0.08	1.04	33	0.27	7.62	119	0.7
ZZ113321		0.029	0.08	0.65	34	0.26	4.27	110	<0.5
ZZ113322		0.041	0.08	0.52	38	0.43	5.27	88	0.9
ZZ113323		0.045	0.13	1.41	41	0.45	7.29	67	0.8
ZZ113324		0.069	0.09	0.62	41	0.45	3.40	47	0.5
ZZ113325		0.028	0.13	4.27	50	0.23	12.55	75	<0.5
ZZ113326		0.041	0.08	0.89	25	0.28	3.37	43	0.6
ZZ113327		0.077	0.20	3.16	42	0.14	15.00	82	2.4
ZZ113328		0.051	0.11	9.05	50	0.24	23.3	44	1.5
ZZ113329		0.040	0.10	5.05	34	0.37	22.3	41	1.0
ZZ113330		0.023	0.08	1.37	29	0.93	4.47	34	1.2

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113331		0.45	<0.001	0.07	1.31	13.2	<0.02	<10	90	0.45	0.13	0.56	0.09	20.1	14.6	99
ZZ113332		0.51	<0.001	0.07	1.62	15.9	<0.02	<10	140	0.31	0.12	0.51	0.07	15.15	15.9	127
ZZ113333		0.43	0.001	0.05	1.60	15.6	<0.02	<10	160	0.30	0.11	0.57	0.06	15.95	16.2	123
ZZ113334		0.38	<0.001	0.13	1.63	18.8	<0.02	<10	130	0.28	0.12	0.57	0.12	14.15	21.4	140
ZZ113335		0.31	<0.001	0.03	1.32	14.8	<0.02	<10	70	0.15	0.11	0.49	0.21	9.38	13.3	116
ZZ113336		0.45	<0.001	0.04	1.49	16.9	<0.02	<10	70	0.16	0.11	0.35	0.15	13.45	11.4	110
ZZ113337		0.31	<0.001	0.14	1.69	16.3	<0.02	<10	110	0.25	0.15	0.35	0.09	15.50	15.7	105
ZZ113338		0.48	<0.001	0.07	1.51	17.3	<0.02	<10	70	0.16	0.13	0.40	0.09	14.10	10.9	105
ZZ113339		0.30	0.002	0.53	3.08	13.7	<0.02	<10	290	0.96	0.26	0.51	0.58	64.1	17.1	74
ZZ113340		0.33	<0.001	0.10	0.91	14.4	<0.02	<10	60	0.16	0.29	0.20	0.27	16.60	6.9	40
ZZ113341		0.39	<0.001	0.13	1.26	11.6	<0.02	<10	120	0.32	0.17	0.27	0.19	23.4	11.3	50
ZZ113342		0.33	0.040	0.26	2.33	212	0.04	<10	280	0.35	0.04	1.03	0.21	5.81	79.6	47
ZZ113343		0.20	0.012	0.10	1.95	94.9	<0.02	<10	190	0.68	0.07	0.59	0.09	14.40	36.7	64
ZZ113344		0.30	0.006	0.09	2.02	88.4	<0.02	<10	230	0.63	0.13	0.52	0.15	12.80	22.5	71
ZZ113345		0.38	<0.001	0.10	0.86	12.0	<0.02	<10	30	0.16	0.11	0.10	0.14	8.79	6.6	33
ZZ113346		0.29	<0.001	0.10	1.23	5.3	<0.02	<10	70	0.18	0.08	0.14	0.06	7.59	6.6	60
ZZ113347		0.40	<0.001	0.08	1.32	12.4	<0.02	<10	200	0.27	0.17	0.34	0.37	11.80	12.8	71
ZZ113348		0.32	<0.001	0.13	0.69	3.5	<0.02	<10	80	0.13	0.16	0.22	0.06	6.16	3.5	43
ZZ113349		0.31	<0.001	0.18	2.50	7.7	<0.02	<10	190	0.48	0.24	0.82	0.27	11.65	23.8	175
ZZ113350		0.41	<0.001	0.05	2.03	4.7	<0.02	<10	100	0.30	0.18	0.54	0.12	11.05	18.8	185
ZZ113351		0.45	<0.001	0.03	1.63	3.4	<0.02	<10	90	0.21	0.23	0.41	0.24	9.19	17.8	103
ZZ113352		0.43	0.001	0.06	1.54	5.7	<0.02	<10	50	0.23	0.21	0.17	0.22	14.00	8.8	77
ZZ113353		0.35	<0.001	0.12	1.10	3.3	<0.02	<10	70	0.18	0.16	0.42	0.15	8.82	10.8	83
ZZ113354		0.50	0.001	0.03	1.52	4.5	<0.02	<10	120	0.15	0.20	0.40	0.15	10.20	13.9	126
ZZ113355		0.48	<0.001	0.05	1.05	2.6	<0.02	<10	40	0.11	0.09	0.43	0.13	5.34	16.7	109
ZZ113356		0.45	<0.001	0.10	1.54	2.8	<0.02	<10	90	0.18	0.12	0.45	0.05	8.83	13.1	135
ZZ113357		0.53	<0.001	0.08	1.48	1.7	<0.02	<10	40	0.11	0.10	0.44	0.12	5.09	13.9	174
ZZ113358		0.40	0.019	0.05	1.28	4.3	<0.02	<10	30	0.15	0.11	0.25	0.08	6.88	16.4	111
ZZ113359		0.31	<0.001	0.11	1.62	4.3	<0.02	<10	30	0.11	0.22	0.22	0.08	9.11	13.0	160
ZZ113360		0.47	<0.001	0.07	1.31	2.8	<0.02	<10	10	0.07	0.14	0.23	0.05	5.63	11.9	146
ZZ113361		0.41	<0.001	0.04	0.95	3.4	<0.02	<10	10	0.08	0.09	0.24	0.14	6.52	11.1	85
ZZ113362		0.34	<0.001	0.02	0.80	2.1	<0.02	<10	10	0.05	0.23	0.13	0.04	9.24	4.4	50
ZZ113363		0.28	<0.001	0.10	1.00	2.8	<0.02	<10	40	0.14	0.24	0.15	0.06	10.40	5.0	60
ZZ113364		0.49	<0.001	0.08	1.41	2.4	<0.02	<10	20	0.10	0.12	0.24	0.10	6.59	12.5	138
ZZ113365		0.42	<0.001	0.26	3.78	8.1	<0.02	<10	240	0.54	0.28	0.49	0.13	12.10	26.0	251
ZZ113366		0.30	<0.001	0.16	1.82	5.5	<0.02	<10	50	0.22	0.24	0.27	0.15	9.54	14.0	115
ZZ113367		0.31	0.001	0.17	3.23	6.6	<0.02	<10	100	0.45	0.36	0.16	0.15	14.10	15.5	173
ZZ113368		0.44	<0.001	0.01	1.41	3.0	<0.02	<10	30	0.16	0.12	0.44	0.08	11.65	15.9	120
ZZ113369		0.39	<0.001	0.04	2.33	3.5	<0.02	<10	30	0.25	0.14	0.30	0.17	10.05	15.0	150
ZZ113370		0.90	<0.001	0.08	1.54	2.9	<0.02	<10	30	0.16	0.17	0.33	0.10	9.97	16.3	168

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113331		2.52	25.5	2.10	3.02	<0.05	0.03	0.01	0.017	0.06	10.9	9.0	1.09	547	0.83
ZZ113332		4.25	38.6	2.49	3.62	<0.05	<0.02	0.01	0.018	0.04	7.4	11.8	1.24	354	0.63
ZZ113333		3.48	41.7	2.47	3.56	<0.05	0.03	0.01	0.021	0.05	7.8	10.2	1.22	397	0.63
ZZ113334		4.16	43.9	2.57	3.94	<0.05	0.02	0.02	0.018	0.05	6.6	10.2	1.40	452	0.51
ZZ113335		2.71	28.0	2.13	3.23	<0.05	0.02	<0.01	0.016	0.06	4.7	8.8	1.12	264	0.48
ZZ113336		1.82	18.3	2.04	4.45	<0.05	0.02	0.01	0.013	0.05	6.4	10.0	0.99	221	0.74
ZZ113337		4.22	29.2	2.55	4.54	<0.05	0.02	0.02	0.020	0.06	7.4	15.2	0.99	431	0.92
ZZ113338		2.82	18.9	2.22	4.36	<0.05	0.02	0.01	0.012	0.05	6.9	11.4	0.95	243	0.82
ZZ113339		4.89	90.9	3.72	8.32	0.09	0.04	0.02	0.032	0.11	30.4	50.7	1.65	643	2.01
ZZ113340		1.89	15.6	2.46	5.12	<0.05	0.02	0.01	0.016	0.05	8.8	8.0	0.46	184	2.14
ZZ113341		2.55	49.2	2.26	3.36	0.06	0.02	0.01	0.017	0.06	15.2	13.0	0.67	261	1.21
ZZ113342		13.95	250	8.45	14.00	0.07	0.03	0.07	0.057	0.08	2.9	21.2	2.81	1360	0.22
ZZ113343		30.1	118.0	5.73	5.73	<0.05	0.04	0.03	0.053	0.10	5.9	21.4	1.09	975	0.69
ZZ113344		30.8	88.5	5.46	6.09	<0.05	0.03	0.03	0.056	0.09	6.2	18.8	0.91	680	0.68
ZZ113345		4.79	19.6	2.10	3.56	<0.05	<0.02	0.04	0.018	0.04	4.2	5.4	0.30	239	1.33
ZZ113346		6.78	22.8	1.40	3.82	<0.05	<0.02	0.03	0.015	0.03	3.8	9.9	0.58	124	0.56
ZZ113347		12.45	28.8	2.30	4.99	<0.05	<0.02	0.03	0.024	0.05	5.6	9.8	0.63	1340	3.69
ZZ113348		6.29	14.2	0.97	3.61	<0.05	<0.02	0.02	0.012	0.04	3.2	2.4	0.21	142	1.16
ZZ113349		7.41	95.2	3.04	5.77	<0.05	0.03	0.03	0.025	0.07	6.1	18.8	1.56	957	1.64
ZZ113350		4.87	68.8	2.51	4.74	<0.05	0.02	0.02	0.018	0.05	5.9	13.7	1.59	446	0.84
ZZ113351		2.93	48.6	2.60	5.51	<0.05	<0.02	0.01	0.017	0.05	4.0	16.6	1.10	316	1.22
ZZ113352		2.43	24.2	2.84	6.33	<0.05	<0.02	0.03	0.021	0.04	6.9	8.1	0.58	185	1.07
ZZ113353		5.10	38.3	1.50	3.74	<0.05	<0.02	0.02	0.013	0.04	4.5	5.8	0.58	324	1.69
ZZ113354		2.89	36.0	2.22	4.99	<0.05	<0.02	0.01	0.015	0.04	5.0	9.9	1.09	241	1.06
ZZ113355		1.32	47.3	1.63	3.00	<0.05	<0.02	0.01	0.010	0.02	2.4	7.7	0.81	197	0.58
ZZ113356		2.27	91.3	1.60	3.43	<0.05	0.02	0.02	0.013	0.03	4.6	11.3	1.12	226	0.83
ZZ113357		1.57	54.3	1.40	2.91	<0.05	<0.02	0.01	0.011	0.03	2.6	9.7	1.38	191	0.36
ZZ113358		1.58	46.0	2.16	3.84	<0.05	<0.02	0.02	0.013	0.03	3.2	7.8	0.85	281	0.80
ZZ113359		1.96	34.1	2.12	5.87	<0.05	<0.02	0.03	0.015	0.04	4.5	8.7	1.11	199	0.86
ZZ113360		1.40	19.7	1.76	5.48	<0.05	<0.02	0.01	0.010	0.02	2.7	6.7	1.04	170	0.49
ZZ113361		1.20	20.8	1.88	3.93	<0.05	<0.02	0.02	0.011	0.02	3.2	4.7	0.60	198	0.50
ZZ113362		0.82	7.4	0.99	7.38	<0.05	<0.02	0.02	0.011	0.02	4.7	2.5	0.33	83	0.65
ZZ113363		3.33	20.6	1.16	4.99	<0.05	<0.02	0.03	0.016	0.04	5.5	3.9	0.30	162	1.03
ZZ113364		1.58	23.1	1.88	4.84	<0.05	<0.02	0.02	0.012	0.02	3.1	6.9	1.06	213	0.52
ZZ113365		5.82	184.5	4.09	9.26	<0.05	<0.02	0.04	0.030	0.12	6.0	26.5	2.28	641	1.18
ZZ113366		2.60	49.8	2.84	6.73	<0.05	<0.02	0.03	0.021	0.05	4.8	12.1	1.05	243	0.94
ZZ113367		4.39	76.1	3.49	10.65	<0.05	<0.02	0.04	0.033	0.10	7.5	21.1	1.37	333	1.36
ZZ113368		0.87	36.4	2.03	3.39	<0.05	<0.02	0.01	0.012	0.02	5.7	10.8	1.21	331	0.29
ZZ113369		1.67	34.9	2.67	5.15	<0.05	0.02	0.03	0.019	0.03	4.8	12.4	1.25	284	0.54
ZZ113370		1.82	116.0	1.70	3.28	<0.05	<0.02	0.01	0.011	0.03	4.9	8.7	1.24	281	0.35

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ113331		0.48	41.6	600	6.1	6.8	<0.001	0.01	0.91	3.7	0.7	0.2	23.7	<0.01	0.01
ZZ113332		0.37	51.5	480	5.5	6.0	<0.001	0.01	1.12	4.6	0.7	0.2	20.7	<0.01	0.01
ZZ113333		0.45	50.9	850	5.3	5.0	<0.001	0.01	0.99	5.3	0.8	0.2	22.2	<0.01	0.01
ZZ113334		0.40	59.1	770	6.3	5.9	<0.001	0.01	1.23	5.3	0.6	0.2	23.1	<0.01	0.02
ZZ113335		0.41	45.0	550	4.4	6.2	<0.001	0.01	0.92	3.7	0.3	0.2	18.7	<0.01	0.01
ZZ113336		0.77	35.8	180	4.8	4.1	<0.001	0.01	0.71	3.4	0.3	0.3	15.0	<0.01	0.01
ZZ113337		0.72	36.6	470	6.6	9.9	<0.001	0.01	0.68	4.1	0.3	0.3	15.9	<0.01	0.02
ZZ113338		0.88	33.2	280	5.1	6.8	<0.001	0.01	0.72	3.5	0.6	0.3	15.4	<0.01	0.01
ZZ113339		1.56	51.3	610	13.5	12.0	<0.001	0.03	0.57	8.6	1.6	0.8	31.1	<0.01	0.05
ZZ113340		1.41	18.2	310	7.7	14.3	<0.001	0.01	0.74	2.4	0.4	0.5	13.6	<0.01	0.02
ZZ113341		0.79	30.3	370	7.2	7.4	<0.001	0.01	0.58	4.2	0.9	0.3	15.7	<0.01	0.04
ZZ113342		0.16	104.0	580	2.1	9.4	<0.001	0.05	5.09	46.8	1.2	0.3	27.0	<0.01	0.02
ZZ113343		0.34	55.8	1300	4.1	16.9	0.001	0.03	4.71	22.4	0.9	0.3	20.8	<0.01	0.02
ZZ113344		0.38	43.5	1410	4.0	15.6	<0.001	0.06	3.69	13.5	0.9	0.4	21.0	<0.01	0.02
ZZ113345		0.20	12.9	800	3.6	7.4	<0.001	0.05	1.47	0.7	0.6	0.2	6.6	<0.01	0.02
ZZ113346		0.16	19.9	590	2.7	5.7	<0.001	0.03	0.36	0.8	0.4	0.2	8.6	<0.01	0.01
ZZ113347		0.35	28.1	810	6.7	8.7	<0.001	0.05	1.03	1.8	0.6	0.3	13.7	<0.01	0.02
ZZ113348		0.21	10.3	850	3.5	6.6	<0.001	0.04	0.33	0.4	0.2	0.4	11.4	<0.01	0.02
ZZ113349		0.63	75.3	1000	4.5	8.4	0.001	0.06	0.46	4.4	1.0	0.4	22.6	<0.01	0.03
ZZ113350		0.55	68.5	740	3.2	5.4	<0.001	0.06	0.36	3.4	0.5	0.3	17.9	<0.01	0.02
ZZ113351		0.78	47.2	350	3.6	6.6	<0.001	0.03	0.27	3.2	0.5	0.4	14.8	<0.01	0.03
ZZ113352		1.03	25.2	390	4.9	5.9	<0.001	0.04	0.44	1.6	0.6	0.5	10.9	<0.01	0.03
ZZ113353		0.38	28.5	680	3.8	9.3	<0.001	0.06	0.33	1.0	0.4	0.4	14.8	<0.01	0.02
ZZ113354		0.80	46.8	300	3.2	9.7	<0.001	0.03	0.44	3.2	0.3	0.4	16.3	<0.01	0.03
ZZ113355		0.43	39.5	290	1.9	4.0	<0.001	0.03	0.29	2.2	0.3	0.2	13.9	<0.01	0.02
ZZ113356		0.55	47.9	480	2.5	3.8	<0.001	0.02	0.22	3.7	0.5	0.2	14.5	<0.01	0.01
ZZ113357		0.44	60.8	340	1.7	2.5	<0.001	0.01	0.19	3.2	0.2	0.2	14.3	<0.01	0.01
ZZ113358		0.48	38.3	370	2.1	3.7	<0.001	0.03	0.33	1.8	0.4	0.3	13.1	<0.01	0.02
ZZ113359		1.13	51.4	250	4.1	5.0	<0.001	0.02	0.36	2.9	0.3	0.6	10.2	<0.01	0.01
ZZ113360		0.87	43.5	170	3.2	2.9	<0.001	0.01	0.30	2.5	<0.2	0.4	9.9	<0.01	0.01
ZZ113361		0.59	25.7	370	2.2	5.1	<0.001	0.02	0.31	1.8	0.2	0.3	9.8	<0.01	0.02
ZZ113362		1.61	13.0	230	8.2	2.5	<0.001	0.01	0.32	1.3	0.2	0.9	7.7	<0.01	0.02
ZZ113363		0.35	14.3	850	6.5	8.6	<0.001	0.06	0.25	0.4	0.2	0.6	10.6	<0.01	0.03
ZZ113364		0.66	41.7	310	3.2	4.1	<0.001	0.02	0.24	2.4	0.3	0.4	10.2	<0.01	0.01
ZZ113365		0.88	101.0	1150	5.8	13.3	<0.001	0.08	0.46	5.2	0.7	0.8	19.5	<0.01	0.02
ZZ113366		0.92	42.1	450	5.2	6.6	<0.001	0.03	0.35	2.9	0.5	0.6	12.8	<0.01	0.03
ZZ113367		1.01	58.0	680	9.1	13.0	<0.001	0.04	0.43	2.2	0.5	1.3	11.9	<0.01	0.03
ZZ113368		0.51	45.3	250	2.5	2.9	<0.001	<0.01	0.28	4.0	0.4	0.3	13.1	<0.01	0.01
ZZ113369		1.09	48.6	340	3.5	3.4	<0.001	0.02	0.31	4.2	0.6	0.4	10.7	<0.01	0.01
ZZ113370		0.46	58.5	520	2.7	4.6	<0.001	0.01	0.24	2.9	0.4	0.2	13.4	<0.01	0.02

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113331		0.044	0.07	1.28	43	1.21	6.67	35	0.7
ZZ113332		0.060	0.07	0.36	56	1.51	5.36	39	<0.5
ZZ113333		0.056	0.07	0.50	54	1.71	5.97	39	0.8
ZZ113334		0.063	0.08	0.30	55	2.11	4.90	44	0.5
ZZ113335		0.072	0.05	0.22	50	1.49	3.18	41	0.7
ZZ113336		0.113	0.06	0.28	58	0.21	2.97	32	0.8
ZZ113337		0.065	0.08	0.41	62	0.62	3.43	45	0.7
ZZ113338		0.106	0.07	0.39	59	0.23	3.06	34	0.8
ZZ113339		0.124	0.14	4.43	89	0.52	15.30	109	1.3
ZZ113340		0.104	0.07	0.48	80	0.34	2.57	54	0.9
ZZ113341		0.076	0.11	1.85	53	0.30	7.55	63	0.9
ZZ113342		0.090	0.61	0.26	386	1.03	12.25	107	0.6
ZZ113343		0.028	0.63	0.36	170	0.61	12.95	63	1.0
ZZ113344		0.022	0.53	0.50	159	0.56	10.80	69	0.6
ZZ113345		0.024	0.08	0.40	54	0.20	2.01	33	<0.5
ZZ113346		0.022	0.10	0.40	37	0.15	2.60	24	<0.5
ZZ113347		0.039	0.14	0.63	61	0.26	4.00	66	<0.5
ZZ113348		0.022	0.08	0.45	33	0.25	1.19	20	<0.5
ZZ113349		0.045	0.12	1.30	63	0.44	6.85	75	0.8
ZZ113350		0.054	0.08	1.42	53	0.31	6.18	48	0.7
ZZ113351		0.109	0.06	0.84	84	0.32	3.27	67	<0.5
ZZ113352		0.094	0.08	0.75	64	0.35	3.33	39	0.5
ZZ113353		0.040	0.07	0.93	41	0.30	3.33	28	<0.5
ZZ113354		0.089	0.06	0.50	57	0.34	3.91	43	<0.5
ZZ113355		0.078	0.03	0.34	40	0.24	3.01	30	<0.5
ZZ113356		0.062	0.06	1.56	39	0.32	5.05	33	0.6
ZZ113357		0.069	0.03	0.49	33	0.19	2.77	31	<0.5
ZZ113358		0.101	0.04	0.62	53	0.27	2.78	26	<0.5
ZZ113359		0.167	0.06	0.74	69	0.32	2.05	34	0.5
ZZ113360		0.238	0.04	0.24	65	0.20	1.69	24	<0.5
ZZ113361		0.130	0.04	0.28	54	0.18	2.01	25	<0.5
ZZ113362		0.219	0.04	0.35	64	0.18	1.52	14	<0.5
ZZ113363		0.027	0.10	0.83	41	0.20	1.65	23	<0.5
ZZ113364		0.196	0.06	0.35	60	0.14	2.24	25	<0.5
ZZ113365		0.066	0.19	1.84	92	0.36	7.21	81	<0.5
ZZ113366		0.129	0.09	0.93	72	0.29	3.62	44	0.5
ZZ113367		0.059	0.21	1.40	92	0.33	3.60	64	<0.5
ZZ113368		0.169	0.04	0.53	53	0.22	6.31	30	<0.5
ZZ113369		0.164	0.06	0.46	67	0.28	4.08	35	0.6
ZZ113370		0.086	0.05	0.41	37	0.20	3.81	33	<0.5

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113371		0.31	<0.001	0.04	1.33	1.6	<0.02	<10	10	0.09	0.08	0.19	0.07	4.16	11.0	167
ZZ113372		0.44	0.001	0.05	2.38	5.1	<0.02	<10	30	0.17	0.08	0.37	0.11	4.48	27.5	274
ZZ113373		0.48	<0.001	0.06	1.97	4.2	<0.02	<10	20	0.16	0.09	0.27	0.14	7.18	17.4	201
ZZ113374		0.44	<0.001	0.04	1.04	4.2	<0.02	<10	30	0.14	0.21	0.16	0.06	10.70	6.2	85
ZZ113375		0.50	<0.001	0.07	2.44	4.8	<0.02	<10	40	0.20	0.13	0.25	0.13	9.99	16.0	166
ZZ113376		0.36	<0.001	0.02	1.78	4.2	<0.02	<10	20	0.10	0.13	0.25	0.14	6.61	16.1	195
ZZ113377		0.41	<0.001	0.04	1.66	3.5	<0.02	<10	20	0.16	0.12	0.21	0.13	8.22	14.7	146
ZZ113378		0.51	<0.001	0.05	1.81	2.6	<0.02	<10	20	0.12	0.09	0.24	0.11	6.05	16.7	231
ZZ113379		0.46	<0.001	0.05	1.80	2.9	0.02	<10	20	0.14	0.09	0.23	0.10	5.50	17.5	210
ZZ113380		0.32	<0.001	0.06	0.93	1.7	<0.02	<10	10	0.11	0.10	0.13	0.06	4.14	8.2	81
ZZ113381		0.36	<0.001	0.03	1.24	3.0	<0.02	<10	40	0.16	0.16	0.14	0.11	7.60	10.8	142
ZZ113382		0.26	<0.001	0.07	1.65	2.0	<0.02	<10	30	0.19	0.10	0.16	0.09	6.82	14.2	139
ZZ113383		0.52	<0.001	0.03	2.05	3.7	<0.02	<10	40	0.26	0.19	0.24	0.10	9.10	20.1	202
ZZ113384		0.44	<0.001	0.03	1.74	3.0	<0.02	<10	20	0.14	0.11	0.23	0.11	6.70	17.4	198
ZZ113385		0.25	<0.001	0.11	1.03	1.2	<0.02	<10	40	0.16	0.07	0.25	0.15	5.09	14.5	89
ZZ113386		0.43	<0.001	0.07	1.98	2.7	<0.02	<10	20	0.14	0.07	0.18	0.07	4.56	19.9	296
ZZ113387		0.82	<0.001	0.05	1.98	1.7	<0.02	<10	10	0.11	0.03	0.28	0.10	3.18	27.2	373
ZZ113388		0.49	<0.001	0.06	1.93	2.6	<0.02	<10	20	0.13	0.04	0.36	0.07	3.51	26.8	286
ZZ113389		0.46	<0.001	0.05	2.23	2.1	<0.02	<10	40	0.16	0.03	0.63	0.10	6.68	27.2	278
ZZ113390		0.59	<0.001	0.11	2.31	8.3	<0.02	<10	40	0.21	0.08	0.41	0.10	7.15	30.4	303
ZZ113391		0.64	<0.001	0.08	2.55	7.6	<0.02	<10	50	0.24	0.10	0.45	0.17	7.64	32.4	309
ZZ113392		0.62	<0.001	0.04	2.42	4.8	<0.02	<10	30	0.20	0.10	0.41	0.08	5.16	30.7	266
ZZ113393		0.36	<0.001	0.03	2.26	6.0	<0.02	<10	20	0.16	0.07	0.38	0.12	4.91	32.3	218
ZZ113394		0.24	<0.001	0.03	0.94	2.5	<0.02	<10	10	0.10	0.06	0.12	0.05	3.63	9.7	72
ZZ113395		0.55	<0.001	0.05	1.22	1.7	<0.02	<10	20	0.12	0.05	0.17	0.06	3.71	12.2	148
ZZ113396		0.51	<0.001	0.06	2.59	4.8	<0.02	<10	20	0.15	0.05	0.41	0.10	4.86	33.7	305
ZZ113397		0.42	<0.001	0.03	2.05	3.7	<0.02	<10	10	0.14	0.06	0.27	0.08	4.52	28.6	231
ZZ113398		0.51	<0.001	0.04	1.98	6.8	<0.02	<10	20	0.17	0.18	0.28	0.11	6.11	23.7	213
ZZ113399		0.51	0.001	0.04	2.01	3.6	<0.02	<10	20	0.15	0.08	0.28	0.10	6.50	22.0	265
ZZ113400		0.25	<0.001	0.05	0.66	1.2	<0.02	<10	20	0.09	0.06	0.15	0.05	3.91	8.5	43
ZZ113401		0.59	<0.001	0.05	1.78	2.0	<0.02	<10	10	0.13	0.04	0.32	0.06	3.70	25.4	199
ZZ113402		0.48	<0.001	0.05	1.83	3.2	<0.02	<10	10	0.14	0.06	0.34	0.08	6.47	25.9	182
ZZ113403		0.40	<0.001	0.04	1.82	4.4	<0.02	<10	40	0.22	0.13	0.29	0.08	11.40	20.4	123
ZZ113404		0.32	<0.001	0.04	1.69	3.5	<0.02	<10	10	0.10	0.07	0.23	0.10	3.89	25.1	96
ZZ113405		0.38	<0.001	0.01	0.29	0.5	<0.02	<10	<10	<0.05	0.05	0.08	0.02	2.51	2.9	39
ZZ113406		0.31	<0.001	0.08	1.25	3.0	<0.02	<10	10	0.08	0.11	0.17	0.09	6.05	13.1	174
ZZ113407		0.26	<0.001	0.09	1.06	2.5	<0.02	<10	130	0.20	0.14	1.38	0.39	9.87	22.3	142
ZZ113408		0.39	<0.001	0.06	1.52	2.6	<0.02	<10	40	0.20	0.10	0.44	0.09	7.31	17.2	153
ZZ113409		0.42	0.002	0.07	2.04	3.9	<0.02	<10	20	0.14	0.09	0.23	0.10	5.07	25.7	309
ZZ113410		0.54	0.001	0.07	1.73	4.3	<0.02	<10	40	0.20	0.08	0.31	0.10	12.90	19.3	187

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113371		1.16	44.4	1.34	3.10	<0.05	<0.02	0.02	0.008	0.02	2.1	6.5	1.07	149	0.36
ZZ113372		1.36	98.7	2.40	3.60	<0.05	0.02	0.02	0.013	0.02	2.1	15.3	2.28	347	0.27
ZZ113373		1.58	119.5	2.24	3.62	<0.05	<0.02	0.02	0.014	0.02	3.6	10.9	1.46	235	0.46
ZZ113374		1.46	56.8	1.51	4.91	<0.05	<0.02	0.02	0.014	0.03	5.3	3.7	0.46	135	0.64
ZZ113375		2.07	46.8	2.61	5.24	<0.05	0.02	0.03	0.018	0.02	4.8	13.2	1.22	272	0.61
ZZ113376		1.97	39.2	2.54	5.14	<0.05	0.02	0.02	0.014	0.02	3.1	10.9	1.48	240	0.49
ZZ113377		1.54	50.2	1.99	4.01	<0.05	<0.02	0.02	0.014	0.02	4.0	9.4	1.08	296	0.48
ZZ113378		1.32	53.1	1.87	3.59	<0.05	<0.02	0.02	0.011	0.02	2.9	9.7	1.47	274	0.38
ZZ113379		1.29	40.4	1.79	3.53	<0.05	<0.02	0.02	0.012	0.02	2.8	9.7	1.47	236	0.39
ZZ113380		0.75	21.8	1.28	3.10	<0.05	<0.02	0.02	0.009	0.02	2.3	4.4	0.57	105	0.41
ZZ113381		2.90	20.1	1.74	4.61	<0.05	<0.02	0.02	0.013	0.03	4.0	5.4	0.78	467	0.72
ZZ113382		1.31	25.7	1.73	4.05	<0.05	<0.02	0.02	0.014	0.03	3.4	8.4	1.06	512	0.53
ZZ113383		2.99	52.8	2.57	5.59	<0.05	<0.02	0.01	0.018	0.04	4.3	13.0	1.67	345	0.54
ZZ113384		1.17	66.9	2.13	4.36	<0.05	<0.02	0.01	0.012	0.03	3.3	9.6	1.54	317	0.42
ZZ113385		1.13	50.0	0.93	2.77	<0.05	<0.02	0.03	0.008	0.03	2.4	4.5	0.64	520	0.43
ZZ113386		2.07	121.5	1.75	3.46	<0.05	<0.02	0.02	0.009	0.02	2.4	13.5	2.12	287	0.25
ZZ113387		1.54	147.0	2.00	2.97	<0.05	<0.02	0.01	0.008	0.02	1.6	13.9	2.27	419	0.30
ZZ113388		1.71	162.0	2.17	3.40	<0.05	<0.02	0.01	0.010	0.02	1.7	15.7	2.30	434	0.26
ZZ113389		3.49	133.5	2.36	3.77	<0.05	0.03	0.01	0.013	0.03	2.9	24.5	2.77	516	0.29
ZZ113390		4.81	265	2.87	4.45	<0.05	<0.02	0.02	0.013	0.04	3.9	18.6	2.55	535	0.27
ZZ113391		5.60	206	3.08	4.80	<0.05	<0.02	0.02	0.016	0.05	4.0	21.9	2.58	623	0.32
ZZ113392		4.52	144.0	2.97	4.56	<0.05	<0.02	0.02	0.015	0.02	2.6	18.4	2.49	589	0.30
ZZ113393		2.10	128.0	2.75	3.95	<0.05	<0.02	0.02	0.012	0.02	2.4	16.0	2.20	488	0.31
ZZ113394		2.16	46.8	1.46	3.02	<0.05	<0.02	0.03	0.010	0.02	1.8	5.3	0.67	208	0.29
ZZ113395		2.53	53.3	1.48	3.26	<0.05	<0.02	0.02	0.009	0.02	1.9	8.6	1.04	265	0.24
ZZ113396		3.20	180.0	3.78	5.50	0.07	0.02	0.03	0.020	0.03	2.2	21.3	2.85	707	0.87
ZZ113397		4.45	105.0	2.99	4.49	<0.05	<0.02	0.03	0.013	0.02	2.3	15.4	2.00	454	0.51
ZZ113398		3.41	101.0	2.47	3.69	<0.05	<0.02	0.02	0.012	0.02	3.0	14.9	1.87	439	0.37
ZZ113399		2.90	99.9	2.27	3.95	<0.05	<0.02	0.02	0.011	0.02	3.2	14.5	1.91	374	0.45
ZZ113400		2.09	32.8	0.99	2.51	<0.05	<0.02	0.03	0.006	0.03	2.0	3.9	0.44	218	0.44
ZZ113401		1.45	120.0	2.19	3.27	<0.05	<0.02	0.01	0.008	0.02	1.7	13.1	2.05	441	0.36
ZZ113402		0.83	141.0	2.62	3.20	<0.05	<0.02	0.01	0.009	0.02	3.2	10.4	1.80	352	0.48
ZZ113403		3.38	204	2.43	4.56	<0.05	<0.02	0.02	0.017	0.03	6.0	10.4	1.22	447	0.51
ZZ113404		1.16	70.3	2.45	3.78	<0.05	<0.02	0.02	0.010	0.02	2.0	7.9	1.58	422	0.48
ZZ113405		0.37	5.3	0.53	1.63	<0.05	<0.02	0.02	<0.005	0.01	1.4	1.1	0.18	40	0.19
ZZ113406		1.78	35.9	2.14	3.74	<0.05	<0.02	0.03	0.010	0.02	3.1	5.1	0.97	160	0.59
ZZ113407		4.76	395	1.27	3.13	<0.05	<0.02	0.07	0.015	0.02	4.3	3.7	0.43	2010	0.98
ZZ113408		3.63	215	1.61	3.51	<0.05	<0.02	0.03	0.012	0.02	3.7	8.7	1.14	182	0.57
ZZ113409		1.36	81.7	2.46	3.74	<0.05	<0.02	0.03	0.011	0.02	2.5	10.4	1.98	392	0.85
ZZ113410		2.51	83.8	2.02	3.63	<0.05	<0.02	0.02	0.013	0.03	6.9	9.2	1.46	341	0.74

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ113371		0.27	48.3	400	1.9	3.6	<0.001	0.04	0.15	0.9	0.3	0.2	8.8	<0.01	0.01
ZZ113372		0.47	102.0	270	1.4	2.9	<0.001	0.01	0.23	4.7	0.5	0.2	13.1	<0.01	0.02
ZZ113373		0.52	63.8	380	1.5	2.6	<0.001	0.03	0.34	2.5	0.6	0.2	11.3	<0.01	0.02
ZZ113374		0.69	19.4	560	5.1	2.9	<0.001	0.06	0.46	1.0	0.3	0.7	8.7	<0.01	0.03
ZZ113375		1.29	55.1	300	3.5	2.9	<0.001	0.02	0.35	3.9	0.5	0.4	10.6	0.01	0.02
ZZ113376		1.14	63.7	190	2.4	2.5	<0.001	0.01	0.33	3.6	0.3	0.4	10.1	<0.01	0.02
ZZ113377		0.47	47.4	370	3.2	3.8	<0.001	0.03	0.29	1.7	0.4	0.3	10.7	<0.01	0.02
ZZ113378		0.43	70.2	340	2.1	3.6	<0.001	0.03	0.22	1.8	0.5	0.3	10.3	<0.01	0.02
ZZ113379		0.37	74.3	280	2.2	3.6	<0.001	0.03	0.25	1.7	0.4	0.2	11.1	<0.01	0.02
ZZ113380		0.27	29.1	420	2.0	2.1	<0.001	0.05	0.20	0.6	0.3	0.2	7.8	<0.01	0.02
ZZ113381		0.66	39.4	510	3.5	9.3	<0.001	0.06	0.37	1.1	0.5	0.5	9.3	<0.01	0.03
ZZ113382		0.32	47.4	550	2.2	4.4	<0.001	0.06	0.21	0.9	0.4	0.2	9.1	<0.01	0.02
ZZ113383		0.86	72.8	270	3.5	4.7	<0.001	0.04	0.31	3.3	0.5	0.4	11.8	<0.01	0.03
ZZ113384		0.59	69.7	280	2.4	3.6	<0.001	0.03	0.26	2.3	0.5	0.3	11.5	<0.01	0.02
ZZ113385		0.27	32.7	820	1.9	3.8	<0.001	0.08	0.15	0.5	0.3	0.2	10.7	<0.01	0.03
ZZ113386		0.30	109.5	440	1.6	3.1	<0.001	0.03	0.19	1.7	0.4	0.2	9.5	<0.01	0.02
ZZ113387		0.19	113.0	460	0.8	2.6	<0.001	0.02	0.22	2.6	0.5	<0.2	12.9	<0.01	0.03
ZZ113388		0.28	93.4	300	1.0	2.4	<0.001	0.02	0.28	5.4	0.4	<0.2	14.6	<0.01	0.01
ZZ113389		0.27	98.4	430	0.8	2.2	<0.001	0.02	0.31	8.8	0.4	0.2	31.4	<0.01	0.01
ZZ113390		0.40	94.8	480	1.8	4.8	<0.001	0.02	0.34	9.4	0.7	0.2	15.2	<0.01	0.02
ZZ113391		0.28	106.0	870	2.2	9.3	<0.001	0.03	0.37	5.6	0.5	0.3	15.5	<0.01	0.03
ZZ113392		0.28	98.5	500	1.5	2.6	<0.001	0.04	0.32	5.7	0.4	0.2	12.7	<0.01	0.03
ZZ113393		0.43	99.4	370	1.3	3.3	<0.001	0.02	0.33	4.6	0.5	0.2	13.2	<0.01	0.02
ZZ113394		0.21	28.6	500	1.4	2.1	<0.001	0.05	0.20	1.1	0.3	0.2	7.4	<0.01	0.02
ZZ113395		0.17	42.7	500	1.2	2.6	<0.001	0.05	0.23	1.3	0.3	0.2	9.4	<0.01	0.02
ZZ113396		0.23	91.5	600	1.5	2.7	<0.001	0.02	0.41	10.6	0.7	0.2	12.5	<0.01	0.01
ZZ113397		0.31	82.4	430	1.3	2.6	<0.001	0.03	0.31	3.5	0.4	0.2	9.8	<0.01	0.02
ZZ113398		0.29	82.9	440	1.4	3.3	<0.001	0.03	0.31	2.5	0.5	0.2	11.1	<0.01	0.02
ZZ113399		0.35	85.3	420	1.7	3.5	<0.001	0.03	0.37	2.6	0.5	0.2	14.1	<0.01	0.02
ZZ113400		0.21	16.4	560	1.4	3.0	<0.001	0.06	0.17	0.6	0.3	<0.2	8.3	<0.01	0.01
ZZ113401		0.26	66.9	290	0.8	1.7	<0.001	0.01	0.32	6.0	0.5	<0.2	11.9	<0.01	0.02
ZZ113402		0.33	68.3	600	1.4	2.2	<0.001	0.02	0.33	3.0	0.6	0.2	11.8	<0.01	0.03
ZZ113403		0.63	47.0	500	3.5	4.9	<0.001	0.03	0.35	3.1	0.7	0.4	13.0	<0.01	0.03
ZZ113404		0.41	48.4	410	1.5	3.3	<0.001	0.04	0.33	2.6	0.5	0.2	9.3	<0.01	0.02
ZZ113405		0.12	7.8	130	1.3	1.1	<0.001	0.01	0.11	0.4	<0.2	0.2	5.5	<0.01	0.01
ZZ113406		0.38	51.1	530	2.0	5.7	<0.001	0.05	0.27	0.9	0.5	0.3	8.6	<0.01	0.03
ZZ113407		0.69	33.4	1380	4.8	4.2	<0.001	0.17	0.35	1.6	0.8	0.4	23.0	0.01	0.02
ZZ113408		0.36	80.9	850	2.6	3.2	<0.001	0.09	0.23	1.3	0.5	0.2	14.1	<0.01	0.02
ZZ113409		0.40	132.5	390	1.7	3.8	<0.001	0.05	0.26	1.6	0.4	0.2	10.2	<0.01	0.03
ZZ113410		0.50	85.2	390	2.6	3.6	<0.001	0.03	0.32	2.6	0.6	0.2	11.8	<0.01	0.03

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Finalized Date: 30- JUL- 2017
Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113371		0.056	0.03	0.26	29	0.13	1.29	21	<0.5
ZZ113372		0.108	0.04	0.17	49	0.23	3.10	32	0.6
ZZ113373		0.088	0.04	0.32	51	0.28	2.69	30	<0.5
ZZ113374		0.061	0.07	0.44	48	0.24	2.75	20	<0.5
ZZ113375		0.143	0.08	0.39	62	0.32	3.42	28	0.6
ZZ113376		0.191	0.05	0.26	65	0.33	2.38	26	0.6
ZZ113377		0.074	0.06	0.32	47	0.25	2.40	29	<0.5
ZZ113378		0.087	0.04	0.29	41	0.18	2.27	27	<0.5
ZZ113379		0.077	0.04	0.28	37	0.25	1.97	23	<0.5
ZZ113380		0.047	0.03	0.41	31	0.19	1.40	15	<0.5
ZZ113381		0.088	0.05	0.47	47	0.19	1.73	33	<0.5
ZZ113382		0.058	0.07	0.46	36	0.16	2.46	27	<0.5
ZZ113383		0.154	0.07	0.43	53	0.30	3.96	39	0.9
ZZ113384		0.132	0.04	0.37	44	0.25	2.53	31	<0.5
ZZ113385		0.025	0.04	0.40	16	0.13	1.67	22	<0.5
ZZ113386		0.042	0.04	0.23	29	0.17	1.78	25	<0.5
ZZ113387		0.052	0.02	0.15	34	0.08	2.15	38	<0.5
ZZ113388		0.066	0.03	0.13	45	0.11	2.65	28	<0.5
ZZ113389		0.071	0.04	0.11	55	0.34	4.75	35	0.8
ZZ113390		0.087	0.06	0.27	65	0.18	6.83	40	<0.5
ZZ113391		0.068	0.05	0.31	61	0.19	5.69	55	<0.5
ZZ113392		0.061	0.04	0.21	65	0.15	4.20	38	<0.5
ZZ113393		0.124	0.04	0.16	60	0.17	3.60	35	<0.5
ZZ113394		0.047	0.03	0.23	39	0.08	1.79	18	<0.5
ZZ113395		0.043	0.04	0.21	40	0.10	1.77	21	<0.5
ZZ113396		0.127	0.06	0.20	92	0.13	7.31	48	0.6
ZZ113397		0.106	0.02	0.17	71	0.23	3.03	37	<0.5
ZZ113398		0.084	0.03	0.24	49	0.19	2.93	34	<0.5
ZZ113399		0.098	0.04	0.29	48	0.19	2.85	31	<0.5
ZZ113400		0.038	0.03	0.28	25	0.07	1.67	18	<0.5
ZZ113401		0.135	0.03	0.13	47	0.13	4.56	26	<0.5
ZZ113402		0.121	0.02	0.22	45	0.25	3.66	29	<0.5
ZZ113403		0.115	0.06	0.44	54	0.26	5.73	37	<0.5
ZZ113404		0.176	0.02	0.23	53	0.09	2.14	29	<0.5
ZZ113405		0.040	<0.02	0.09	20	0.05	0.44	8	<0.5
ZZ113406		0.082	0.04	0.26	46	0.23	1.76	23	<0.5
ZZ113407		0.039	0.10	0.37	27	0.17	4.16	27	<0.5
ZZ113408		0.031	0.04	0.45	28	0.15	3.08	29	<0.5
ZZ113409		0.102	0.03	0.27	40	0.20	2.60	29	<0.5
ZZ113410		0.059	0.05	0.51	39	0.27	4.02	39	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113411		0.33	<0.001	0.06	1.21	3.5	<0.02	<10	90	0.20	0.15	0.40	0.19	7.77	17.3	91
ZZ113412		0.38	<0.001	0.05	1.39	4.4	<0.02	<10	90	0.20	0.28	0.14	0.18	14.70	9.4	57
ZZ113413		0.40	<0.001	0.10	1.83	1.0	<0.02	<10	60	0.17	0.07	0.47	0.05	6.65	19.1	206
ZZ113414		0.39	<0.001	0.36	2.38	2.9	<0.02	<10	70	0.73	0.12	0.58	0.08	20.8	16.8	188
ZZ113415		0.43	<0.001	0.05	1.60	4.5	<0.02	<10	80	0.25	0.16	0.25	0.10	11.65	10.5	60
ZZ113416		0.49	<0.001	0.06	1.97	7.7	<0.02	<10	100	0.34	0.16	0.36	0.13	13.90	17.3	84
ZZ113417		0.55	<0.001	0.04	1.86	7.6	<0.02	<10	190	0.43	0.20	0.50	0.17	19.10	15.6	57
ZZ113418		0.38	<0.001	0.24	1.64	6.6	<0.02	<10	220	0.37	0.17	0.67	0.23	15.20	8.6	42
ZZ113419		0.42	0.004	0.25	2.15	11.5	<0.02	<10	120	0.54	0.23	0.30	0.63	25.1	16.1	60
ZZ113420		0.35	<0.001	0.11	1.13	5.1	<0.02	<10	120	0.24	0.14	0.22	0.39	11.20	8.7	30
ZZ113421		0.55	0.001	0.03	0.91	3.6	<0.02	<10	20	0.12	0.22	0.12	0.06	12.00	5.6	41
ZZ113422		0.36	<0.001	0.01	1.80	3.4	<0.02	<10	20	0.19	0.10	0.36	0.09	10.15	18.0	148
ZZ113423		0.41	<0.001	0.01	0.81	3.0	<0.02	<10	20	0.07	0.23	0.10	0.05	10.00	4.6	47
ZZ113424		0.50	<0.001	0.06	1.55	3.8	<0.02	<10	30	0.13	0.24	0.20	0.08	10.55	11.5	111
ZZ113425		0.48	<0.001	0.04	1.46	3.3	<0.02	<10	50	0.20	0.27	0.29	0.10	10.25	13.5	116
ZZ113426		0.41	<0.001	0.09	2.14	4.4	<0.02	<10	90	0.35	0.18	0.35	0.11	10.70	17.6	157
ZZ113427		0.43	<0.001	0.04	1.44	3.6	<0.02	<10	20	0.19	0.14	0.31	0.12	11.05	14.3	114
ZZ113428		0.37	0.126	0.71	1.55	622	0.11	<10	380	0.65	0.03	0.70	0.19	7.47	80.7	28
ZZ113429		0.40	0.010	0.15	1.94	29.8	<0.02	<10	250	0.70	0.04	1.10	0.20	19.10	44.3	107
ZZ113430		0.29	0.018	0.10	1.43	29.5	<0.02	<10	230	0.84	0.04	1.44	0.23	21.9	41.0	56
ZZ113431		0.43	<0.001	0.08	1.48	11.8	<0.02	<10	160	0.34	0.13	0.52	0.26	17.40	17.1	69
ZZ113432		0.43	<0.001	0.10	1.37	6.4	<0.02	<10	180	0.24	0.16	0.46	0.27	17.85	17.0	79
ZZ113433		0.46	<0.001	0.06	1.60	5.2	<0.02	<10	70	0.21	0.10	0.37	0.14	11.05	18.5	101
ZZ113434		0.26	<0.001	0.06	2.01	4.1	<0.02	<10	70	0.18	0.13	0.42	0.10	7.94	20.8	172
ZZ113435		0.37	0.001	0.03	1.30	3.5	<0.02	<10	40	0.19	0.11	0.35	0.12	12.40	16.6	99
ZZ113436		0.43	<0.001	0.05	2.08	3.7	<0.02	<10	50	0.19	0.11	0.28	0.08	7.22	17.6	160
ZZ113437		0.48	<0.001	0.04	1.93	1.7	<0.02	<10	40	0.16	0.10	0.29	0.07	7.17	15.3	180
ZZ113438		0.42	<0.001	0.04	1.81	2.6	<0.02	<10	40	0.14	1.38	0.24	0.08	5.99	18.7	173
ZZ113439		0.27	0.002	0.01	1.95	6.7	<0.02	<10	40	0.24	0.15	0.17	0.11	11.70	12.8	107
ZZ113440		0.38	0.001	0.03	2.01	2.7	<0.02	<10	20	0.18	0.09	0.25	0.14	7.22	21.9	185
ZZ113441		0.20	<0.001	0.05	0.60	0.6	<0.02	<10	10	0.08	0.04	0.07	0.02	3.86	2.5	22
ZZ113442		0.33	<0.001	0.02	1.89	3.1	<0.02	<10	50	0.27	0.11	0.18	0.12	12.95	18.8	170
ZZ113443		0.18	0.001	0.09	1.79	1.7	<0.02	<10	20	0.11	0.07	0.15	0.10	4.82	22.2	266
ZZ113444		0.29	0.005	0.04	1.94	2.5	<0.02	<10	20	0.18	0.10	0.16	0.08	6.34	23.7	252
ZZ113445		0.41	<0.001	0.04	1.84	2.0	<0.02	<10	10	0.11	0.06	0.22	0.06	6.11	21.6	272
ZZ113446		0.42	0.002	0.04	1.42	2.1	<0.02	<10	10	0.09	0.04	0.32	0.07	4.75	23.4	254
ZZ113447		0.45	0.002	0.10	1.43	2.7	<0.02	<10	30	0.07	0.03	0.40	0.09	2.56	37.0	246
ZZ113448		0.25	0.001	0.08	1.59	1.9	<0.02	<10	20	0.12	0.05	0.21	0.07	5.38	15.6	228
ZZ113449		0.27	0.001	0.09	1.73	1.8	<0.02	<10	40	0.14	0.07	0.54	0.09	5.23	20.3	322
ZZ113450		0.34	<0.001	0.03	1.50	2.4	<0.02	<10	10	0.11	0.06	0.29	0.12	4.33	20.0	186

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113411		2.05	31.1	1.82	4.38	<0.05	<0.02	0.02	0.013	0.03	4.1	6.8	0.69	723	1.01
ZZ113412		1.59	38.7	2.32	5.74	<0.05	<0.02	0.02	0.017	0.04	7.1	7.7	0.58	209	0.83
ZZ113413		1.69	171.5	1.80	3.27	<0.05	0.02	0.02	0.010	0.02	3.9	9.8	1.72	275	0.28
ZZ113414		2.13	208	2.53	5.68	0.06	0.06	0.03	0.024	0.05	10.2	14.4	2.13	299	0.54
ZZ113415		1.90	32.1	2.26	5.12	<0.05	<0.02	0.02	0.017	0.04	5.3	9.7	0.85	392	0.66
ZZ113416		1.73	53.2	3.04	5.48	<0.05	<0.02	0.01	0.022	0.05	6.5	13.2	1.25	450	0.92
ZZ113417		2.17	30.2	2.85	5.23	<0.05	0.02	0.01	0.022	0.06	9.1	13.7	1.10	626	0.83
ZZ113418		3.55	45.7	2.05	4.67	<0.05	0.04	0.03	0.019	0.05	8.5	10.2	0.72	410	1.08
ZZ113419		2.26	49.2	3.52	6.17	0.05	<0.02	0.03	0.034	0.07	11.9	17.4	1.33	507	8.18
ZZ113420		2.99	16.6	1.91	4.39	<0.05	<0.02	0.02	0.017	0.05	5.0	8.5	0.66	414	1.88
ZZ113421		2.70	12.1	1.35	5.53	<0.05	<0.02	0.02	0.014	0.03	6.0	4.4	0.33	211	0.65
ZZ113422		1.42	39.9	2.32	3.78	0.05	<0.02	0.02	0.014	0.03	4.7	13.6	1.39	366	0.32
ZZ113423		2.34	8.9	1.37	6.64	<0.05	<0.02	0.01	0.013	0.03	5.0	3.2	0.28	202	0.72
ZZ113424		2.31	26.3	2.12	6.48	<0.05	<0.02	0.02	0.015	0.05	5.3	8.7	0.90	226	0.72
ZZ113425		1.61	34.6	2.02	3.92	<0.05	<0.02	0.01	0.013	0.04	4.9	11.7	1.10	284	0.38
ZZ113426		2.75	63.0	2.62	5.37	<0.05	<0.02	0.01	0.020	0.05	5.1	18.3	1.50	439	0.46
ZZ113427		1.38	26.8	2.12	3.92	<0.05	<0.02	0.01	0.014	0.03	5.4	11.5	1.07	277	0.51
ZZ113428		27.4	166.0	12.35	7.91	0.06	0.05	0.19	0.074	0.14	3.0	15.1	1.45	1600	0.58
ZZ113429		74.4	83.9	6.56	5.39	0.07	0.09	0.06	0.075	0.22	8.1	25.5	1.38	1620	0.20
ZZ113430		66.8	108.0	6.85	3.91	0.07	0.06	0.12	0.088	0.20	9.0	17.5	0.77	1840	0.19
ZZ113431		9.53	53.5	3.29	4.49	0.05	0.02	0.02	0.024	0.08	8.2	14.9	1.05	525	0.75
ZZ113432		1.69	51.1	2.35	3.65	0.06	0.03	0.01	0.016	0.05	9.8	10.0	1.12	488	0.91
ZZ113433		1.60	70.9	2.38	3.73	<0.05	<0.02	0.01	0.015	0.04	6.0	10.2	1.37	365	0.54
ZZ113434		1.98	73.1	2.76	4.85	<0.05	<0.02	0.01	0.012	0.04	3.9	11.0	1.78	418	0.51
ZZ113435		0.78	36.7	1.90	2.96	<0.05	<0.02	0.01	0.011	0.02	6.2	7.9	1.11	325	0.39
ZZ113436		1.70	56.4	2.41	4.95	<0.05	<0.02	0.01	0.016	0.04	3.6	11.9	1.75	311	0.38
ZZ113437		1.14	53.0	2.00	3.74	<0.05	<0.02	0.02	0.012	0.03	3.7	10.7	1.67	228	0.25
ZZ113438		1.03	57.8	2.11	3.46	<0.05	<0.02	0.01	0.011	0.02	2.9	10.1	1.65	335	0.34
ZZ113439		1.58	33.4	2.35	5.06	<0.05	<0.02	0.02	0.016	0.03	5.6	11.1	1.01	344	0.58
ZZ113440		1.09	79.7	2.15	3.57	<0.05	<0.02	0.01	0.012	0.03	3.0	10.3	1.78	395	0.33
ZZ113441		0.45	12.8	0.58	2.06	<0.05	<0.02	0.01	0.005	0.02	1.9	1.5	0.19	50	0.22
ZZ113442		1.43	70.4	1.98	3.79	<0.05	<0.02	0.02	0.015	0.02	6.8	10.2	1.22	482	0.48
ZZ113443		1.64	109.5	1.88	3.62	<0.05	<0.02	0.02	0.009	0.03	2.2	8.5	2.03	261	0.37
ZZ113444		2.06	86.3	2.06	4.06	<0.05	<0.02	0.02	0.012	0.03	2.9	10.5	2.02	407	0.39
ZZ113445		1.49	175.0	1.42	2.89	<0.05	<0.02	0.01	0.008	0.02	2.9	10.0	1.99	261	0.35
ZZ113446		1.11	110.5	1.45	2.12	<0.05	<0.02	0.01	0.006	0.02	2.2	8.5	1.62	253	0.55
ZZ113447		1.61	138.0	1.53	1.76	<0.05	0.02	0.01	0.005	0.02	1.3	8.8	1.78	268	0.32
ZZ113448		1.94	133.5	1.38	2.77	<0.05	<0.02	0.02	0.006	0.02	2.6	10.3	1.66	201	0.31
ZZ113449		2.70	116.5	1.94	3.45	<0.05	<0.02	0.04	0.009	0.02	2.4	12.4	1.78	463	0.45
ZZ113450		1.33	76.0	1.86	3.03	<0.05	<0.02	0.03	0.012	0.02	2.1	11.4	1.62	350	0.39

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ113411		0.32	31.5	1030	4.1	8.8	<0.001	0.09	0.30	0.5	0.4	0.4	12.5	<0.01	0.04
ZZ113412		0.66	24.7	470	5.6	5.0	<0.001	0.05	0.34	1.3	0.5	0.5	11.9	<0.01	0.04
ZZ113413		0.25	67.2	610	1.6	3.4	<0.001	0.07	0.19	3.3	1.2	<0.2	13.1	<0.01	0.01
ZZ113414		2.14	83.0	850	4.0	5.5	0.001	0.07	0.29	7.8	1.6	0.8	16.8	<0.01	0.02
ZZ113415		0.40	25.6	770	4.1	5.9	<0.001	0.05	0.28	1.2	0.3	0.3	12.2	<0.01	0.03
ZZ113416		0.58	39.6	640	4.3	6.0	<0.001	0.03	0.31	2.9	0.6	0.3	14.5	<0.01	0.04
ZZ113417		0.65	34.3	700	5.6	7.4	<0.001	0.04	0.37	3.7	0.8	0.3	19.3	<0.01	0.03
ZZ113418		0.52	22.9	1520	4.7	7.1	<0.001	0.11	0.33	1.8	0.9	0.3	21.0	<0.01	0.02
ZZ113419		0.68	49.4	940	9.1	9.6	<0.001	0.03	0.61	3.3	2.1	0.4	16.0	<0.01	0.07
ZZ113420		0.33	15.6	740	5.3	12.7	<0.001	0.05	0.25	0.9	0.5	0.3	13.5	<0.01	0.03
ZZ113421		0.79	13.1	400	6.1	6.0	<0.001	0.02	0.29	1.0	0.3	0.6	8.4	<0.01	0.02
ZZ113422		0.89	54.4	360	2.7	2.9	<0.001	0.01	0.31	4.0	0.3	0.3	10.0	<0.01	0.01
ZZ113423		1.05	13.0	370	6.4	6.5	<0.001	0.02	0.31	1.2	0.2	0.9	7.2	<0.01	0.02
ZZ113424		0.81	37.9	360	5.2	6.5	<0.001	0.02	0.33	2.0	0.2	0.7	9.4	<0.01	0.02
ZZ113425		0.67	44.7	360	3.1	4.7	<0.001	0.01	0.27	3.6	0.3	0.4	11.2	<0.01	0.01
ZZ113426		0.72	61.9	390	3.8	7.6	<0.001	0.02	0.31	4.6	0.4	0.6	13.8	<0.01	0.02
ZZ113427		0.85	42.6	300	3.0	4.0	<0.001	0.01	0.29	3.3	0.3	0.3	11.0	<0.01	0.01
ZZ113428		0.07	111.5	490	2.8	19.1	<0.001	0.13	19.00	59.7	0.7	0.3	18.2	<0.01	0.03
ZZ113429		0.07	105.5	2890	2.5	33.9	<0.001	0.03	3.32	33.0	1.6	0.4	22.2	<0.01	0.01
ZZ113430		0.09	61.1	2030	2.9	37.8	<0.001	0.05	3.42	34.6	1.7	0.3	18.7	<0.01	0.01
ZZ113431		0.55	42.4	960	4.9	10.0	<0.001	0.02	1.05	5.9	0.7	0.3	18.2	<0.01	0.03
ZZ113432		0.45	39.1	810	3.6	4.2	<0.001	0.01	0.49	5.2	0.7	0.3	17.5	<0.01	0.03
ZZ113433		0.45	49.4	580	2.7	4.2	<0.001	0.01	0.30	4.5	0.6	0.2	13.5	<0.01	0.02
ZZ113434		0.49	64.7	430	2.5	4.7	<0.001	0.03	0.30	3.8	0.6	0.3	12.2	<0.01	0.02
ZZ113435		0.50	43.6	430	2.4	2.4	<0.001	0.01	0.22	3.8	0.4	0.2	12.7	<0.01	0.01
ZZ113436		0.37	67.3	450	2.2	3.7	<0.001	0.03	0.21	3.3	0.5	0.2	12.3	<0.01	0.02
ZZ113437		0.36	70.9	440	1.8	2.5	<0.001	0.03	0.18	4.1	0.3	0.2	11.2	<0.01	0.01
ZZ113438		0.38	67.1	280	1.5	2.8	<0.001	0.03	0.20	3.4	0.5	0.2	10.7	<0.01	0.02
ZZ113439		0.62	38.5	460	4.1	4.8	<0.001	0.04	0.29	1.6	0.4	0.4	10.6	<0.01	0.05
ZZ113440		0.30	71.4	380	1.8	3.5	<0.001	0.02	0.20	3.0	0.5	0.2	10.6	<0.01	0.02
ZZ113441		0.09	7.2	490	1.4	1.7	<0.001	0.04	0.06	0.1	0.3	<0.2	6.1	<0.01	0.01
ZZ113442		0.40	60.3	650	3.2	4.0	<0.001	0.05	0.26	1.8	0.4	0.2	10.9	<0.01	0.03
ZZ113443		0.30	122.0	530	1.6	3.3	<0.001	0.03	0.12	1.3	0.4	0.2	8.9	<0.01	0.02
ZZ113444		0.23	86.1	550	1.6	4.3	<0.001	0.04	0.16	1.6	0.4	0.2	8.8	<0.01	0.03
ZZ113445		0.27	104.5	390	1.6	3.3	<0.001	0.02	0.14	1.7	0.3	<0.2	10.7	<0.01	0.02
ZZ113446		0.27	87.4	360	1.1	1.8	<0.001	0.01	0.19	2.5	0.2	<0.2	12.6	<0.01	0.02
ZZ113447		0.12	90.1	220	1.1	1.3	<0.001	0.02	0.23	2.9	0.2	<0.2	14.3	<0.01	0.04
ZZ113448		0.29	92.9	460	1.3	3.2	<0.001	0.04	0.15	1.3	0.4	<0.2	10.9	<0.01	0.02
ZZ113449		0.29	74.2	900	1.8	5.0	<0.001	0.07	0.23	3.0	0.4	0.2	14.8	<0.01	0.02
ZZ113450		0.24	60.2	440	1.3	2.2	<0.001	0.03	0.22	3.0	0.3	<0.2	12.5	<0.01	0.02

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113411		0.033	0.06	0.45	41	0.23	1.87	34	<0.5
ZZ113412		0.071	0.07	0.55	59	0.80	3.11	37	<0.5
ZZ113413		0.035	0.05	0.43	33	0.08	5.84	36	0.6
ZZ113414		0.134	0.07	1.17	62	0.47	11.00	48	3.1
ZZ113415		0.050	0.08	0.43	56	0.33	3.17	36	<0.5
ZZ113416		0.081	0.08	0.52	69	0.34	4.93	50	<0.5
ZZ113417		0.053	0.08	0.94	68	0.52	7.35	53	0.7
ZZ113418		0.030	0.10	1.59	48	0.31	8.64	55	1.1
ZZ113419		0.061	0.16	1.01	79	0.76	7.55	157	0.5
ZZ113420		0.038	0.09	0.48	49	0.33	2.74	55	<0.5
ZZ113421		0.098	0.06	0.47	47	0.30	1.93	23	<0.5
ZZ113422		0.149	0.04	0.46	57	0.29	4.64	34	<0.5
ZZ113423		0.128	0.06	0.33	54	0.21	1.40	20	<0.5
ZZ113424		0.134	0.08	0.45	63	0.27	2.59	34	<0.5
ZZ113425		0.103	0.06	0.47	53	0.32	3.87	38	<0.5
ZZ113426		0.084	0.09	0.73	65	0.33	4.72	48	<0.5
ZZ113427		0.110	0.05	0.62	51	0.29	3.95	31	<0.5
ZZ113428		0.043	2.01	0.15	493	0.99	15.00	95	1.0
ZZ113429		0.018	0.72	0.22	152	0.46	29.5	71	1.4
ZZ113430		0.008	1.07	0.21	137	0.39	33.7	80	1.0
ZZ113431		0.076	0.10	0.50	95	0.37	8.37	54	0.6
ZZ113432		0.108	0.08	0.47	58	0.50	10.45	47	1.2
ZZ113433		0.083	0.05	0.34	52	0.39	6.47	39	<0.5
ZZ113434		0.113	0.06	0.30	60	0.35	4.42	37	<0.5
ZZ113435		0.118	0.04	0.41	46	0.32	5.41	29	<0.5
ZZ113436		0.075	0.06	0.34	54	0.27	3.41	34	<0.5
ZZ113437		0.068	0.04	0.40	42	0.21	3.89	28	<0.5
ZZ113438		0.075	0.04	0.31	44	0.23	3.10	30	<0.5
ZZ113439		0.083	0.06	0.43	52	0.27	3.30	36	<0.5
ZZ113440		0.077	0.04	0.24	43	0.22	3.10	33	<0.5
ZZ113441		0.022	0.03	0.25	15	0.05	0.97	8	<0.5
ZZ113442		0.047	0.05	0.73	38	0.21	4.90	32	<0.5
ZZ113443		0.049	0.03	0.30	31	0.12	1.46	36	<0.5
ZZ113444		0.042	0.04	0.28	41	0.22	2.47	32	<0.5
ZZ113445		0.049	0.05	0.26	22	0.17	1.94	24	<0.5
ZZ113446		0.056	0.02	0.19	25	0.14	2.24	20	<0.5
ZZ113447		0.075	0.02	0.10	20	0.13	2.49	16	0.7
ZZ113448		0.041	0.04	0.23	23	0.11	1.53	24	<0.5
ZZ113449		0.043	0.03	0.22	44	0.16	2.66	25	<0.5
ZZ113450		0.061	0.02	0.16	43	0.17	2.06	26	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113451		0.41	<0.001	0.12	1.67	5.4	<0.02	<10	30	0.10	0.09	0.26	0.07	3.46	25.9	174
ZZ113452		0.32	0.001	0.04	2.61	5.1	<0.02	<10	30	0.18	0.07	0.39	0.06	5.11	36.0	246
ZZ113453		0.44	<0.001	0.04	1.75	4.5	<0.02	<10	20	0.19	0.07	0.37	0.10	6.06	27.1	195
ZZ113454		0.34	0.001	0.03	2.23	2.6	<0.02	<10	10	0.16	0.05	0.41	0.10	4.30	26.0	295
ZZ113455		0.42	0.002	0.05	2.57	7.4	<0.02	<10	20	0.19	0.07	0.51	0.11	6.52	36.2	298
ZZ113456		0.50	<0.001	0.03	1.84	2.8	<0.02	<10	10	0.09	0.04	0.37	0.06	3.15	26.5	252
ZZ113457		0.44	<0.001	0.03	1.50	2.9	<0.02	<10	20	0.14	0.08	0.24	0.07	7.34	13.2	139
ZZ113458		0.44	<0.001	0.03	1.76	2.3	<0.02	<10	20	0.13	0.06	0.28	0.09	4.60	20.7	199
ZZ113459		0.37	0.001	0.03	1.72	3.2	<0.02	<10	10	0.12	0.10	0.22	0.12	8.78	14.7	158
ZZ113460		0.33	0.001	0.03	1.82	3.1	<0.02	<10	20	0.14	0.09	0.23	0.15	6.62	15.1	175
ZZ113461		0.20	<0.001	0.06	0.58	0.9	<0.02	<10	20	0.10	0.05	0.16	0.05	4.51	3.5	26
ZZ113462		0.34	<0.001	0.04	1.68	3.7	<0.02	<10	10	0.08	0.08	0.26	0.11	5.46	15.1	187
ZZ113463		0.37	0.001	0.03	1.57	3.5	<0.02	<10	30	0.12	0.12	0.28	0.10	9.07	20.8	182
ZZ113464		0.35	<0.001	0.05	1.56	3.8	<0.02	<10	30	0.16	0.16	0.21	0.07	12.40	9.4	129
ZZ113465		0.41	<0.001	0.03	2.78	1.5	<0.02	<10	20	0.17	0.03	0.50	0.08	5.18	39.1	461
ZZ113466		0.38	0.001	0.03	2.09	2.4	<0.02	<10	40	0.16	0.07	0.30	0.06	6.71	21.1	255
ZZ113467		0.38	0.005	0.03	2.11	1.5	<0.02	<10	50	0.28	0.06	0.47	0.05	11.35	23.8	218
ZZ113468		0.43	<0.001	0.02	2.26	14.5	<0.02	<10	50	0.21	0.11	0.29	0.16	10.20	22.7	166
ZZ113469		0.37	0.001	0.16	2.52	16.6	<0.02	<10	30	0.21	0.06	0.39	0.12	9.62	36.8	191
ZZ113470		0.28	<0.001	0.14	1.66	2.8	<0.02	<10	70	0.13	0.13	0.24	0.12	8.70	9.1	91
ZZ113471		0.25	<0.001	0.09	1.20	3.2	<0.02	<10	30	0.12	0.09	0.15	0.08	6.48	7.3	61
ZZ113472		0.30	<0.001	0.04	2.17	7.6	<0.02	<10	120	0.40	0.16	0.33	0.28	20.0	20.1	69
ZZ113473		0.37	0.001	0.04	1.83	6.1	<0.02	<10	140	0.28	0.19	0.43	0.18	14.70	16.8	47
ZZ113474		0.33	<0.001	0.08	1.97	8.6	<0.02	<10	190	0.38	0.18	0.61	0.17	23.3	15.9	73
ZZ113475		0.33	<0.001	0.13	1.67	9.6	<0.02	<10	350	0.47	0.14	0.60	0.14	29.0	10.0	41
ZZ113476		0.31	0.001	0.08	1.99	10.6	<0.02	<10	140	0.48	0.15	0.30	0.22	22.1	12.4	49
ZZ113477		0.35	<0.001	0.23	1.65	10.6	<0.02	<10	250	0.44	0.16	0.61	0.16	17.30	8.1	45
ZZ113478		0.32	0.003	0.16	1.85	6.4	<0.02	<10	200	0.34	0.13	0.74	0.12	19.70	8.3	74
ZZ113479		0.27	<0.001	0.03	1.49	5.4	<0.02	<10	120	0.27	0.13	0.42	0.11	16.25	11.8	42
ZZ113480		0.33	0.002	0.04	1.46	6.0	<0.02	<10	70	0.42	0.12	0.31	0.16	20.1	9.8	34
ZZ113481		0.38	0.002	0.03	1.76	5.4	<0.02	<10	70	0.34	0.11	0.50	0.13	17.00	18.8	35
ZZ113482		0.40	0.002	0.05	1.69	6.6	<0.02	<10	80	0.27	0.12	0.40	0.22	18.45	13.7	39
ZZ113483		0.44	0.001	0.06	1.34	3.7	<0.02	<10	240	0.21	0.10	0.40	0.16	10.65	11.6	40
ZZ113484		0.32	0.001	0.04	1.55	4.0	<0.02	<10	100	0.28	0.10	0.34	0.16	12.30	22.6	92
ZZ113485		0.29	<0.001	0.07	1.43	5.5	<0.02	<10	70	0.33	0.10	0.26	0.15	11.80	13.6	55
ZZ113486		0.40	0.002	0.06	1.71	5.9	<0.02	<10	80	0.28	0.09	0.42	0.17	15.60	13.3	39
ZZ113487		0.30	0.001	0.05	1.32	9.2	<0.02	<10	90	0.33	0.09	0.34	0.16	14.75	12.1	38
ZZ113488		0.30	0.016	0.09	1.31	5.4	<0.02	<10	110	0.28	0.13	0.19	0.17	12.70	8.1	32
ZZ113489		0.26	0.005	0.07	1.51	6.3	<0.02	<10	90	0.32	0.12	0.29	0.18	16.10	9.3	38
ZZ113490		0.28	0.002	0.05	1.17	6.2	<0.02	<10	100	0.25	0.13	0.17	0.19	12.65	12.6	36

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113451		1.61	140.0	2.09	2.63	<0.05	<0.02	0.01	0.010	0.01	1.5	12.9	1.93	366	0.56
ZZ113452		3.89	200	3.30	4.77	<0.05	<0.02	0.01	0.016	0.02	2.4	19.1	2.73	777	0.30
ZZ113453		3.06	120.0	2.34	3.66	0.05	<0.02	0.01	0.012	0.02	3.0	12.0	1.68	432	0.40
ZZ113454		3.52	140.0	2.52	3.91	<0.05	<0.02	0.02	0.014	0.02	1.9	19.3	2.50	527	0.29
ZZ113455		3.75	203	4.32	5.01	0.06	<0.02	0.02	0.014	0.02	2.8	18.7	2.43	678	0.62
ZZ113456		1.94	124.0	1.91	2.99	<0.05	<0.02	0.01	0.007	0.02	1.5	17.5	2.28	386	0.26
ZZ113457		2.35	74.5	1.69	3.21	<0.05	<0.02	0.01	0.011	0.02	3.8	9.8	1.15	235	0.40
ZZ113458		3.57	65.7	2.32	3.75	<0.05	<0.02	0.02	0.010	0.02	2.3	11.7	1.69	429	0.45
ZZ113459		2.16	33.6	2.13	4.11	<0.05	<0.02	0.03	0.014	0.02	4.4	10.0	1.19	267	0.55
ZZ113460		4.05	48.8	2.98	4.38	<0.05	<0.02	0.03	0.014	0.02	3.3	8.4	1.33	291	0.61
ZZ113461		1.17	31.8	0.72	2.26	<0.05	<0.02	0.03	0.006	0.02	2.3	2.1	0.22	86	0.27
ZZ113462		0.92	45.9	2.07	3.35	<0.05	<0.02	0.02	0.009	0.01	2.9	8.3	1.34	196	0.49
ZZ113463		3.01	84.7	2.55	4.03	<0.05	<0.02	0.02	0.011	0.03	4.2	10.0	1.33	358	0.75
ZZ113464		1.66	29.8	2.02	5.35	<0.05	<0.02	0.04	0.015	0.03	6.3	8.0	0.87	180	0.78
ZZ113465		0.88	115.5	2.00	3.10	<0.05	<0.02	0.02	0.007	0.02	2.1	15.2	3.15	376	0.45
ZZ113466		0.67	64.6	2.54	3.84	<0.05	<0.02	0.01	0.010	0.02	3.3	11.3	2.05	307	0.32
ZZ113467		1.14	155.5	2.31	3.91	<0.05	0.03	0.01	0.012	0.02	5.5	11.4	2.30	312	0.44
ZZ113468		0.95	73.5	2.78	3.98	<0.05	<0.02	0.01	0.014	0.04	4.1	12.1	1.88	395	0.54
ZZ113469		2.05	365	2.88	4.87	<0.05	0.02	0.03	0.013	0.03	4.0	14.4	2.39	483	0.47
ZZ113470		1.65	40.0	2.16	5.01	<0.05	<0.02	0.02	0.014	0.04	4.4	9.3	0.93	273	0.71
ZZ113471		1.08	19.8	1.63	4.28	<0.05	<0.02	0.02	0.012	0.03	3.4	6.5	0.67	164	0.51
ZZ113472		3.11	86.7	3.45	5.50	<0.05	<0.02	0.01	0.023	0.06	8.4	14.0	1.25	667	1.02
ZZ113473		4.90	32.8	3.59	6.40	<0.05	<0.02	0.01	0.024	0.05	6.9	13.6	1.10	662	1.15
ZZ113474		10.20	57.9	3.16	5.54	<0.05	0.02	0.01	0.026	0.07	9.1	18.1	1.19	728	1.50
ZZ113475		11.90	24.8	3.08	5.27	<0.05	0.03	0.02	0.030	0.06	15.4	15.1	0.90	576	1.90
ZZ113476		6.43	31.7	3.36	5.97	<0.05	<0.02	0.02	0.027	0.08	11.7	13.4	1.09	375	2.97
ZZ113477		6.80	18.5	2.48	5.07	<0.05	0.03	0.03	0.025	0.06	11.8	14.2	0.81	274	1.96
ZZ113478		6.67	25.7	2.60	5.42	0.05	0.04	0.04	0.021	0.06	13.3	17.5	0.97	249	1.23
ZZ113479		5.40	28.0	2.84	5.16	<0.05	<0.02	0.01	0.021	0.06	6.8	12.3	0.86	558	0.49
ZZ113480		2.85	36.6	2.29	4.56	<0.05	<0.02	0.02	0.019	0.05	9.3	9.9	0.71	316	0.50
ZZ113481		3.01	259	3.62	5.60	<0.05	0.02	0.02	0.022	0.07	7.8	12.2	1.11	441	0.45
ZZ113482		3.16	53.6	3.16	5.57	<0.05	<0.02	0.02	0.023	0.07	7.9	12.0	0.84	427	0.48
ZZ113483		3.95	68.1	3.56	5.80	<0.05	<0.02	0.03	0.021	0.06	5.1	7.6	0.66	387	0.46
ZZ113484		3.20	22.4	4.83	6.55	<0.05	<0.02	0.02	0.022	0.05	5.6	11.9	0.96	351	0.35
ZZ113485		5.81	24.0	3.74	5.68	<0.05	<0.02	0.02	0.025	0.05	5.4	8.1	0.61	506	0.54
ZZ113486		5.31	41.8	3.36	4.79	<0.05	<0.02	0.01	0.021	0.07	7.1	10.8	0.80	449	0.32
ZZ113487		5.13	42.2	3.26	4.96	0.08	<0.02	0.02	0.020	0.06	6.5	8.7	0.60	453	0.54
ZZ113488		10.40	22.3	2.52	5.74	0.08	<0.02	0.02	0.017	0.06	6.4	5.4	0.37	577	0.67
ZZ113489		6.58	33.1	2.91	5.58	0.08	<0.02	0.02	0.023	0.06	7.7	10.3	0.58	335	0.54
ZZ113490		4.84	22.8	3.10	5.61	0.07	<0.02	0.03	0.020	0.06	5.9	6.9	0.40	1160	0.57

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ113451		0.25	81.5	240	1.3	1.4	<0.001	0.03	0.29	4.5	0.3	<0.2	11.4	<0.01	0.04
ZZ113452		0.26	95.4	510	1.5	2.2	<0.001	0.03	0.29	8.5	0.4	<0.2	13.0	<0.01	0.03
ZZ113453		0.32	82.0	510	1.4	2.1	<0.001	0.02	0.30	4.7	0.3	0.2	14.3	<0.01	0.02
ZZ113454		0.23	101.0	480	0.9	2.7	<0.001	0.03	0.47	6.4	0.3	<0.2	13.8	<0.01	0.02
ZZ113455		0.21	93.1	1540	1.3	3.3	<0.001	0.05	0.40	4.0	0.9	0.2	10.4	<0.01	0.05
ZZ113456		0.21	111.5	240	0.7	1.7	<0.001	0.01	0.25	3.7	0.2	<0.2	12.3	<0.01	0.03
ZZ113457		0.36	55.6	420	1.6	2.7	<0.001	0.03	0.25	1.7	0.4	0.2	10.3	<0.01	0.03
ZZ113458		0.37	71.3	330	1.3	2.4	<0.001	0.03	0.30	2.6	0.4	0.2	11.6	<0.01	0.04
ZZ113459		0.53	52.7	340	2.1	3.2	<0.001	0.03	0.28	1.7	0.3	0.3	10.7	<0.01	0.02
ZZ113460		0.66	54.6	500	1.7	2.6	<0.001	0.04	0.31	1.9	0.4	0.3	9.8	<0.01	0.04
ZZ113461		0.15	8.4	690	1.0	1.6	<0.001	0.05	0.11	0.2	<0.2	<0.2	8.5	<0.01	0.01
ZZ113462		0.39	66.3	320	1.5	2.2	<0.001	0.03	0.25	1.8	0.5	0.2	11.8	<0.01	0.01
ZZ113463		0.71	67.7	270	2.6	3.3	<0.001	0.02	0.29	2.5	0.3	0.3	12.4	<0.01	0.03
ZZ113464		0.81	39.6	420	4.3	3.5	<0.001	0.03	0.30	1.6	0.5	0.5	10.9	<0.01	0.03
ZZ113465		0.22	147.5	260	0.7	1.5	<0.001	0.02	0.23	3.0	0.2	<0.2	17.9	<0.01	0.01
ZZ113466		0.36	91.9	220	1.3	1.9	<0.001	0.02	0.18	2.8	0.3	0.2	11.4	<0.01	0.03
ZZ113467		0.89	106.0	460	1.8	2.8	<0.001	0.02	0.17	4.2	0.5	0.4	13.9	<0.01	0.02
ZZ113468		0.59	76.9	240	2.2	3.6	<0.001	0.02	0.26	3.4	0.4	0.2	11.9	<0.01	0.05
ZZ113469		0.34	104.0	590	1.4	2.4	<0.001	0.05	0.36	6.5	0.7	<0.2	9.4	<0.01	0.04
ZZ113470		0.41	26.9	550	3.0	4.5	<0.001	0.05	0.19	1.4	0.2	0.4	11.4	<0.01	0.02
ZZ113471		0.38	21.3	370	2.5	2.9	<0.001	0.03	0.16	1.3	0.4	0.3	8.5	<0.01	0.04
ZZ113472		0.41	40.4	630	5.7	6.4	<0.001	0.04	0.31	3.0	0.8	0.3	18.9	<0.01	0.05
ZZ113473		0.44	21.7	860	5.7	5.9	<0.001	0.05	0.30	2.5	0.6	0.4	14.4	<0.01	0.07
ZZ113474		0.42	30.9	1190	6.3	7.2	<0.001	0.07	0.42	4.2	0.8	0.4	21.2	<0.01	0.03
ZZ113475		0.37	20.6	930	6.5	7.1	<0.001	0.05	0.64	3.4	0.8	0.3	20.6	<0.01	0.04
ZZ113476		0.40	29.3	790	5.3	8.5	<0.001	0.04	0.62	2.8	0.9	0.4	15.2	<0.01	0.05
ZZ113477		0.63	21.9	900	5.0	6.4	<0.001	0.07	0.47	3.9	1.1	0.4	24.4	<0.01	0.03
ZZ113478		0.65	20.3	1230	4.4	5.7	<0.001	0.10	0.53	4.9	1.1	0.3	22.8	<0.01	0.03
ZZ113479		0.42	22.5	630	3.8	6.8	<0.001	0.04	0.41	2.8	0.2	0.3	21.6	<0.01	0.04
ZZ113480		0.47	19.5	790	3.9	5.8	<0.001	0.03	0.43	2.7	0.7	0.3	20.3	<0.01	0.01
ZZ113481		0.53	25.4	770	3.3	5.8	<0.001	0.02	0.40	6.1	0.5	0.3	21.9	<0.01	0.02
ZZ113482		0.61	23.4	790	4.0	7.6	<0.001	0.03	0.51	3.5	0.3	0.4	25.0	<0.01	0.03
ZZ113483		0.46	21.2	530	2.9	8.4	<0.001	0.03	0.39	3.1	0.3	0.4	22.3	<0.01	0.02
ZZ113484		0.50	50.4	500	2.8	5.2	<0.001	0.03	0.32	3.8	0.3	0.4	20.5	<0.01	0.03
ZZ113485		0.49	26.3	620	3.0	6.0	<0.001	0.05	0.45	2.7	0.2	0.4	19.0	<0.01	0.03
ZZ113486		0.44	21.6	770	2.6	5.6	<0.001	0.02	0.68	3.2	0.4	0.3	23.6	<0.01	0.03
ZZ113487		0.46	20.2	800	4.1	6.6	<0.001	0.05	0.96	2.3	0.6	0.4	20.4	<0.01	0.01
ZZ113488		0.51	12.6	690	4.2	12.3	<0.001	0.07	0.55	1.1	0.5	0.5	16.9	<0.01	0.01
ZZ113489		0.62	19.4	570	4.2	7.7	<0.001	0.04	0.55	1.9	0.6	0.4	18.8	<0.01	0.01
ZZ113490		0.44	18.5	630	4.9	15.6	<0.001	0.05	0.64	1.5	0.4	0.5	13.5	<0.01	0.01

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Project: Rosy

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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113451		0.055	0.03	0.12	45	0.15	2.11	26	<0.5
ZZ113452		0.068	0.04	0.17	74	0.14	7.78	38	<0.5
ZZ113453		0.080	0.05	0.23	51	0.20	4.90	30	<0.5
ZZ113454		0.076	0.03	0.24	59	0.13	4.07	34	<0.5
ZZ113455		0.097	0.04	0.21	72	0.21	8.76	44	<0.5
ZZ113456		0.059	0.02	0.09	36	0.11	1.79	23	<0.5
ZZ113457		0.079	0.04	0.26	36	0.20	2.55	25	<0.5
ZZ113458		0.120	0.03	0.18	51	0.18	2.62	27	<0.5
ZZ113459		0.102	0.03	0.31	45	0.26	2.83	28	<0.5
ZZ113460		0.154	0.03	0.25	69	0.19	3.14	34	<0.5
ZZ113461		0.029	0.02	0.22	18	0.09	1.53	12	<0.5
ZZ113462		0.097	0.02	0.22	41	0.26	2.05	24	<0.5
ZZ113463		0.131	0.04	0.26	52	0.41	2.62	35	<0.5
ZZ113464		0.104	0.07	0.49	50	0.37	2.54	28	<0.5
ZZ113465		0.084	0.02	0.16	31	0.14	2.80	29	<0.5
ZZ113466		0.088	0.04	0.24	46	0.19	3.15	27	<0.5
ZZ113467		0.093	0.04	0.42	43	0.26	4.03	35	1.0
ZZ113468		0.093	0.05	0.29	51	0.74	3.56	59	<0.5
ZZ113469		0.047	0.03	0.44	57	0.18	7.90	36	0.5
ZZ113470		0.060	0.08	0.53	55	0.18	2.99	33	<0.5
ZZ113471		0.072	0.05	0.33	44	0.22	2.21	25	<0.5
ZZ113472		0.066	0.08	0.60	80	2.20	7.32	51	<0.5
ZZ113473		0.061	0.07	0.42	75	0.29	4.96	73	<0.5
ZZ113474		0.044	0.06	0.84	78	0.30	9.00	98	0.5
ZZ113475		0.030	0.09	0.74	61	0.35	10.75	63	0.8
ZZ113476		0.067	0.11	0.53	80	1.87	6.64	72	<0.5
ZZ113477		0.044	0.10	2.31	58	0.32	11.90	50	0.9
ZZ113478		0.052	0.06	2.69	69	0.24	16.05	62	0.9
ZZ113479		0.056	0.06	0.37	72	0.38	3.52	47	<0.5
ZZ113480		0.063	0.09	0.59	66	0.51	6.44	39	<0.5
ZZ113481		0.129	0.08	0.41	130	0.50	5.58	44	0.5
ZZ113482		0.095	0.07	0.57	101	0.35	5.24	50	<0.5
ZZ113483		0.100	0.07	0.34	155	0.17	3.28	43	<0.5
ZZ113484		0.108	0.07	0.41	198	0.28	3.95	50	<0.5
ZZ113485		0.081	0.10	0.45	143	0.25	3.62	42	<0.5
ZZ113486		0.074	0.08	0.39	101	0.25	5.49	49	<0.5
ZZ113487		0.053	0.09	0.47	98	1.34	4.73	48	<0.5
ZZ113488		0.052	0.10	0.55	91	0.22	3.21	43	<0.5
ZZ113489		0.065	0.07	0.55	78	0.25	4.12	47	<0.5
ZZ113490		0.051	0.09	0.50	110	0.27	3.09	48	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113491		0.34	0.001	0.09	1.78	5.7	<0.02	<10	170	0.34	0.33	0.50	0.21	17.50	12.5	70
ZZ113492		0.26	<0.001	0.08	2.52	2.9	<0.02	<10	320	0.43	0.13	1.27	0.33	20.0	10.8	28
ZZ113493		0.36	0.005	0.04	1.81	7.2	<0.02	<10	110	0.42	0.19	0.29	0.34	24.1	9.9	47
ZZ113494		0.30	<0.001	0.09	1.24	5.0	<0.02	<10	90	0.17	0.14	0.17	0.20	8.64	7.1	40
ZZ113495		0.27	<0.001	0.09	1.26	3.4	<0.02	<10	60	0.22	0.13	0.13	0.20	10.15	5.2	30
ZZ113496		0.30	<0.001	0.05	1.48	3.9	<0.02	<10	890	0.33	0.15	0.18	0.28	15.90	9.9	34
ZZ113497		0.31	0.002	0.09	1.72	8.3	<0.02	<10	210	0.35	0.16	0.63	0.19	17.05	9.7	52
ZZ113498		0.34	0.003	0.08	1.78	6.7	<0.02	<10	90	0.35	0.15	0.28	0.21	18.75	9.4	44
ZZ113499		0.41	0.003	0.07	1.65	9.1	<0.02	<10	70	0.39	0.08	0.36	0.23	15.40	18.2	42
ZZ113500		0.32	0.001	0.06	1.71	6.8	<0.02	<10	90	0.35	0.15	0.21	0.31	14.20	8.6	41

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



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ113491		2.25	67.1	2.50	5.03	0.09	0.03	0.02	0.020	0.07	8.8	15.0	0.88	405	0.87
ZZ113492		3.75	14.5	3.86	7.43	0.11	0.02	0.01	0.019	0.19	9.0	13.5	1.69	483	2.94
ZZ113493		2.66	20.5	2.65	5.22	0.10	<0.02	0.01	0.024	0.05	13.4	13.1	0.93	492	0.64
ZZ113494		3.21	16.0	1.96	5.63	0.08	<0.02	0.02	0.015	0.05	4.6	7.8	0.56	333	0.82
ZZ113495		1.93	14.5	1.73	4.87	0.08	<0.02	0.02	0.015	0.04	4.8	9.1	0.53	196	0.70
ZZ113496		2.11	20.8	2.28	4.46	0.09	<0.02	0.01	0.017	0.05	6.7	9.0	0.54	642	0.80
ZZ113497		2.32	27.2	2.38	4.92	0.08	0.05	0.01	0.019	0.06	8.6	14.5	1.02	300	1.79
ZZ113498		5.52	19.5	2.63	5.74	0.10	<0.02	0.02	0.024	0.06	8.6	12.7	0.78	325	0.75
ZZ113499		6.45	36.1	2.77	5.39	0.10	<0.02	0.02	0.020	0.05	7.0	10.9	0.67	521	1.23
ZZ113500		3.32	19.7	2.57	5.95	0.09	<0.02	0.02	0.019	0.05	7.1	12.0	0.68	326	0.97

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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



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Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ113491		0.86	36.8	750	4.7	7.8	<0.001	0.04	0.28	5.2	0.7	0.4	17.6	<0.01	0.02	1.1
ZZ113492		0.93	14.6	2340	5.0	22.4	<0.001	0.07	0.20	3.9	1.6	0.3	38.0	<0.01	0.02	1.3
ZZ113493		0.49	25.6	600	6.1	8.5	<0.001	0.04	0.37	2.9	0.8	0.4	15.5	<0.01	0.03	0.3
ZZ113494		0.40	16.3	540	4.0	11.4	<0.001	0.05	0.29	1.0	0.4	0.4	13.8	<0.01	0.03	<0.2
ZZ113495		0.42	11.7	490	4.4	8.6	<0.001	0.04	0.28	0.9	0.3	0.4	10.9	<0.01	0.02	<0.2
ZZ113496		0.43	14.5	620	6.5	6.6	<0.001	0.07	0.29	1.5	0.5	0.3	12.0	<0.01	0.03	<0.2
ZZ113497		0.65	29.8	1080	4.5	6.0	0.001	0.06	0.36	3.7	1.3	0.3	24.1	<0.01	0.02	0.9
ZZ113498		0.64	20.5	640	5.2	5.9	<0.001	0.06	0.43	2.0	0.7	0.4	17.9	<0.01	0.03	0.2
ZZ113499		0.46	25.5	750	3.1	5.6	<0.001	0.06	0.56	2.5	0.9	0.4	14.3	<0.01	0.01	<0.2
ZZ113500		0.64	17.2	590	4.8	7.7	<0.001	0.06	0.43	1.9	0.6	0.4	16.1	<0.01	0.03	<0.2

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113491		0.078	0.09	0.86	64	1.07	8.75	59	0.8
ZZ113492		0.113	0.21	1.23	74	0.17	5.38	171	0.9
ZZ113493		0.056	0.09	0.73	60	0.54	11.95	59	<0.5
ZZ113494		0.054	0.10	0.51	62	0.41	2.41	45	<0.5
ZZ113495		0.046	0.06	0.41	52	1.00	2.23	33	<0.5
ZZ113496		0.048	0.07	0.46	50	0.47	4.96	52	<0.5
ZZ113497		0.052	0.08	1.87	61	0.51	7.35	58	1.2
ZZ113498		0.064	0.09	0.70	65	0.37	5.67	43	<0.5
ZZ113499		0.066	0.07	0.49	78	1.38	9.03	54	<0.5
ZZ113500		0.069	0.10	0.82	73	0.64	4.62	52	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
 ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
 LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
 Au- ICP21 ME- MS41



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CERTIFICATE WH17127297

Project: Rosy

This report is for 216 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE

JULIA LANE

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

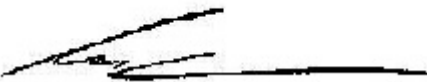
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH17127297

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109001		0.37	0.001	0.07	1.82	6.5	<0.02	<10	140	0.41	0.15	0.30	0.23	15.45	12.9	44
ZZ109002		0.53	0.004	0.06	1.96	6.8	<0.02	<10	100	0.43	0.13	0.25	0.21	16.50	12.4	42
ZZ109003		0.39	0.002	0.07	1.47	5.8	<0.02	<10	150	0.35	0.12	0.26	0.19	12.00	11.6	33
ZZ109004		0.33	<0.001	0.06	0.87	3.9	<0.02	<10	150	0.17	0.11	0.15	0.24	8.13	9.0	16
ZZ109005		0.35	0.001	0.04	2.20	5.8	<0.02	<10	250	0.62	0.12	0.43	0.19	20.1	12.6	43
ZZ109006		0.37	0.002	0.05	1.60	8.6	<0.02	<10	200	0.39	0.13	0.45	0.20	16.55	16.7	38
ZZ109007		0.36	0.002	0.04	1.23	6.6	<0.02	<10	90	0.29	0.10	0.21	0.11	12.65	7.6	22
ZZ109008		0.37	0.002	0.04	1.34	7.0	<0.02	<10	140	0.36	0.10	0.37	0.18	12.55	14.8	34
ZZ109009		0.40	0.004	0.19	1.61	17.3	<0.02	<10	370	0.36	0.18	0.31	0.09	14.05	5.5	26
ZZ109010		0.42	0.009	0.12	1.67	22.7	<0.02	<10	430	0.42	0.16	0.65	0.08	24.1	10.9	39
ZZ109011		0.31	0.004	0.31	2.08	14.2	<0.02	<10	630	0.66	0.12	1.13	0.12	28.5	8.6	37
ZZ109012		0.51	0.002	0.05	2.01	7.5	<0.02	<10	360	0.44	0.23	0.30	0.07	18.30	8.3	41
ZZ109013		0.45	0.007	0.06	1.80	11.0	<0.02	<10	360	0.48	0.13	0.46	0.07	21.3	15.5	41
ZZ109014		0.34	0.001	0.08	0.84	2.1	<0.02	<10	130	0.21	0.04	0.41	0.04	9.22	1.9	7
ZZ109015		0.58	0.005	0.12	1.27	3.2	<0.02	<10	230	0.30	0.14	0.66	0.21	19.70	11.4	38
ZZ109016		0.34	0.004	0.09	1.51	5.5	0.02	<10	270	0.41	0.13	0.77	0.34	25.4	13.3	47
ZZ109017		0.33	0.004	0.34	1.26	44.6	<0.02	<10	110	0.33	0.24	0.37	0.16	34.1	7.8	32
ZZ109018		0.43	<0.001	0.04	1.23	25.2	<0.02	<10	60	0.24	0.26	0.11	0.14	41.2	8.9	38
ZZ109019		0.31	0.001	0.03	0.42	1.7	<0.02	<10	40	0.09	0.29	0.04	0.06	21.4	0.9	7
ZZ109020		0.35	0.001	0.05	1.30	17.5	<0.02	<10	120	0.34	0.25	0.20	0.19	30.8	7.8	36
ZZ109021		0.35	0.001	0.03	1.23	7.9	<0.02	<10	100	0.17	0.07	0.28	0.09	9.30	6.4	23
ZZ109022		0.43	<0.001	0.11	1.29	3.5	<0.02	<10	110	0.25	0.14	0.15	0.21	11.10	6.5	26
ZZ109023		0.47	0.002	0.04	1.58	6.1	<0.02	<10	80	0.25	0.18	0.25	0.15	15.95	9.2	36
ZZ109024		0.38	0.008	0.08	1.56	5.5	<0.02	<10	70	0.22	0.19	0.23	0.13	13.40	7.1	37
ZZ109025		0.44	0.001	0.05	1.30	4.4	<0.02	<10	70	0.23	0.08	0.23	0.11	11.10	8.6	28
ZZ109026		0.44	<0.001	0.07	1.49	6.1	<0.02	<10	90	0.39	0.12	0.22	0.14	14.60	11.6	36
ZZ109027		0.46	0.005	0.10	1.35	4.9	<0.02	<10	60	0.26	0.19	0.17	0.19	12.35	6.5	34
ZZ109028		0.44	0.001	0.10	1.28	3.5	<0.02	<10	150	0.26	0.15	0.48	0.09	9.64	6.9	33
ZZ109029		0.42	0.003	0.06	1.23	4.8	<0.02	<10	80	0.23	0.21	0.15	0.14	10.85	7.5	34
ZZ109030		0.34	0.002	0.12	2.03	8.4	<0.02	<10	330	0.58	0.22	0.53	0.19	21.7	12.4	56
ZZ109031		0.33	<0.001	0.10	1.32	4.5	<0.02	<10	80	0.25	0.31	0.11	0.08	11.55	5.7	28
ZZ109032		0.32	<0.001	0.09	1.51	5.8	<0.02	<10	120	0.20	0.19	0.14	0.21	11.60	7.0	35
ZZ109033		0.43	0.001	0.10	1.62	5.7	<0.02	<10	160	0.34	0.25	0.40	0.12	15.70	8.5	41
ZZ109034		0.46	0.013	0.09	1.37	5.0	<0.02	<10	260	0.36	0.12	0.51	0.09	16.65	6.6	32
ZZ109035		0.49	0.006	0.05	1.02	6.8	<0.02	<10	70	0.27	0.10	0.19	0.11	12.05	5.9	26
ZZ109036		0.34	0.007	0.09	2.16	45.0	<0.02	<10	300	0.56	0.15	0.33	0.05	23.7	11.0	49
ZZ109037		0.37	<0.001	0.06	1.78	9.7	<0.02	<10	80	0.35	0.10	0.11	0.13	19.05	8.2	31
ZZ109038		0.35	0.005	0.04	1.54	8.2	<0.02	<10	70	0.28	0.18	0.21	0.14	18.90	9.6	38
ZZ109039		0.46	0.002	0.04	1.48	10.3	<0.02	<10	220	0.38	0.15	0.20	0.10	17.70	8.8	34
ZZ109040		0.36	0.001	0.07	1.44	10.1	<0.02	<10	80	0.36	0.18	0.17	0.14	18.60	10.4	34



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CERTIFICATE OF ANALYSIS WH17127297

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109001		4.73	35.7	3.54	6.26	<0.05	<0.02	0.03	0.024	0.07	7.4	10.0	0.63	629	0.54
ZZ109002		2.77	39.2	3.47	5.66	<0.05	<0.02	0.03	0.026	0.06	7.7	13.7	0.68	390	0.75
ZZ109003		3.39	27.1	3.24	5.77	<0.05	<0.02	0.03	0.021	0.06	6.1	6.0	0.43	816	0.79
ZZ109004		3.42	14.3	1.83	4.46	<0.05	<0.02	0.03	0.012	0.04	3.6	3.4	0.23	1020	0.56
ZZ109005		11.25	45.5	3.68	6.44	<0.05	<0.02	0.02	0.032	0.08	9.2	16.7	0.89	597	0.42
ZZ109006		7.18	52.1	3.38	4.87	<0.05	<0.02	0.02	0.022	0.10	7.8	13.0	0.78	764	0.48
ZZ109007		5.23	25.9	2.05	4.08	<0.05	<0.02	0.02	0.016	0.05	5.6	7.3	0.40	410	0.64
ZZ109008		4.13	40.4	3.13	4.03	<0.05	<0.02	0.01	0.015	0.09	5.2	9.7	0.65	746	0.43
ZZ109009		10.30	23.2	2.22	6.41	<0.05	<0.02	0.02	0.022	0.06	8.9	8.6	0.37	326	0.89
ZZ109010		8.76	45.7	2.85	5.03	<0.05	0.03	0.03	0.024	0.07	11.5	12.4	0.72	409	0.45
ZZ109011		7.27	53.3	2.37	4.91	0.08	0.05	0.04	0.021	0.06	30.5	9.8	0.59	480	0.54
ZZ109012		5.06	22.8	2.92	7.13	<0.05	<0.02	0.02	0.026	0.07	11.4	10.2	0.74	275	0.48
ZZ109013		4.59	37.9	3.52	5.05	<0.05	0.02	0.02	0.022	0.05	11.6	14.3	0.77	513	0.49
ZZ109014		0.45	14.7	0.70	2.30	<0.05	0.02	0.03	0.006	0.02	6.6	2.2	0.11	241	0.19
ZZ109015		2.55	48.2	1.69	3.64	<0.05	0.05	0.04	0.016	0.06	10.3	13.1	0.76	198	1.23
ZZ109016		2.93	56.5	2.11	4.46	0.06	0.10	0.03	0.021	0.09	13.3	13.7	0.91	258	3.14
ZZ109017		10.05	21.6	2.14	3.55	<0.05	<0.02	0.02	0.017	0.08	17.1	19.1	0.49	247	1.26
ZZ109018		3.85	20.5	2.64	6.50	<0.05	<0.02	0.01	0.016	0.07	17.7	9.2	0.58	312	1.81
ZZ109019		5.18	4.3	0.50	3.30	<0.05	<0.02	0.01	0.007	0.02	11.4	0.8	0.03	27	1.16
ZZ109020		3.16	18.6	2.16	4.20	<0.05	<0.02	0.01	0.018	0.07	15.8	14.0	0.52	229	1.58
ZZ109021		3.65	8.0	1.90	2.79	<0.05	0.02	0.01	0.015	0.03	4.3	15.2	1.17	378	0.97
ZZ109022		2.71	15.6	2.16	4.97	<0.05	<0.02	0.03	0.015	0.04	5.6	5.6	0.41	490	0.93
ZZ109023		3.32	28.0	2.78	5.21	<0.05	<0.02	0.03	0.019	0.05	7.5	9.7	0.61	528	0.59
ZZ109024		2.70	27.5	2.28	5.64	<0.05	<0.02	0.03	0.016	0.04	6.8	8.3	0.49	212	0.68
ZZ109025		2.58	28.3	2.32	3.71	<0.05	<0.02	0.02	0.016	0.05	5.5	6.1	0.43	397	0.50
ZZ109026		2.58	33.8	2.60	5.10	<0.05	<0.02	0.02	0.018	0.07	6.5	10.3	0.55	526	0.58
ZZ109027		2.70	21.8	2.12	5.15	<0.05	<0.02	0.03	0.017	0.05	5.9	8.3	0.39	225	0.75
ZZ109028		7.40	24.4	1.85	4.57	<0.05	<0.02	0.02	0.015	0.05	4.9	12.3	0.63	217	0.50
ZZ109029		5.31	22.5	2.30	5.69	<0.05	<0.02	0.02	0.018	0.05	4.9	6.5	0.42	578	0.71
ZZ109030		8.38	98.1	3.10	6.27	0.05	<0.02	0.03	0.027	0.08	11.3	16.0	0.69	813	0.65
ZZ109031		5.81	19.7	1.97	6.01	<0.05	<0.02	0.04	0.017	0.04	5.4	4.5	0.27	374	0.99
ZZ109032		4.00	25.2	3.12	6.78	<0.05	<0.02	0.03	0.022	0.05	5.3	6.5	0.40	404	0.80
ZZ109033		6.26	30.2	2.63	5.53	<0.05	<0.02	0.02	0.019	0.06	8.0	12.5	0.66	302	0.65
ZZ109034		6.65	21.2	2.08	4.30	<0.05	0.02	0.02	0.020	0.05	10.4	12.3	0.58	274	0.47
ZZ109035		5.51	19.6	2.03	3.66	<0.05	<0.02	0.02	0.013	0.06	5.4	6.4	0.39	306	0.52
ZZ109036		17.50	27.3	3.61	6.51	0.05	<0.02	0.02	0.030	0.07	15.4	19.7	0.78	539	1.16
ZZ109037		6.50	20.3	3.54	5.58	<0.05	<0.02	0.04	0.023	0.05	7.8	7.4	0.36	565	0.67
ZZ109038		6.68	27.2	2.49	4.72	<0.05	<0.02	0.02	0.018	0.06	8.5	10.0	0.58	454	0.54
ZZ109039		9.67	25.2	2.86	5.32	<0.05	<0.02	0.01	0.019	0.05	8.8	10.3	0.59	430	0.43
ZZ109040		14.75	32.9	2.94	4.70	<0.05	<0.02	0.02	0.022	0.07	7.8	8.6	0.49	719	0.66



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ109001		0.60	21.3	660	5.2	12.9	<0.001	0.07	0.62	1.8	0.5	0.5	18.5	<0.01	0.01
ZZ109002		0.64	23.5	510	4.1	6.1	<0.001	0.04	0.58	2.3	0.6	0.4	17.2	<0.01	0.01
ZZ109003		0.55	15.1	860	4.8	11.1	<0.001	0.10	0.62	1.1	0.5	0.5	18.7	<0.01	0.02
ZZ109004		0.33	7.2	640	4.3	11.0	<0.001	0.07	0.38	0.4	0.3	0.3	12.6	<0.01	0.01
ZZ109005		0.29	20.3	1460	4.1	10.6	<0.001	0.07	0.79	2.1	0.7	0.4	21.3	<0.01	0.01
ZZ109006		0.41	24.2	860	4.5	12.0	<0.001	0.04	0.85	2.3	0.3	0.3	22.3	<0.01	0.02
ZZ109007		0.39	11.8	640	3.2	6.2	<0.001	0.04	0.60	1.0	0.4	0.3	13.9	<0.01	0.01
ZZ109008		0.21	17.8	1030	3.7	14.6	<0.001	0.06	0.58	0.8	0.3	0.2	19.3	<0.01	0.02
ZZ109009		0.40	11.7	780	5.3	11.3	<0.001	0.06	0.87	0.8	0.4	0.5	18.2	<0.01	0.01
ZZ109010		0.66	23.1	750	4.7	8.0	<0.001	0.05	1.15	4.0	1.0	0.3	24.4	<0.01	0.01
ZZ109011		0.53	17.7	2570	4.2	6.9	<0.001	0.19	0.92	2.6	1.6	0.3	36.8	0.01	0.01
ZZ109012		0.88	20.9	480	6.1	7.1	<0.001	0.05	0.50	3.1	0.5	0.6	19.8	<0.01	0.01
ZZ109013		0.70	22.0	500	4.3	6.5	<0.001	0.03	0.63	5.6	0.6	0.3	24.6	<0.01	0.01
ZZ109014		0.49	2.7	720	2.1	1.0	<0.001	0.06	0.15	0.7	0.7	<0.2	19.4	0.01	0.01
ZZ109015		0.87	26.7	1000	4.4	5.1	0.001	0.13	0.69	5.6	1.4	0.3	32.0	<0.01	0.02
ZZ109016		1.13	33.5	1120	4.8	9.6	0.003	0.33	1.45	7.3	4.8	0.4	41.9	<0.01	0.02
ZZ109017		0.42	28.4	540	18.8	11.6	<0.001	0.02	2.84	1.5	0.6	0.4	16.0	<0.01	0.04
ZZ109018		0.72	27.4	290	18.7	14.8	<0.001	0.02	3.03	1.7	0.5	0.6	8.5	<0.01	0.04
ZZ109019		0.43	2.4	170	11.5	4.1	<0.001	0.01	0.41	0.3	<0.2	0.7	6.4	<0.01	0.02
ZZ109020		0.85	23.8	490	13.5	12.8	<0.001	0.02	2.03	2.4	0.5	0.5	13.4	<0.01	0.03
ZZ109021		0.29	8.7	480	5.2	2.8	<0.001	0.02	0.22	1.7	0.5	<0.2	10.3	<0.01	0.04
ZZ109022		0.41	9.3	790	5.1	10.6	<0.001	0.07	0.37	0.6	0.4	0.5	14.5	<0.01	0.04
ZZ109023		0.51	17.7	960	4.5	7.7	<0.001	0.02	0.67	1.8	0.4	0.4	17.3	<0.01	0.02
ZZ109024		0.55	17.4	470	4.8	4.9	<0.001	0.03	0.50	1.1	0.5	0.5	15.1	<0.01	0.02
ZZ109025		0.21	12.0	850	2.4	9.8	<0.001	0.06	0.47	0.4	0.3	0.3	16.8	<0.01	0.02
ZZ109026		0.25	18.2	880	4.1	11.1	<0.001	0.05	0.51	0.6	0.5	0.3	18.8	<0.01	0.02
ZZ109027		0.53	13.6	550	4.2	6.2	<0.001	0.04	0.40	1.0	0.5	0.4	11.7	<0.01	0.01
ZZ109028		0.22	15.1	880	3.2	6.3	<0.001	0.06	0.28	1.1	0.3	0.3	23.4	<0.01	0.01
ZZ109029		0.45	13.6	610	4.1	9.4	<0.001	0.05	0.51	1.0	0.3	0.5	12.8	<0.01	0.02
ZZ109030		0.38	25.2	950	5.1	10.8	<0.001	0.05	0.66	2.5	1.0	0.5	26.2	<0.01	0.03
ZZ109031		0.35	9.8	730	3.9	6.9	<0.001	0.06	0.44	0.4	0.4	0.6	9.9	<0.01	0.02
ZZ109032		0.67	14.5	600	4.6	9.6	<0.001	0.06	0.54	1.0	0.3	0.5	13.1	<0.01	0.03
ZZ109033		0.39	19.6	840	4.8	8.5	<0.001	0.05	0.41	1.5	0.3	0.4	21.2	<0.01	0.02
ZZ109034		0.39	14.1	1070	3.6	6.5	<0.001	0.07	0.55	2.4	0.4	0.3	28.3	<0.01	0.01
ZZ109035		0.16	11.6	820	3.1	9.4	<0.001	0.06	0.95	0.4	0.4	0.3	13.5	<0.01	0.02
ZZ109036		0.49	21.9	970	5.9	10.1	<0.001	0.05	0.79	4.9	1.1	0.5	25.8	<0.01	0.01
ZZ109037		0.28	12.0	950	4.4	8.0	<0.001	0.08	1.30	0.5	0.7	0.4	9.6	<0.01	0.02
ZZ109038		0.44	19.1	720	4.8	7.3	<0.001	0.03	0.94	1.7	0.6	0.4	14.4	<0.01	0.02
ZZ109039		0.47	16.3	560	5.0	6.7	<0.001	0.03	1.15	1.9	0.3	0.4	14.9	<0.01	0.01
ZZ109040		0.22	15.9	1240	5.3	14.8	<0.001	0.05	1.34	0.7	0.7	0.3	12.5	<0.01	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109001		0.071	0.09	0.57	103	0.23	4.59	62	<0.5
ZZ109002		0.073	0.07	0.58	96	0.32	4.60	51	<0.5
ZZ109003		0.059	0.08	0.58	101	0.18	4.73	42	<0.5
ZZ109004		0.037	0.09	0.41	53	0.14	1.69	31	<0.5
ZZ109005		0.027	0.09	0.53	86	0.20	9.36	62	<0.5
ZZ109006		0.057	0.11	0.48	84	0.28	5.65	61	<0.5
ZZ109007		0.043	0.07	0.42	50	3.11	2.96	35	<0.5
ZZ109008		0.033	0.06	0.45	83	0.27	3.52	59	<0.5
ZZ109009		0.022	0.24	0.66	60	0.32	5.46	36	<0.5
ZZ109010		0.041	0.11	1.49	68	0.35	13.40	46	0.8
ZZ109011		0.020	0.12	6.42	54	0.25	37.8	44	1.2
ZZ109012		0.070	0.14	0.81	65	0.36	8.77	49	<0.5
ZZ109013		0.047	0.12	1.62	72	0.30	8.89	41	0.5
ZZ109014		0.038	0.03	5.59	14	0.05	7.32	9	0.8
ZZ109015		0.070	0.10	9.54	58	0.72	9.64	40	1.6
ZZ109016		0.084	0.11	27.7	70	0.39	12.20	54	3.9
ZZ109017		0.019	0.12	1.08	31	0.26	5.74	68	<0.5
ZZ109018		0.041	0.10	0.58	47	0.25	3.47	65	<0.5
ZZ109019		0.037	0.05	0.52	19	0.15	1.79	12	<0.5
ZZ109020		0.038	0.10	0.68	38	0.36	5.89	59	<0.5
ZZ109021		0.035	0.03	0.96	43	0.20	3.12	72	0.5
ZZ109022		0.042	0.09	0.61	67	0.19	2.81	38	<0.5
ZZ109023		0.065	0.09	0.52	76	0.35	3.64	41	<0.5
ZZ109024		0.053	0.08	0.58	62	0.63	3.25	34	<0.5
ZZ109025		0.022	0.06	0.43	65	0.21	3.50	35	<0.5
ZZ109026		0.026	0.08	0.48	71	0.23	3.75	43	<0.5
ZZ109027		0.053	0.11	0.58	61	0.58	2.81	36	<0.5
ZZ109028		0.027	0.04	0.61	59	0.44	3.80	52	<0.5
ZZ109029		0.058	0.09	0.58	74	0.54	2.28	41	<0.5
ZZ109030		0.043	0.14	0.86	85	0.58	18.50	60	<0.5
ZZ109031		0.031	0.13	0.77	65	0.51	2.10	32	<0.5
ZZ109032		0.065	0.10	0.59	76	0.47	2.46	50	<0.5
ZZ109033		0.041	0.10	0.72	64	0.66	5.60	60	<0.5
ZZ109034		0.029	0.08	1.45	46	1.40	7.81	43	<0.5
ZZ109035		0.021	0.06	0.56	48	3.39	2.99	39	<0.5
ZZ109036		0.027	0.17	4.20	72	0.33	15.55	76	<0.5
ZZ109037		0.019	0.09	0.58	75	0.28	3.98	46	<0.5
ZZ109038		0.050	0.11	0.51	59	0.63	4.38	46	<0.5
ZZ109039		0.042	0.10	0.45	62	0.36	7.52	46	<0.5
ZZ109040		0.021	0.13	0.55	64	0.62	5.52	55	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109041		0.34	<0.001	0.06	1.45	8.6	<0.02	<10	260	0.42	0.16	0.27	0.09	23.2	6.5	43
ZZ109042		0.50	0.002	0.05	1.20	7.8	<0.02	<10	170	0.33	0.09	0.39	0.06	18.35	7.3	28
ZZ109043		0.40	<0.001	0.05	1.20	6.1	<0.02	<10	110	0.26	0.12	0.25	0.06	16.15	6.7	28
ZZ109044		0.45	0.003	0.03	1.50	8.0	<0.02	<10	80	0.40	0.13	0.20	0.11	20.4	8.8	33
ZZ109045		0.34	0.001	0.04	1.39	15.2	<0.02	<10	110	0.45	0.07	0.19	0.11	25.7	12.6	26
ZZ109046		0.30	<0.001	0.07	0.97	4.1	<0.02	<10	60	0.18	0.12	0.08	0.08	11.90	4.9	18
ZZ109047		0.42	<0.001	0.06	1.39	6.2	<0.02	<10	70	0.27	0.13	0.11	0.11	13.55	5.1	26
ZZ109048		0.50	0.002	0.12	1.52	14.5	<0.02	<10	80	0.41	0.49	0.22	0.28	34.6	10.3	27
ZZ109049		0.45	0.001	0.48	1.66	37.1	<0.02	<10	70	0.48	0.51	0.31	0.48	68.0	15.7	36
ZZ109050		0.52	0.010	2.09	1.25	275	<0.02	<10	40	0.43	0.24	0.26	0.83	57.2	14.2	13
ZZ109051		0.56	0.002	0.28	1.57	14.1	<0.02	<10	250	0.39	0.15	0.63	1.03	20.9	15.3	50
ZZ109052		0.46	0.002	0.08	1.70	4.5	<0.02	<10	350	0.26	0.12	0.57	0.38	15.45	11.5	44
ZZ109053		0.31	0.009	0.16	1.35	11.8	<0.02	<10	220	0.40	0.10	0.89	0.29	14.05	13.3	41
ZZ109054		0.36	0.001	0.07	1.79	4.6	<0.02	<10	180	0.39	0.11	0.51	0.19	14.25	8.9	40
ZZ109055		0.48	0.001	0.03	1.42	5.9	<0.02	<10	50	0.25	0.10	0.22	0.14	15.30	8.2	34
ZZ109056		0.32	0.005	0.03	1.72	6.3	<0.02	<10	70	0.37	0.12	0.26	0.15	17.35	10.1	38
ZZ109057		0.34	<0.001	0.08	1.16	4.9	<0.02	<10	60	0.21	0.19	0.12	0.11	10.75	4.9	28
ZZ109058		0.46	<0.001	0.04	1.34	4.6	<0.02	<10	60	0.25	0.17	0.15	0.09	12.65	5.5	29
ZZ109059		0.39	0.002	0.05	1.51	6.1	<0.02	<10	80	0.24	0.25	0.19	0.21	14.95	10.3	40
ZZ109060		0.40	0.002	0.03	1.63	5.0	<0.02	<10	60	0.28	0.13	0.24	0.10	15.15	9.3	32
ZZ109061		0.24	<0.001	0.03	0.23	0.6	<0.02	<10	30	<0.05	0.04	0.04	0.05	1.52	1.2	4
ZZ109062		0.35	<0.001	0.04	1.05	3.4	<0.02	<10	60	0.14	0.22	0.09	0.05	10.50	4.4	26
ZZ109063		0.47	0.001	0.03	1.49	4.8	<0.02	<10	60	0.24	0.19	0.20	0.13	13.15	8.3	37
ZZ109064		0.45	0.002	0.04	1.82	5.3	<0.02	<10	70	0.34	0.18	0.20	0.13	16.65	9.4	37
ZZ109065		0.39	0.003	0.06	1.61	5.4	<0.02	<10	60	0.24	0.16	0.16	0.16	12.55	9.2	37
ZZ109066		0.38	<0.001	0.03	0.84	2.9	<0.02	<10	40	0.11	0.16	0.08	0.08	8.15	4.0	19
ZZ109067		0.37	0.004	0.05	1.13	3.6	<0.02	<10	150	0.22	0.11	0.44	0.11	9.19	6.7	21
ZZ109068		0.43	0.003	0.10	1.82	7.8	<0.02	<10	360	0.43	0.18	0.51	0.11	21.0	11.0	40
ZZ109069		0.35	0.006	0.06	1.51	5.3	<0.02	<10	170	0.26	1.73	0.27	0.13	12.30	8.7	40
ZZ109070		0.48	<0.001	0.06	1.17	2.4	<0.02	<10	290	0.17	0.16	0.38	0.05	9.78	4.0	20
ZZ109071		0.37	0.001	0.08	1.64	7.3	<0.02	<10	320	0.36	0.17	0.46	0.07	14.05	8.5	37
ZZ109072		0.38	0.001	0.10	1.60	5.5	<0.02	<10	230	0.34	0.24	0.27	0.09	16.35	8.4	40
ZZ109073		0.37	0.001	0.13	2.28	9.8	<0.02	<10	300	0.44	0.28	0.21	0.07	14.60	7.2	44
ZZ109074		0.38	0.002	0.16	1.89	3.9	<0.02	<10	460	0.38	0.17	0.69	0.12	19.70	8.5	44
ZZ109075		0.42	0.001	0.07	1.50	6.4	<0.02	<10	70	0.23	0.18	0.14	0.10	15.30	8.0	35
ZZ109076		0.39	0.001	0.04	1.94	7.8	<0.02	<10	90	0.34	0.19	0.20	0.13	19.00	11.4	45
ZZ109077		0.59	0.009	0.04	1.63	7.1	<0.02	<10	90	0.32	0.15	0.26	0.08	19.30	8.9	35
ZZ109078		0.55	0.002	0.04	1.38	6.0	<0.02	<10	80	0.26	0.13	0.25	0.10	20.0	9.4	33
ZZ109079		0.54	<0.001	0.04	1.75	5.8	<0.02	<10	200	0.37	0.13	0.35	0.06	21.5	11.8	45
ZZ109080		0.51	0.001	0.04	1.17	7.1	<0.02	<10	140	0.28	0.22	0.23	0.10	21.4	10.8	35



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109041		9.09	20.2	1.93	4.47	<0.05	<0.02	0.02	0.019	0.05	12.7	11.3	0.41	457	0.46
ZZ109042		8.74	24.1	1.96	3.46	<0.05	<0.02	0.02	0.014	0.05	9.6	9.1	0.47	389	0.35
ZZ109043		5.64	22.3	2.04	4.30	<0.05	<0.02	0.01	0.017	0.05	7.3	8.1	0.50	257	0.41
ZZ109044		5.43	31.1	2.38	4.35	<0.05	<0.02	0.03	0.015	0.05	9.2	9.6	0.54	297	0.57
ZZ109045		11.15	31.1	3.01	3.65	<0.05	<0.02	0.03	0.022	0.07	10.6	10.7	0.58	491	0.54
ZZ109046		5.59	17.7	1.73	4.51	<0.05	<0.02	0.02	0.011	0.04	5.5	3.2	0.22	405	0.57
ZZ109047		5.20	24.9	2.02	5.32	<0.05	<0.02	0.03	0.015	0.04	6.5	6.2	0.32	206	0.57
ZZ109048		2.07	35.6	3.37	4.61	<0.05	0.02	0.02	0.034	0.05	16.7	12.5	0.61	481	1.25
ZZ109049		2.80	37.8	3.63	4.51	0.08	0.08	0.04	0.047	0.08	30.9	13.7	0.99	589	0.80
ZZ109050		3.52	42.2	3.33	3.05	0.08	0.07	0.02	0.018	0.10	30.3	5.6	0.58	996	0.43
ZZ109051		2.62	41.7	2.78	5.28	0.06	0.07	0.02	0.021	0.06	12.3	15.8	1.14	345	4.15
ZZ109052		1.66	28.8	2.19	5.47	0.06	0.05	0.02	0.021	0.03	7.5	20.7	1.00	195	6.20
ZZ109053		5.04	41.8	2.62	3.52	0.05	0.05	0.03	0.013	0.04	7.5	11.4	0.57	571	4.48
ZZ109054		4.68	35.0	2.17	4.58	<0.05	<0.02	0.01	0.015	0.05	8.8	13.2	0.80	408	0.61
ZZ109055		1.84	21.7	2.11	4.36	<0.05	<0.02	0.01	0.017	0.05	6.5	9.4	0.63	310	0.71
ZZ109056		2.07	25.5	2.56	5.01	<0.05	<0.02	0.02	0.016	0.05	7.4	10.6	0.74	315	0.52
ZZ109057		3.19	15.2	1.78	5.49	<0.05	<0.02	0.02	0.013	0.04	5.2	5.2	0.30	365	0.80
ZZ109058		2.04	16.6	1.91	5.93	<0.05	<0.02	0.02	0.017	0.04	6.1	6.7	0.56	221	0.60
ZZ109059		3.02	36.8	2.63	5.09	<0.05	<0.02	0.03	0.018	0.05	6.8	9.9	0.61	355	1.03
ZZ109060		1.97	31.5	2.31	4.49	<0.05	<0.02	0.03	0.017	0.04	7.4	8.1	0.61	259	0.59
ZZ109061		0.77	3.1	0.50	1.50	<0.05	<0.02	0.02	<0.005	0.02	0.8	0.4	0.04	62	0.28
ZZ109062		3.43	15.3	1.57	6.64	<0.05	<0.02	0.02	0.015	0.04	5.4	4.0	0.30	177	0.65
ZZ109063		2.88	24.5	2.17	4.47	<0.05	<0.02	0.02	0.017	0.05	6.7	8.2	0.54	261	0.63
ZZ109064		2.61	34.9	2.65	4.94	<0.05	<0.02	0.03	0.019	0.05	8.3	8.4	0.58	272	0.63
ZZ109065		3.68	29.9	2.78	5.43	<0.05	<0.02	0.03	0.020	0.06	6.2	8.2	0.59	312	0.64
ZZ109066		3.26	14.8	1.62	4.49	<0.05	<0.02	0.02	0.012	0.03	4.2	2.5	0.20	256	0.55
ZZ109067		12.95	22.1	2.05	4.22	<0.05	<0.02	0.02	0.014	0.05	4.8	4.3	0.30	408	0.42
ZZ109068		9.18	90.1	3.00	5.84	<0.05	<0.02	0.03	0.022	0.07	13.1	11.4	0.71	427	0.57
ZZ109069		5.00	26.9	2.90	6.64	<0.05	<0.02	0.02	0.020	0.05	6.3	8.6	0.56	361	0.65
ZZ109070		3.52	11.8	1.35	4.97	<0.05	<0.02	0.02	0.013	0.03	5.3	4.6	0.32	151	0.43
ZZ109071		7.63	27.3	2.62	5.76	<0.05	<0.02	0.02	0.023	0.06	8.8	11.7	0.63	355	0.54
ZZ109072		6.22	25.7	2.31	5.33	<0.05	<0.02	0.02	0.021	0.07	9.1	10.2	0.60	332	0.56
ZZ109073		7.24	32.3	3.03	8.25	<0.05	<0.02	0.04	0.031	0.08	8.3	10.8	0.54	212	0.89
ZZ109074		7.44	25.9	1.99	4.97	<0.05	0.03	0.04	0.023	0.06	12.5	13.2	0.68	348	0.40
ZZ109075		6.91	23.2	2.17	5.65	<0.05	<0.02	0.03	0.018	0.06	7.3	8.6	0.58	461	0.67
ZZ109076		7.87	33.4	3.02	6.11	<0.05	<0.02	0.03	0.023	0.06	8.8	12.2	0.81	505	0.60
ZZ109077		6.50	31.5	2.26	4.62	<0.05	<0.02	0.02	0.019	0.06	8.6	10.0	0.69	317	0.55
ZZ109078		6.11	30.0	2.12	4.22	<0.05	<0.02	0.02	0.017	0.07	9.1	9.1	0.67	459	0.46
ZZ109079		6.64	30.6	2.67	4.88	<0.05	<0.02	0.02	0.019	0.05	10.3	13.6	0.95	415	0.45
ZZ109080		4.58	33.8	2.23	4.00	<0.05	<0.02	0.02	0.016	0.05	11.2	8.4	0.61	404	0.56



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ109041		0.38	14.3	1150	5.0	7.0	<0.001	0.07	0.58	1.2	0.5	0.4	17.9	<0.01	0.02
ZZ109042		0.25	13.3	550	3.5	5.7	<0.001	0.03	1.02	1.5	0.7	0.3	18.6	<0.01	0.02
ZZ109043		0.39	13.9	840	4.3	4.6	<0.001	0.03	0.96	1.7	0.2	0.3	15.8	<0.01	0.02
ZZ109044		0.61	17.3	540	4.3	5.7	<0.001	0.03	0.96	2.4	0.7	0.4	13.9	<0.01	0.03
ZZ109045		0.28	25.2	610	4.8	7.2	<0.001	0.02	1.94	3.5	0.6	0.3	14.4	<0.01	0.02
ZZ109046		0.18	7.3	450	3.7	5.4	<0.001	0.03	0.83	0.3	0.3	0.4	7.8	<0.01	0.01
ZZ109047		0.42	10.0	550	4.4	5.2	<0.001	0.04	0.71	0.7	0.3	0.5	10.9	<0.01	0.03
ZZ109048		0.33	34.9	1280	30.6	8.2	<0.001	0.06	1.12	1.2	0.8	0.4	14.3	<0.01	0.04
ZZ109049		0.27	49.9	620	45.8	9.5	<0.001	0.04	1.36	2.3	0.9	0.3	17.5	<0.01	0.06
ZZ109050		<0.05	44.9	640	71.7	9.3	<0.001	0.01	2.87	2.3	1.2	1.0	14.2	<0.01	0.05
ZZ109051		0.63	35.6	1100	5.7	6.3	0.003	0.04	0.40	6.4	1.3	0.3	23.4	<0.01	0.04
ZZ109052		0.87	19.4	840	5.0	3.1	0.001	0.06	0.16	5.1	11.2	0.3	21.5	<0.01	0.03
ZZ109053		0.55	22.2	1100	3.2	3.1	0.006	0.15	0.35	3.8	4.6	0.2	33.0	<0.01	0.02
ZZ109054		0.44	17.7	750	3.5	5.4	<0.001	0.07	0.30	2.0	1.1	0.2	20.4	<0.01	0.01
ZZ109055		0.31	18.1	710	3.4	6.6	<0.001	0.03	0.41	1.3	0.5	0.3	13.8	<0.01	0.03
ZZ109056		0.56	20.3	660	3.7	5.3	<0.001	0.03	0.50	2.4	0.6	0.3	15.9	<0.01	0.02
ZZ109057		0.52	10.1	530	4.3	7.7	<0.001	0.04	0.40	0.8	0.2	0.5	9.8	<0.01	0.03
ZZ109058		0.72	11.6	340	4.9	5.5	<0.001	0.03	0.35	1.2	0.3	0.5	12.7	<0.01	0.02
ZZ109059		0.73	22.8	1050	6.8	7.1	<0.001	0.02	0.58	2.0	0.4	0.4	12.7	<0.01	0.02
ZZ109060		0.52	17.8	580	4.0	4.4	<0.001	0.02	0.51	1.8	0.4	0.4	15.5	<0.01	0.02
ZZ109061		0.06	1.7	310	1.0	1.9	<0.001	0.03	0.12	0.1	<0.2	0.2	5.4	<0.01	<0.01
ZZ109062		0.48	9.7	510	6.3	6.0	<0.001	0.04	0.35	0.6	0.2	0.6	8.7	<0.01	0.02
ZZ109063		0.51	19.2	630	4.4	6.4	<0.001	0.02	0.47	1.4	0.4	0.4	12.4	<0.01	0.02
ZZ109064		0.63	21.6	580	4.3	5.9	<0.001	0.03	0.49	1.7	0.5	0.4	12.9	<0.01	0.03
ZZ109065		0.54	19.6	550	4.1	8.2	<0.001	0.04	0.58	1.5	0.4	0.4	13.3	<0.01	0.02
ZZ109066		0.34	7.2	450	3.7	7.5	<0.001	0.03	0.34	0.3	0.2	0.4	8.0	<0.01	0.01
ZZ109067		0.30	9.3	850	3.4	9.2	<0.001	0.06	0.56	0.7	0.2	0.4	17.3	<0.01	0.02
ZZ109068		0.45	22.6	800	4.9	9.6	<0.001	0.04	0.82	3.1	0.8	0.4	22.4	<0.01	0.03
ZZ109069		0.70	19.2	610	5.5	8.3	<0.001	0.05	0.57	1.7	0.3	0.5	17.0	<0.01	0.02
ZZ109070		0.38	7.5	730	4.1	4.6	<0.001	0.05	0.27	0.8	0.2	0.4	16.3	<0.01	0.01
ZZ109071		0.35	19.1	990	5.2	7.4	<0.001	0.07	0.57	1.6	0.4	0.4	20.6	<0.01	0.02
ZZ109072		0.49	21.2	600	5.6	9.3	<0.001	0.05	0.60	1.9	0.3	0.5	15.7	<0.01	0.02
ZZ109073		0.76	21.4	720	8.0	8.8	<0.001	0.06	0.82	1.6	0.4	0.7	17.2	<0.01	0.02
ZZ109074		0.54	20.5	1220	5.3	7.0	<0.001	0.11	0.78	3.5	0.9	0.4	29.4	<0.01	0.01
ZZ109075		0.51	18.1	540	4.6	9.2	<0.001	0.04	0.76	1.6	0.4	0.5	12.6	<0.01	0.02
ZZ109076		0.56	24.2	590	4.7	8.8	<0.001	0.03	1.24	2.5	0.4	0.5	15.8	<0.01	0.02
ZZ109077		0.50	19.5	740	4.6	8.4	<0.001	0.02	0.82	2.4	0.5	0.4	17.3	<0.01	0.02
ZZ109078		0.50	19.9	900	4.3	8.4	<0.001	0.02	0.85	2.6	0.4	0.4	15.6	<0.01	0.02
ZZ109079		0.45	25.6	490	4.1	5.7	<0.001	0.02	0.95	3.5	0.4	0.3	21.6	<0.01	0.01
ZZ109080		0.35	22.7	490	4.4	5.1	<0.001	0.02	1.24	2.3	0.5	0.3	16.1	<0.01	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109041		0.028	0.08	1.24	46	0.32	8.98	46	<0.5
ZZ109042		0.033	0.08	0.77	44	0.20	8.63	33	<0.5
ZZ109043		0.040	0.08	0.79	49	0.23	3.73	35	<0.5
ZZ109044		0.056	0.09	0.68	54	0.32	4.53	36	<0.5
ZZ109045		0.024	0.20	0.92	55	0.23	5.92	48	<0.5
ZZ109046		0.020	0.10	0.43	52	0.16	1.67	26	<0.5
ZZ109047		0.037	0.09	0.62	52	0.20	2.66	30	<0.5
ZZ109048		0.017	0.10	0.96	29	0.22	6.18	85	0.6
ZZ109049		0.009	0.12	0.96	21	0.16	14.95	123	2.6
ZZ109050		<0.005	0.10	1.03	11	0.06	16.90	283	3.3
ZZ109051		0.064	0.10	1.89	69	0.60	13.50	76	2.1
ZZ109052		0.076	0.07	6.30	72	0.31	6.75	46	1.4
ZZ109053		0.037	0.07	3.23	52	0.13	12.10	42	1.4
ZZ109054		0.063	0.07	1.42	53	0.20	7.61	69	<0.5
ZZ109055		0.047	0.06	0.49	58	0.31	3.81	37	<0.5
ZZ109056		0.067	0.08	0.52	71	0.33	4.38	40	<0.5
ZZ109057		0.050	0.11	0.50	60	0.35	1.98	29	<0.5
ZZ109058		0.074	0.10	0.48	60	0.40	2.49	31	<0.5
ZZ109059		0.071	0.08	0.51	73	0.96	3.32	48	<0.5
ZZ109060		0.065	0.09	0.45	64	0.47	3.96	35	<0.5
ZZ109061		0.012	0.03	0.17	18	0.07	0.32	9	<0.5
ZZ109062		0.045	0.12	0.49	51	0.37	1.67	25	<0.5
ZZ109063		0.054	0.08	0.48	59	0.72	3.59	38	<0.5
ZZ109064		0.065	0.08	0.62	70	0.67	4.68	41	<0.5
ZZ109065		0.060	0.08	0.53	75	0.45	3.33	49	<0.5
ZZ109066		0.035	0.07	0.40	49	0.49	1.42	26	<0.5
ZZ109067		0.029	0.06	0.42	67	0.23	3.23	40	<0.5
ZZ109068		0.036	0.11	0.95	73	0.79	16.40	54	<0.5
ZZ109069		0.066	0.09	0.58	75	1.27	4.29	48	<0.5
ZZ109070		0.032	0.08	0.60	42	0.59	2.47	25	<0.5
ZZ109071		0.025	0.09	1.37	68	0.38	7.63	48	<0.5
ZZ109072		0.042	0.10	1.03	52	0.65	5.96	57	<0.5
ZZ109073		0.036	0.17	0.95	78	0.49	3.91	43	<0.5
ZZ109074		0.030	0.15	3.08	46	0.29	11.80	49	0.7
ZZ109075		0.053	0.11	0.63	53	0.44	3.38	43	<0.5
ZZ109076		0.055	0.13	0.61	70	0.63	5.15	56	<0.5
ZZ109077		0.055	0.10	0.56	54	0.59	4.95	47	<0.5
ZZ109078		0.063	0.08	0.51	51	0.40	5.08	48	<0.5
ZZ109079		0.050	0.10	1.01	61	0.45	6.59	53	<0.5
ZZ109080		0.058	0.10	0.55	57	1.30	6.23	41	<0.5



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CERTIFICATE OF ANALYSIS WH17127297

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109081		0.43	0.001	0.20	1.11	17.4	<0.02	<10	100	0.29	0.22	0.42	0.39	34.1	9.8	34
ZZ109082		0.24	0.003	0.44	1.70	27.2	<0.02	<10	220	0.62	0.30	1.01	0.46	36.4	11.1	41
ZZ109083		0.36	0.001	0.27	1.31	14.4	<0.02	<10	130	0.32	0.26	0.60	0.31	26.3	7.9	32
ZZ109084		0.41	0.001	0.14	0.98	13.3	<0.02	<10	80	0.29	0.18	0.40	0.24	36.6	7.9	31
ZZ109085		0.50	0.002	0.21	1.49	20.1	<0.02	<10	100	0.48	0.22	0.56	0.25	35.0	9.8	43
ZZ109086		0.35	0.001	0.26	1.53	12.0	<0.02	<10	150	0.52	0.27	0.87	0.30	35.2	10.5	36
ZZ109087		0.41	<0.001	0.04	1.86	31.7	<0.02	<10	80	0.63	0.37	0.13	0.34	40.0	9.6	33
ZZ109088		0.49	0.002	0.16	1.54	24.1	<0.02	<10	160	0.72	0.31	0.51	0.28	57.6	11.9	39
ZZ109089		0.22	<0.001	0.19	1.47	13.1	<0.02	<10	200	0.50	0.22	1.76	0.28	30.3	9.6	40
ZZ109090		0.20	0.002	0.25	1.47	39.2	<0.02	<10	280	0.59	0.24	1.80	0.51	38.0	10.0	34
ZZ109091		0.39	<0.001	0.10	1.30	6.5	<0.02	<10	130	0.43	0.25	0.62	0.18	47.6	7.6	28
ZZ109092		0.36	<0.001	0.09	1.66	8.0	<0.02	<10	210	0.61	0.30	0.61	0.39	71.2	11.1	33
ZZ109093		0.38	0.002	0.20	1.72	16.9	<0.02	<10	210	0.58	0.26	0.75	0.41	42.5	15.2	52
ZZ109094		0.46	0.001	0.06	1.22	7.5	<0.02	<10	130	0.39	0.20	0.52	0.30	49.0	10.2	36
ZZ109095		0.35	0.004	0.19	1.47	18.6	<0.02	<10	130	0.41	0.29	0.67	0.26	30.3	15.1	67
ZZ109096		0.31	<0.001	0.07	1.86	24.9	<0.02	<10	120	0.89	0.44	0.16	0.12	53.3	12.8	34
ZZ109097		0.43	<0.001	0.10	1.83	18.8	<0.02	<10	170	0.95	0.30	0.44	0.20	43.4	11.1	46
ZZ109098		0.37	0.002	0.11	1.55	15.7	<0.02	<10	170	0.51	0.30	0.57	0.16	32.9	13.8	71
ZZ109099		0.48	0.001	0.20	1.60	29.8	<0.02	<10	140	0.52	0.32	0.63	0.25	36.1	17.4	71
ZZ109100		0.26	<0.001	0.10	1.38	16.5	<0.02	<10	90	0.36	0.30	0.60	0.09	23.2	13.6	70
ZZ109101		0.36	0.002	0.29	1.55	23.6	<0.02	<10	140	0.76	0.25	1.32	0.39	39.0	10.8	41
ZZ109102		0.32	0.005	1.23	1.59	143.0	<0.02	<10	130	0.74	0.50	0.61	0.15	58.7	14.3	38
ZZ109103		0.35	<0.001	0.08	1.31	13.3	<0.02	<10	90	0.35	0.28	0.32	0.15	21.4	11.1	65
ZZ109104		0.54	0.001	0.04	1.42	26.3	<0.02	<10	100	0.39	0.23	0.40	0.16	19.70	15.1	89
ZZ109105		0.30	0.002	0.32	2.44	45.7	<0.02	<10	110	0.68	0.34	0.65	0.08	37.8	18.5	40
ZZ109106		0.39	0.003	0.33	1.54	66.2	<0.02	<10	70	0.51	0.23	0.44	0.08	35.3	8.3	36
ZZ109107		0.32	0.047	2.12	2.48	476	0.03	<10	90	1.13	0.27	1.13	0.33	50.1	14.0	40
ZZ109108		0.31	<0.001	0.14	4.27	7.8	<0.02	<10	210	0.97	0.29	1.43	0.06	62.9	15.7	58
ZZ109109		0.35	0.004	1.13	3.28	446	<0.02	<10	140	1.41	0.35	0.56	0.11	68.9	15.7	52
ZZ109110		0.37	0.001	0.28	1.39	22.2	<0.02	<10	90	0.51	0.26	0.53	0.18	42.1	8.4	26
ZZ109111		0.39	<0.001	0.46	2.02	59.0	<0.02	<10	100	1.54	0.56	0.85	0.19	82.6	18.7	34
ZZ109112		0.35	<0.001	0.05	4.07	3.6	<0.02	<10	180	1.06	0.44	1.11	0.11	46.0	17.8	62
ZZ109113		0.38	<0.001	0.08	1.51	8.1	<0.02	<10	90	0.49	0.30	0.66	0.14	32.1	9.6	36
ZZ109114		0.37	0.001	0.17	2.13	15.8	<0.02	<10	130	0.81	0.32	0.85	0.13	44.7	12.1	42
ZZ109115		0.39	<0.001	0.10	1.69	8.6	<0.02	<10	140	0.63	0.30	0.88	0.11	38.9	10.9	34
ZZ109116		0.34	0.007	0.07	1.67	27.3	<0.02	<10	110	0.34	0.17	0.34	0.09	14.45	16.7	54
ZZ109117		0.42	0.009	0.17	1.32	45.0	<0.02	<10	160	0.34	0.07	0.63	0.14	20.1	20.5	53
ZZ109118		0.39	0.005	0.05	1.87	44.3	<0.02	<10	80	0.33	0.13	0.32	0.11	11.80	17.6	53
ZZ109119		0.34	0.004	0.04	1.77	38.2	<0.02	<10	90	0.38	0.16	0.31	0.08	12.85	17.0	52
ZZ109120		0.48	0.004	0.05	1.79	29.7	<0.02	<10	100	0.37	0.28	0.30	0.09	13.35	15.6	56



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Plus Appendix Pages
Finalized Date: 31- JUL- 2017
Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127297

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109081		1.98	27.1	2.20	2.95	<0.05	<0.02	0.01	0.017	0.08	17.8	10.3	0.60	406	1.31
ZZ109082		3.64	47.1	2.88	4.08	0.06	0.09	0.04	0.026	0.13	24.8	13.7	0.65	559	1.49
ZZ109083		2.96	22.3	2.00	3.78	<0.05	0.03	0.03	0.021	0.10	13.4	11.8	0.57	333	1.09
ZZ109084		1.92	18.7	1.79	2.92	0.05	0.02	0.01	0.014	0.07	18.3	10.7	0.57	280	0.87
ZZ109085		4.18	28.1	2.31	4.13	0.05	0.04	0.02	0.018	0.15	18.7	14.7	0.85	381	0.89
ZZ109086		3.74	26.2	2.13	4.33	<0.05	0.02	0.04	0.023	0.08	16.7	16.9	0.66	517	1.00
ZZ109087		4.91	21.5	3.43	6.99	0.05	0.02	0.01	0.027	0.13	18.1	23.1	0.83	346	1.90
ZZ109088		8.41	30.5	2.60	5.04	0.07	0.11	0.02	0.025	0.31	29.0	28.7	0.80	563	0.85
ZZ109089		4.80	27.5	2.10	4.09	<0.05	0.05	0.03	0.022	0.17	15.4	16.5	0.69	501	0.71
ZZ109090		10.90	27.1	2.00	4.08	0.06	0.06	0.05	0.021	0.14	23.6	19.3	0.65	772	0.58
ZZ109091		4.13	17.5	2.02	4.56	0.07	0.02	0.01	0.019	0.25	25.2	25.2	0.64	355	0.44
ZZ109092		4.99	29.2	2.62	6.75	0.09	0.12	0.02	0.026	0.47	36.5	38.3	0.85	562	1.23
ZZ109093		3.85	44.5	3.10	5.17	0.07	0.08	0.03	0.030	0.27	21.9	17.3	0.99	601	1.25
ZZ109094		2.99	22.8	2.07	4.10	0.06	0.02	0.01	0.017	0.20	25.6	18.4	0.68	384	0.66
ZZ109095		3.31	37.8	2.62	3.92	0.06	0.05	0.02	0.026	0.10	14.2	12.2	1.02	486	0.84
ZZ109096		7.93	26.2	3.97	6.84	0.06	0.02	0.02	0.032	0.11	25.4	19.9	0.71	453	1.52
ZZ109097		5.60	29.2	3.14	6.08	0.06	0.02	0.02	0.029	0.15	22.8	23.3	0.89	331	1.13
ZZ109098		3.61	45.3	2.53	4.19	0.06	0.03	0.02	0.024	0.09	17.8	13.0	0.97	417	0.88
ZZ109099		4.20	44.9	2.78	4.37	0.06	0.04	0.02	0.025	0.14	16.9	14.7	1.07	499	1.05
ZZ109100		2.64	24.7	2.07	3.43	<0.05	0.04	0.02	0.020	0.07	11.4	11.7	0.94	375	0.68
ZZ109101		4.81	42.1	2.33	4.38	0.08	0.05	0.03	0.022	0.21	21.2	15.5	0.91	345	1.11
ZZ109102		5.53	26.9	3.83	5.81	0.07	0.03	0.02	0.035	0.15	27.0	22.8	0.82	622	1.90
ZZ109103		1.55	17.7	1.98	3.50	<0.05	0.02	<0.01	0.017	0.09	10.5	12.0	0.82	182	1.17
ZZ109104		3.22	41.7	2.36	3.14	<0.05	0.02	0.01	0.020	0.05	9.7	10.8	1.01	365	0.83
ZZ109105		8.08	21.0	2.90	9.39	0.06	<0.02	0.02	0.028	0.05	23.4	31.1	1.16	632	1.01
ZZ109106		3.35	22.5	2.08	4.51	0.06	0.02	0.01	0.020	0.05	22.9	16.0	0.63	272	1.26
ZZ109107		12.75	48.2	3.22	7.96	0.09	0.04	0.03	0.029	0.21	26.0	44.7	1.63	950	0.69
ZZ109108		7.85	32.7	4.05	13.75	0.13	0.03	0.02	0.045	0.45	36.1	29.8	2.60	601	0.36
ZZ109109		19.65	22.4	4.36	10.85	0.08	0.03	0.02	0.046	0.22	33.5	64.9	2.12	396	0.52
ZZ109110		13.70	10.1	4.16	5.95	0.05	0.02	0.01	0.027	0.06	19.8	26.0	0.30	1100	2.84
ZZ109111		22.0	34.4	4.42	7.21	0.10	0.05	0.02	0.044	0.22	43.2	56.2	1.23	697	0.86
ZZ109112		10.65	19.2	4.61	14.40	0.09	0.03	0.01	0.047	0.35	20.8	52.8	2.90	560	0.34
ZZ109113		8.76	14.6	2.15	5.32	0.05	<0.02	0.01	0.021	0.09	17.1	17.5	0.77	352	0.68
ZZ109114		12.70	19.6	3.19	7.93	0.06	0.02	0.01	0.030	0.18	21.7	49.5	1.31	390	0.82
ZZ109115		6.96	17.5	2.54	5.46	0.05	0.02	0.01	0.023	0.07	19.7	20.7	0.78	448	0.91
ZZ109116		7.14	47.8	3.92	5.50	<0.05	<0.02	0.03	0.021	0.07	6.3	13.8	0.86	496	0.55
ZZ109117		6.16	72.5	4.25	4.53	0.05	0.03	0.01	0.019	0.07	8.9	12.2	0.96	732	0.32
ZZ109118		8.33	51.8	4.66	7.96	<0.05	<0.02	0.04	0.027	0.09	5.5	24.1	1.03	566	0.66
ZZ109119		6.29	40.7	3.98	5.71	<0.05	<0.02	0.30	0.022	0.07	5.9	24.6	0.95	531	0.56
ZZ109120		8.04	44.6	3.39	5.69	<0.05	<0.02	0.03	0.023	0.07	6.4	18.4	0.89	512	0.62



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ109081		0.39	29.5	670	13.5	9.8	<0.001	0.01	1.98	2.1	0.7	0.2	15.8	<0.01	0.04
ZZ109082		0.74	40.2	770	16.4	15.3	<0.001	0.05	2.73	3.5	1.3	0.4	34.8	<0.01	0.05
ZZ109083		0.68	26.0	690	13.1	12.8	<0.001	0.03	2.45	2.3	0.5	0.4	18.9	<0.01	0.04
ZZ109084		0.72	22.6	660	10.6	8.9	<0.001	0.01	4.16	2.3	0.4	0.3	15.5	<0.01	0.02
ZZ109085		0.84	31.0	690	13.0	16.9	<0.001	0.02	3.41	3.3	0.6	0.4	23.6	<0.01	0.03
ZZ109086		0.95	25.1	880	13.6	14.1	<0.001	0.04	1.53	2.6	0.7	0.5	28.4	<0.01	0.03
ZZ109087		1.44	30.9	510	17.3	21.7	<0.001	0.01	4.18	3.3	0.3	0.8	8.9	<0.01	0.04
ZZ109088		0.99	34.6	810	15.9	34.5	<0.001	0.01	2.52	5.1	0.7	0.9	20.8	<0.01	0.03
ZZ109089		1.27	30.5	650	10.9	23.6	<0.001	0.05	2.01	3.2	0.5	0.5	43.4	<0.01	0.02
ZZ109090		1.32	26.1	860	12.8	22.5	<0.001	0.10	1.53	3.2	1.7	0.5	80.1	<0.01	0.03
ZZ109091		2.10	20.2	820	8.5	39.7	<0.001	0.01	0.63	4.1	0.4	0.9	20.9	<0.01	0.02
ZZ109092		2.53	30.5	1040	10.6	51.8	<0.001	0.01	0.65	6.0	0.6	1.1	23.9	<0.01	0.02
ZZ109093		1.68	52.7	680	12.1	22.9	<0.001	0.01	1.50	6.1	0.7	0.6	25.7	<0.01	0.03
ZZ109094		1.61	24.8	960	8.8	25.4	<0.001	0.01	0.70	4.1	0.5	0.6	20.3	<0.01	0.02
ZZ109095		1.07	43.2	800	14.0	9.9	<0.001	0.01	1.40	5.2	0.5	0.4	24.8	<0.01	0.05
ZZ109096		1.18	30.6	590	18.0	21.8	<0.001	0.01	3.40	4.2	0.5	0.8	12.4	<0.01	0.04
ZZ109097		1.10	32.1	650	13.8	19.9	<0.001	0.02	1.99	4.8	0.7	0.6	23.1	<0.01	0.03
ZZ109098		0.94	43.5	790	13.3	10.1	<0.001	0.01	1.28	6.0	0.5	0.4	23.5	<0.01	0.04
ZZ109099		0.83	44.6	760	14.8	13.3	<0.001	0.01	1.96	6.2	0.6	0.4	22.0	<0.01	0.05
ZZ109100		0.59	31.7	680	14.6	8.4	<0.001	0.01	0.97	4.1	0.3	0.3	22.1	<0.01	0.04
ZZ109101		1.09	33.4	730	11.2	24.7	<0.001	0.05	1.38	4.5	0.9	0.5	33.7	<0.01	0.03
ZZ109102		1.01	25.8	590	72.1	23.1	<0.001	0.06	2.99	4.7	0.8	0.8	29.2	<0.01	0.07
ZZ109103		0.69	31.5	150	13.2	14.6	<0.001	<0.01	0.93	2.8	0.4	0.4	16.1	<0.01	0.05
ZZ109104		0.42	41.5	530	10.7	7.1	<0.001	<0.01	1.69	4.1	0.4	0.2	17.7	<0.01	0.04
ZZ109105		1.57	24.1	370	18.6	15.5	<0.001	0.02	0.63	4.9	0.7	0.9	23.3	<0.01	0.03
ZZ109106		1.39	25.4	260	9.3	8.3	<0.001	0.02	1.30	2.9	0.5	0.5	20.6	<0.01	0.03
ZZ109107		1.54	43.3	640	22.1	19.0	<0.001	0.03	4.31	6.3	1.4	0.8	39.7	<0.01	0.03
ZZ109108		2.38	39.4	630	14.9	50.5	<0.001	0.02	0.26	9.3	1.2	1.5	45.4	<0.01	0.03
ZZ109109		1.44	38.1	330	22.7	41.2	<0.001	0.01	5.15	7.7	0.8	1.2	18.1	<0.01	0.04
ZZ109110		1.25	28.9	270	15.0	19.2	<0.001	0.01	17.30	2.5	0.4	0.7	19.5	<0.01	0.05
ZZ109111		1.08	43.4	540	37.1	38.6	<0.001	0.02	9.31	8.0	1.4	0.7	23.5	<0.01	0.07
ZZ109112		2.48	39.1	450	22.1	32.3	<0.001	0.02	0.27	9.3	0.6	1.6	30.5	<0.01	0.04
ZZ109113		1.25	21.5	290	11.6	17.6	<0.001	0.02	0.62	3.1	0.5	0.6	21.4	<0.01	0.03
ZZ109114		1.49	26.2	450	16.6	18.8	<0.001	0.02	0.85	4.8	0.5	0.8	27.9	<0.01	0.03
ZZ109115		1.39	23.3	370	13.6	15.6	<0.001	0.02	1.58	3.4	0.6	0.6	25.5	<0.01	0.03
ZZ109116		0.51	32.6	590	7.1	7.6	<0.001	0.04	1.04	4.8	0.4	0.3	16.0	<0.01	0.03
ZZ109117		0.38	34.2	960	6.7	5.8	<0.001	0.01	1.35	8.7	0.4	0.3	23.4	<0.01	0.03
ZZ109118		0.59	30.2	450	7.2	9.5	<0.001	0.04	1.08	5.3	0.5	0.4	18.8	<0.01	0.04
ZZ109119		0.55	30.5	440	6.3	7.0	<0.001	0.03	0.92	4.8	0.4	0.3	16.4	<0.01	0.04
ZZ109120		0.65	33.4	480	6.0	8.2	<0.001	0.03	0.84	4.7	0.5	0.4	15.6	<0.01	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109081		0.023	0.08	0.66	28	0.25	6.39	90	<0.5
ZZ109082		0.022	0.14	2.16	35	0.35	20.4	105	2.6
ZZ109083		0.028	0.10	0.87	31	0.24	5.64	77	0.9
ZZ109084		0.041	0.08	0.78	29	0.20	6.60	56	0.9
ZZ109085		0.049	0.12	1.03	35	0.26	9.68	73	1.3
ZZ109086		0.039	0.14	4.51	38	0.26	9.24	59	0.5
ZZ109087		0.068	0.15	0.86	51	0.26	4.91	72	1.0
ZZ109088		0.069	0.27	1.03	40	0.29	13.70	78	5.8
ZZ109089		0.041	0.17	3.36	33	0.28	6.89	71	1.8
ZZ109090		0.036	0.17	4.78	31	0.24	15.50	61	1.9
ZZ109091		0.085	0.26	0.93	41	0.22	7.82	67	0.9
ZZ109092		0.122	0.40	1.36	55	0.29	11.80	83	5.7
ZZ109093		0.097	0.18	0.77	53	0.35	12.95	80	4.0
ZZ109094		0.083	0.20	0.74	43	0.24	7.99	64	1.1
ZZ109095		0.078	0.10	0.63	48	1.73	6.94	78	2.3
ZZ109096		0.047	0.14	1.00	53	0.23	5.52	72	1.1
ZZ109097		0.053	0.12	0.90	50	0.35	11.50	80	0.7
ZZ109098		0.068	0.10	0.74	49	0.82	11.25	62	1.3
ZZ109099		0.077	0.13	0.61	49	0.77	8.59	71	1.7
ZZ109100		0.050	0.07	0.46	42	0.94	4.92	50	1.3
ZZ109101		0.056	0.16	2.50	36	0.21	15.40	77	2.1
ZZ109102		0.047	0.21	1.12	38	0.31	7.13	75	1.0
ZZ109103		0.069	0.07	0.40	43	0.67	3.22	41	1.0
ZZ109104		0.059	0.07	0.40	47	1.36	4.65	46	0.8
ZZ109105		0.103	0.25	1.41	55	0.27	11.90	60	<0.5
ZZ109106		0.058	0.12	1.15	41	0.35	5.55	47	0.8
ZZ109107		0.110	0.20	3.08	43	0.30	33.8	74	1.3
ZZ109108		0.186	0.34	2.98	66	0.18	24.1	84	1.4
ZZ109109		0.132	0.24	1.18	54	0.17	13.35	102	1.4
ZZ109110		0.028	0.17	0.60	45	0.32	4.43	80	1.1
ZZ109111		0.051	0.19	1.50	39	0.22	29.4	91	2.3
ZZ109112		0.186	0.21	1.10	71	0.14	10.05	89	1.5
ZZ109113		0.072	0.10	0.90	40	0.24	8.85	56	0.6
ZZ109114		0.094	0.12	1.15	47	0.20	7.86	78	0.9
ZZ109115		0.069	0.12	0.97	41	0.29	11.65	50	0.9
ZZ109116		0.071	0.11	0.40	138	0.38	4.35	45	<0.5
ZZ109117		0.089	0.09	0.38	164	0.23	7.92	49	0.8
ZZ109118		0.090	0.10	0.46	158	0.37	3.96	64	<0.5
ZZ109119		0.073	0.09	0.41	130	0.90	4.30	48	<0.5
ZZ109120		0.079	0.10	0.49	105	2.37	4.40	46	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109121		0.41	0.005	0.19	2.61	19.9	<0.02	<10	370	0.44	0.05	0.71	0.33	6.97	69.2	31
ZZ109122		0.33	0.044	0.53	1.77	216	0.04	<10	140	0.45	0.16	0.33	0.21	16.10	25.5	56
ZZ109123		0.34	0.006	0.03	1.82	36.3	<0.02	<10	80	0.34	0.11	0.36	0.09	12.45	21.0	62
ZZ109124		0.40	0.028	0.81	2.00	97.2	0.02	<10	160	0.45	0.10	0.35	0.15	13.80	28.3	59
ZZ109125		0.42	0.006	0.09	1.78	45.7	<0.02	<10	120	0.32	0.11	0.41	0.07	14.50	22.9	58
ZZ109126		0.36	0.005	0.06	1.63	35.3	<0.02	<10	120	0.27	0.15	0.50	0.06	12.00	15.6	67
ZZ109127		0.48	0.009	0.04	1.79	18.0	<0.02	<10	140	0.37	0.21	0.41	0.09	16.45	20.3	69
ZZ109128		0.25	0.008	0.04	1.68	35.9	<0.02	<10	100	0.34	0.15	0.26	0.08	16.25	15.8	101
ZZ109129		0.43	0.004	0.05	1.58	13.7	<0.02	<10	90	0.35	0.16	0.28	0.08	16.10	13.3	55
ZZ109130		0.41	0.009	0.03	1.44	23.0	<0.02	<10	70	0.36	0.26	0.26	0.08	14.45	11.4	52
ZZ109131		0.34	0.001	0.06	1.71	17.2	<0.02	<10	80	0.30	0.21	0.27	0.17	13.45	13.7	54
ZZ109132		0.35	0.001	0.06	1.55	10.2	<0.02	<10	80	0.27	0.21	0.21	0.16	12.10	13.1	49
ZZ109133		0.29	0.001	0.07	0.47	6.2	<0.02	<10	60	0.08	0.25	0.09	0.15	9.98	4.3	31
ZZ109134		0.27	0.005	0.09	1.70	18.1	<0.02	<10	90	0.38	0.20	0.20	0.18	14.30	11.0	44
ZZ109135		0.46	0.004	0.03	1.11	10.2	<0.02	<10	50	0.15	0.17	0.10	0.09	8.95	6.4	29
ZZ109136		0.33	0.004	0.09	1.34	6.9	<0.02	<10	90	0.23	0.21	0.17	0.11	11.55	9.6	39
ZZ109137		0.31	<0.001	0.17	0.67	1.3	<0.02	<10	20	0.31	0.12	3.91	0.63	3.73	7.5	7
ZZ109138		0.42	0.005	0.14	1.59	10.5	<0.02	<10	150	0.39	0.17	1.09	0.24	17.75	12.5	44
ZZ109139		0.36	0.002	0.09	2.16	10.0	<0.02	<10	130	0.48	0.21	0.37	0.30	21.3	16.2	56
ZZ109140		0.40	0.007	3.10	1.50	15.4	<0.02	<10	110	0.40	0.15	0.87	0.87	18.25	13.1	68
ZZ109141		0.42	0.002	0.07	1.07	8.4	<0.02	<10	60	0.10	0.10	0.14	0.12	6.88	9.2	38
ZZ109142		0.37	0.001	0.02	1.37	12.5	<0.02	<10	30	0.10	0.09	0.06	0.04	5.14	11.7	294
ZZ109143		0.43	0.003	0.25	1.83	90.2	<0.02	<10	100	0.46	0.16	0.37	0.24	16.65	13.9	61
ZZ109144		0.52	0.002	0.05	2.03	9.6	<0.02	<10	110	0.38	0.19	0.32	0.19	16.05	15.6	88
ZZ109145		0.50	0.002	0.20	1.79	8.0	<0.02	<10	290	0.36	0.14	1.61	0.21	21.5	9.2	45
ZZ109146		0.50	0.001	0.14	1.80	17.2	<0.02	<10	120	0.42	0.14	0.27	0.29	16.20	11.6	53
ZZ109147		0.31	0.003	1.03	1.54	15.9	<0.02	<10	150	0.54	0.20	0.25	0.46	27.1	10.2	45
ZZ109148		0.38	0.009	4.01	1.91	34.9	<0.02	<10	380	0.48	0.22	0.13	1.77	22.6	12.4	66
ZZ109149		0.48	<0.001	0.11	1.68	8.5	<0.02	<10	280	0.40	0.08	0.74	0.16	13.45	8.6	59
ZZ109150		0.42	0.001	0.07	1.66	8.4	<0.02	<10	380	0.41	0.07	0.90	0.22	14.55	8.7	51
ZZ109151		0.56	0.003	0.66	1.16	75.6	<0.02	<10	70	0.29	0.58	0.13	0.50	30.4	11.2	27
ZZ109152		0.46	0.001	0.30	1.58	42.1	<0.02	<10	90	0.45	0.44	0.13	0.28	51.7	12.4	26
ZZ109153		0.44	0.004	0.34	1.74	52.2	<0.02	<10	50	0.37	0.50	0.05	0.38	45.1	14.2	26
ZZ109154		0.46	0.002	0.23	1.46	32.0	<0.02	<10	90	0.38	0.43	0.09	0.28	36.7	8.7	29
ZZ109155		0.43	0.004	0.57	1.16	27.3	<0.02	<10	70	0.38	0.33	0.19	0.42	43.9	12.8	17
ZZ109156		0.43	0.004	1.45	1.48	41.9	<0.02	<10	140	0.51	0.42	0.09	0.52	37.9	11.9	31
ZZ109157		0.49	0.002	0.21	1.24	20.5	<0.02	<10	100	0.39	0.51	0.17	0.27	25.7	9.3	27
ZZ109158		0.47	<0.001	0.48	1.71	13.3	<0.02	<10	80	0.55	0.71	0.26	0.37	53.6	13.8	25
ZZ109159		0.52	0.002	0.19	1.62	29.4	<0.02	<10	80	0.44	0.33	0.09	0.36	48.1	11.9	27
ZZ109160		0.40	0.001	0.43	1.06	25.0	<0.02	<10	100	0.43	0.25	0.32	0.42	46.7	15.5	15



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109121		27.1	91.1	9.55	17.45	0.12	0.05	0.02	0.031	0.64	4.1	20.8	2.60	2580	0.33
ZZ109122		15.60	68.1	5.60	7.32	<0.05	<0.02	0.04	0.034	0.08	6.8	18.1	0.94	1000	0.86
ZZ109123		10.00	81.9	4.55	6.43	<0.05	<0.02	0.02	0.026	0.07	5.4	24.9	1.18	562	0.39
ZZ109124		22.0	99.2	5.20	7.44	<0.05	<0.02	0.03	0.039	0.10	5.9	26.3	1.16	1030	0.45
ZZ109125		10.05	114.5	4.34	6.79	<0.05	<0.02	0.02	0.026	0.07	6.5	17.8	1.08	854	0.43
ZZ109126		10.10	28.4	3.30	6.39	<0.05	<0.02	0.02	0.024	0.05	5.8	27.0	1.01	432	0.43
ZZ109127		8.50	61.8	3.58	5.62	<0.05	0.02	0.02	0.023	0.08	6.6	19.2	1.05	506	0.56
ZZ109128		9.65	47.1	3.28	5.63	<0.05	<0.02	0.04	0.022	0.06	7.5	26.8	1.18	487	0.51
ZZ109129		6.00	45.9	3.03	4.99	<0.05	<0.02	0.02	0.018	0.05	7.0	14.6	0.80	356	0.48
ZZ109130		5.88	29.0	2.63	4.92	<0.05	<0.02	0.02	0.018	0.05	6.9	14.4	0.66	324	0.53
ZZ109131		4.50	47.8	3.17	5.12	<0.05	<0.02	0.03	0.023	0.05	6.1	15.6	0.78	319	0.79
ZZ109132		6.15	37.4	3.11	4.99	<0.05	<0.02	0.05	0.020	0.05	4.5	15.1	0.69	364	0.81
ZZ109133		6.39	19.0	1.66	4.57	<0.05	<0.02	0.03	0.012	0.03	5.1	0.9	0.07	142	1.05
ZZ109134		15.15	34.2	2.97	6.24	<0.05	<0.02	0.03	0.020	0.06	6.5	12.8	0.63	390	0.60
ZZ109135		3.02	28.7	2.22	6.85	<0.05	<0.02	0.02	0.013	0.03	4.6	4.6	0.29	140	0.67
ZZ109136		3.50	39.9	2.56	6.17	<0.05	<0.02	0.04	0.019	0.05	5.6	7.2	0.45	207	0.79
ZZ109137		1.29	17.4	2.71	1.18	<0.05	0.02	0.02	0.006	0.03	2.8	6.5	0.19	169	3.01
ZZ109138		3.94	37.2	2.50	4.14	<0.05	0.02	0.03	0.020	0.06	8.4	11.6	0.90	586	0.52
ZZ109139		5.54	42.9	2.96	5.05	<0.05	0.03	0.02	0.024	0.07	7.2	15.1	1.02	585	0.59
ZZ109140		4.73	33.4	2.42	3.93	<0.05	0.02	0.04	0.020	0.06	7.0	13.8	1.14	695	0.69
ZZ109141		3.27	22.1	2.06	6.40	<0.05	<0.02	0.02	0.012	0.03	3.4	8.0	0.69	158	0.69
ZZ109142		3.78	8.0	1.92	6.47	<0.05	<0.02	0.02	0.009	0.02	2.5	13.1	1.46	190	0.70
ZZ109143		13.40	26.0	2.81	5.37	<0.05	<0.02	0.02	0.027	0.04	7.4	19.3	0.87	766	0.76
ZZ109144		3.80	34.1	2.58	4.64	<0.05	<0.02	0.01	0.020	0.06	6.6	15.9	1.20	422	0.55
ZZ109145		4.58	31.1	2.85	4.51	<0.05	0.02	0.02	0.020	0.12	12.8	19.2	2.26	546	0.45
ZZ109146		4.47	34.3	2.73	5.03	<0.05	<0.02	0.02	0.018	0.05	7.9	20.0	1.18	473	0.68
ZZ109147		7.97	39.4	2.48	5.15	<0.05	<0.02	0.04	0.024	0.06	13.3	18.7	0.83	428	7.01
ZZ109148		4.63	102.0	3.71	4.54	0.06	<0.02	0.05	0.037	0.07	13.0	15.6	1.09	331	23.0
ZZ109149		2.65	23.8	1.99	5.01	<0.05	0.02	0.02	0.029	0.03	11.6	13.7	2.12	739	1.19
ZZ109150		2.90	26.2	2.10	4.78	<0.05	0.02	0.01	0.028	0.05	10.3	12.7	1.93	357	0.46
ZZ109151		2.79	33.0	2.95	4.18	<0.05	0.03	0.02	0.050	0.08	14.1	9.8	0.59	593	1.53
ZZ109152		2.55	44.3	3.13	3.89	0.06	0.02	0.01	0.030	0.06	26.0	11.9	0.84	414	0.81
ZZ109153		2.83	48.9	3.77	4.20	0.05	0.06	0.02	0.041	0.07	21.3	13.0	1.02	502	1.26
ZZ109154		2.85	25.3	3.11	4.58	<0.05	0.02	0.02	0.033	0.07	17.1	15.6	0.72	305	1.33
ZZ109155		3.11	22.1	3.69	2.66	0.05	0.02	0.02	0.031	0.05	19.5	9.7	0.56	773	0.83
ZZ109156		3.44	38.5	3.30	4.80	<0.05	0.02	0.03	0.030	0.06	19.3	13.7	0.67	888	1.37
ZZ109157		2.58	23.2	2.45	4.39	<0.05	<0.02	0.02	0.036	0.06	11.9	12.6	0.47	573	2.00
ZZ109158		4.73	47.5	3.54	4.51	0.06	0.02	0.03	0.031	0.07	24.6	14.9	0.98	642	1.08
ZZ109159		3.25	40.3	3.14	4.16	0.05	0.04	0.02	0.023	0.06	24.5	14.9	0.83	278	1.28
ZZ109160		6.25	31.0	3.80	2.85	0.05	0.05	0.04	0.021	0.06	20.8	4.8	0.21	602	1.22



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ109121		0.11	92.9	220	9.8	56.1	<0.001	0.03	0.56	24.6	1.3	0.3	21.1	<0.01	0.03
ZZ109122		0.49	35.6	860	14.2	8.7	<0.001	0.06	3.77	7.3	0.7	0.4	18.1	<0.01	0.09
ZZ109123		0.42	38.5	400	9.1	6.9	<0.001	0.02	1.35	6.9	0.5	0.3	16.1	<0.01	0.03
ZZ109124		0.33	44.6	730	7.5	11.3	<0.001	0.06	3.54	7.3	0.5	0.4	18.2	<0.01	0.11
ZZ109125		0.45	37.3	890	6.4	8.7	<0.001	0.04	1.35	6.8	0.4	0.4	16.6	<0.01	0.03
ZZ109126		0.59	36.9	770	5.4	5.7	<0.001	0.05	0.74	5.3	0.4	0.4	22.2	<0.01	0.03
ZZ109127		0.77	44.0	660	5.4	8.4	<0.001	0.04	0.95	6.4	0.4	0.4	18.6	<0.01	0.03
ZZ109128		0.51	57.9	450	5.1	7.6	<0.001	0.04	0.78	3.4	0.3	0.3	13.8	<0.01	0.03
ZZ109129		0.59	31.7	590	4.7	6.9	<0.001	0.03	0.69	3.2	0.4	0.4	14.3	<0.01	0.02
ZZ109130		0.73	28.1	520	6.5	6.1	<0.001	0.03	0.74	2.7	0.3	0.4	12.9	<0.01	0.03
ZZ109131		0.67	32.3	540	5.5	5.5	<0.001	0.04	0.58	3.5	0.4	0.3	12.8	<0.01	0.03
ZZ109132		0.69	25.2	650	5.1	7.2	<0.001	0.07	0.54	2.4	0.4	0.3	10.0	<0.01	0.03
ZZ109133		0.79	8.7	490	8.2	4.1	<0.001	0.05	0.62	1.1	0.3	0.9	7.3	<0.01	0.04
ZZ109134		0.55	23.8	530	6.5	7.4	<0.001	0.05	0.80	1.9	0.4	0.4	10.8	<0.01	0.03
ZZ109135		0.88	11.8	350	7.0	4.1	<0.001	0.04	0.48	1.3	0.5	0.6	7.8	<0.01	0.04
ZZ109136		0.62	18.4	640	6.2	5.3	<0.001	0.06	0.59	1.5	0.5	0.5	10.2	<0.01	0.04
ZZ109137		0.16	34.0	310	8.3	2.7	<0.001	0.10	0.08	0.7	1.2	<0.2	56.8	<0.01	0.08
ZZ109138		0.66	30.3	810	7.9	7.8	<0.001	0.07	0.59	3.0	0.6	0.3	19.9	<0.01	0.04
ZZ109139		0.89	39.0	590	9.6	7.7	<0.001	0.03	0.57	4.6	0.5	0.3	14.0	<0.01	0.03
ZZ109140		0.62	58.9	550	124.0	8.7	<0.001	0.03	0.79	3.4	0.4	0.3	15.3	<0.01	0.72
ZZ109141		0.64	13.4	430	12.7	2.5	<0.001	0.04	0.35	1.9	0.3	0.5	5.3	<0.01	0.03
ZZ109142		0.50	151.0	210	3.7	3.5	<0.001	0.02	0.30	1.0	0.2	0.3	3.6	<0.01	0.02
ZZ109143		0.46	26.4	930	40.1	6.1	<0.001	0.08	0.70	2.3	0.7	0.4	13.4	<0.01	0.07
ZZ109144		0.85	45.6	510	8.0	7.1	<0.001	0.02	0.43	3.7	0.5	0.4	12.1	<0.01	0.03
ZZ109145		0.44	19.5	530	9.4	8.0	<0.001	0.19	0.33	4.5	0.8	0.3	27.0	<0.01	0.03
ZZ109146		0.49	22.7	750	70.6	6.3	<0.001	0.05	0.55	2.4	0.5	0.3	12.4	<0.01	0.08
ZZ109147		0.48	28.3	750	24.5	8.6	<0.001	0.04	0.75	1.8	2.1	0.4	13.8	<0.01	0.07
ZZ109148		0.38	82.5	970	17.9	8.7	<0.001	0.08	2.48	1.5	12.6	0.3	27.2	<0.01	0.22
ZZ109149		0.31	22.8	460	6.7	4.0	<0.001	0.04	0.35	7.7	0.8	0.2	8.8	<0.01	0.02
ZZ109150		0.45	19.3	800	5.5	4.7	<0.001	0.02	0.23	6.7	0.4	0.3	12.4	<0.01	0.02
ZZ109151		0.50	27.8	640	95.7	14.6	<0.001	0.04	4.16	1.4	0.5	0.6	14.6	<0.01	0.08
ZZ109152		0.25	36.5	560	46.1	9.3	<0.001	0.01	2.43	1.8	0.8	0.3	11.1	<0.01	0.06
ZZ109153		0.27	42.0	510	64.7	10.3	<0.001	0.02	2.91	1.2	0.6	0.3	6.3	<0.01	0.09
ZZ109154		0.62	27.0	510	52.4	11.6	<0.001	0.02	2.25	1.6	0.5	0.4	7.8	<0.01	0.06
ZZ109155		0.23	24.8	730	37.4	6.7	<0.001	0.02	1.46	1.5	0.5	0.2	6.9	<0.01	0.05
ZZ109156		0.63	32.5	390	96.0	11.0	<0.001	0.02	2.95	1.9	0.7	0.6	8.0	<0.01	0.10
ZZ109157		0.63	23.3	480	29.5	10.5	<0.001	0.03	1.73	1.4	0.5	0.5	12.5	<0.01	0.09
ZZ109158		0.30	34.3	760	57.9	13.7	<0.001	0.03	0.72	1.9	0.8	0.3	11.2	<0.01	0.08
ZZ109159		0.51	38.9	500	29.2	8.1	<0.001	0.01	2.10	1.8	0.7	0.3	7.1	<0.01	0.06
ZZ109160		0.42	48.8	660	26.6	9.1	<0.001	0.02	2.97	2.3	0.7	0.4	10.1	<0.01	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109121		0.201	0.75	0.55	434	0.44	18.35	130	1.3
ZZ109122		0.070	0.39	0.40	172	0.42	6.51	55	<0.5
ZZ109123		0.078	0.13	0.33	167	0.41	4.27	52	<0.5
ZZ109124		0.061	0.47	0.38	179	0.29	5.85	60	<0.5
ZZ109125		0.080	0.14	0.35	159	0.37	5.02	48	<0.5
ZZ109126		0.053	0.10	0.34	113	0.33	4.17	40	<0.5
ZZ109127		0.080	0.13	0.36	113	1.60	4.35	46	0.5
ZZ109128		0.076	0.09	0.43	94	0.35	3.63	42	<0.5
ZZ109129		0.074	0.10	0.42	95	1.34	4.10	39	<0.5
ZZ109130		0.082	0.09	0.39	82	0.77	3.54	39	<0.5
ZZ109131		0.076	0.08	0.46	98	0.51	3.71	42	<0.5
ZZ109132		0.081	0.09	0.41	93	0.55	3.15	41	<0.5
ZZ109133		0.078	0.14	0.36	96	0.26	1.27	26	<0.5
ZZ109134		0.055	0.15	0.38	94	0.33	3.50	48	<0.5
ZZ109135		0.083	0.09	0.36	78	0.25	1.90	25	<0.5
ZZ109136		0.070	0.12	0.49	96	1.15	2.77	32	<0.5
ZZ109137		0.016	0.03	0.91	5	0.18	5.43	49	0.8
ZZ109138		0.043	0.11	0.97	66	0.80	9.23	47	0.7
ZZ109139		0.060	0.11	0.50	75	0.55	4.99	52	0.8
ZZ109140		0.050	0.15	0.44	58	0.28	5.84	171	0.6
ZZ109141		0.101	0.10	0.22	89	0.29	2.90	29	<0.5
ZZ109142		0.085	0.08	0.14	60	0.16	1.17	32	<0.5
ZZ109143		0.043	0.17	0.46	77	0.26	6.66	69	<0.5
ZZ109144		0.067	0.10	0.43	62	0.34	5.31	52	<0.5
ZZ109145		0.070	0.14	0.62	51	0.25	11.15	53	0.5
ZZ109146		0.061	0.11	0.46	64	0.21	5.48	83	<0.5
ZZ109147		0.033	0.21	0.79	54	0.48	9.65	81	<0.5
ZZ109148		0.036	0.26	1.08	81	0.45	8.38	350	<0.5
ZZ109149		0.066	0.11	0.41	76	0.10	14.45	45	1.0
ZZ109150		0.071	0.12	0.30	72	0.12	8.98	55	0.6
ZZ109151		0.024	0.09	0.70	32	0.40	3.49	148	1.0
ZZ109152		0.011	0.12	0.92	22	0.21	7.85	112	0.8
ZZ109153		0.010	0.12	0.83	22	0.21	4.98	148	1.9
ZZ109154		0.021	0.11	0.66	34	0.29	3.69	108	0.6
ZZ109155		0.008	0.07	0.61	14	0.13	6.07	95	0.7
ZZ109156		0.025	0.14	0.78	37	0.77	7.80	227	0.5
ZZ109157		0.034	0.10	0.66	39	0.38	3.51	80	<0.5
ZZ109158		0.022	0.14	0.92	25	0.18	11.75	88	0.5
ZZ109159		0.020	0.11	0.98	28	0.18	6.11	112	1.4
ZZ109160		0.011	0.16	0.81	23	0.19	13.40	99	1.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109161		0.38	0.002	2.29	1.46	74.5	<0.02	<10	70	0.34	0.49	0.12	2.09	30.5	11.0	30
ZZ109162		0.36	0.005	0.23	1.44	48.9	<0.02	<10	110	0.33	0.34	0.10	0.27	32.8	7.3	28
ZZ109163		0.36	0.011	1.89	1.43	454	<0.02	<10	80	0.31	2.41	0.05	2.40	27.1	12.9	196
ZZ109164		0.37	0.006	1.11	4.21	525	<0.02	<10	130	1.70	0.18	0.74	0.64	24.8	59.5	864
ZZ109165		0.29	<0.001	0.40	1.51	48.7	<0.02	<10	60	0.40	0.40	0.07	0.31	27.7	7.8	31
ZZ109166		0.38	0.004	0.17	1.37	15.7	<0.02	<10	130	0.44	0.27	0.11	0.23	35.7	6.7	27
ZZ109167		0.34	0.002	0.09	1.69	16.5	<0.02	<10	120	0.51	0.29	0.10	0.29	35.1	8.5	31
ZZ109168		0.23	0.001	0.32	1.51	27.4	<0.02	<10	70	0.29	0.22	0.08	0.46	26.9	9.9	47
ZZ109169		0.33	<0.001	0.21	1.93	13.9	<0.02	<10	140	0.43	0.19	0.11	0.24	63.9	9.0	41
ZZ109170		0.24	<0.001	0.08	1.52	2.7	<0.02	<10	100	0.40	0.06	0.13	0.17	28.9	5.5	18
ZZ109171		0.50	<0.001	0.37	1.77	14.2	<0.02	<10	90	0.41	0.21	0.14	0.24	29.0	8.8	40
ZZ109172		0.43	<0.001	0.08	1.53	12.7	<0.02	<10	80	0.32	0.18	0.12	0.19	27.9	8.3	45
ZZ109173		0.34	0.002	0.12	1.56	17.9	<0.02	<10	90	0.34	0.24	0.10	0.23	28.4	8.0	41
ZZ109174		0.38	0.001	0.18	2.13	25.9	<0.02	<10	120	0.44	0.31	0.12	0.34	31.3	12.0	61
ZZ109175		0.42	0.001	0.12	2.17	19.4	<0.02	<10	90	0.40	0.19	0.11	0.27	31.4	14.1	76
ZZ109176		0.49	0.004	0.14	1.86	51.0	<0.02	<10	90	0.45	0.22	0.06	0.35	37.0	11.9	44
ZZ109177		0.46	0.001	0.08	1.48	12.2	<0.02	<10	80	0.28	0.36	0.10	0.20	27.9	7.7	39
ZZ109178		0.42	0.001	0.11	0.97	7.8	<0.02	<10	60	0.18	0.38	0.07	0.25	22.2	6.4	23
ZZ109179		0.42	<0.001	0.21	1.37	13.8	<0.02	<10	70	0.38	0.23	0.08	0.41	36.2	9.0	29
ZZ109180		0.46	0.005	0.21	1.76	15.7	<0.02	<10	80	0.45	0.24	0.10	0.54	41.7	13.5	37
ZZ109181		0.30	0.005	0.44	1.78	18.9	<0.02	<10	100	0.48	0.25	0.07	0.91	42.9	13.2	38
ZZ109182		0.41	0.002	0.12	1.51	9.5	<0.02	<10	70	0.26	0.30	0.08	0.44	32.7	7.1	29
ZZ109183		0.35	0.002	0.50	1.69	10.9	<0.02	<10	70	0.47	0.26	0.11	0.65	38.5	9.0	30
ZZ109184		0.36	0.001	0.11	0.99	5.7	<0.02	<10	40	0.13	0.29	0.06	0.15	26.8	5.3	18
ZZ109185		0.38	<0.001	0.34	1.36	13.7	<0.02	<10	60	0.21	0.28	0.07	0.21	39.1	7.3	29
ZZ109186		0.25	<0.001	0.13	0.39	2.8	<0.02	<10	30	0.07	0.15	0.03	0.09	10.40	1.9	9
ZZ109187		0.27	<0.001	0.22	0.88	5.9	<0.02	<10	50	0.13	0.28	0.05	0.15	21.2	4.5	18
ZZ109188		0.36	<0.001	0.23	0.95	5.3	<0.02	<10	100	0.18	0.26	0.47	0.28	19.40	4.2	20
ZZ109189		0.30	0.001	0.14	1.74	10.2	<0.02	<10	70	0.53	0.34	0.11	0.29	43.7	8.0	36
ZZ109190		0.37	<0.001	0.03	1.23	8.1	<0.02	<10	50	0.19	0.28	0.11	0.10	24.8	5.1	29
ZZ109191		0.39	0.007	0.06	1.01	9.5	<0.02	<10	50	0.20	0.25	0.12	0.09	22.4	3.7	25
ZZ109192		0.47	<0.001	0.06	1.01	7.8	<0.02	<10	40	0.13	0.29	0.08	0.07	19.05	3.2	23
ZZ109193		0.46	<0.001	0.04	0.81	3.0	<0.02	<10	60	0.12	0.34	0.12	0.08	21.9	2.0	18
ZZ109194		0.34	<0.001	0.09	1.77	10.4	<0.02	<10	70	0.45	0.23	0.20	0.18	30.4	8.5	45
ZZ109195		0.41	0.003	0.08	0.53	1.9	<0.02	<10	50	0.10	0.20	0.13	0.12	20.2	2.3	16
ZZ109196		0.31	0.011	0.11	1.51	68.2	<0.02	<10	110	0.85	0.33	0.26	0.26	51.6	10.9	31
ZZ109197		0.35	0.001	0.04	1.70	10.9	<0.02	<10	160	0.32	0.27	0.20	0.14	20.6	6.1	36
ZZ109198		0.45	0.002	0.10	1.29	8.9	<0.02	<10	70	0.22	0.31	0.12	0.14	20.3	5.3	30
ZZ109199		0.42	<0.001	0.06	1.66	6.9	<0.02	<10	110	0.32	0.27	0.41	0.08	31.6	7.4	47
ZZ109200		0.36	0.003	0.51	2.28	68.8	<0.02	<10	140	1.15	0.33	1.34	0.24	69.2	15.2	33



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109161		2.69	35.8	2.98	4.75	<0.05	0.03	0.02	0.033	0.06	16.1	11.1	0.86	518	1.41
ZZ109162		3.08	19.4	2.57	4.61	<0.05	0.02	0.02	0.031	0.08	16.1	13.8	0.59	223	1.45
ZZ109163		2.11	74.0	6.39	3.54	0.05	0.08	0.02	0.060	0.11	13.6	6.9	1.12	588	4.88
ZZ109164		19.00	24.1	7.24	14.90	0.22	0.06	0.04	0.067	0.47	14.5	34.8	5.01	3530	0.39
ZZ109165		7.27	24.9	3.34	6.15	<0.05	<0.02	0.04	0.028	0.08	13.4	15.2	0.56	278	1.85
ZZ109166		1.94	17.8	2.03	4.35	<0.05	0.03	0.02	0.019	0.06	18.6	13.2	0.51	182	1.75
ZZ109167		2.87	21.8	2.35	4.25	<0.05	<0.02	0.02	0.025	0.14	17.3	20.0	0.70	283	1.72
ZZ109168		2.32	29.4	2.79	4.37	<0.05	<0.02	0.03	0.021	0.08	13.2	9.5	0.84	337	1.43
ZZ109169		4.68	20.3	2.90	6.89	0.08	<0.02	0.01	0.022	0.81	32.1	16.2	1.43	662	0.54
ZZ109170		8.20	13.8	2.02	4.04	<0.05	<0.02	0.01	0.013	0.41	11.4	13.4	0.77	269	0.37
ZZ109171		3.08	19.8	2.28	4.28	<0.05	<0.02	0.03	0.019	0.13	13.7	15.9	0.89	237	1.32
ZZ109172		2.30	17.6	2.08	3.77	<0.05	<0.02	0.02	0.016	0.08	13.5	15.4	0.97	222	0.93
ZZ109173		3.28	17.6	2.33	4.88	<0.05	<0.02	0.02	0.021	0.06	14.1	13.3	0.67	300	2.78
ZZ109174		4.04	28.0	3.58	5.21	<0.05	0.07	0.02	0.026	0.07	15.7	24.6	1.00	318	2.05
ZZ109175		2.75	35.0	3.17	4.84	0.05	0.03	0.02	0.019	0.08	15.7	18.6	1.56	325	1.29
ZZ109176		3.16	32.8	3.03	3.87	0.05	0.04	0.04	0.021	0.08	18.3	20.4	0.83	254	1.57
ZZ109177		3.10	22.1	3.22	6.41	<0.05	0.02	0.02	0.020	0.08	14.1	12.6	0.65	226	2.32
ZZ109178		2.56	26.3	2.34	4.66	<0.05	<0.02	0.03	0.017	0.06	11.3	5.9	0.33	157	3.42
ZZ109179		1.91	30.7	2.75	3.40	0.05	<0.02	0.03	0.019	0.06	18.7	17.1	0.54	197	2.48
ZZ109180		2.57	38.7	3.20	3.51	0.05	0.03	0.02	0.021	0.07	21.2	17.1	0.68	314	2.64
ZZ109181		2.44	54.3	3.63	3.57	0.06	0.03	0.03	0.034	0.07	22.5	15.9	0.71	276	6.10
ZZ109182		2.24	25.2	2.94	4.69	<0.05	<0.02	0.02	0.019	0.05	16.6	11.3	0.45	210	2.80
ZZ109183		2.67	30.6	2.96	3.75	0.05	0.02	0.04	0.021	0.05	18.8	16.1	0.51	186	2.11
ZZ109184		2.02	17.9	2.17	5.86	<0.05	<0.02	0.01	0.014	0.04	13.6	5.3	0.29	192	2.15
ZZ109185		3.12	25.7	3.24	5.36	0.05	<0.02	0.02	0.020	0.05	20.0	9.0	0.49	227	2.14
ZZ109186		3.42	6.5	0.90	2.45	<0.05	<0.02	0.02	0.008	0.03	5.4	1.4	0.04	48	0.94
ZZ109187		5.05	14.2	1.82	4.45	<0.05	<0.02	0.02	0.011	0.04	10.7	4.2	0.26	116	1.79
ZZ109188		3.18	10.4	1.69	4.79	<0.05	<0.02	0.03	0.015	0.06	10.3	6.0	0.30	264	1.73
ZZ109189		7.18	21.6	2.61	5.22	0.05	<0.02	0.03	0.022	0.09	20.8	15.7	0.53	292	1.47
ZZ109190		2.73	11.0	1.91	6.87	<0.05	<0.02	0.01	0.017	0.06	12.3	8.9	0.40	135	1.40
ZZ109191		2.49	8.8	1.54	4.93	<0.05	<0.02	0.02	0.013	0.04	11.6	5.9	0.29	115	1.36
ZZ109192		3.71	9.5	1.44	6.32	<0.05	<0.02	0.01	0.012	0.05	9.7	4.5	0.26	102	1.70
ZZ109193		6.92	5.1	0.96	4.86	<0.05	<0.02	0.01	0.010	0.04	11.3	3.3	0.18	124	1.28
ZZ109194		5.02	18.0	2.77	5.53	<0.05	0.02	0.01	0.022	0.09	15.1	24.4	0.77	252	1.11
ZZ109195		2.58	5.6	0.82	3.04	<0.05	<0.02	0.01	0.008	0.05	10.5	2.9	0.18	68	0.84
ZZ109196		15.55	24.0	3.34	4.48	0.05	<0.02	0.01	0.027	0.08	22.5	21.8	0.48	588	1.54
ZZ109197		15.50	13.4	2.46	8.14	<0.05	<0.02	0.01	0.021	0.07	10.3	23.3	0.56	174	1.46
ZZ109198		3.94	10.2	2.12	8.04	<0.05	0.02	0.01	0.018	0.06	10.4	10.2	0.45	158	1.90
ZZ109199		2.84	13.1	2.01	5.50	<0.05	0.02	0.01	0.018	0.07	15.9	18.3	0.81	224	0.55
ZZ109200		10.10	33.8	3.36	7.08	0.10	0.04	0.03	0.030	0.21	40.9	60.8	1.38	850	0.79



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ109161		0.67	31.5	350	154.5	10.4	<0.001	0.02	2.23	2.1	0.6	0.5	8.2	<0.01	0.06
ZZ109162		1.03	21.8	260	33.4	13.8	<0.001	0.01	3.50	2.1	0.6	0.5	8.4	<0.01	0.06
ZZ109163		0.20	71.1	880	164.5	10.2	<0.001	0.39	1.92	8.4	2.7	0.2	89.5	<0.01	0.22
ZZ109164		0.11	561	1140	17.3	58.1	<0.001	0.01	14.20	27.3	1.1	0.8	26.9	<0.01	0.04
ZZ109165		1.47	24.0	380	26.8	12.2	<0.001	0.02	2.57	2.5	0.6	0.5	7.9	<0.01	0.06
ZZ109166		1.06	18.4	390	17.7	8.5	<0.001	0.01	1.39	2.4	0.7	0.5	8.9	<0.01	0.04
ZZ109167		0.95	26.0	390	18.7	14.8	<0.001	0.02	1.71	2.2	0.7	0.4	9.4	<0.01	0.04
ZZ109168		0.22	36.2	830	31.7	11.1	<0.001	0.05	3.45	1.0	0.5	0.3	11.6	<0.01	0.05
ZZ109169		0.58	24.3	490	28.5	50.5	<0.001	0.02	0.81	4.0	0.3	0.5	10.1	<0.01	0.03
ZZ109170		0.50	8.3	430	6.4	39.0	<0.001	0.01	0.48	1.7	0.3	0.4	11.6	<0.01	0.01
ZZ109171		1.28	29.2	460	15.9	14.2	<0.001	0.02	1.27	2.4	0.5	0.4	12.0	<0.01	0.03
ZZ109172		1.08	30.5	250	12.0	9.4	<0.001	0.01	1.19	2.0	0.5	0.4	10.6	<0.01	0.02
ZZ109173		0.77	26.1	430	15.8	9.0	<0.001	0.03	1.27	1.9	0.6	0.5	9.5	<0.01	0.04
ZZ109174		1.23	44.1	440	16.6	10.5	<0.001	0.02	1.86	3.7	0.7	0.4	10.9	<0.01	0.07
ZZ109175		0.59	58.2	410	12.6	9.7	<0.001	0.02	1.62	3.0	0.6	0.3	9.4	<0.01	0.04
ZZ109176		0.58	41.4	380	16.4	9.7	<0.001	0.02	1.89	2.6	0.9	0.3	8.7	<0.01	0.05
ZZ109177		1.46	26.8	270	13.7	12.9	<0.001	0.02	1.23	2.7	0.6	0.6	9.8	<0.01	0.04
ZZ109178		0.45	28.6	570	19.2	7.5	<0.001	0.04	1.22	0.8	0.7	0.6	11.2	<0.01	0.06
ZZ109179		0.62	36.4	430	15.9	8.3	<0.001	0.03	1.66	1.6	1.0	0.3	10.3	<0.01	0.05
ZZ109180		0.65	47.2	600	16.4	9.1	<0.001	0.03	2.39	2.3	1.4	0.3	12.1	<0.01	0.06
ZZ109181		0.53	55.2	450	22.1	8.7	<0.001	0.04	2.32	2.7	2.6	0.3	16.6	<0.01	0.08
ZZ109182		1.16	30.8	430	14.0	7.5	<0.001	0.02	1.23	2.0	1.0	0.5	9.5	<0.01	0.05
ZZ109183		0.84	38.8	590	14.7	7.5	<0.001	0.02	1.39	2.1	1.2	0.4	10.2	<0.01	0.05
ZZ109184		0.63	17.7	370	10.5	6.4	<0.001	0.01	1.06	1.3	0.4	0.6	8.4	<0.01	0.04
ZZ109185		0.81	31.6	630	19.0	10.1	<0.001	0.02	3.40	1.7	0.8	0.4	10.1	<0.01	0.05
ZZ109186		0.16	8.6	650	4.7	4.0	<0.001	0.01	0.70	0.2	0.2	0.4	5.3	<0.01	0.02
ZZ109187		0.43	15.5	620	13.9	7.1	<0.001	0.02	0.99	0.8	0.2	0.5	7.4	<0.01	0.04
ZZ109188		0.60	9.8	400	11.5	10.2	<0.001	0.03	0.82	1.2	0.5	0.5	27.6	<0.01	0.04
ZZ109189		1.04	21.7	390	15.1	17.2	<0.001	0.02	2.25	2.6	0.5	0.6	9.2	<0.01	0.04
ZZ109190		1.54	16.1	290	10.5	9.6	<0.001	0.01	0.98	2.3	0.3	0.8	8.1	<0.01	0.03
ZZ109191		0.57	10.2	300	10.6	8.6	<0.001	0.02	1.17	0.8	0.2	0.6	10.1	<0.01	0.03
ZZ109192		0.90	9.4	360	12.6	9.8	<0.001	0.01	1.08	1.2	0.2	0.7	7.9	<0.01	0.03
ZZ109193		0.82	6.3	210	11.8	12.1	<0.001	0.01	0.55	1.0	<0.2	0.8	9.5	<0.01	0.03
ZZ109194		1.28	25.0	500	10.9	14.6	<0.001	0.01	0.97	3.3	0.4	0.6	11.4	<0.01	0.03
ZZ109195		0.62	6.7	210	6.8	19.1	<0.001	0.01	0.51	0.8	<0.2	0.5	9.6	<0.01	0.02
ZZ109196		0.86	30.6	660	27.7	15.3	<0.001	0.02	12.75	2.3	0.5	0.5	13.1	<0.01	0.05
ZZ109197		1.64	17.4	200	13.5	10.7	<0.001	0.01	0.72	3.0	0.2	0.8	15.0	<0.01	0.03
ZZ109198		2.03	13.2	410	13.4	12.1	<0.001	0.01	0.94	2.6	0.3	0.8	9.8	<0.01	0.04
ZZ109199		1.49	23.7	540	10.0	13.7	<0.001	<0.01	0.51	3.6	0.3	0.7	19.5	<0.01	0.02
ZZ109200		0.87	38.7	1050	21.2	29.0	<0.001	0.04	2.32	4.2	1.2	0.6	36.8	<0.01	0.03



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109161		0.034	0.09	0.66	34	1.60	7.10	233	1.1
ZZ109162		0.034	0.12	0.57	37	0.62	3.66	88	0.8
ZZ109163		0.010	0.13	2.02	46	0.08	9.00	391	5.6
ZZ109164		0.130	1.84	0.76	141	0.06	25.7	254	2.9
ZZ109165		0.056	0.12	0.63	45	0.31	3.69	84	0.6
ZZ109166		0.046	0.14	0.92	36	0.34	6.38	59	0.9
ZZ109167		0.053	0.16	0.85	33	0.28	5.06	89	<0.5
ZZ109168		0.021	0.09	0.74	40	0.16	3.49	111	<0.5
ZZ109169		0.139	0.41	0.79	28	0.08	8.10	96	0.6
ZZ109170		0.050	0.36	0.71	17	0.09	6.42	64	<0.5
ZZ109171		0.065	0.16	0.75	32	0.24	4.81	68	<0.5
ZZ109172		0.062	0.10	0.68	28	0.17	4.24	61	<0.5
ZZ109173		0.051	0.15	0.78	44	0.25	4.15	61	<0.5
ZZ109174		0.048	0.12	0.75	51	0.30	4.26	84	3.7
ZZ109175		0.040	0.12	0.60	51	0.16	4.13	85	1.0
ZZ109176		0.020	0.13	0.80	37	0.16	4.43	95	1.5
ZZ109177		0.072	0.12	0.68	55	0.32	3.25	75	0.8
ZZ109178		0.035	0.13	0.70	38	0.34	2.62	73	<0.5
ZZ109179		0.027	0.10	1.00	32	0.24	4.20	100	<0.5
ZZ109180		0.023	0.14	1.04	34	0.22	5.09	124	1.0
ZZ109181		0.020	0.15	1.46	37	0.20	4.73	194	1.2
ZZ109182		0.046	0.12	0.72	40	0.28	3.72	105	0.6
ZZ109183		0.032	0.12	1.26	37	0.24	4.77	116	0.7
ZZ109184		0.048	0.07	0.53	45	0.26	2.59	64	<0.5
ZZ109185		0.029	0.12	0.76	44	0.26	3.15	101	<0.5
ZZ109186		0.021	0.06	0.34	20	0.42	0.96	19	<0.5
ZZ109187		0.040	0.07	0.55	36	0.22	2.13	39	<0.5
ZZ109188		0.047	0.09	0.51	44	0.26	3.26	43	<0.5
ZZ109189		0.060	0.15	1.59	48	0.38	4.83	64	<0.5
ZZ109190		0.086	0.11	0.55	48	0.33	2.77	36	<0.5
ZZ109191		0.048	0.08	0.55	39	0.41	2.49	32	<0.5
ZZ109192		0.073	0.09	0.54	45	0.42	2.04	29	<0.5
ZZ109193		0.074	0.08	0.42	37	0.29	2.09	24	<0.5
ZZ109194		0.072	0.09	0.64	48	0.32	4.33	66	0.9
ZZ109195		0.048	0.06	0.42	22	0.23	2.28	24	<0.5
ZZ109196		0.031	0.11	1.23	36	0.26	10.40	126	<0.5
ZZ109197		0.068	0.09	0.50	65	0.37	3.10	48	<0.5
ZZ109198		0.115	0.08	0.46	63	0.45	2.62	46	0.8
ZZ109199		0.089	0.11	0.54	45	0.29	5.44	45	0.8
ZZ109200		0.055	0.19	1.75	35	0.19	34.0	90	1.6



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109201		0.27	0.001	0.12	2.20	9.5	<0.02	<10	120	0.60	0.33	0.43	0.19	33.9	9.0	41
ZZ109202		0.26	0.016	0.04	2.04	23.0	<0.02	<10	110	0.40	0.16	0.28	0.20	20.8	20.1	58
ZZ109203		0.49	0.009	0.04	1.74	35.2	<0.02	<10	140	0.44	0.13	0.27	0.09	21.1	20.5	57
ZZ109204		0.41	0.005	0.06	1.52	44.9	<0.02	<10	180	0.41	0.19	0.20	0.11	17.05	15.0	47
ZZ109205		0.42	0.002	0.14	1.33	28.7	<0.02	<10	190	0.33	0.25	0.23	0.15	12.95	16.0	48
ZZ109206		0.22	0.004	0.09	1.59	38.9	<0.02	<10	180	0.37	0.12	0.38	0.10	16.55	19.1	54
ZZ109207		0.34	0.004	0.05	1.72	25.9	<0.02	<10	110	0.43	0.11	0.41	0.11	17.50	19.4	57
ZZ109208		0.51	0.004	0.10	1.68	26.3	<0.02	<10	190	0.46	0.09	0.53	0.10	19.40	20.3	63
ZZ109209		0.37	0.001	0.05	2.00	22.4	<0.02	<10	130	0.43	0.19	0.42	0.10	14.60	23.3	67
ZZ109210		0.31	0.003	0.07	1.26	19.9	<0.02	<10	120	0.30	0.26	0.21	0.14	15.50	13.8	52
ZZ109211		0.47	0.003	0.09	1.61	16.5	<0.02	<10	310	0.53	0.13	0.42	0.21	29.6	16.5	40
ZZ109212		0.53	0.008	0.08	1.27	12.8	<0.02	<10	220	0.37	0.18	0.43	0.10	22.2	12.9	39
ZZ109213		0.45	0.004	0.12	2.06	18.4	<0.02	<10	370	0.50	0.20	0.58	0.08	18.25	16.3	57
ZZ109214		0.48	0.003	0.05	1.46	12.9	<0.02	<10	190	0.38	0.26	0.41	0.08	19.20	14.8	52
ZZ109215		0.40	0.003	0.03	2.16	17.5	<0.02	<10	230	0.54	0.23	0.36	0.18	22.6	18.5	54
ZZ109216		0.50	0.006	0.10	1.85	19.2	<0.02	<10	320	0.44	0.19	0.59	0.13	18.75	14.6	54



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Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
ZZ109201		7.65	15.5	2.61	7.86	<0.05	0.03	0.01	0.026	0.07	16.9	28.9	0.98	232	1.08	0.01
ZZ109202		5.54	58.8	4.16	5.92	<0.05	<0.02	0.03	0.025	0.08	8.1	17.5	0.93	676	0.74	0.02
ZZ109203		6.88	62.6	4.25	5.46	<0.05	<0.02	0.02	0.024	0.07	8.4	16.5	0.97	581	0.46	0.02
ZZ109204		13.30	26.8	3.78	6.07	<0.05	<0.02	0.03	0.022	0.05	7.8	13.6	0.52	1330	0.67	0.01
ZZ109205		7.89	30.9	3.91	7.37	0.11	<0.02	0.03	0.031	0.05	6.3	7.2	0.46	779	0.70	0.02
ZZ109206		9.97	38.6	4.07	6.29	0.11	<0.02	0.03	0.028	0.08	6.4	18.8	0.89	769	0.48	0.02
ZZ109207		5.53	58.6	3.98	5.15	0.11	0.02	0.02	0.024	0.07	7.8	17.2	1.02	597	0.38	0.03
ZZ109208		6.24	70.6	4.26	5.29	0.11	0.03	0.01	0.024	0.08	8.7	16.3	1.12	643	0.29	0.04
ZZ109209		6.51	67.0	4.52	6.76	0.11	0.02	0.02	0.029	0.08	6.5	22.8	1.24	583	0.46	0.03
ZZ109210		7.31	32.7	3.68	6.10	0.11	<0.02	0.03	0.023	0.06	6.4	13.2	0.57	440	0.65	0.02
ZZ109211		5.36	42.1	3.07	4.89	0.13	0.02	0.02	0.024	0.07	13.6	14.8	0.92	736	0.39	0.02
ZZ109212		3.63	28.3	2.58	4.18	0.12	0.02	0.02	0.019	0.06	11.4	12.3	0.69	535	0.39	0.02
ZZ109213		7.03	44.4	3.82	6.00	0.12	0.04	0.04	0.028	0.11	9.8	18.6	1.10	675	0.49	0.02
ZZ109214		4.18	45.6	2.91	4.38	0.12	0.02	0.01	0.019	0.07	9.5	14.8	0.83	481	0.54	0.02
ZZ109215		6.78	46.0	3.49	5.97	0.11	0.02	0.02	0.028	0.10	10.5	19.6	1.05	647	0.58	0.02
ZZ109216		6.75	47.3	3.53	5.40	0.12	0.05	0.03	0.027	0.12	9.7	15.7	1.04	561	0.55	0.02



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CERTIFICATE OF ANALYSIS WH17127297

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ109201		1.46	22.7	260	17.8	13.9	<0.001	0.01	0.65	4.4	0.3	0.9	20.2	<0.01	0.03	4.8
ZZ109202		0.78	46.0	740	5.2	8.6	<0.001	0.04	1.10	5.9	0.4	0.4	14.0	<0.01	0.03	0.8
ZZ109203		0.79	45.9	450	5.7	8.4	<0.001	0.03	1.21	6.2	0.3	0.4	13.5	<0.01	0.03	1.3
ZZ109204		0.38	21.1	790	11.1	10.2	<0.001	0.08	1.17	1.7	0.3	0.5	13.4	<0.01	0.03	0.2
ZZ109205		0.66	24.3	740	7.4	9.4	<0.001	0.09	1.20	2.2	0.6	0.6	15.8	<0.01	0.06	<0.2
ZZ109206		0.62	33.6	830	7.2	11.4	<0.001	0.06	1.29	4.6	0.5	0.4	20.4	<0.01	0.04	0.4
ZZ109207		0.66	39.1	920	5.8	6.1	<0.001	0.03	1.15	6.0	0.4	0.3	16.3	<0.01	0.02	1.0
ZZ109208		0.57	37.9	830	5.6	6.4	<0.001	0.02	0.98	8.8	0.4	0.3	20.5	<0.01	0.03	2.2
ZZ109209		0.82	43.8	630	5.7	8.1	<0.001	0.03	0.85	7.5	0.4	0.4	17.7	<0.01	0.03	0.7
ZZ109210		0.86	27.6	520	7.1	7.9	<0.001	0.06	0.92	2.6	0.4	0.6	12.4	<0.01	0.04	0.2
ZZ109211		0.77	32.2	1000	6.3	8.2	<0.001	0.02	0.90	6.3	0.7	0.4	23.6	<0.01	0.02	1.8
ZZ109212		0.83	24.1	1000	4.6	7.4	<0.001	0.03	0.75	4.0	0.5	0.3	21.1	<0.01	0.02	1.4
ZZ109213		1.17	35.4	840	5.9	12.8	<0.001	0.03	1.02	8.0	0.5	0.5	27.0	<0.01	0.03	2.4
ZZ109214		0.82	32.8	880	4.1	7.6	<0.001	0.03	0.78	4.8	0.6	0.3	19.5	<0.01	0.02	1.5
ZZ109215		1.11	39.6	760	5.7	10.4	<0.001	0.03	0.92	5.7	0.5	0.4	20.9	<0.01	0.03	1.3
ZZ109216		1.05	35.4	950	5.1	11.9	<0.001	0.03	1.05	7.4	0.5	0.4	25.2	<0.01	0.02	2.4



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109201		0.074	0.13	0.59	52	0.33	4.28	85	1.4
ZZ109202		0.082	0.15	0.56	126	0.44	5.42	60	<0.5
ZZ109203		0.063	0.15	0.46	147	0.65	4.53	53	<0.5
ZZ109204		0.032	0.14	0.66	132	0.29	3.49	45	<0.5
ZZ109205		0.060	0.14	0.47	162	0.25	2.95	41	<0.5
ZZ109206		0.056	0.11	0.36	132	0.53	3.80	59	<0.5
ZZ109207		0.065	0.11	0.40	136	0.43	5.53	56	<0.5
ZZ109208		0.083	0.11	0.38	155	0.25	6.52	54	0.9
ZZ109209		0.096	0.12	0.35	163	0.36	5.07	56	0.6
ZZ109210		0.074	0.10	0.42	137	0.39	3.09	41	<0.5
ZZ109211		0.071	0.10	0.78	78	0.33	10.60	58	0.5
ZZ109212		0.059	0.09	0.52	70	0.47	6.81	44	0.5
ZZ109213		0.070	0.15	0.59	91	0.54	7.40	66	1.4
ZZ109214		0.077	0.11	0.45	79	0.59	6.86	45	0.6
ZZ109215		0.074	0.14	0.49	86	0.65	6.47	73	0.7
ZZ109216		0.081	0.14	0.52	87	0.54	7.34	67	1.6



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP21 ME- MS41



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CERTIFICATE WH17127454

Project: Rosy

This report is for 51 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23- JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE

JULIA LANE

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109218		0.46	0.009	0.26	2.49	28.4	<0.02	<10	540	0.73	0.23	0.60	0.11	26.0	15.5	62
ZZ109219		0.34	0.004	0.16	1.98	21.8	<0.02	<10	390	0.56	0.19	0.49	0.16	19.65	12.8	47
ZZ109220		0.53	0.005	0.11	1.89	20.9	<0.02	<10	340	0.55	0.24	0.42	0.11	21.9	15.9	53
ZZ109221		0.47	0.005	0.19	2.04	28.0	<0.02	<10	340	0.58	0.17	0.48	0.13	22.2	14.9	48
ZZ109222		0.44	0.005	0.23	1.73	19.9	<0.02	<10	290	0.48	0.14	0.49	0.10	19.60	12.9	41
ZZ109223		0.47	0.004	0.13	1.78	19.2	<0.02	<10	260	0.51	0.14	0.31	0.09	19.25	11.1	37
ZZ109224		0.35	0.010	0.68	2.57	31.3	<0.02	<10	510	0.81	0.20	0.55	0.09	27.1	16.0	53
ZZ109225		0.44	0.004	0.29	2.18	27.9	<0.02	<10	340	0.65	0.17	0.37	0.15	26.6	13.4	45
ZZ109226		0.36	0.003	0.09	1.91	29.1	<0.02	<10	220	0.49	0.16	0.42	0.15	23.2	14.2	42
ZZ109227		0.41	0.004	0.10	2.01	29.9	<0.02	<10	270	0.57	0.16	0.38	0.12	26.5	15.1	43
ZZ109228		0.38	0.006	0.33	2.07	32.2	<0.02	<10	340	0.60	0.15	0.39	0.09	22.5	15.4	42
ZZ109229		0.47	0.012	0.22	1.85	61.7	<0.02	<10	360	0.59	0.13	0.64	0.10	26.3	15.0	40
ZZ109230		0.41	0.022	0.40	1.25	100.5	<0.02	<10	210	0.44	0.08	0.43	0.11	22.9	11.7	31
ZZ109231		0.47	0.011	0.41	1.77	59.3	<0.02	<10	290	0.59	0.11	0.45	0.07	21.1	11.6	35
ZZ109232		0.37	0.022	0.61	2.33	103.0	0.02	<10	470	0.85	0.16	0.68	0.12	28.8	15.9	45
ZZ109233		0.43	0.080	2.04	1.44	324	0.08	<10	300	0.90	0.07	0.59	0.16	39.2	16.0	30
ZZ109234		0.42	0.007	0.27	1.56	18.9	<0.02	<10	240	0.39	0.09	0.61	0.15	19.00	12.1	37
ZZ109235		0.40	0.004	0.29	1.83	24.5	<0.02	<10	330	0.43	0.13	0.64	0.15	17.25	16.7	41
ZZ109236		0.66	0.005	0.13	1.79	19.6	0.02	<10	300	0.53	0.17	0.62	0.25	26.9	15.9	45
ZZ109237		0.44	0.004	0.08	1.26	14.6	<0.02	<10	200	0.35	0.11	0.51	0.09	23.3	9.7	34
ZZ109238		0.53	0.005	0.13	1.58	19.4	<0.02	<10	280	0.49	0.13	0.56	0.15	28.0	13.3	42
ZZ109239		0.45	0.004	0.18	1.84	25.3	<0.02	<10	290	0.50	0.14	0.57	0.11	21.6	12.2	46
ZZ109240		0.47	0.002	0.09	1.42	12.4	<0.02	<10	280	0.40	0.13	0.63	0.14	21.2	14.0	41
ZZ109241		0.29	0.003	0.20	2.18	17.5	<0.02	<10	410	0.56	0.23	0.39	0.09	20.5	12.9	48
ZZ109242		0.30	0.001	0.06	1.43	17.4	<0.02	<10	140	0.33	0.22	0.21	0.24	12.20	9.6	38
ZZ109243		0.38	0.002	0.08	2.01	29.9	<0.02	<10	430	0.50	0.21	0.42	0.11	20.0	13.9	51
ZZ109244		0.48	0.002	0.07	1.97	21.2	<0.02	<10	310	0.51	0.22	0.43	0.12	19.85	16.1	58
ZZ109245		0.42	0.005	0.08	1.85	14.6	<0.02	<10	190	0.46	0.29	0.44	0.10	18.05	18.5	59
ZZ109246		0.35	0.001	0.07	1.61	13.5	<0.02	<10	200	0.32	0.16	0.38	0.09	15.95	15.6	47
ZZ109247		0.46	0.006	0.19	1.93	23.9	<0.02	<10	460	0.53	0.22	0.63	0.16	24.9	17.3	51
ZZ109248		0.39	0.004	0.09	1.73	14.4	<0.02	<10	300	0.42	0.26	0.52	0.08	16.05	13.9	57
ZZ109251		0.49	<0.001	0.11	1.98	14.8	<0.02	<10	160	0.47	0.14	0.76	0.34	24.5	12.7	37
ZZ109252		0.70	<0.001	0.06	1.90	7.2	<0.02	<10	60	0.32	0.09	0.31	0.08	10.30	15.8	137
ZZ109253		0.31	<0.001	0.08	1.46	6.1	<0.02	<10	130	0.27	0.21	0.20	0.26	11.85	10.5	64
ZZ109254		0.31	<0.001	0.08	1.16	7.9	<0.02	<10	70	0.11	0.15	0.15	0.23	8.14	12.3	94
ZZ109255		0.36	<0.001	0.07	1.49	4.2	<0.02	<10	50	0.19	0.21	0.15	0.14	10.55	9.7	69
ZZ109256		0.37	<0.001	0.09	2.70	5.7	<0.02	<10	140	0.43	0.21	0.31	0.20	13.90	22.3	97
ZZ109257		0.36	0.001	0.08	2.85	11.4	<0.02	<10	60	0.26	0.09	0.29	0.16	6.84	29.0	180
ZZ109258		0.48	0.009	0.04	1.77	6.8	<0.02	<10	70	0.23	0.15	0.20	0.09	9.97	14.5	93
ZZ109259		0.32	<0.001	0.05	1.72	6.7	<0.02	<10	40	0.13	0.07	0.22	0.10	5.50	18.2	136



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109218		10.50	69.0	3.97	7.19	0.13	0.08	0.06	0.039	0.15	16.6	19.6	1.13	519	0.63
ZZ109219		8.48	41.5	2.99	5.78	0.11	<0.02	0.03	0.025	0.10	13.7	16.7	0.87	490	0.62
ZZ109220		7.26	49.4	3.20	5.59	0.12	0.04	0.02	0.026	0.08	11.6	18.2	0.94	540	0.62
ZZ109221		7.22	48.2	3.20	5.89	0.11	0.02	0.02	0.027	0.10	13.5	17.4	1.06	574	0.42
ZZ109222		4.90	36.2	2.75	4.94	0.12	0.02	0.03	0.021	0.08	11.0	14.5	0.87	456	0.42
ZZ109223		6.33	37.5	2.53	5.28	0.11	<0.02	0.02	0.022	0.06	11.4	14.1	0.79	380	0.37
ZZ109224		9.81	55.8	3.62	7.15	0.13	0.05	0.05	0.033	0.11	20.6	19.1	1.10	730	0.51
ZZ109225		8.48	45.4	3.21	6.37	0.12	<0.02	0.02	0.028	0.09	16.6	17.1	1.00	525	0.45
ZZ109226		5.85	46.5	3.18	5.36	0.11	<0.02	0.01	0.026	0.08	10.7	16.0	0.99	584	0.50
ZZ109227		8.40	40.7	3.32	5.99	0.11	<0.02	0.02	0.028	0.09	11.9	16.7	0.95	679	0.44
ZZ109228		10.05	48.6	3.29	6.21	0.10	0.04	0.04	0.029	0.10	12.6	17.6	1.03	653	0.45
ZZ109229		11.80	41.9	3.36	5.67	0.11	0.05	0.03	0.029	0.09	11.8	16.1	0.95	704	0.41
ZZ109230		9.04	26.9	2.73	4.14	0.11	0.04	0.02	0.021	0.07	11.6	12.2	0.69	537	0.36
ZZ109231		12.35	38.3	2.92	5.18	0.12	0.04	0.02	0.025	0.07	11.9	14.6	0.80	536	0.44
ZZ109232		18.30	59.7	3.67	6.76	0.12	0.06	0.04	0.035	0.11	17.4	19.4	1.04	899	0.67
ZZ109233		8.49	13.5	4.31	5.47	0.14	0.06	0.02	0.031	0.11	18.9	15.1	0.93	1380	0.54
ZZ109234		4.50	24.5	2.49	4.79	0.12	0.03	0.03	0.021	0.08	11.1	14.1	0.88	645	0.37
ZZ109235		5.43	31.5	3.79	5.11	0.11	0.04	0.04	0.024	0.09	10.1	14.3	0.94	991	0.37
ZZ109236		5.76	62.9	3.02	5.55	0.13	0.16	0.03	0.026	0.14	13.9	16.1	1.03	400	0.47
ZZ109237		3.72	31.2	2.32	4.08	0.12	0.05	0.01	0.018	0.07	13.7	11.7	0.74	319	0.33
ZZ109238		4.86	49.1	2.71	4.95	0.12	0.07	0.02	0.023	0.10	14.1	13.4	0.90	444	0.63
ZZ109239		6.11	41.5	3.01	5.61	0.11	0.05	0.03	0.025	0.10	12.6	16.2	0.93	459	0.47
ZZ109240		4.39	39.7	2.69	4.42	0.12	0.05	0.01	0.021	0.09	11.7	11.6	0.84	493	0.47
ZZ109241		8.41	45.5	3.06	6.14	0.11	<0.02	0.04	0.027	0.09	11.9	16.5	0.85	464	0.52
ZZ109242		5.62	23.3	2.96	6.01	0.11	<0.02	0.05	0.023	0.08	6.1	7.8	0.50	536	0.67
ZZ109243		9.40	42.9	3.34	6.80	0.11	<0.02	0.02	0.028	0.09	10.4	16.4	0.93	677	0.63
ZZ109244		8.35	51.2	3.40	6.02	0.11	<0.02	0.01	0.026	0.10	10.5	17.1	1.04	553	0.65
ZZ109245		6.01	64.4	3.34	5.64	0.12	0.02	0.01	0.023	0.10	8.4	18.3	1.01	533	0.63
ZZ109246		4.80	50.0	3.29	5.51	0.11	<0.02	0.02	0.023	0.09	7.1	14.2	0.92	549	0.51
ZZ109247		10.80	67.1	3.62	5.81	0.12	0.02	0.05	0.028	0.11	13.1	16.3	0.99	776	0.56
ZZ109248		6.26	48.8	3.03	5.38	0.11	0.03	0.02	0.023	0.09	8.9	15.8	0.93	518	0.59
ZZ109251		3.27	40.7	2.86	5.32	0.12	0.03	0.01	0.023	0.18	14.4	17.6	2.18	807	0.84
ZZ109252		1.64	55.8	1.97	3.87	0.11	0.02	0.01	0.012	0.04	5.9	22.2	1.91	251	0.46
ZZ109253		2.13	30.8	2.88	7.93	0.11	0.02	0.02	0.018	0.06	5.8	16.7	0.73	207	1.09
ZZ109254		2.76	28.0	2.20	5.51	0.11	<0.02	0.03	0.011	0.03	3.9	9.3	0.91	299	1.02
ZZ109255		2.15	40.8	2.64	6.70	0.11	<0.02	0.03	0.019	0.04	5.2	9.3	0.59	174	0.73
ZZ109256		2.93	66.4	3.00	5.61	0.10	0.03	0.06	0.022	0.07	6.2	20.3	1.13	311	0.92
ZZ109257		2.33	81.4	3.18	5.28	0.11	0.04	0.02	0.019	0.03	2.9	22.5	2.42	501	0.40
ZZ109258		1.97	44.5	2.36	4.75	0.11	<0.02	0.02	0.019	0.03	4.9	18.3	1.10	221	0.56
ZZ109259		1.61	38.6	2.15	3.86	0.10	<0.02	0.03	0.011	0.02	2.5	16.2	1.63	278	0.49



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm 0.05	ppm 0.2	ppm 10	ppm 0.2	ppm 0.1	ppm 0.001	% 0.01	ppm 0.05	ppm 0.1	ppm 0.2	ppm 0.2	ppm 0.2	ppm 0.01	ppm 0.01	ppm 0.2
ZZ109218		1.45	41.7	960	7.2	19.7	<0.001	0.05	1.35	11.3	1.0	0.5	30.5	<0.01	0.04	2.5
ZZ109219		0.65	31.9	1010	5.0	14.1	<0.001	0.05	0.84	3.9	0.7	0.4	24.4	<0.01	0.02	0.4
ZZ109220		0.91	36.8	810	5.5	11.4	<0.001	0.03	0.94	6.6	0.6	0.4	23.5	<0.01	0.02	1.7
ZZ109221		0.80	33.5	920	5.5	12.0	<0.001	0.03	0.90	7.0	0.6	0.4	27.9	<0.01	0.03	1.3
ZZ109222		0.79	27.2	920	4.8	10.0	<0.001	0.03	0.83	5.7	0.6	0.4	25.9	<0.01	0.02	1.4
ZZ109223		0.48	23.3	820	4.8	8.7	<0.001	0.04	0.73	2.6	0.5	0.3	20.4	<0.01	0.03	0.2
ZZ109224		0.97	35.2	1120	7.2	16.1	<0.001	0.07	1.02	7.3	1.1	0.5	32.6	<0.01	0.04	1.3
ZZ109225		0.52	30.7	1000	6.0	11.4	<0.001	0.05	0.96	3.3	0.7	0.4	25.8	<0.01	0.02	0.3
ZZ109226		0.79	30.0	840	6.3	7.9	<0.001	0.04	1.03	3.9	0.4	0.4	23.4	<0.01	0.03	0.8
ZZ109227		0.71	27.1	980	6.3	10.9	<0.001	0.05	1.22	4.1	0.6	0.4	24.4	<0.01	0.02	0.8
ZZ109228		0.90	29.1	750	6.1	13.1	<0.001	0.05	1.06	6.1	0.5	0.4	31.2	<0.01	0.03	1.4
ZZ109229		0.84	27.4	720	6.6	11.9	<0.001	0.04	1.84	7.2	0.6	0.4	33.5	<0.01	0.04	1.9
ZZ109230		0.65	19.8	730	5.8	8.7	<0.001	0.03	2.37	5.1	0.6	0.3	23.2	<0.01	0.05	1.8
ZZ109231		0.62	21.2	870	6.1	10.6	<0.001	0.05	1.64	4.2	0.6	0.4	25.7	<0.01	0.03	1.0
ZZ109232		0.85	30.9	1310	8.7	17.2	<0.001	0.08	2.26	6.6	1.0	0.5	38.7	<0.01	0.03	1.4
ZZ109233		0.22	17.4	1620	10.1	7.2	<0.001	0.11	4.72	7.7	1.2	0.4	32.1	<0.01	0.03	3.8
ZZ109234		0.74	19.5	1230	4.8	9.0	<0.001	0.04	0.93	5.8	0.4	0.3	27.8	<0.01	0.02	2.3
ZZ109235		0.91	24.4	1140	5.1	10.9	<0.001	0.04	0.83	6.6	0.4	0.4	28.7	<0.01	0.02	2.4
ZZ109236		0.82	33.4	1040	6.0	12.9	<0.001	0.02	0.97	8.5	0.8	0.4	31.6	<0.01	0.03	4.0
ZZ109237		0.77	19.9	1180	4.2	6.9	<0.001	0.02	0.88	6.0	0.5	0.3	25.3	<0.01	0.03	3.0
ZZ109238		0.88	29.4	1130	5.1	8.8	<0.001	0.02	1.07	6.8	0.5	0.4	27.2	<0.01	0.03	3.3
ZZ109239		1.01	28.3	990	5.3	12.0	<0.001	0.02	1.01	8.0	0.6	0.4	29.2	<0.01	0.03	2.9
ZZ109240		0.99	27.2	1160	4.5	9.2	<0.001	0.03	0.85	6.4	0.7	0.3	30.1	<0.01	0.02	2.6
ZZ109241		0.68	31.6	1140	5.7	11.6	<0.001	0.07	0.74	3.8	0.6	0.4	22.2	<0.01	0.02	0.4
ZZ109242		0.61	17.4	970	6.5	11.1	<0.001	0.09	0.97	1.4	0.4	0.4	16.5	<0.01	0.03	<0.2
ZZ109243		0.57	32.3	810	5.2	14.0	<0.001	0.06	1.04	2.7	0.6	0.5	24.6	<0.01	0.02	0.2
ZZ109244		0.76	38.3	690	5.3	11.1	<0.001	0.03	0.95	5.0	0.5	0.4	23.3	<0.01	0.02	0.7
ZZ109245		0.91	40.7	680	4.5	10.6	<0.001	0.03	0.77	5.9	0.7	0.4	21.7	<0.01	0.03	1.5
ZZ109246		0.76	31.2	650	4.4	9.9	<0.001	0.04	0.87	4.0	0.4	0.4	23.2	<0.01	0.02	0.5
ZZ109247		0.88	38.6	1040	5.7	13.3	<0.001	0.03	1.30	7.8	0.9	0.4	28.0	<0.01	0.02	1.4
ZZ109248		0.99	34.7	840	4.5	10.7	<0.001	0.04	0.85	6.0	0.6	0.4	24.8	<0.01	0.03	1.5
ZZ109251		0.40	20.4	1110	10.4	12.0	<0.001	0.05	0.18	5.7	0.8	0.3	14.9	<0.01	0.03	1.8
ZZ109252		0.42	49.2	270	4.0	3.4	<0.001	0.02	0.19	4.3	0.5	0.2	7.8	<0.01	0.02	1.3
ZZ109253		1.87	31.8	340	6.8	5.7	<0.001	0.03	0.34	3.6	0.6	0.5	12.4	<0.01	0.03	1.8
ZZ109254		1.31	35.8	210	4.0	9.0	<0.001	0.03	0.40	3.3	0.4	0.5	8.2	<0.01	0.03	0.8
ZZ109255		1.17	29.3	350	5.2	4.7	<0.001	0.04	0.36	2.3	0.7	0.5	9.1	<0.01	0.02	0.2
ZZ109256		1.40	58.3	470	5.4	7.2	<0.001	0.04	0.43	5.6	0.7	0.4	14.0	0.01	0.03	3.3
ZZ109257		0.56	85.5	320	2.7	3.2	<0.001	0.02	0.23	7.8	0.7	0.2	9.6	<0.01	0.02	1.3
ZZ109258		1.07	46.0	270	4.1	3.0	<0.001	0.03	0.30	4.1	0.5	0.3	9.2	<0.01	0.01	1.0
ZZ109259		0.44	58.8	200	2.5	2.9	<0.001	0.03	0.22	3.6	0.3	0.2	9.1	<0.01	0.01	0.3



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109218		0.062	0.19	0.82	95	0.51	20.6	87	2.2
ZZ109219		0.034	0.14	0.65	70	0.62	13.80	71	<0.5
ZZ109220		0.056	0.13	0.71	79	0.78	10.20	59	1.0
ZZ109221		0.052	0.13	0.67	76	0.51	10.85	67	0.5
ZZ109222		0.048	0.11	0.59	68	0.59	9.15	54	0.6
ZZ109223		0.032	0.12	0.72	62	0.39	8.65	50	<0.5
ZZ109224		0.037	0.19	1.10	81	0.49	21.0	73	1.1
ZZ109225		0.034	0.15	0.80	73	0.41	14.95	66	<0.5
ZZ109226		0.048	0.13	0.52	72	0.45	6.64	60	<0.5
ZZ109227		0.042	0.13	0.60	76	0.39	8.41	60	<0.5
ZZ109228		0.040	0.14	0.69	75	0.45	9.85	59	1.0
ZZ109229		0.037	0.13	0.77	70	0.35	11.05	63	1.3
ZZ109230		0.033	0.10	0.71	56	0.24	9.63	54	0.8
ZZ109231		0.025	0.15	0.82	65	1.13	9.85	53	0.8
ZZ109232		0.028	0.19	1.34	76	0.30	19.30	70	1.4
ZZ109233		0.009	0.17	1.38	71	0.11	23.6	77	1.2
ZZ109234		0.042	0.10	0.55	60	0.25	9.21	63	0.9
ZZ109235		0.047	0.11	0.52	74	0.40	8.51	67	1.2
ZZ109236		0.079	0.13	0.44	71	0.32	13.00	68	5.6
ZZ109237		0.070	0.08	0.63	60	0.35	10.10	47	2.0
ZZ109238		0.066	0.12	0.67	65	0.31	11.15	58	2.5
ZZ109239		0.063	0.11	0.69	74	0.41	9.00	62	1.6
ZZ109240		0.067	0.09	0.63	68	0.51	9.72	57	1.8
ZZ109241		0.035	0.16	0.89	72	0.52	11.15	67	<0.5
ZZ109242		0.045	0.10	0.54	85	0.76	3.07	60	<0.5
ZZ109243		0.038	0.16	0.54	84	0.47	8.27	60	<0.5
ZZ109244		0.061	0.15	0.57	85	0.57	8.58	63	<0.5
ZZ109245		0.106	0.14	0.49	94	0.84	7.09	56	0.5
ZZ109246		0.078	0.10	0.38	93	0.37	4.88	57	<0.5
ZZ109247		0.065	0.20	0.64	83	0.46	15.60	65	0.7
ZZ109248		0.073	0.14	0.55	82	0.64	7.85	55	1.0
ZZ109251		0.109	0.10	0.80	57	0.11	14.70	75	1.2
ZZ109252		0.081	0.06	0.38	49	0.55	4.49	38	0.7
ZZ109253		0.174	0.11	0.59	98	0.41	3.14	45	0.9
ZZ109254		0.147	0.07	0.34	80	0.54	2.21	28	<0.5
ZZ109255		0.119	0.08	0.55	85	0.45	3.15	33	0.5
ZZ109256		0.111	0.14	0.91	95	0.63	5.33	62	1.0
ZZ109257		0.105	0.06	0.32	79	0.32	4.45	39	1.2
ZZ109258		0.089	0.07	0.40	62	0.43	3.37	31	<0.5
ZZ109259		0.091	0.03	0.20	55	0.44	2.04	29	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109260		0.40	0.001	0.05	1.50	7.1	<0.02	<10	60	0.14	0.14	0.16	0.08	7.64	12.9	107
ZZ109261		0.37	<0.001	0.05	1.59	7.7	<0.02	<10	40	0.14	0.10	0.21	0.09	7.27	15.2	130
ZZ109262		0.47	<0.001	0.03	1.37	7.4	<0.02	<10	40	0.20	0.20	0.13	0.12	11.80	10.1	64
ZZ109263		0.50	<0.001	0.03	1.68	6.1	<0.02	<10	30	0.17	0.13	0.21	0.09	9.72	14.0	135
ZZ109264		0.49	<0.001	0.02	1.34	7.6	<0.02	<10	30	0.17	0.27	0.16	0.11	9.78	10.4	99
ZZ109265		0.47	0.001	0.02	2.12	5.5	<0.02	<10	50	0.25	0.17	0.28	0.13	10.95	19.3	147
ZZ109266		0.43	<0.001	0.04	2.23	5.0	<0.02	<10	50	0.21	0.14	0.28	0.11	8.14	18.8	175
ZZ109267		0.27	<0.001	0.04	2.04	4.8	<0.02	<10	40	0.23	0.14	0.28	0.14	6.66	27.3	197
ZZ109268		0.43	0.003	0.05	1.44	3.9	<0.02	<10	40	0.19	0.17	0.15	0.12	11.35	8.6	76
ZZ109269		0.42	0.001	0.02	1.65	4.6	<0.02	<10	40	0.22	0.14	0.24	0.08	11.40	13.1	109
ZZ109270		0.37	<0.001	0.02	1.92	5.1	<0.02	<10	30	0.16	0.09	0.21	0.12	8.23	19.8	136



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ109260		2.00	33.0	2.14	5.59	0.11	<0.02	0.04	0.012	0.02	3.6	9.7	1.07	232	0.59
ZZ109261		2.05	38.3	2.12	4.41	0.11	<0.02	0.04	0.013	0.02	3.5	12.5	1.28	223	0.69
ZZ109262		3.66	34.4	2.01	4.54	0.10	<0.02	0.03	0.014	0.03	5.9	9.5	0.64	225	0.72
ZZ109263		2.30	43.9	2.18	4.50	0.10	<0.02	0.02	0.013	0.03	4.7	11.3	1.18	241	0.54
ZZ109264		2.24	37.7	2.46	8.38	0.10	0.03	0.01	0.014	0.03	4.7	9.3	0.82	175	0.91
ZZ109265		1.73	62.4	2.42	4.35	0.10	<0.02	0.02	0.014	0.03	5.1	13.8	1.36	337	0.49
ZZ109266		1.83	51.5	2.57	5.26	0.10	0.02	0.03	0.015	0.03	3.8	14.6	1.57	279	0.47
ZZ109267		3.34	79.2	2.41	4.25	0.10	<0.02	0.04	0.015	0.04	2.9	14.6	1.76	460	0.40
ZZ109268		3.07	27.9	2.04	5.07	0.10	<0.02	0.03	0.014	0.03	5.5	8.1	0.55	231	0.63
ZZ109269		1.54	35.3	2.03	4.29	0.10	<0.02	0.01	0.013	0.02	5.5	10.1	0.97	218	0.50
ZZ109270		2.64	52.2	2.27	3.95	0.10	<0.02	0.01	0.013	0.03	3.8	13.6	1.45	311	0.50



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CERTIFICATE OF ANALYSIS WH17127454

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ109260		0.95	41.5	360	4.4	4.5	<0.001	0.04	0.32	3.4	0.5	0.4	8.2	<0.01	0.02	0.3
ZZ109261		0.77	50.4	240	3.3	4.3	<0.001	0.03	0.30	3.6	0.4	0.3	9.0	<0.01	0.01	0.6
ZZ109262		0.78	26.9	360	4.3	4.9	<0.001	0.04	0.38	1.6	0.5	0.4	8.4	<0.01	0.02	0.2
ZZ109263		1.02	48.4	250	3.7	4.4	<0.001	0.03	0.32	2.9	0.5	0.4	9.0	<0.01	0.01	0.7
ZZ109264		2.46	37.0	190	8.2	3.4	<0.001	0.02	0.44	2.9	0.4	0.8	8.0	<0.01	0.02	1.7
ZZ109265		0.71	56.2	360	3.2	3.6	<0.001	0.03	0.31	2.8	0.8	0.4	9.8	<0.01	0.02	0.4
ZZ109266		1.11	69.1	200	3.0	4.4	<0.001	0.02	0.29	4.4	0.6	0.4	10.4	<0.01	0.02	1.2
ZZ109267		0.69	77.2	380	2.1	4.5	<0.001	0.04	0.27	4.3	0.4	0.3	9.6	<0.01	0.01	0.5
ZZ109268		0.76	22.5	430	4.1	5.4	<0.001	0.05	0.33	1.1	0.5	0.5	8.8	<0.01	0.02	<0.2
ZZ109269		1.05	39.1	240	3.4	3.0	<0.001	0.02	0.31	3.2	0.5	0.4	9.2	<0.01	0.01	1.0
ZZ109270		0.65	60.7	280	2.4	2.9	<0.001	0.03	0.35	3.2	0.4	0.3	8.1	<0.01	0.01	0.7



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109260		0.132	0.07	0.28	78	0.26	2.62	22	<0.5
ZZ109261		0.120	0.05	0.26	59	0.21	2.36	27	<0.5
ZZ109262		0.077	0.05	0.48	55	0.27	2.42	32	<0.5
ZZ109263		0.128	0.06	0.46	57	0.24	2.58	29	<0.5
ZZ109264		0.203	0.10	0.51	91	0.41	2.32	25	0.9
ZZ109265		0.092	0.06	0.58	58	0.26	3.65	32	<0.5
ZZ109266		0.148	0.07	0.34	64	0.25	3.51	30	0.5
ZZ109267		0.103	0.06	0.32	61	0.22	2.79	34	<0.5
ZZ109268		0.080	0.06	0.48	56	0.17	2.41	30	<0.5
ZZ109269		0.119	0.07	0.38	55	0.29	3.81	25	<0.5
ZZ109270		0.080	0.05	0.57	48	0.23	2.98	30	<0.5



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	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41 LABORATORY ADDRESSES Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG- 22 SCR- 41 WEI- 21 Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au- ICP21 ME- MS41



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CERTIFICATE WH17127776

Project: Rosy

This report is for 33 Rock samples submitted to our lab in Whitehorse, YT, Canada on 24-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE

JULIA LANE

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
BAG- 06	Double Bagging Coarse Rejects
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

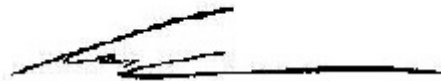
ALS CODE	DESCRIPTION	
ME- MS61	48 element four acid ICP- MS	
Hg- MS42	Trace Hg by ICPMS	ICP- MS
Au- AA24	Au 50g FA AA finish	AAS

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm	ME- MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S053259		1.17	0.17	4.12	19.7	20	0.20	0.02	11.10	0.08	0.73	49.1	329	28.0	172.5	3.61
S053265		0.94	0.07	3.02	2.7	840	0.24	0.06	0.45	0.20	13.55	2.0	12	0.65	2.3	1.00
S053266		1.23	0.58	2.24	480	320	0.79	0.03	18.85	0.11	6.40	27.9	80	32.0	27.1	6.05
S053267		1.45	0.06	4.89	1.0	430	0.60	0.03	8.89	0.13	9.26	68.2	56	0.22	141.0	11.75
S053268		1.74	0.15	4.19	2.7	270	0.26	0.03	9.51	0.12	6.08	111.0	88	0.18	766	14.55
S053269		1.36	0.04	0.53	4.8	60	0.27	0.02	19.95	0.08	0.95	35.0	50	3.29	24.5	6.30
S053270		1.67	0.04	1.10	1.5	100	0.44	0.02	15.65	0.08	2.55	33.8	13	24.6	13.7	6.12
S053271		0.82	0.09	0.17	1.5	120	0.26	0.02	14.60	0.26	1.23	0.9	14	0.53	2.6	1.18
S053272		1.75	0.08	0.11	0.9	110	0.08	0.02	13.85	0.15	1.26	0.6	13	0.31	2.5	0.25
S053273		2.15	0.11	0.75	1.3	270	0.61	0.03	22.1	0.34	7.65	1.4	4	3.64	3.8	1.95
S053274		1.12	0.06	1.13	23.7	50	0.52	0.02	22.7	0.08	4.31	15.0	53	28.7	3.6	5.17
S053275		1.46	30.0	1.79	67.7	90	0.62	0.04	14.80	0.21	6.93	24.4	43	77.7	10.7	6.39
S053276		1.35	0.59	1.17	0.2	6210	0.11	0.42	0.85	0.10	18.85	0.9	30	0.61	106.5	0.62
S053277		1.91	0.19	8.59	5.9	780	1.79	0.19	10.50	0.21	82.7	16.8	83	1.19	55.6	4.93
S053278		1.84	0.04	0.09	0.8	290	<0.05	0.03	7.70	0.21	0.76	0.4	21	0.11	3.0	0.38
S053279		1.47	0.12	3.22	27.4	190	0.58	0.03	17.55	0.04	8.15	5.1	14	2.68	11.1	4.98
S053280		1.13	1.56	1.53	6.3	390	0.53	1.39	0.87	0.22	15.80	0.4	285	0.80	13.3	5.73
S053281		1.34	0.25	0.13	53.9	100	<0.05	0.29	18.75	2.30	16.75	1.7	9	0.22	6.0	1.36
S053282		0.63	21.4	3.53	1095	1200	0.50	1.13	0.07	26.7	14.15	6.1	35	7.06	65.6	8.88
S053283		1.57	0.09	0.39	2.6	40	0.07	0.03	3.20	0.20	1.55	0.7	26	0.35	2.2	0.59
S053284		1.44	0.09	0.27	3.8	20	<0.05	0.03	6.67	0.20	0.74	0.4	31	0.25	1.7	0.49
S053285		1.37	0.03	0.23	0.5	10	<0.05	0.02	21.6	0.72	2.42	0.7	2	0.24	0.8	0.29
S053286		2.97	0.09	7.43	53.1	1300	2.49	0.10	0.56	0.17	51.8	1.2	7	4.44	2.1	1.31
S053287		1.19	0.02	8.04	1.1	1260	2.14	0.07	0.40	0.28	52.4	1.3	3	6.35	0.8	1.37
S053288		1.55	0.05	7.90	15.0	900	2.03	0.08	0.07	0.06	47.7	2.4	8	9.57	1.8	1.32
S053289		1.35	0.06	9.35	27.0	1490	3.00	0.14	0.64	0.88	47.5	16.0	95	37.9	26.3	4.69
S053290		1.55	0.13	0.53	9.5	60	0.13	0.04	0.05	0.07	3.13	0.5	40	3.05	5.9	0.60
S053291		2.81	0.02	7.32	34.4	690	1.26	0.12	0.13	0.36	55.5	2.8	20	36.4	14.3	1.95
S053292		1.92	1.49	3.72	29.9	1740	1.25	0.17	0.33	0.15	19.50	4.0	140	14.40	20.4	2.13
S053293		0.90	0.07	6.29	43.8	3240	3.36	0.51	1.49	0.21	33.4	0.3	4	389	1.6	1.07
S053294		4.42	0.09	8.14	83.2	2040	2.14	0.31	0.22	0.57	72.0	2.8	14	14.80	15.8	2.28
S053295		1.37	0.07	0.28	1.7	50	0.07	0.02	0.07	<0.02	0.84	0.6	40	0.68	6.0	0.58
S053296		1.11	83.9	1.57	4110	140	0.37	0.03	0.06	1.43	5.27	1.1	28	4.37	59.8	1.48



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	Hg- MS42	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.05	0.1	0.005	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
S053259		5.27	<0.05	0.1	0.216	0.009	0.16	<0.5	81.3	5.56	816	0.10	0.02	0.1	255
S053265		5.84	0.14	0.4	0.005	0.012	1.00	6.1	7.8	0.03	148	0.23	1.87	2.1	2.5
S053266		6.44	0.05	0.5	0.033	0.029	0.54	2.8	69.1	4.71	1470	0.32	0.03	1.3	55.0
S053267		16.35	0.10	1.3	0.006	0.091	0.69	3.3	6.6	6.11	1420	0.13	1.89	2.3	61.1
S053268		15.60	0.10	1.2	0.010	0.103	0.57	2.1	9.2	6.92	1410	0.17	1.06	1.3	100.5
S053269		2.91	<0.05	0.2	0.029	0.020	0.04	<0.5	38.3	7.42	766	0.05	0.01	0.1	56.1
S053270		4.22	<0.05	0.3	0.011	0.021	0.22	1.0	36.0	5.50	1030	0.07	0.02	0.4	55.1
S053271		0.52	<0.05	<0.1	0.010	<0.005	0.06	2.6	12.3	5.77	227	0.07	0.01	0.1	1.9
S053272		0.43	<0.05	<0.1	0.007	<0.005	0.04	3.9	3.4	0.14	183	0.21	0.01	0.1	1.2
S053273		2.07	<0.05	0.5	0.011	0.006	0.26	4.3	68.6	9.68	321	0.18	0.01	1.0	0.7
S053274		3.87	0.05	0.3	0.069	0.020	0.30	2.4	62.0	7.77	1170	0.07	0.01	0.5	36.1
S053275		8.44	0.05	0.4	0.249	0.031	0.78	2.6	24.7	5.23	1370	5.81	0.01	0.7	19.3
S053276		3.18	0.07	0.1	<0.005	<0.005	1.35	9.6	2.5	0.14	138	0.21	0.09	1.0	2.2
S053277		26.2	0.18	3.3	0.014	0.091	1.48	37.9	5.3	0.77	744	1.44	2.82	23.0	37.1
S053278		0.25	0.05	<0.1	<0.005	<0.005	0.02	1.2	0.9	3.93	70	0.22	0.01	0.1	3.1
S053279		5.97	0.05	0.3	0.077	0.019	0.51	4.1	35.8	5.55	1360	0.09	0.01	1.5	4.8
S053280		4.74	0.14	0.6	0.056	0.021	0.30	30.6	4.3	0.30	136	15.00	0.53	1.8	18.1
S053281		0.42	<0.05	<0.1	0.010	0.056	0.04	10.1	3.4	0.12	3620	0.14	0.01	<0.1	0.8
S053282		7.40	0.07	0.7	0.260	0.225	1.05	8.5	41.5	0.12	1090	3.63	0.05	0.9	16.4
S053283		0.82	<0.05	0.1	0.006	0.005	0.14	1.0	3.5	1.59	123	0.21	0.02	0.2	3.7
S053284		0.56	0.05	0.1	0.006	<0.005	0.11	0.7	2.8	3.25	69	0.24	0.03	0.1	3.1
S053285		0.49	0.24	<0.1	0.012	0.007	0.04	1.7	3.4	14.05	266	<0.05	0.01	0.1	2.7
S053286		15.60	0.21	2.8	<0.005	0.029	3.86	25.2	32.2	0.14	286	3.11	2.28	17.1	1.1
S053287		17.20	0.15	2.7	<0.005	0.027	3.84	26.8	34.8	0.15	350	0.70	2.05	17.7	1.2
S053288		17.60	0.17	2.2	<0.005	0.008	3.52	27.3	14.2	0.18	168	0.63	2.04	13.8	4.5
S053289		21.7	0.13	4.6	0.007	0.051	3.53	22.4	32.1	0.37	1080	2.32	2.15	21.7	55.0
S053290		0.96	0.08	0.1	<0.005	0.007	0.08	1.6	164.5	0.03	61	0.46	0.02	0.4	4.4
S053291		16.05	0.14	2.1	<0.005	0.016	2.66	33.3	103.5	0.17	86	1.71	0.05	21.7	22.1
S053292		9.61	0.10	2.0	0.070	0.018	1.18	18.4	174.0	0.43	184	3.72	0.18	3.8	13.9
S053293		15.50	0.15	3.8	<0.005	0.027	3.71	13.7	41.8	0.06	152	1.09	0.99	26.3	3.9
S053294		16.60	0.19	3.9	<0.005	0.024	3.58	40.4	60.5	0.22	203	2.41	2.41	18.2	11.1
S053295		0.78	0.08	0.1	<0.005	<0.005	0.09	<0.5	12.1	0.06	73	0.33	0.03	0.2	2.9
S053296		4.06	0.06	0.1	0.123	0.059	0.59	2.6	69.8	0.09	133	3.00	0.02	0.7	2.2



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Sample Description	Method Analyte Units LOR	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.01	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
S053259		0.9	22.9	<0.002	0.02	107.5	19.4	1	<0.2	218	<0.05	<0.05	0.08	0.051	0.35	<0.1
S053265		9.8	23.4	<0.002	0.19	0.62	2.4	<1	0.4	65.5	0.15	<0.05	3.27	0.048	0.16	0.8
S053266		1.9	43.4	<0.002	0.32	24.6	26.2	1	0.4	210	0.10	<0.05	0.56	0.335	0.99	0.4
S053267		2.9	8.2	<0.002	<0.01	0.31	75.8	2	1.0	138.5	0.17	<0.05	1.07	1.025	0.07	0.4
S053268		1.3	6.3	<0.002	0.55	0.34	83.6	4	0.9	127.5	0.10	<0.05	0.30	1.155	0.06	0.2
S053269		2.2	3.5	<0.002	<0.01	10.35	20.9	1	0.2	635	<0.05	<0.05	0.03	0.288	0.10	0.2
S053270		0.9	27.5	<0.002	<0.01	16.70	22.2	<1	0.3	345	<0.05	<0.05	0.19	0.292	0.28	0.1
S053271		1.8	1.7	<0.002	<0.01	3.62	0.5	1	<0.2	373	<0.05	<0.05	0.06	0.012	0.02	0.3
S053272		0.8	1.2	<0.002	0.01	0.43	0.5	1	<0.2	111.0	<0.05	<0.05	0.05	0.008	<0.02	0.5
S053273		4.5	11.0	<0.002	<0.01	1.40	1.5	1	0.2	700	0.07	<0.05	1.09	0.039	0.10	0.5
S053274		2.7	39.7	<0.002	0.07	4.76	19.6	1	0.2	421	<0.05	<0.05	0.31	0.211	0.63	0.7
S053275		11.5	94.6	<0.002	0.15	13.45	14.0	2	0.4	185.0	<0.05	<0.05	0.27	0.296	1.32	0.2
S053276		404	20.1	<0.002	0.20	0.22	0.9	4	<0.2	711	0.06	0.18	2.83	0.055	0.15	0.3
S053277		10.0	23.4	<0.002	0.22	3.37	14.8	1	3.3	1075	1.52	0.07	14.35	0.539	0.18	5.0
S053278		3.8	0.6	<0.002	0.01	0.51	0.3	1	<0.2	54.2	<0.05	<0.05	0.08	0.005	<0.02	1.2
S053279		3.3	17.7	<0.002	0.12	9.56	4.1	<1	0.3	388	0.07	<0.05	0.94	0.138	0.25	0.5
S053280		136.0	11.3	0.004	0.14	1.06	4.3	28	1.0	357	0.10	0.14	1.41	0.065	0.21	3.5
S053281		15.3	1.9	<0.002	0.96	2.47	6.1	2	<0.2	205	<0.05	<0.05	0.05	<0.005	0.05	0.1
S053282		4720	50.9	<0.002	0.94	95.2	10.0	9	2.3	7.8	0.06	0.07	1.51	0.096	1.60	1.4
S053283		6.1	3.5	<0.002	0.01	0.33	0.7	<1	0.2	24.8	<0.05	<0.05	0.22	0.014	0.02	0.5
S053284		15.5	2.4	<0.002	<0.01	0.42	0.5	<1	<0.2	43.7	<0.05	<0.05	0.12	0.007	0.02	0.5
S053285		3.5	2.4	<0.002	<0.01	0.13	1.0	<1	<0.2	282	<0.05	<0.05	0.05	<0.005	<0.02	<0.1
S053286		36.5	156.5	<0.002	<0.01	1.00	2.0	<1	2.0	116.0	1.65	<0.05	21.3	0.106	1.24	4.4
S053287		17.1	164.5	<0.002	<0.01	0.24	2.5	1	1.5	118.5	1.68	<0.05	21.6	0.140	1.15	1.9
S053288		19.6	170.0	<0.002	<0.01	0.99	2.6	<1	1.2	93.0	1.29	<0.05	25.9	0.107	1.26	3.3
S053289		6.1	252	<0.002	0.01	13.90	15.5	1	1.5	171.5	1.19	<0.05	7.09	0.546	2.13	3.8
S053290		5.9	5.0	<0.002	0.02	2.30	1.5	<1	0.2	5.1	<0.05	<0.05	0.39	0.010	0.08	1.2
S053291		17.6	122.5	<0.002	0.01	4.19	3.5	1	1.5	17.1	1.72	<0.05	24.6	0.169	1.32	4.2
S053292		16.5	56.6	<0.002	0.13	8.43	7.5	4	1.0	51.7	0.26	0.10	2.99	0.149	1.16	4.7
S053293		22.5	147.0	<0.002	0.01	1.99	1.8	1	2.7	903	2.21	<0.05	19.10	0.038	1.51	7.4
S053294		14.4	131.5	<0.002	0.03	6.38	3.7	1	1.3	127.5	1.52	<0.05	18.90	0.194	1.11	5.8
S053295		0.7	2.6	<0.002	<0.01	0.24	0.5	<1	0.2	3.4	<0.05	<0.05	0.21	0.011	0.03	0.6
S053296		408	16.3	<0.002	0.69	102.0	2.0	4	0.4	12.5	0.05	1.13	0.51	0.047	0.25	0.3



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127776

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- AA24 Au ppm 0.005
S053259		55	1.9	3.6	29	1.6	<0.005
S053265		5	0.5	4.2	15	13.0	<0.005
S053266		204	3.5	12.0	62	11.5	0.133
S053267		625	0.1	20.3	91	29.9	<0.005
S053268		775	0.1	19.5	90	28.5	<0.005
S053269		217	3.4	4.0	59	4.5	<0.005
S053270		242	2.3	6.4	52	6.0	<0.005
S053271		8	0.2	2.2	40	2.1	<0.005
S053272		4	0.1	3.8	3	1.5	<0.005
S053273		11	0.5	5.1	98	16.5	<0.005
S053274		134	2.5	10.5	47	8.4	<0.005
S053275		185	8.9	20.0	44	9.8	1.735
S053276		8	0.6	2.8	4	3.6	0.009
S053277		99	1.0	31.1	111	93.9	0.007
S053278		3	0.2	2.4	13	1.7	<0.005
S053279		51	1.6	8.0	42	5.3	<0.005
S053280		619	0.6	65.2	147	39.6	<0.005
S053281		7	0.1	22.1	119	<0.5	<0.005
S053282		133	1.0	8.6	2090	25.8	0.053
S053283		10	0.1	1.9	12	3.6	<0.005
S053284		8	0.1	2.4	16	2.6	<0.005
S053285		3	0.1	5.2	16	0.9	<0.005
S053286		9	1.4	10.5	57	78.7	<0.005
S053287		11	1.1	11.2	45	71.7	<0.005
S053288		19	1.2	6.3	38	59.4	<0.005
S053289		144	2.7	13.5	165	202	<0.005
S053290		12	0.2	3.1	11	3.2	<0.005
S053291		34	1.3	8.2	102	66.8	<0.005
S053292		584	1.6	12.1	44	85.7	0.008
S053293		3	2.1	15.2	47	98.3	<0.005
S053294		33	2.0	14.7	108	141.5	<0.005
S053295		11	0.1	0.5	4	2.3	<0.005
S053296		30	0.3	2.0	230	1.9	4.57



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CERTIFICATE OF ANALYSIS WH17127776

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME- MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
BAG- 06 CRU- 31 CRU- QC LOG- 21
PUL- 31 PUL- QC SPL- 21 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- AA24 Hg- MS42 ME- MS61