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ASSESSMENT REPORT

describing

PROSPECTING, HAND TRENCHING AND SOIL GEOCHEMISTRY

Field work performed July 13 to 23, 2014

at the

KLUANE PROPERTY

Arc 1-74	YD09459-YD09532
Delor 1-10	YB37735-YB37744
11-24	YB38302-YB38315
25-48	YB47116-YB47139
49-129	YB54418-YB54498
130-135	YE66361-YE66366
Malou 1-6	YB35901-YB35906
7-14	YB37727-YB37734
15-20	YB38136-YB38141
21-26	YB38218-YB38223
27-40	YB38316-YB38329
41-52	YB47140-YB47151
Shut 5	YB38330
Wasp 47-58	YD09447-YD09458

Latitude 61°12'N, Longitude 137°45'W
NTS 115H/4

in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ROCKHAVEN RESOURCES LTD.

by

H. Burrell, P.Geo.
December 2014

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INTRODUCTION

The Kluane property covers high-grade gold veins that are located in the Ruby Range, about 45 km north of Haines Junction in southwestern Yukon Territory. The property is owned 100% by Rockhaven Resources Ltd., subject to a 1% net smelter return royalty payable to the estate of J.P. Ross. One-half of the royalty can be purchased for \$500,000.

This report describes work conducted between July 13 and 23, 2014 by Archer, Cathro & Associates (1981) Limited on behalf of Rockhaven. The work consisted of claim staking, prospecting, soil sampling and hand trenching. It was completed by a crew of three people from a fly camp on the property. The author participated in and supervised the program. Appendix I contains the author's Statement of Qualifications, while a Statement of Expenditures appears in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Kluane property is an amalgamation of 274 contiguous Arc, Delor, Malou, Shut and Wasp claims, which are located on NTS map sheet 115H/4. The property is centred at latitude 61°12'N and longitude 137°45'W (Figure 1). It covers an area of approximately 5550 ha (55 sq km). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Rockhaven. Claim registration data are listed below while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Arc 1-74	YD09459-YD09532	March 10, 2017
Delor 1-10	YB37735-YB37744	March 10, 2020
11-24	YB38302-YB38315	March 10, 2020
25-48	YB47116-YB47139	March 10, 2017
49-129	YB54418-YB54498	March 10, 2017
130-135	YE66361-YE66366	March 10, 2018
Malou 1-6	YB35901-YB35906	March 10, 2020
7-14	YB37727-YB37734	March 10, 2020
15-20	YB38136-YB38141	March 10, 2020
21-26	YB38218-YB38223	March 10, 2020
27-40	YB38316-YB38329	March 10, 2020
41-52	YB47140-YB47151	March 10, 2017
Shut 5	YB38330	March 10, 2020
Wasp 47-58	YD09447-YD09458	March 10, 2017

* Expiry dates include 2014 work which has been filed for assessment credit but not yet accepted.

The Kluane property lies approximately 148 km west-northwest of Whitehorse and 45 km north of Haines Junction. The closest road access is a local placer mining road that extends from the Alaska Highway to Fourth of July Creek. This road comes within 10 km of the southwest corner of the Kluane property. In 2014, access to the property was provided by a Bell 206B helicopter

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

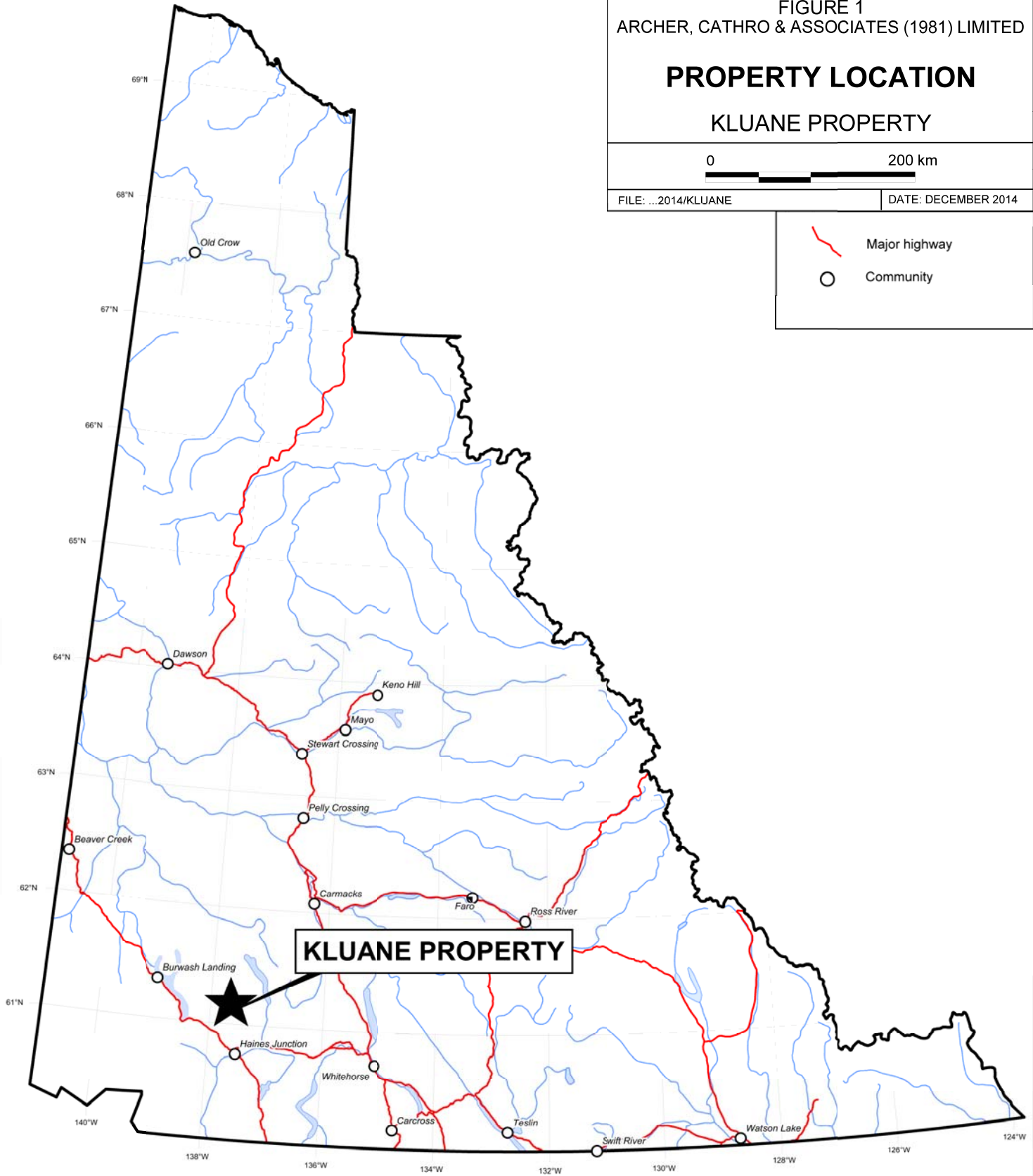
KLUANE PROPERTY

0 200 km

FILE: ...2014/KLUANE

DATE: DECEMBER 2014

- Major highway
- Community



operated by Capital Helicopters (1995) Inc. of Whitehorse from a staging area at the south end of Canyon Lake, 35 km east of the Kluane property. The Aishihik Hydroelectric Dam is located 29 km east of the property.

The Kluane property lies within the traditional territory of the Champagne and Aishihik First Nations, which have concluded their land claim agreement with Canada and Yukon.

HISTORY AND PREVIOUS WORK

Placer gold occurrences are documented on Ruby, Granite, Dixie, Fourth of July and Twelfth of July creeks to the south and west of the Kluane property. These creeks have been explored intermittently since the early 1900s. Gladstone Creek, which lies 30 km northwest of the property, is the most productive creek in the area reportedly producing 35,606 ounces of gold from 1978 to 2009. Fourth of July Creek reportedly produced 14,288 ounces of gold from 1978 to 2009 (Bond and Van Loon, 2014).

Hard rock exploration began after a Geological Survey of Canada (GSC) stream sediment survey of the Aishihik map sheet reported anomalous gold and arsenic values from several drainages in the Ruby Range (Hornbrook and Friske, 1985). Immediately following the release of the geochemical data, Silverquest Resources Ltd. (which later changed its name to Cash Resources Ltd. and subsequently to Cash Minerals Ltd. – collectively referred to as “Cash” subsequently in this report) staked the Shut, Kil, Kin and Live claim blocks to cover four of the anomalous drainages. Nearby anomalies were staked by United Keno Hill Mines Limited as four blocks of Ruby claims and by independent prospector J.P. Ross as the Spruce, Cliff and Wall claim blocks.

In 1986, Cash performed reconnaissance contour geochemical sampling and prospecting. A number of gold and arsenic anomalies were identified in the vicinity of the Shut claims, but this follow-up work did not substantiate the GSC anomalies on the Kil, Kin and Live properties.

In 1987, Cash added 16 claims to the Shut claim block to cover the new soil geochemical anomalies. Work in 1987 comprised additional reconnaissance contour geochemical sampling and prospecting on and peripheral to the property. The best result from this work was from a specimen of arsenopyrite-bearing quartz-carbonate float that assayed 125 g/t gold (Main, 1988). That same year, United Keno Hill performed soil sampling and prospecting, which outlined significant gold and arsenic anomalies on its Ruby 7-12 claims immediately south of the Shut claim block. In addition, Ross staked a large block of Arc claims, three kilometres northeast of the Shut property.

Also in 1987, DalBianco Exploration Syndicate made the first lode gold discovery on what would later become the Kluane property. The discovery was made on the Lib claims and the showing is now referred to as the DalBianco Zone (Figure 2). Four hand trenches exposed an arsenopyrite-rich quartz-carbonate vein system for a strike length of 50 m. Selected specimens returned up to 89 g/t gold (Main, 1988). The Lib claims covered what is now the southeastern corner of the Kluane property.

The DalBianco Exploration Syndicate optioned its Lib and Beth claims to Cash in March 1988. Cash, in turn, optioned the Lib and Beth claims along with its Shut claims to Pezgold Resource Corp. in June of the same year. Exploration that summer consisted of grid soil geochemical surveys and prospecting on the Lib and Shut claims. That work outlined coincident north-trending gold and arsenic anomalies on both properties and located more arsenopyrite-rich veins at the DalBianco Zone. In mid-summer Pezgold staked the Angus and Topgun claims to provide additional coverage around the anomalies on the Shut and Lib claim blocks.

In 1988, Ross added more Cliff claims on the east side of Killermun Lake and staked the Stroker claims adjoining his Arc claim block. Prospecting on the Arc claims discovered quartz-carbonate vein float that assayed 86 g/t gold (Main, 1988). In summer 1989, the Arc and Stroker claims were briefly optioned to Noranda Exploration Co. Ltd., which performed geological mapping, soil sampling and geophysical surveys. Although that exploration outlined widespread arsenic anomalies with sporadic gold values associated with recessive topographic linears, no significant mineral occurrences were identified and the option was dropped.

Between 1991 and 1993, Ross restaked the Ruby 7-12 and Beth claims as the Malou claims, and the Lib claims as the Delor claims. In late summer 1993, Cash optioned the Malou and Delor claims amalgamating them with its 100% owned Shut and Angus claim blocks to create the Ruby Range property. Exploration during summer 1994 included hand and excavator trenching, grid soil sampling, geophysical surveys, mapping and prospecting.

In fall 1994, the Arc and Stroker claims were added to the Ruby Range property to create the Ruby Range project. In spring 1995, NDU Resources Ltd. optioned the Ruby Range project from Cash. In summer 1995, NDU performed claim staking, geological mapping, 934 m excavator trenching, 31.6 line km of grid Horizontal Loop Electromagnetic (HLEM) Max-Min surveys and 1874 m of diamond drilling in 14 holes (Becker, 1996). Both companies later relinquished their options, leaving Ross with the Delor, Malou, Shut 5, Arc and Stroker claims and Cash with the Angus and remainder of the Shut claims.

In spring 2002, Cash re-optioned the Delor, Malou and Shut 5 claims from Ross and again combined them with its Shut and Angus claims. Exploration that summer consisted of additional prospecting and hand trenching (Eaton, 2003).

In fall 2004, Cash performed a 45.6 line km, HLEM Max-Min geophysical survey across the central part of the current property. This survey identified nine multi-line anomalies (A-1 to A-9) and three isolated anomalies, all of which were interpreted to be caused by weakly conductive, steeply dipping tabular conductors. Most of the conductors were found to coincide with subtle linear depressions associated with known veins or strong soil geochemical anomalies. The most extensive system of conductors was identified in an area with little soil sample coverage in the northern part of the survey area (Eaton, 2004). Cash subsequently terminated the option.

In June 2009, Rockhaven purchased the core of the current Kluane property, which comprised the Delor 1-129, Malou 1-52 and Shut 5 claims, from the estate of J.P. Ross. In September 2009, Rockhaven conducted a short hand trenching and soil sampling program on the property. The best result from this work was from a grab sample of scorodite-stained quartz-carbonate vein that

returned 50.2 g/t gold (Turner, 2010). Other significant results are discussed in the appropriate sections below.

In January 2010, the Arc 1 to 74 and Wasp 47 to 58 claims were staked by Rockhaven.

In late 2011, Rockhaven optioned the property to West Point Resources Inc., which conducted helicopter-borne versatile time electromagnetic (VTEM) and magnetic surveys over the property in 2012 before dropping its option in 2013.

GEOMORPHOLOGY

The property is situated in the Ruby Range Mountains about 25 km northeast of the Shakwak Valley. The area lies in the rain shadow of the St. Elias Mountains, which are located to the southwest. Average annual precipitation is less than 50 cm. Creeks draining the property are tributaries of the Aishihik River, which flows into the Alsek River and eventually the Pacific Ocean.

Topography in much of the area is strongly influenced by Pleistocene to recent valley and alpine glaciation (St. Elias ice sheet). The result is gently undulating uplands cut by broad, north trending U-shaped valleys flanked by hanging valleys ending in cirques. Valley bottoms in the vicinity of Killermun Lake, immediately southeast of the claim block, are well treed with black spruce. Elsewhere valley floors and lower slopes are typically vegetated with scattered buckbrush stunted spruce and stride alder surrounded by moss. Alpine grasses and open talus slopes predominate at higher elevations.

Bedrock exposures are rare on the valley floors due to a blanket of glaciofluvial outwash and till. Lower slopes are generally covered by lateral moraines up to 1500 m and bedrock is only seen where creeks have made deep incisions through this material. Relief between 1500 and 1800 m is moderate to steep and outcrops are common where slopes exceed 30°. Ridge crests and upland plateaus above 1800 m appear to have escaped glaciation and are capped with slabby felsenmeer boulder fields. Although outcrop is locally abundant, it comprises less than 5% of the property. Soil development is poor in all geomorphological zones.

REGIONAL GEOLOGY

The Kluane property lies 40 km northeast of the Denali Fault and is located within the Kluane Schist Terrane immediately southwest of its contact with the Yukon-Tanana Terrane (Figure 3). The northeast-dipping contact between the Kluane Schist and Yukon-Tanana terranes is obscured by the Paleocene (64-57 Ma) Ruby Range Batholith, which was emplaced late in the deformation history (Figure 4).

The regional geology in the vicinity of the Kluane property has recently been mapped by the Yukon Geological Survey (YGS) at 1:50,000 scale (Israel et al., 2011), in part utilizing data from a 400 m line-spaced aeromagnetic survey flown in winter 2010 (Kiss, 2010). Previously, 1:250,000 scale mapping was completed by the Geological Survey of Canada in the early 1970s

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FIGURE 3

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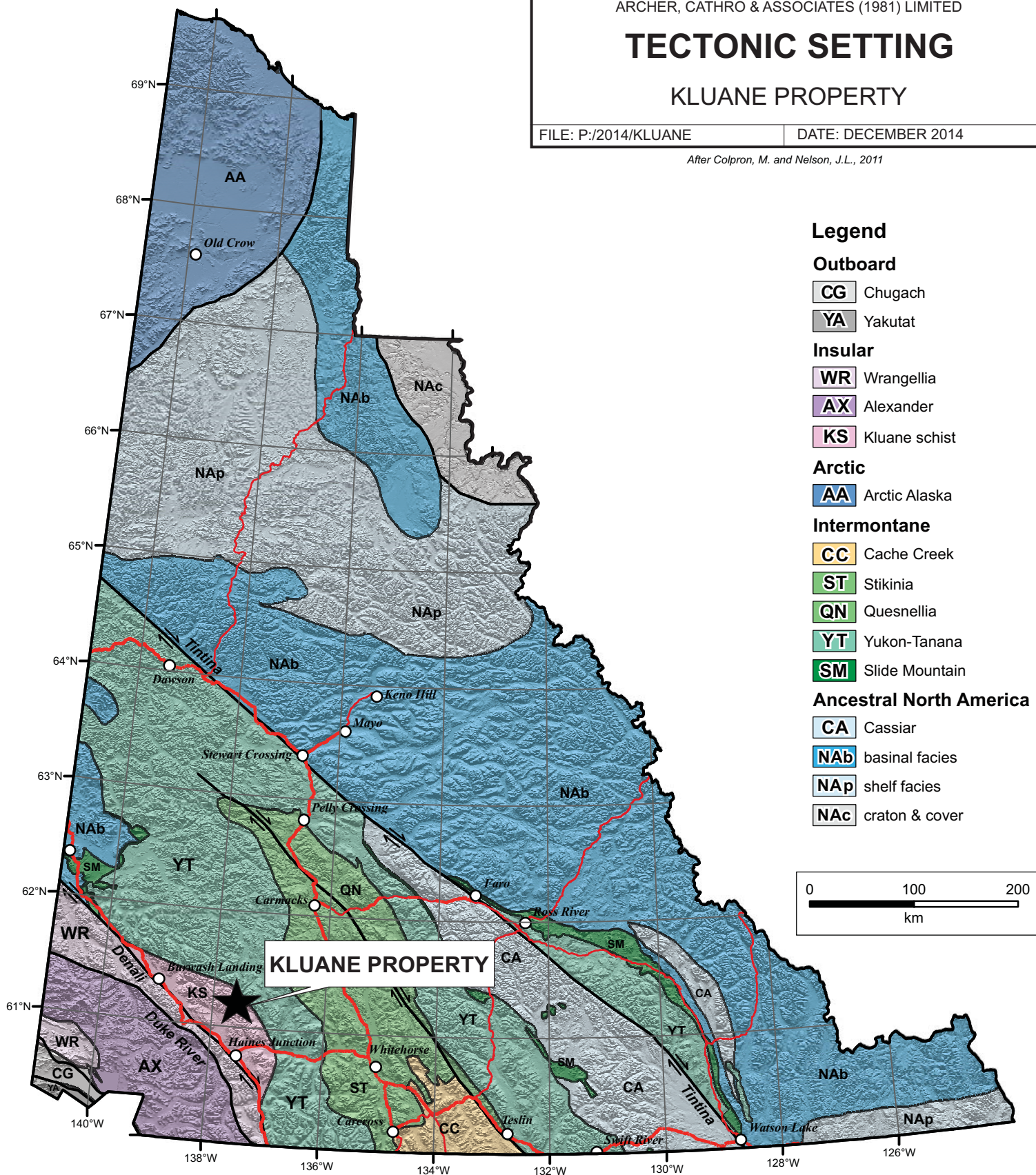
TECTONIC SETTING

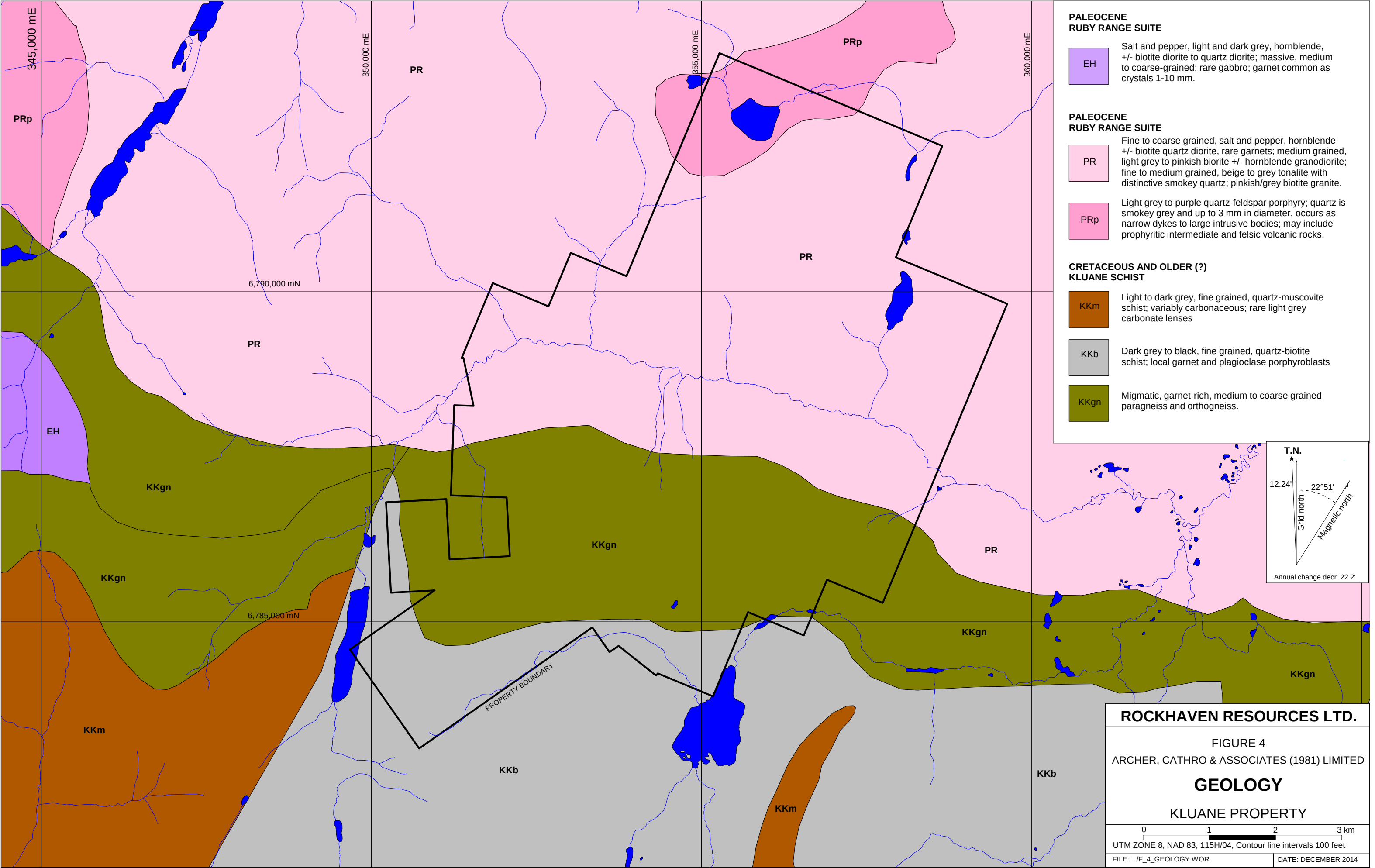
KLUANE PROPERTY

FILE: P:/2014/KLUANE

DATE: DECEMBER 2014

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





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FIGURE 4
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GEOLOGY

KLUANE PROPERTY

0 1 2 3 km
UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 feet

FILE: .../F_4_GEOLOGY.WOR DATE: DECEMBER 2014

(Tempelman-Kluit, 1974). The following description of regional geology is summarized from Israel et al., (2013).

The Ruby Range Batholith primarily consists of quartz diorite, tonalite and granodiorite with lesser amounts of diorite, gabbro and granite, with compositions generally becoming more felsic to the north.

In the vicinity of the Kluane property, the Kluane Schist is a garnet-rich orthogneiss/paragneiss unit of unknown affinity. It is thought to be comprised of detritus shed east to west from Yukon-Tanana Terrane rocks, but it could also be basement to the Yukon-Tanana Terrane. The contact between the gneissic unit and the Ruby Range Batholith is rarely exposed and could be a shear zone or an intrusive contact (Israel et al., 2013).

PROPERTY GEOLOGY

Systematic geological mapping on the property is hindered by the relative lack of bedrock exposures. In most areas contacts are inferred from distribution of lithologies in talus and felsenmeer (Photo 1). Observations made during mapping in previous years are summarized below.



Photo 1 – Typical outcrop exposure and felsenmeer field

Lithology

The rock type underlying most of the property is relatively homogeneous, coarse grained, graphitic quartz-biotite schist to gneiss of the Kluane Schist Terrane. This unit is blocky weathering and often rusty brown on fracture surfaces. Common accessory minerals include garnet and staurolite with lesser tourmaline. Foliations normally strike 90 to 145° and dip from 15 to 35° NE occasionally rolling to 30° SW. The main exception to this trend occurs south of Shut Creek in the western part of the property, where strikes are about 160° and dips are sub-horizontal.

Marble lenses and occasional skarn zones are found within the gneiss on the east-facing slope above Killermun Lake. Exposures of marble are typically white to pale green on both weathered and fresh surfaces, display weak silicification and range up to seven metres thick and 100 m long. Skarns consist of medium to coarse grained garnet and diopside. They are often rusty weathering making them difficult to distinguish from the surrounding gneiss, until the rock is broken.

Coarse grained granodiorite of the Ruby Range Batholith underlies the northern part of the property. The intrusive contact is on the floor of a broad valley and is mostly obscured by glacial till and glaciofluvial outwash. Where observed, the contact is sharp and the border phase granodiorite exhibits well developed foliation that parallels the contact and metamorphic textures in the gneiss. The foliation in the granodiorite gradually diminishes away from the contact until the rocks are non-foliated, approximately 1500 m away.

A few undeformed granodiorite outcrops have also been observed northeast near Killermun Lake and are believed to be part of a small plug. Near the centre of the claim block, there is a 400 m diameter area of foliated, fine grained granodiorite talus that is believed to have been derived from another small plug.

Two sets of narrow (up to one metre wide) unfoliated dykes have been noted in several areas within the gneiss. They are best distinguished by grain size. The finer grained dykes are andesitic, tan to medium grey and microcrystalline. They strike 160 to 190°, dip 60 to 70° to the west and occasionally follow north-trending shear zones. The other dyke set is fine to medium grained and dioritic in composition. These dykes are pale green-grey, strike 080 to 100° and dip steeply to the south or north.

The age relationship between the various intrusive phases is uncertain because no cross-cutting relationships have been observed.

Structure

Airphoto analysis and ground mapping have recognized numerous small, north- and northeast-trending recessive topographic linears on the property. Where exposed in outcrop or trenches, these linears contain one or more gouge zones surrounded by a few metres of weakly altered wallrock exhibiting moderate to strong fracturing parallel to the trend of the linear. Quartz veins or andesitic dykes have been emplaced along several of the linears.

Three sets of veins have been identified on the property. Two sets are generally conformable with foliation in the gneiss, while the third set, which is often gold bearing, is discordant to foliation. Argon-Argon age dating of the third vein set is currently underway at the University of Alaska in Fairbanks as part of a study by the YGS. Results of this age dating should establish whether these veins are orogenic or intrusion-related.

Conformable quartz-carbonate veins are the most common type of veins on the property. They usually strike 110 to 125°, dip 40 to 80° northeast and range up to 1.5 m in width. The other conformable vein set exhibits a more complex mineral assemblage typically comprises glassy granular quartz massed with andalusite, amphibolite, garnet and/or tourmaline. These veins

range up to 70 cm in width and sometimes cut foliation at a shallow angle. Vein selvages often contain andalusite, muscovite and chlorite.

The third, discordant vein set hosts most of the gold mineralization. It consists of: quartz that is typically milky white, granular to massive and weakly to strongly fractured parallel to the vein walls; lesser carbonate that is tan to cream coloured where fresh but is often leached from surface samples leaving a white powdery residue in cavities; and minor muscovite. These veins cut foliation at a high angle, striking northerly and dipping moderately to steeply westward. In a few locations these veins cut the andesitic dyke set.

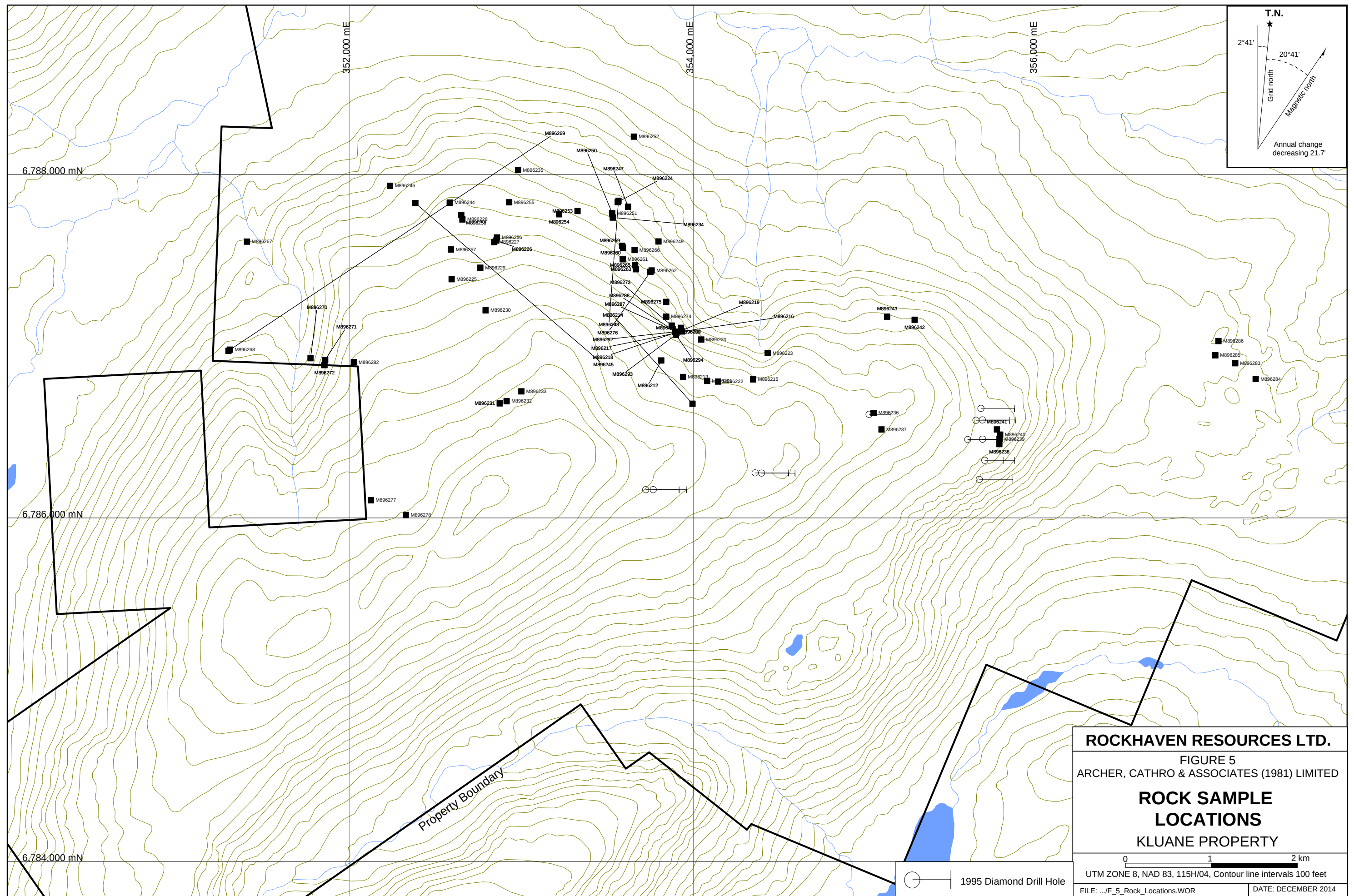
A few unmineralized faults appear to slightly offset all three of the vein sets. The best exposed of these late faults crosses one of the gold bearing zones (the Rikus Zone) in the eastern part of the property. That fault strikes northwesterly, dips steeply and has produced about 25 m of apparent dextral offset.

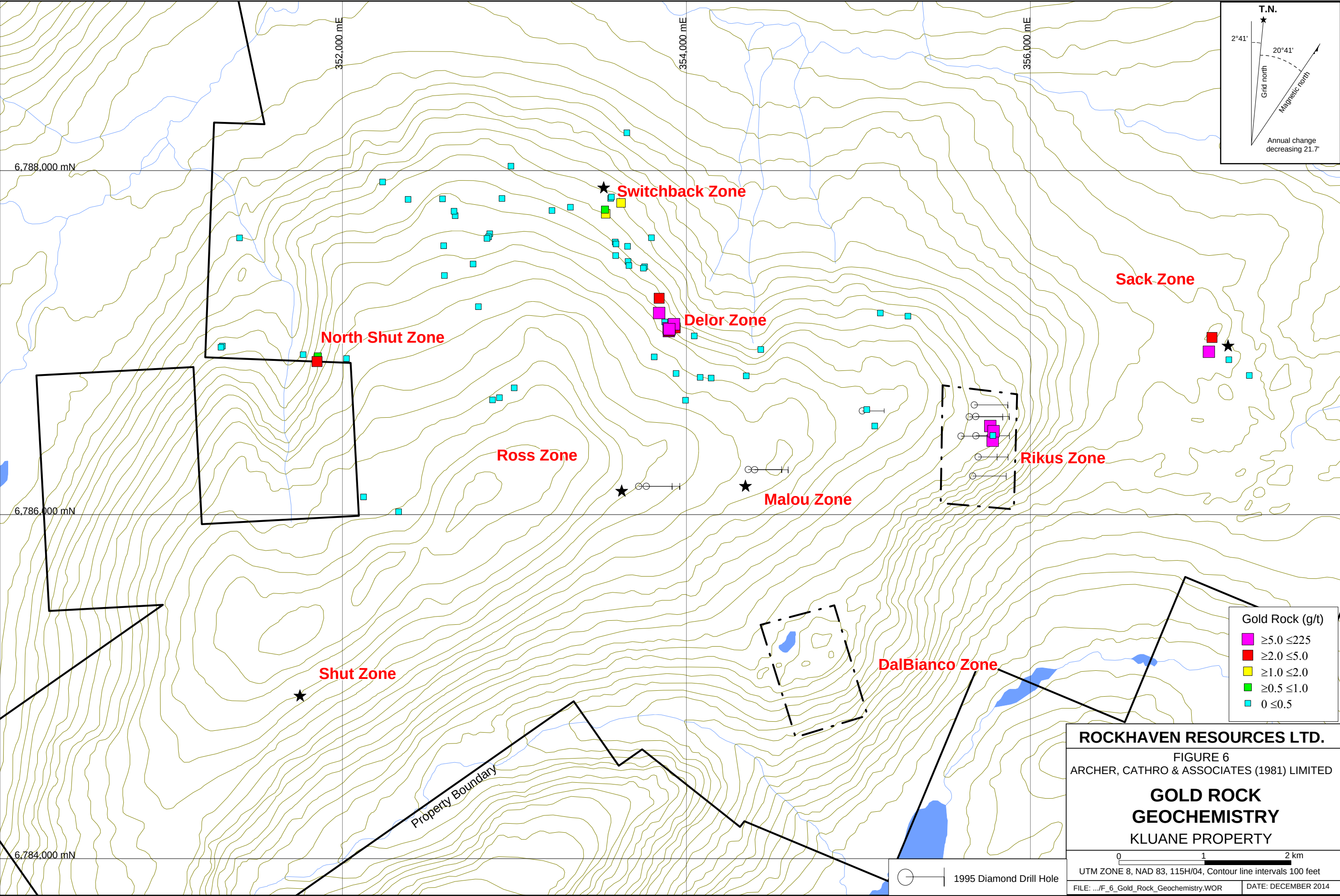
MINERALIZATION

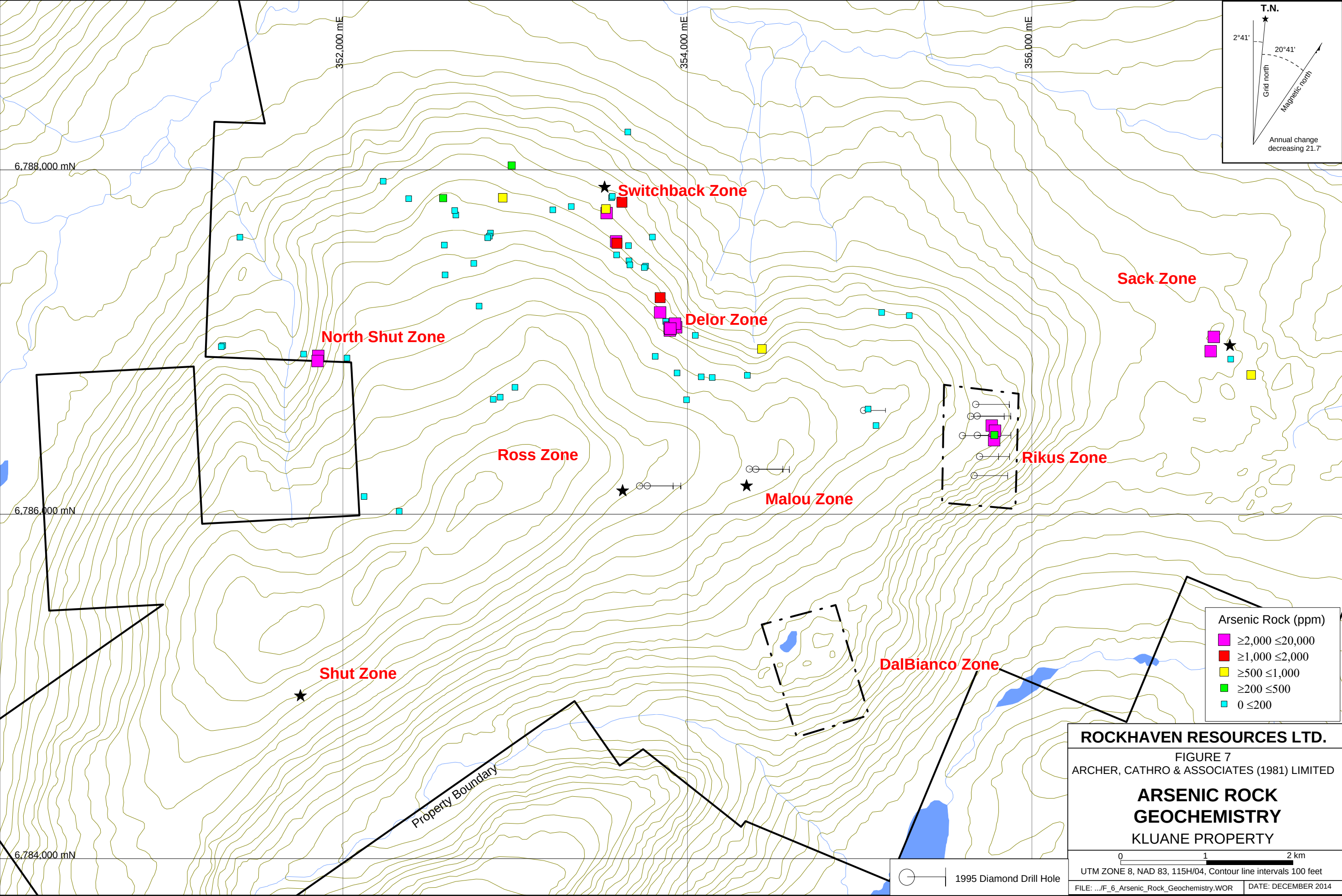
Prospecting and geochemical sampling have identified nine mineralized showings within a 5500 by 3500 m area underlain by Kluane Schist in the southern and central parts of the Kluane property. A tenth showing (Arc Zone) lies about three kilometres north of the core area, within the Ruby Range Batholith. Mineralization at all ten zones is hosted almost exclusively in discordant quartz-carbonate veins with scorodite staining. Arsenopyrite is by far the most abundant sulphide mineral in the veins, but traces of galena, chalcopyrite and pyrite have also been noted. Sulphides are generally one to four millimetres in diameter and occur as disseminations or in semi-massive to massive bands. Occasionally native gold grains have been found in oxidized and unoxidized veins. Individual veins range up to 85 cm in width, and they can occur in swarms that are up to 9.5 m across, where sub-parallel veins are separated by narrow gouge zones. The gold bearing veins rarely outcrop and are usually marked by north-trending recessive topographic linears.

In 2014, a total of 83 rock samples were taken on the Kluane property. Sample locations are illustrated on Figure 5, while thematic results for gold and arsenic are provided on Figures 6 and 7, respectively. All rock sample sites in 2014 were marked with orange flagging tape labeled with the sample number. The location of each sample was determined using a handheld GPS unit. All samples sent for shipment were double bagged with an individually pre-numbered sample tag placed in each bag. Sample descriptions are in Appendix III. Analytical work was done by ALS Minerals, with sample preparation in Whitehorse and assays and geochemical analyses in North Vancouver. All rock samples were analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 48 other elements by four acid digestion (ME-MS61). Overlimit values were determined for gold by fire assay and gravimetric finish (Au-GRA22) and for arsenic using a four acid digestion followed by inductively coupled plasma – atomic emission spectroscopy (As-OG62). Certificates of Analysis are copied in Appendix IV.

Descriptions of the Rikus, DalBianco, Ross, Malou, Sack, Delor, Switchback, Shut, North Shut and Arc zones are provided in the following paragraphs. The DalBianco, Ross, Malou and Arc zones were not revisited in 2014.







The **Rikus Zone** lies on a moderately steep, south-facing slope in the eastern part of the claim block. It is one of three zones that have been drilled. The zone consists of two sub-parallel veins located about 50 m apart, plus smaller veins and veinlets in the adjacent wallrocks. The two main veins comprise massive milky white quartz bands with vein parallel microfractures. Quartz bands range from 8 to 75 cm in width and contain trace to 20% fine-grained arsenopyrite with trace pyrite and occasional native gold grains. Although the quartz bands are often narrow, they are generally high grade. At surface, veins are highly fractured and clay altered with scorodite and limonite after sulphides. Weakly clay altered halos up to two metres wide envelope well mineralized quartz veins. Mineralization has been traced over a 700 m length, and the zone is open to extension in both directions along strike.

In 1995, eight diamond drill holes were completed on five section lines spaced 100 m apart in the north-central part of this zone. All eight of the holes drilled intersected one or more mineralized intervals. Table I shows drilling highlights from 1995.

Table I: Significant drill intersections from the Rikus Zone

Hole Number	Coordinates N E		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Width (m)	Uncut Grade Gold (g/t)
95-1	10+000	10+000	162.76	090	-50	36.45	37.45	1.00	4.20
						45.94	49.99	4.05	2.92
						46.94	47.07	0.13	80.00
						54.56	56.08	1.52	1.19
						79.44	80.44	1.00	1.89
						84.17	93.43	9.26	1.03
						92.15	93.43	1.28	4.79
95-2	9+900	10+023	141.43	090	-50	32.07	34.75	2.68	1.32
						39.32	40.23	0.91	4.49
						64.55	68.88	4.33	2.11
						81.99	82.99	1.00	1.50
95-3	9+900	10+022	170.08	090	-75	32.92	35.96	3.04	1.05
						46.63	48.62	1.99	2.49
						68.27	75.07	6.80	2.83
						71.32	74.07	2.75	5.32
						73.97	74.07	0.10	54.00
95-4	10+105	9+984	148.44	090	-50	31.78	35.58	3.80	2.29
						61.87	65.19	3.32	2.72
						65.11	65.19	0.08	48.60
95-5	10+192	9+982	134.72	090	-50	48.46	50.44	1.98	1.69
95-12	9+785	9+976	145.39	090	-50	32.38	33.57	1.19	4.56

				including		32.38	32.57	0.19	29.19
						68.05	69.15	1.10	1.49
				including		69.05	69.15	0.10	10.60
						71.69	72.89	1.20	1.87
				including		71.69	71.89	0.20	9.26
95-13	10+001	9+900	224.64	090	-50	99.27	100.44	1.17	2.01
						150.47	154.54	4.07	1.95
				including		150.47	151.47	1.00	4.69
95-14	10+105	9+939	156.36	090	-60	72.11	74.25	2.14	1.63
						142.64	144.12	1.48	3.06

In drill core, the veins are up to 20 cm thick and contain up to 20% arsenopyrite. Altered wallrocks are bleached, chloritized and typically exhibit finely disseminated arsenopyrite and calcite. Intensity of alteration is directly proportional to the degree of fracturing and abundance of quartz veinlets.

The highest grade intercept was 80.00 g/t gold over 13 cm in Hole 95-1. Five other intervals graded between 9.26 and 54.00 g/t gold across widths of 8 to 20 cm. The thickest intervals were 2.83 g/t gold over 6.80 m in Hole 95-3 and 1.03 g/t gold over 9.26 m in Hole 95-1. Fourteen core samples of altered wallrock taken on either side of the quartz veins returned a weighted average of 0.93 g/t gold over 1.35 m.

In 2002, mapping and sampling determined that the best mineralized vein intervals occur adjacent to an unmineralized cross fault. On the south side of the cross fault, the vein widens to 75 cm of massive quartz. A chip sample across this vein exposure assayed 22.40 g/t gold. On the north side of the fault the vein bifurcates into a swarm of sub-parallel, 0.5 to 2 cm veinlets. A chip sample across the vein swarm returned 7.37 g/t gold over 9.5 m.

In 2009, confirmation chip sampling was done in four previously dug hand trenches. The trenches were cleaned, mapped and sampled. This work focused on mineralization on the north side of the cross fault described in the previous paragraph. Table II lists significant intervals from 2009 sampling at the Rikus Zone.

Table II: 2009 Trench highlights from the Rikus Zone

Trench	From (mW)	To (mW)	Length (m)	Au (g/t)
TR-KL-09-01	1.70	2.88	1.18	9.49
including	1.70	1.89	0.19	25.60
TR-KL-09-02	1.00	5.72	4.72	3.18
including	1.76	1.84	0.08	31.50
& including	4.90	5.11	0.21	38.40
TR-KL-09-03	1.50	3.60	2.10	6.67
including	3.18	3.38	0.20	36.50
TR-KL-09-04	0.00	2.29	2.29	3.72

including	1.00	1.29	0.29	13.05
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In 2014, chip samples were collected across the surface trace of mineralized quartz veins in two historical hand trenches. Two chip samples from different trenches returned 51.6 g/t gold over 28 cm and 30 cm, respectively. A specimen sample of quartz vein float along strike to the north of the trenches returned 23.2 g/t gold.

The **Delor Zone** is situated about 2000 m west-northwest of the Rikus Zone. This zone covers an area about 300 by 200 m, which comprises boulders of quartz-carbonate vein material and mineralized garnet-rich orthogneiss wallrock. It has received only cursory exploration by previous operators, mainly because it lies on a frozen north-facing slope with no exposed bedrock. In 1995, vein fragments collected from frost heaves yielded up to 193.57 g/t gold (Wengzynowski, 1995).

In 2009, hand trenching targeted a previously unexplored recessive linear that was traced for a length of over 200 m. Trenching failed to reach bedrock, but boulders of quartz vein and mineralized biotite schist/gneiss wallrock were sampled prior to sloughing of trench walls. Seven specimen samples of quartz-carbonate vein with scorodite and arsenopyrite returned between 8.61 and 50.20 g/t gold.

In 2014, the 2009 hand trench was re-opened and bedrock was reached. Prior to encountering bedrock, a number of specimen samples were collected from loose rocks removed with the soil from the trench. Table III below lists significant gold values from rock specimens and bedrock within the trench.

Table III: 2014 Delor Zone highlights

TYPE	Au (g/t)
Specimen	225
Specimen	17.4
Specimen	3.79
Specimen	3.63
Specimen	3.33
Specimen	2.7
Specimen	9.69
Chip - 2 m	9.22

Prospecting along strike from the vein exposed in the trench resulted in the discovery of additional mineralized quartz vein float. Three specimen samples collected about 200 m northwest of the trench returned 3.33, 8.92 and 12.75 g/t gold, respectively.

The **DalBianco Zone** is situated 1000 m southwest of the Rikus Zone. No drilling has been done at this zone, but hand trenching was completed between 1987 and 2000. The DalBianco Zone comprises three sub-parallel veins, about 100 m apart that have been traced for 350 m along strike. Veins consist of barren to weakly mineralized quartz-carbonate gangue with a one to three metre wide, weakly silicified and rusty alteration halos that hosts minor disseminated

arsenopyrite. Mineralization within the quartz-carbonate veins occurs as 5 to 35 cm bands of semi-massive to massive, coarse grained arsenopyrite. Gold assays from halos the weakly mineralized typically have returned between 0.20 and 1.00 g/t, but have yielded up to 2.26 g/t. Chip samples of arsenopyrite-rich quartz-carbonate veins have assayed up to 41.07 g/t gold across 15 cm, but most have returned less than 9 g/t gold. Gold to arsenic ratios in this zone are the lowest on the property.

In 2009, confirmation sampling was done in three previously dug hand trenches. One trench was cleaned and chip sampled over a length of 3.15 m. Table IV lists significant sample intervals from this trench.

Table IV: 2009 Trench highlights from the DalBianco Zone

Trench	From (mW)	To (mW)	Length (m)	Au (g/t)
TR-KL-09-06	0.00	2.07	2.07	1.16
including	1.00	1.41	0.41	3.76

A grab sample was collected from each of the other two trenches. One of these samples yielded 2.02 g/t gold, while the other returned a background gold value.

The **Ross Zone** is located 2100 m west of the Rikus Zone. This zone is marked by a small soil geochemical anomaly. In 1995, the anomaly was tested by two excavator trenches and three diamond drill holes.

Trenching exposed a mineralized structure consisting of a one metre wide, light grey to dark brown clay gouge band containing small, quartz clasts and angular wallrock fragments. The first trench returned 19.06 g/t gold over one metre, but the other trench, which is situated 100 m to the south, did not expose significant mineralization.

The diamond drill holes targeted down-dip projections of the mineralized structure exposed in the first trench. Hole 1 was abandoned short of the zone. Hole 2 was drilled from the same drill setup as Hole 1, but at a slightly steeper angle. It intersected a section of clay gouge with quartz clasts, which assayed 4.16 g/t gold over 1.44 m. Only 27% of the material from this interval was recovered. Hole 3 was collared 50 m west of the other holes. This hole intersected weak vein structures near the top of the hole, which are correlated with subsidiary structures encountered near the tops of the first two holes, but it failed to intersect the main vein.

The **Malou Zone** lies between the Ross and Rikus zones. It is defined by two areas of anomalous soil geochemical response and three recessive topographic linears. In 1995, nine excavator trenches and three diamond drill holes tested mineralization at this zone. Trenching identified a 30 cm wide band of stockworked quartz-arsenopyrite veinlets within strongly altered wallrock. At surface, the altered wallrock comprises weathered white clay gouge surrounding one to five centimetre wide quartz bands with up to 15% coarse grained arsenopyrite. One trench across the zone returned 1.39 g/t gold over 30 cm, but two other trenches, which lie 105 m and 250 m to the north, failed to expose the mineralized structure.

Two diamond drill holes tested the down-dip projection of the vein described above. Hole 1 intersected strongly altered biotite schist hosting a stockwork of <1 mm wide quartz-arsenopyrite veinlets, which returned 2.74 g/t gold over 33 cm. Hole 2 intersected quartz-arsenopyrite veins and stockwork veinlets within weakly altered wallrock, but returned near background gold values.

The second topographic linear at the Malou Zone is located 600 m east of the previously described vein. Bedrock beneath this linear hosts a one metre wide band of altered and brecciated wallrock containing a stockwork zone of narrow quartz-arsenopyrite veinlets and a three to five centimetre wide quartz-arsenopyrite vein. A composite sample of five vein specimens collected in the vicinity of this linear returned 5.31 g/t gold, but a sample of mineralized vein material collected during trenching returned only slightly anomalous gold values. A drill intercept of altered and brecciated biotite schist with a 3.5 cm wide quartz-arsenopyrite vein and narrow veinlets returned 1.06 g/t gold over 1.13 m. Two other trenches located 100 m north and south did not cut mineralization.

Trenches dug on the third recessive linear and other geochemical anomalies at the Malou Zone failed to intersect significant mineralization and returned low gold assays.

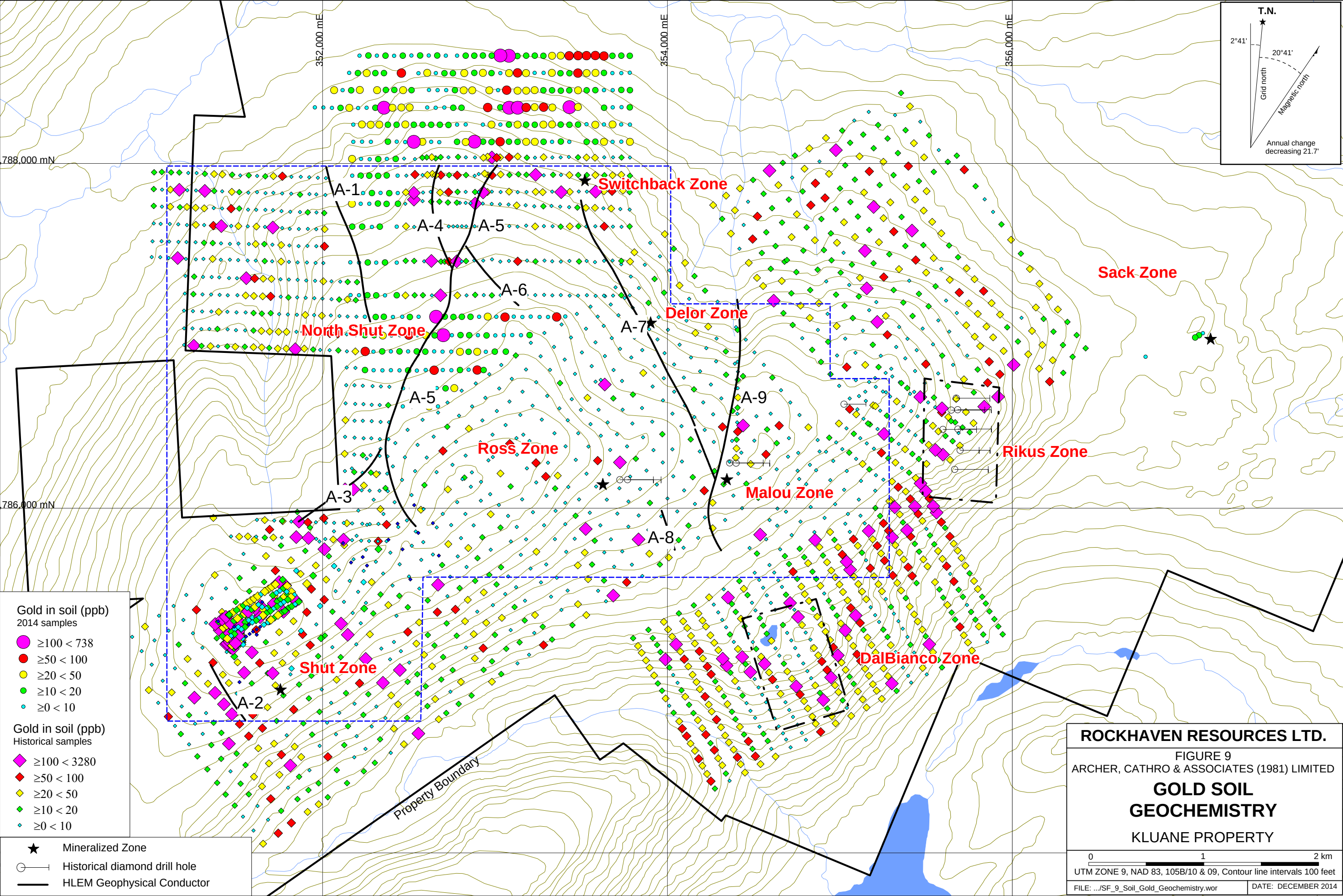
The **Sack Zone** lies 1400 m east of the Rikus Zone and is the easternmost zone on the property. It is located on a broad hummock separating two glacial valleys. In 1995, mineralized vein float was discovered along a series of poorly exposed linears. Mineralized specimens are typically less than 15 cm thick and returned assays ranging from 3 to 9 g/t gold. The Sack Zone is more arsenopyrite-rich than other zones.

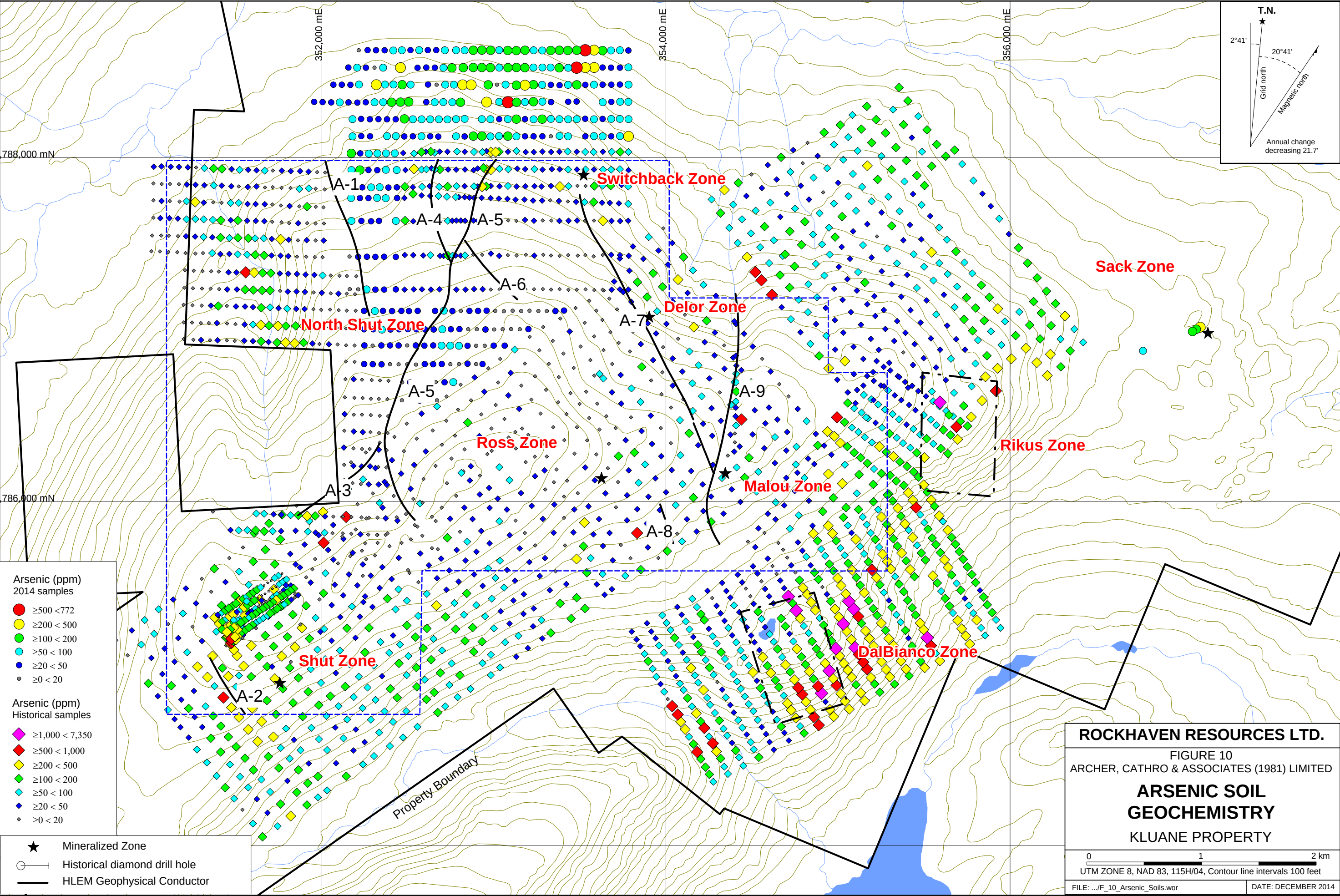
In 2014, two specimen samples were collected from bedrock at the Sack Zone, which returned 6.85 and 2.48 g/t gold, respectively.

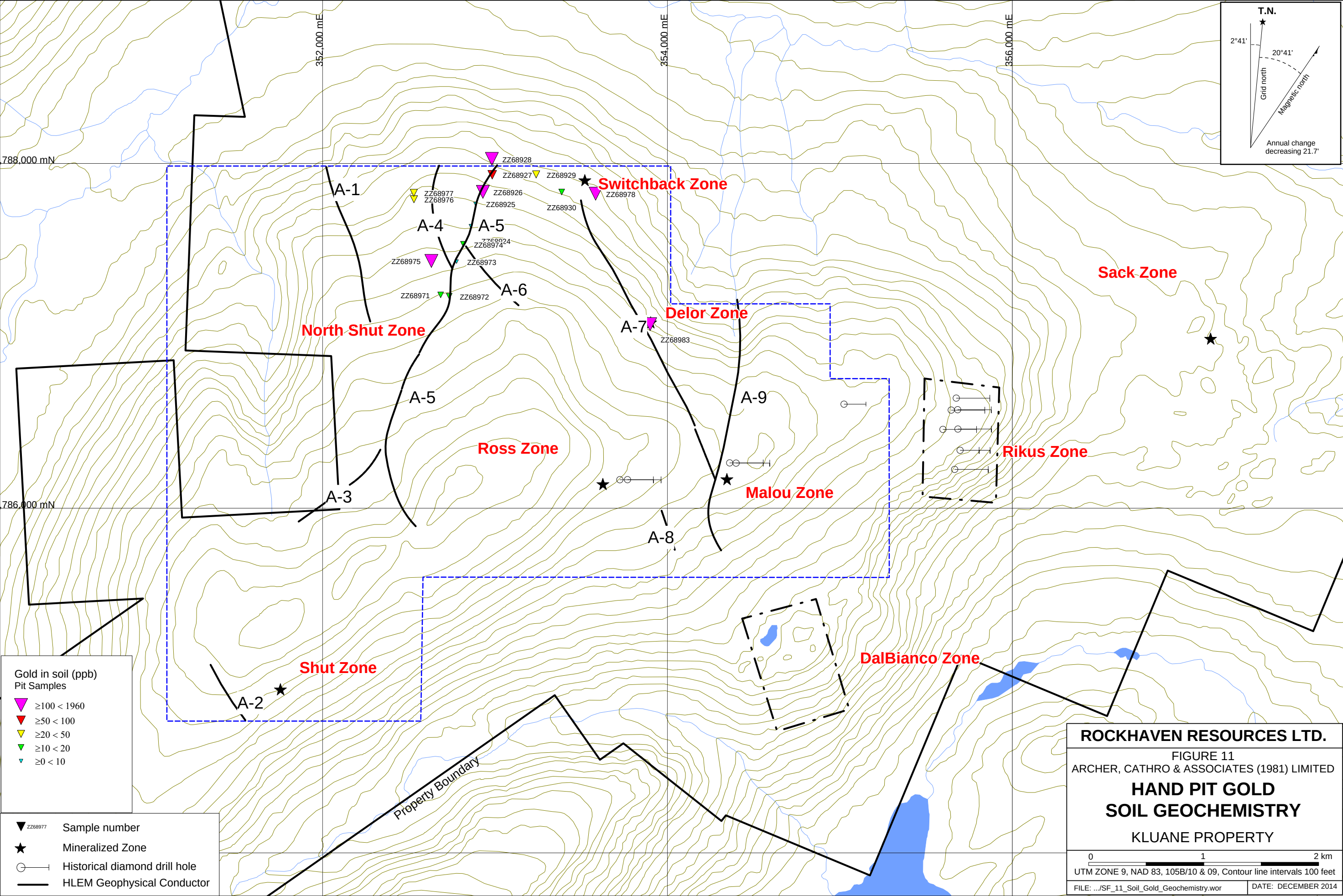
The **Switchback Zone** is located 700 m north of the Delor Zone and lies on a vegetated north-facing slope. This zone comprises a small talus train of weakly mineralized quartz vein and altered biotite schist/gneiss. There is no outcrop in the area. Historically, 12 samples of weakly mineralized vein and wallrock were collected. These samples yielded 0.15 to 10.15 g/t gold. In 2014, two rock samples returned noteworthy values (1.83 and 1.37 g/t gold).

The **Shut Zone** lies about three kilometres southwest of the Delor Zone. Mineralization at the Shut Zone is hosted in milky white, glassy or grey quartz-carbonate veins containing 2 to 20% fine grained disseminated arsenopyrite and rare galena. The mineralization has been identified along a 2300 m strike length. Four of 20 mineralized quartz specimens collected along the zone returned greater than 80 g/t gold and the average for the 20 samples was 21 g/t gold (Wengzynowski, 1995). Follow up sampling of additional quartz-carbonate vein float produced assays of 103 and 122 g/t gold (Eaton, 2003).

The **North Shut Zone** was discovered in 2014. It lies about two kilometres west of the Delor Zone and two kilometres north of the Shut Zone. A specimen sample of arsenopyrite-rich quartz vein returned 2.39 g/t gold.







The **Arc Zone** is located in the northern part of the property, about four kilometres north of the Delor Zone. It is underlain by Ruby Range Batholith. This zone was discovered in 1988 by J.P. Ross during following up of a coincidently anomalous gold-, arsenic-, silver- and antimony-in-soil anomaly. Gold mineralization has been identified in arsenopyrite-rich quartz veins, while gold and copper mineralization has been identified in magnetite bearing skarns. Two grab samples returned 86.0 and 10.94 g/t gold, respectively (Main, 1988). No work has been done to follow up the Arc Zone occurrence.

SOIL GEOCHEMISTRY AND HAND TRENCHING

In 2014, a total of 336 soil samples were collected from north of the Switchback Zone and from small gaps in the previously grid sampled areas, in the vicinity of HLEM geophysical conductors. To date, approximately 40% of the Kluane property has been grid soil sampled. The 2014 sample locations are shown on Figure 8. Gold and arsenic results from this sampling were compiled with historical data and are illustrated thematically on Figures 9 and 10, respectively.

All soil geochemical samples collected on the property were located by means of handheld GPS units. Sample locations were marked with orange flagging tape and labeled with sample number. Each soil sample was placed into individual pre-numbered kraft paper bags. Multi-element analyses for soil samples were carried out at ALS Minerals in North Vancouver, B.C. Soil samples were dried and sieved to -80 mesh. The fine fraction was then analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-ICP21 and ME-ICP41). Certificates of analysis are copied in Appendix IV. Table V lists the threshold values used to interpret soil geochemical results from on the property.

Table V: Soil geochemical thresholds

Element	Anomalous Thresholds			Peak Values	
	Weak	Moderate	Strong	2014	Historical
Gold (ppb)	$\geq 20 < 50$	$\geq 50 < 100$	≥ 100	738	3,284
Arsenic (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	772	7,350

A 3500 m long by 200 m wide, northeast-trending zone of strongly anomalous gold and arsenic values encompasses the **Rikus and DalBianco** zones. The anomaly is open to further extension along strike in both directions.

The **Ross Zone** is marked by a 500 m long by 150 m wide gold-in-soil anomaly. Samples yielding moderate and strong gold values were collected near the surface trace of a large north-trending geophysical anomaly.

The **Malou Zone** hosts a small cluster of moderate to strong gold and arsenic values and is open on its northwest side.

Based on cursory soil sampling at the **Sack Zone**, it appears that this zone has a strong arsenic but weak gold signature, which may be due to glacial till masking the true soil geochemical signature.

Historical soil sampling covered the **Delor Zone**; however, these samples yielded subdued results for gold and arsenic, likely due to pervasive permafrost which hindered depth of samples.

The **Switchback Zone** was sampled for the first time in 2009. Grid sampling in 2014 extended the sample coverage to the north and along a gentle slope to the west to cross projections HLEM of conductors A-4 and A-5. This sampling returned numerous strongly elevated gold-in-soil values along trend from the geophysical anomalies. The strongly elevated values extend to the northern edge of the grid, which suggests the mineralization continues northward onto the valley floor.

Hand pitting was completed at sixteen sites in 2014 (Figure 11). At each site, an one metre deep pit was excavated to test along the traces of HLEM geophysical conductors (A-4, A-5 and A-7) or previously identified strongly anomalous gold-in-soil locations. A soil sample was collected from a hole that was augered into the floor of each pit. Five of these sixteen soil samples yielded strongly anomalous gold values. The peak value from this sampling was 1.96 g/t. It should be noted that the soil horizons sampled from holes that augered into the floors of the hand pits were much deeper than the soil horizons sampled using conventional sampling of holes augered from surface.

DISCUSSION AND CONCLUSIONS

The Kluane property hosts a number of high-grade gold vein targets, plus a number of relatively untested soil geochemical and geophysical anomalies. The 2014 work program focused on expanding the soil sampling coverage and re-evaluating a number of historical hand trenches and mineralized float occurrences. This program successfully identified new areas of anomalous gold-in-soil values, which confirms the effectiveness of conventional soil sampling on the Kluane property, and expanded some of the known Zones of mineralization.

In 2014, a sample of muscovite-rich quartz vein was sent for Argon-Argon dating at the University of Alaska, Fairbanks through the YGS. This sample was selected to determine if the gold mineralization is orogenic or intrusion-related in nature. Understanding the nature of mineralization should help direct future exploration. It could also open up potential for an 'area-play' similar to the Juneau Gold Belt of Alaska or the Dawson Range Gold Belt of Yukon and Alaska.

The Kluane property definitely warrants additional work to better assess the character and extent of the known mineralization and to explore for new discoveries. The work program should consist of: 1) additional closely spaced soil sampling to test previously unsampled areas – including areas underlain by Ruby Range Batholith; 2) additional HLEM surveying to extend the coverage northward into the batholith; 3) detailed prospecting and hand trenching along the length of various geophysical conductors with special attention on structural junctions; and

4) helicopter-portable diamond drilling in areas where high-grade zones have been identified in trenches.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink that reads "Heather Burrell". The signature is written in a cursive, flowing style.

Heather Burrell. P.Geol.

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Burrell, geologist, with business addresses in Vancouver and Squamish, British Columbia and Whitehorse, Yukon Territory and residential address in Whitehorse, Yukon Territory do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B.Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I am a partner in Archer, Cathro & Associates (1981) Limited.
5. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.



H. Burrell, B.Sc., P.Ge

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
Delor 1-35, Malou 1-52 and Shut 5 Mineral Claims
December 5, 2014

Labour

D. Eaton (geologist) 6 hours July to November at \$120/hr	\$ 756.00
H. Burrell (geologist) 60 hours May to November at \$96/hr	6,048.00
M. Turner (geologist) 5 hours May and June at \$87/hr	456.75
A. Mitchell (geologist) 72 hours May to July at \$74/hr	5,594.40
M. van Loon (field assistant) 88 hours July at \$58/hr	5,359.20
G. Smith (field assistant) 88 hours July at \$43/hr	3,973.20
J. Mariacher (office) 4 ¾ hours July to November at \$90/hr	448.88
J. Itkin (office) 7.6 hours May to October at \$85/hr	678.30
L. Corbett (expedite) 16 hours May to September at \$81/hr	1,360.80
D. Arnold-Wallinger (expedite) 9 ½ hours July at \$74/hr	738.15
S. Newman (office) 4 hours July at \$62/hr	260.40
L. Smith (expedite) 20 hours May to December at \$62/hr	<u>1,302.00</u>
	26,976.08

Expenses (including management)

Field room and board – 41 5/8 mandays @ \$180/manday	8,496.50
Capital Helicopters – 11.1 hours Bell 206B at \$1,025/hr plus fuel	13,928.12
ALS Chemex	10,404.99
JP Exploration	480.54
Truck rental and fuel	<u>585.69</u>
	33,895.84
 Total	 <u>\$60,871.92</u>

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896212	UTM:	353814 mE	Nad83, Zone 8
Elevation:	1836 m	UTM:	6786917 mN	
Comments: Sucrosic quartz vein. Yellow-white-orange with shiny maroon to brown fracture coatings (manganese?)				
Sample Number:	M896213	UTM:	353941 mE	Nad83, Zone 8
Elevation:	1837 m	UTM:	6786821 mN	
Comments: White to orange sucrosic, glassy quartz with stringers of specularite (?) - silver to black, shiny.				
Sample Number:	M896214	UTM:	353996 mE	Nad83, Zone 8
Elevation:	1868 m	UTM:	6786665 mN	
Comments: Specimen of 40 cm by 30 cm glassy, sucrosic quartz vein with disseminated grey sulphide (arsenopyrite?) - interstitial with quartz. Rare limonite stain.				
Sample Number:	M896215	UTM:	354349 mE	Nad83, Zone 8
Elevation:	1813 m	UTM:	6786807 mN	
Comments: Angular, 1.4 m by 50 cm by 50 cm chalcedonic to slightly granular quartz vein with <3% limonite speckles with trace disseminated arsenopyrite				
Sample Number:	M896216	UTM:	353936 mE	Nad83, Zone 8
Elevation:	1779 m	UTM:	6787086 mN	
Comments: Specimen sample of 20 cm by 10 cm by 6 cm chalcedonic to vuggy quartz vein with coarse, bug-filled arsenopyrite. Also <2mm veinlets of arsenopyrite.				
Sample Number:	M896217	UTM:	353903 mE	Nad83, Zone 8
Elevation:	1780 m	UTM:	6787077 mN	
Comments: Specimen sample from discard pile of TR-09-05. Sample is 40 by 30 by 25 cm. Chalcedonic quartz vein with coarse blebs and clots of arsenopyrite and pyrite. Scorodite on some fracture surfaces.				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896218	UTM:	353900 mE	Nad83, Zone 8
Elevation:	1776 m	UTM:	6787080 mN	
Comments: Specimen sample of graphitic quartz vein, brecciated. Multiple phases or pulses of cross-cutting quartz veinlets with trace arsenopyrite mineralization.				
Sample Number:	M896219	UTM:	353902 mE	Nad83, Zone 8
Elevation:	1777 m	UTM:	6787078 mN	
Comments: Specimen sample from discard pile of TR-09-05. Sample of 20 cm by 15 cm by 15 cm chalcedonic quartz vein with bands and clots of disseminated arsenopyrite with rare coarse pyrite.				
Sample Number:	M896220	UTM:	354047 mE	Nad83, Zone 8
Elevation:	1747 m	UTM:	6787039 mN	
Comments: Sample 30 cm ² of quartz vein with black to grey sulphide, pale green chromian mica (mariposite)				
Sample Number:	M896221	UTM:	354081 mE	Nad83, Zone 8
Elevation:	1826 m	UTM:	6786798 mN	
Comments: Sample from a 60 cm by 40 cm by 40 cm boulder of white to grey, crystalline to glassy quartz vein. Disseminated grey to black sulphide provides grey-tinge to the glassy quartz. Rare limonitic areas. In recessive linear just west of a large snow patch.				
Sample Number:	M896222	UTM:	354145 mE	Nad83, Zone 8
Elevation:	1823 m	UTM:	6786794 mN	
Comments: Rusty, orange-brown chalcedonic quartz vein. Moderate limonite stain. Rock looks like it has been 'hammered' by fluids. Small seams of biotite. Specimen is 10 cm by 20 cm by 20 cm.				
Sample Number:	M896223	UTM:	354434 mE	Nad83, Zone 8
Elevation:	1725 m	UTM:	6786960 mN	
Comments: Specimen sample in talus adjacent to a snow patch. Quartz vein - 20 cm by 30 cm by 15 cm. White to pale pink quartz with 1 cm areas with live limonite pits. Moderately punky and sucrosic with vugs and cavities.				

Rock Sample DescriptionsProperty: Kluane

Sample Number: M896224 UTM: 353561 mE Nad83, Zone 8

Elevation: 1648 m UTM: 6787839 mN

Comments: Near high gold-in-soil sample. Brecciated quartz vein with limonitic vugs and clasts of schist and chalcedonic quartz. Also cross-cut by numerous quartz veins. At Switchback Zone - composite chip 4 pc/2 m.

Sample Number: M896225 UTM: 352594 mE Nad83, Zone 8

Elevation: 1805 m UTM: 6787390 mN

Comments: Composite chip 2 pc/2 m from talus in grass. Moderately abundant on western side of proeprty. Bleached volcanic (?) dyke with live limonite and goethite-filling bugs. Small clusters of shiny black sulphide.

Sample Number: M896226 UTM: 352851 mE Nad83, Zone 8

Elevation: 1766 m UTM: 6787615 mN

Comments: Second most abundant rock type in area - bleached volcanic (?) dyke with phenocrysts of glassy quartz eyes. Specimen is 10 cm by 15 cm by 30 cm. Disseminated black sulphides with limonite pits and vugs.

Sample Number: M896227 UTM: 352842 mE Nad83, Zone 8

Elevation: 1771 m UTM: 6787606 mN

Comments: Float from talus. Abundant in area. Fine grained, homogeneous dyke, pale to medium grey. Fine fractures and rare phenocrystas of altered feldspars. Limonite pits and grey to black shiny sulphide - specularite? <2%

Sample Number: M896228 UTM: 352657 mE Nad83, Zone 8

Elevation: 1750 m UTM: 6787738 mN

Comments: Boulder 1.0 by 0.5 by 0.5 m quartz vein with calcite seams and biotite crystals. Less than 3 cm limonite-rich pockets. Moderately abundant in area of talus (schist)

Sample Number: M896229 UTM: 352761 mE Nad83, Zone 8

Elevation: 1801 m UTM: 6787457 mN

Comments: Specimen sample - 20 cm by 10 cm by 10 cm of glassy, sucrosic quartz vein. Grey hue from entrapped sulphides (?). Hairline fractures with limonite coatings and 2 mm wide by 4 mm long cavities also filled with limonite, a black sulphide and an orange tinge (?)

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896230	UTM:	352792 mE	Nad83, Zone 8
Elevation:	1864 m	UTM:	6787209 mN	
Comments: Sample from a linear talus patch (150degrees). About two metres wide. Abundant bleached dyke float with orange altered feldspar phenocrysts. Disseminated fine grained sulphides and limonite speckles on broken surfaces. Abundant in area. Composite sample 14 pc /8 m.				
Sample Number:	M896231	UTM:	352874 mE	Nad83, Zone 8
Elevation:	1980 m	UTM:	6786667 mN	
Comments: Talus field-60% schist, 39% felsic dyke, 1% quartz vein. Sample is a composite chip of 4 pc/3 m of limonite speckled dyke with quartz and feldspar eyes plus fine grained black sulphides.				
Sample Number:	M896232	UTM:	352914 mE	Nad83, Zone 8
Elevation:	1983 m	UTM:	6786680 mN	
Comments: Same talus field as -231. Quartz boulder 70 cm by 60 cm by 30 cm. White crystalline, sucrosic quartz with orange alteration 'crust' near edge. Limonite areas and rare black sulphides. Collected because of proximity/relationship with felsic dyke.				
Sample Number:	M896233	UTM:	353000 mE	Nad83, Zone 8
Elevation:	1983 m	UTM:	6786737 mN	
Comments: Boulder within schist talus. 1 m by 0.75 m by 0.65 m felsic dyke with quartz eyes (glassy) <0.5 cm. Clotted and blebby disseminations of black shiny sulphide. Sphalerite? Limonite pits and speckles throughout.				
Sample Number:	M896234	UTM:	353532 mE	Nad83, Zone 8
Elevation:	1665 m	UTM:	6787749 mN	
Comments: Float sample 30 cm by 20 cm by 20 cm in grassy slope within the Switchback Zone. Quartz vein with chalcedony and epithermal vugs. Breccia-like clasts of very fine arsenopyrite crystals and scorodite. Very nice.				
Sample Number:	M896235	UTM:	352981 mE	Nad83, Zone 8
Elevation:	1657 m	UTM:	6788026 mN	
Comments: Hand pit sample - composite grab from pit of CC70710. Bleached felsic dyke with disseminated limonite and goethite. Fine black sulphides disseminated throughout.				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896236	UTM:	355050 mE	Nad83, Zone 8
Elevation:	1792 m	UTM:	6786611 mN	
Comments: Specimen sample from reclaimed historical trench. Size - 20 cm by 30 cm by 40 cm. Quartz vein, sucrosic-glassy. White quartz with biotite, hairline limonite fractures and <1 cm ² blebs of dull to slightly shiny tourmaline or wolframite masses. Oxidized sulphide clasts.				
Sample Number:	M896237	UTM:	355096 mE	Nad83, Zone 8
Elevation:	1781 m	UTM:	6786515 mN	
Comments: Composite chip sample of 6 pc/4 m. Sucrosic, glassy quartz vein blocks <60 cm ³ . Wolframite-tourmaline-biotite crystals present. Weak limonite, but no visible sulphides. Abundant rock type in historical trench.				
Sample Number:	M896238	UTM:	355782 mE	Nad83, Zone 8
Elevation:	1611 m	UTM:	6786430 mN	
Comments: A 30 cm chip sample across an epithermal, banded, chalcedonic quartz vein. In-situ! Approximately 20% arsenopyrite. Weak limonite and bugs with well formed quartz crystals. Vein orientation - 158/58W.				
Sample Number:	M896239	UTM:	355783 mE	Nad83, Zone 8
Elevation:	1628 m	UTM:	6786460 mN	
Comments: Historical hand trench. No bedrock. Specimen sample of orange weathered quartz vein - sucrosic with limonite pits and abundant fracturing.				
Sample Number:	M896240	UTM:	355787 mE	Nad83, Zone 8
Elevation:	1646 m	UTM:	6786485 mN	
Comments: From historical hand trench. Did not sample entire trench because I could still see the 2009 flagging/sample intervals. Sample of 28 cm quartz vein with arsenopyrite and scorodite. Vein orientation: 165/50W.				
Sample Number:	M896241	UTM:	355768 mE	Nad83, Zone 8
Elevation:	1642 m	UTM:	6786515 mN	
Comments: Float sample in grass on flat area at Rikus Zone. Chalcedonic, banded quartz vein with 10-20% arsenopyrite and limonite fractures. Size - 20 cm by 20 cm by 15 cm.				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896242	UTM:	355289 mE	Nad83, Zone 8
Elevation:	1679 m	UTM:	6787154 mN	
Comments: Specimen sample from talus. Fine grained volcanic dyke. Orange to brown weathering surface. Limonite speckles <1mm by 4 mm. Phenocrysts of sylphides. One cleavage present.				
Sample Number:	M896243	UTM:	355129 mE	Nad83, Zone 8
Elevation:	1686 m	UTM:	6787172 mN	
Comments: Composite chip sample of 8 pc/2 m. Collected from recessive linear that hosts abundant felsic dyke with quartz eyes, limonite speckles and disseminated sulphides.				
Sample Number:	M896244	UTM:	352583 mE	Nad83, Zone 8
Elevation:	1725 m	UTM:	6787836 mN	
Comments: Twelve pieces of silicified quartz vein with limonite fractures and brecciated schist and fine grained arsenopyrite <2%.				
Sample Number:	M896245	UTM:	352383 mE	Nad83, Zone 8
Elevation:	1681 m	UTM:	6787833 mN	
Comments: Six pieces from pit. Punky, altered schist with abundant limonite.				
Sample Number:	M896246	UTM:	352235 mE	Nad83, Zone 8
Elevation:	1708 m	UTM:	6787934 mN	
Comments: Six pieces of felsic dyke with limonite speckles and fine grained black sulphides.				
Sample Number:	M896247	UTM:	353621 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787812 mN	
Comments: Quartz vein with rusty stained surface and weak scordite staining. Hosts weak blebby to disseminated aspy. Float taken from felsenmeer/talus train with ~ 2% of felsenmeer comprising mineralized quartz vein.				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896248	UTM:	353565 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787847 mN	
Comments: Brecciated quartz vein and purple-grey hue. Weak limonite vugs. Quartz vein is ~ 25 m wide and sample was taken from float on a vegetated slope.				
Sample Number:	M896249	UTM:	353798 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787610 mN	
Comments: Quartz vein (up to 15 cm) hosting up to 20% aspy with rusty weathering surface. Sample taken from felsenmeer/talus field. Quartz vein consisted of 1% of felsenmeer/talus.				
Sample Number:	M896250	UTM:	353529 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787774 mN	
Comments: Quartz chalcedony vein with limonite to goethite vugs (weak). Quartz has purple-grey hue with rusty to limonite weathered surface.				
Sample Number:	M896251	UTM:	353528 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787773 mN	
Comments: Quartz vein hosting weak to moderate blebby/disseminated aspy, limoite/goethite vugs with manganse stain.				
Sample Number:	M896252	UTM:	353655 mE	Nad83, Zone 8
Elevation:	m	UTM:	6788220 mN	
Comments: Quartz vein taken within talus. Only piece in this area and up to 5 cm wide. Host limonite vugs/stringers (trace).				
Sample Number:	M896253	UTM:	353327 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787787 mN	
Comments: Quartz vein cutting schist. Quartz vein is 10 cm and hosts black to silver metallic mx (aspy? - weak). Only one piece of quartz like this in area.				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896254	UTM:	353220 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787768 mN	
Comments: Quartz vein up to 15 cm within linear-like gully. Weak scordite staining? With stringers of silver metallic mineral.				
Sample Number:	M896255	UTM:	352929 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787838 mN	
Comments: Aplite dyke with rusty to manganese stained surface with limonite pits disseminated throughout (up to 2%). Sample taken at end of linear-like structure of M896254				
Sample Number:	M896256	UTM:	352858 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787633 mN	
Comments: Quartz vein cross cutting quartz biotite schist. Quartz vein hosts rusty fracture surfaces and weak limonite blebs.				
Sample Number:	M896257	UTM:	352590 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787563 mN	
Comments: Quartz vein up to 10 cm hosting strong manganese stain and goethite along fractures. Sample taken from felsensmeer field hosting up to 1% quartz and dominantly schist				
Sample Number:	M896258	UTM:	352650 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787764 mN	
Comments: Quartz vein with trace to weak goethite blebs (generally found along fracture planes). Sample taken from vegetation below large frost heave. Trace aplite dyke in the area and up to 1% bull quartz				
Sample Number:	M896259	UTM:	353587 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787585 mN	
Comments: Quartz vein with active limonite to goethite weathering with semi-massive arsenopyrite.				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896260	UTM:	353592 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787574 mN	
Comments:	3 piece composite chip sample of quartz-biotite schist hosting limonite and weak scordite staining? Strong manganese stain on surface			
Sample Number:	M896261	UTM:	353590 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787506 mN	
Comments:	Altered quartz biotite schist with trace aspy? And scordite staining? Found within small talus train along Switchback and Delor zone trend. Only 1 piece of this in talus field			
Sample Number:	M896262	UTM:	353758 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787441 mN	
Comments:	Quartz vein/altered wall rock comprising limonite vugs/stringers and scordite staining. Manganese and rusty stained surface. Taken from talus train and makes up ~1% of rocks within it.			
Sample Number:	M896263	UTM:	353667 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787448 mN	
Comments:	Quartz vein/altered quartz biotite schist with trace scordite staining and aspy? Limonite vugs (up to 2%) pervasive throughout. Sample taken from large talus field and only specimen like it within the talus.			
Sample Number:	M896264	UTM:	353929 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787107 mN	
Comments:	Rusty weathering quartz vein (up to 15 cm) with weak aspy (blebby and disseminated) with moderate scordite staining. Sample was taken below Delor trenches. Sample was taken from talus train with vegetation growing within it			
Sample Number:	M896265	UTM:	353662 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787472 mN	
Comments:	Quartz vein with limonite vugs and purple-grey hue quartz crystals found sporadically throughout. Moderate manganese stain and possibly earthy hematite. Sample collected from talus field and represents ~ 1% of talus.			

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896266	UTM:	353659 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787560 mN	
Comments: Altered quartz biotite schist with disseminated aspy with quartz veins. Only rock found like this wiithin talus field.				
Sample Number:	M896267	UTM:	351403 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787609 mN	
Comments: Diorite dyke with disseminated limonite and fine grained sulphides with strong manganese stain. Sample taken from frost heave with dominantly quartz biotite schist and trace bull quartz				
Sample Number:	M896268	UTM:	351303 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786980 mN	
Comments: Quartz vein with trace to weak limonite vugs/elongate clasts (<1mm). Sample taken from frost heave and only quartz vein in it - rest is schist and gneiss				
Sample Number:	M896269	UTM:	351295 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786973 mN	
Comments: Rusty weathering quartz vein with up to 5% goethite crystals (black to deep purple). Texture of rock is somewhat crumbly. Sample taken from float from frost heave with mostly schist to gneiss. Only like this found in frost heave				
Sample Number:	M896270	UTM:	351773 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786930 mN	
Comments: Altered quartz biotite schist with trace aspy? And scordite staining?. Sample taken from talus/felsenmeer and veg covered steep slope below high Au in soil. Only piece in talus.				
Sample Number:	M896271	UTM:	351858 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786920 mN	
Comments: Quartz vein with up to 20% aspy. Rock forms almost bx like textuer on weathering surface. Sample is a 2 piece composite chip sample taken above large talus field on steep vegetated slope. Quartz vein is up to 10 cm				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896272	UTM:	351854 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786890 mN	
Comments:	Quartz vein with up to 20% aspy. Rock forms almost bx like textuer on weathering surface. Sample is a 1 piece composite chip sample taken below a quartz-biotite schist-gneiss cliff face. Quartz vein is up to 4 cm			
Sample Number:	M896273	UTM:	353875 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787120 mN	
Comments:	Altered quartz vein (up to 10 cm) with strong manganeses staining and limonite vugs disseminated within it. Crumbly like texture and taken from talus/vegetation - only sample like this in the area			
Sample Number:	M896274	UTM:	353843 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787172 mN	
Comments:	1 piece composite chip sample of up to 5 cm quartz vein with up to 5% aspy disseminated throught. Weak scordite stain on surface and sample was taken from 2x0.5m talus train on steep vegetated slope			
Sample Number:	M896275	UTM:	353843 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787258 mN	
Comments:	Up to 5 cm quartz vein with trace aspy? With rusty to manganese stained weathering surface. Sample taken from talus slope - only sample like this in the area			
Sample Number:	M896276	UTM:	353751 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787433 mN	
Comments:	Up to 4 cm rusty weathering quartz vein with weak limonite vugs. Taken from talus field and only rock like this in the area			
Sample Number:	M896277	UTM:	352124 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786103 mN	
Comments:	Rusty weathering quartz vein with rusty to limonitic vugs (up to 5 cm)			

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896278	UTM:	352328 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786017 mN	
Comments:	Up to 5 cm quartz vein with rusty weathering surface with impurities of limonite and mica?. Only oxidized quartz vein found in area at the base of talus within a cirque			
Sample Number:	M896279	UTM:	352058 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786144 mN	
Comments:	Rusty weathering quartz vein (up to 4 cm) found within frost heave of schist-gneiss. Makes up ~ 1% of the rock in the area (other quartz veins are bull quartz)			
Sample Number:	M896280	UTM:	351875 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786413 mN	
Comments:	Rusty weathering quartz vein (up to 5 cm) with manganese stained vugs and trace biotite. Sample collected from talus slope comprising quartz-biotite schist/gneiss and bull quartz.			
Sample Number:	M896281	UTM:	351995 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786706 mN	
Comments:	Rusty weathering quartz vein (up to 4 cm) with strong manganese staining along fractures. Sample taken from talus field and represents ~ 1% of the rock here.			
Sample Number:	M896282	UTM:	352025 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786907 mN	
Comments:	Up to 8 cm quartz vein with strong oxide and manganese weathering surface with rusty limonite vugs. Sample taken from beneath a large quartz-biotite schist boulder within a talus train.			
Sample Number:	M896283	UTM:	357155 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786901 mN	
Comments:	Stockwork quartz veining within fine grained diorite-andesite dyke? Quartz veins are up to 1 cm and have red to blood red staining and rock appears somewhat brecciated-like. Sample was taken as float on top of granodiorite outcrop			

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896284	UTM:	357274 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786809 mN	
Comments: Rusty weathered granodiorite with limonite pits with rusty and manganases stained fractures. Found in 2x2 m outcrop, appears altered compared to o/c's in the area.				
Sample Number:	M896285	UTM:	357039 mE	Nad83, Zone 8
Elevation:	m	UTM:	6786947 mN	
Comments: 5 cm aspy-rich quartz vein with up to 15% aspy. Sample taken from vein adjacent to similar trending gully. Strong scordite stain on surface. Trends 166/65W				
Sample Number:	M896286	UTM:	357057 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787030 mN	
Comments: 2 cm aspy-rich quartz vein with up to 50% aspy. Sample taken from fracture filling. Fracture density in the area is 7 fractures per m.				
Sample Number:	M896287	UTM:	353898 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787084 mN	
Comments: TR-14-1				
Sample Number:	M896288	UTM:	353898 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787084 mN	
Comments: TR-14-1				
Sample Number:	M896289	UTM:	353898 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787084 mN	
Comments: TR-14-1				

Rock Sample Descriptions		Property: Kluane		
Sample Number:	M896290	UTM:	353898 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787084 mN	
Comments: TR-14-1				
Sample Number:	M896291	UTM:	353898 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787084 mN	
Comments: TR-14-1				
Sample Number:	M896292	UTM:	353898 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787084 mN	
Comments: TR-14-1				
Sample Number:	M896293	UTM:	353899 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787067 mN	
Comments: TR-14-2				
Sample Number:	M896294	UTM:	353899 mE	Nad83, Zone 8
Elevation:	m	UTM:	6787067 mN	
Comments: TR-14-2				

APPENDIX IV
CERTIFICATES OF ANALYSIS



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

To: **ROCKHAVEN RESOURCES LTD.**
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Page: **1**
Total # Pages: **5 (A - C)**
Plus Appendix Pages
Finalized Date: **5 - AUG - 2014**
Account: **ROCKHA**

CERTIFICATE WH14109754

Project: KLUANE

P.O. No.: Kluane Soil

This report is for 125 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24-JUL-2014.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

JARED TARSWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SCR-41	Screen to -180um and save both
LOG-21	Sample logging - ClientBarCode

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: **ROCKHAVEN RESOURCES LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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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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Page: 2 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 5-AUG-2014
Account: ROCKHA

Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109754

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	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
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68647		0.46	0.014	<0.2	3.01	29	<10	270	0.6	<2	0.31	<0.5	17	71	31	3.13
ZZ68648		0.34	0.015	<0.2	2.30	55	<10	240	<0.5	<2	0.33	<0.5	15	59	21	3.66
ZZ68649		0.30	0.015	<0.2	2.58	86	<10	270	<0.5	<2	0.37	<0.5	16	72	26	3.33
ZZ68650		0.32	0.052	<0.2	2.32	109	<10	250	<0.5	<2	0.38	<0.5	12	64	41	2.62
ZZ68651		0.36	0.071	<0.2	2.57	419	<10	310	0.5	<2	0.43	<0.5	17	67	40	3.59
ZZ68652		0.33	0.099	<0.2	2.50	544	<10	360	<0.5	<2	0.51	<0.5	19	68	48	3.69
ZZ68653		0.54	0.099	<0.2	2.61	184	<10	340	0.5	<2	0.49	<0.5	18	71	30	3.53
ZZ68654		0.47	0.053	0.2	3.04	107	<10	390	0.6	<2	0.37	<0.5	18	83	38	3.56
ZZ68655		0.40	0.027	<0.2	2.72	128	<10	400	0.5	<2	0.42	<0.5	18	71	35	3.51
ZZ68656		0.38	0.026	0.2	2.81	128	<10	410	0.6	<2	0.39	<0.5	17	75	33	3.81
ZZ68657		0.34	0.012	<0.2	3.46	56	<10	370	0.9	<2	0.34	<0.5	16	89	42	3.86
ZZ68658		0.33	0.018	0.2	3.15	87	<10	360	0.8	<2	0.36	<0.5	18	80	35	3.83
ZZ68659		0.29	0.014	<0.2	2.86	108	<10	240	0.7	<2	0.27	<0.5	16	77	35	3.59
ZZ68660		0.30	0.018	<0.2	2.92	191	<10	310	0.7	<2	0.31	<0.5	17	73	36	3.84
ZZ68661		0.35	0.192	0.2	3.19	155	<10	350	0.9	<2	0.27	<0.5	18	83	43	4.09
ZZ68662		0.32	0.186	<0.2	3.04	79	<10	310	0.9	<2	0.25	<0.5	15	80	44	3.46
ZZ68663		0.28	0.018	0.2	2.71	199	<10	260	0.7	<2	0.28	<0.5	15	66	39	3.88
ZZ68664		0.35	0.016	<0.2	1.89	154	<10	170	0.5	<2	0.25	<0.5	16	48	28	3.05
ZZ68665		0.40	0.012	<0.2	2.32	121	<10	210	0.6	<2	0.29	<0.5	15	60	36	3.27
ZZ68666		0.34	0.011	<0.2	2.67	85	<10	280	0.6	<2	0.35	<0.5	20	74	37	3.74
ZZ68667		0.33	0.003	<0.2	2.38	64	<10	190	0.6	<2	0.31	<0.5	15	60	32	3.31
ZZ68668		0.38	0.006	<0.2	2.08	56	<10	180	0.5	<2	0.30	<0.5	15	56	33	3.05
ZZ68669		0.45	0.010	<0.2	1.48	29	<10	130	<0.5	<2	0.18	<0.5	14	42	21	2.62
ZZ68670		0.33	0.005	<0.2	2.60	37	<10	270	0.7	<2	0.33	<0.5	17	71	46	3.63
ZZ68671		0.29	0.018	0.2	3.56	91	<10	340	1.0	<2	0.46	<0.5	29	85	66	4.68
ZZ68672		0.29	0.006	<0.2	1.26	49	<10	110	<0.5	<2	0.30	<0.5	14	30	26	2.01
ZZ68673		0.36	0.013	<0.2	2.78	98	<10	240	0.8	<2	0.31	<0.5	26	68	53	3.98
ZZ68674		0.45	0.007	0.2	3.86	57	<10	390	0.9	<2	0.29	<0.5	26	99	47	5.38
ZZ68675		0.56	0.012	<0.2	3.06	29	<10	340	0.7	<2	0.32	<0.5	15	84	44	3.68
ZZ68676		0.43	0.003	<0.2	2.10	27	<10	210	0.5	<2	0.30	<0.5	10	57	25	3.08
ZZ68677		0.43	0.018	<0.2	2.95	22	<10	300	0.6	<2	0.33	<0.5	15	80	25	3.46
ZZ68678		0.40	0.005	<0.2	2.71	19	<10	280	0.6	<2	0.32	<0.5	13	76	26	3.14
ZZ68679		0.41	0.039	<0.2	2.83	23	<10	340	0.7	<2	0.37	<0.5	15	82	37	3.63
ZZ68680		0.25	0.002	<0.2	2.34	30	<10	230	0.5	<2	0.33	0.7	14	69	28	3.46
ZZ68681		0.39	0.011	<0.2	2.68	41	<10	280	0.8	<2	0.35	<0.5	37	71	34	3.82
ZZ68682		0.30	0.031	<0.2	2.76	58	<10	280	0.6	<2	0.33	<0.5	14	81	28	3.75
ZZ68683		0.31	0.023	0.3	3.16	284	<10	270	0.7	<2	0.33	<0.5	16	89	44	4.73
ZZ68684		0.47	0.015	<0.2	2.66	92	<10	270	0.7	<2	0.48	<0.5	20	79	41	3.77
ZZ68685		0.38	0.013	<0.2	2.88	60	<10	330	0.9	<2	0.44	<0.5	18	82	44	3.87
ZZ68686		0.40	0.023	<0.2	2.75	137	<10	260	0.7	<2	0.33	<0.5	20	77	36	3.85



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Page: 2 - B
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 5-AUG-2014
Account: ROCKHA

Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109754

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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68647		10	<1	0.32	10	1.02	285	1	0.02	42	760	8	0.03	<2	8
ZZ68648		10	1	0.27	10	0.83	360	1	0.02	30	850	5	0.04	<2	6
ZZ68649		10	1	0.29	10	1.07	307	1	0.03	36	900	4	0.05	<2	6
ZZ68650		10	<1	0.31	10	0.94	250	1	0.03	29	930	6	0.04	<2	6
ZZ68651		10	<1	0.33	10	1.01	458	1	0.03	33	1070	5	0.04	<2	6
ZZ68652		10	1	0.39	10	1.05	470	1	0.03	34	1160	5	0.04	<2	7
ZZ68653		10	1	0.37	10	0.95	512	1	0.03	34	1160	4	0.02	<2	7
ZZ68654		10	<1	0.51	10	1.12	350	<1	0.03	42	960	6	0.03	<2	9
ZZ68655		10	<1	0.42	10	0.99	500	<1	0.03	36	810	6	0.05	<2	8
ZZ68656		10	<1	0.47	10	0.99	454	1	0.03	40	1090	6	0.03	<2	8
ZZ68657		10	1	0.45	10	1.11	372	<1	0.03	48	910	6	0.05	<2	10
ZZ68658		10	1	0.45	<10	0.99	907	1	0.02	47	830	7	0.04	<2	9
ZZ68659		10	1	0.29	10	1.01	463	<1	0.02	40	630	9	0.04	<2	8
ZZ68660		10	<1	0.41	10	0.94	403	1	0.02	42	840	6	0.05	<2	8
ZZ68661		10	<1	0.59	10	1.00	476	1	0.02	44	910	9	0.04	<2	10
ZZ68662		10	1	0.47	10	0.99	330	1	0.02	44	840	8	0.04	<2	9
ZZ68663		10	1	0.29	10	0.87	428	1	0.02	39	820	8	0.08	<2	7
ZZ68664		10	<1	0.19	10	0.63	512	1	0.02	28	800	7	0.04	<2	5
ZZ68665		10	<1	0.25	10	0.78	478	1	0.02	35	780	6	0.05	<2	6
ZZ68666		10	<1	0.33	10	0.94	690	1	0.02	43	860	7	0.05	<2	8
ZZ68667		10	1	0.20	10	0.79	443	1	0.02	34	790	7	0.05	<2	6
ZZ68668		10	<1	0.24	10	0.74	456	1	0.02	33	760	6	0.04	<2	6
ZZ68669		10	<1	0.10	<10	0.53	654	1	0.02	23	590	5	0.04	<2	4
ZZ68670		10	<1	0.33	10	0.93	457	1	0.03	42	820	6	0.06	<2	7
ZZ68671		10	<1	0.31	10	1.17	916	1	0.03	65	940	10	0.07	<2	8
ZZ68672		<10	<1	0.09	<10	0.43	443	1	0.02	22	720	5	0.03	2	3
ZZ68673		10	<1	0.27	10	0.90	842	1	0.02	49	850	8	0.07	<2	6
ZZ68674		10	<1	0.66	10	1.27	728	1	0.02	60	810	8	0.03	<2	12
ZZ68675		10	<1	0.64	10	1.07	329	<1	0.02	45	790	5	0.02	<2	11
ZZ68676		10	<1	0.43	10	0.72	261	<1	0.02	29	750	4	0.03	<2	7
ZZ68677		10	<1	0.62	10	1.05	408	<1	0.02	42	900	5	0.02	<2	9
ZZ68678		10	<1	0.65	10	1.00	359	<1	0.02	38	750	5	0.02	<2	9
ZZ68679		10	<1	0.80	10	1.02	403	<1	0.02	42	1100	3	0.01	<2	10
ZZ68680		10	<1	0.52	10	0.88	327	<1	0.02	35	740	3	0.01	<2	8
ZZ68681		10	<1	0.32	10	0.93	1600	<1	0.02	38	920	7	0.05	<2	7
ZZ68682		10	<1	0.53	10	1.03	300	<1	0.02	43	1030	5	0.04	<2	8
ZZ68683		10	1	0.45	10	1.12	371	<1	0.02	49	930	8	0.09	<2	9
ZZ68684		10	<1	0.55	10	1.04	648	<1	0.03	47	860	6	0.03	<2	9
ZZ68685		10	<1	0.66	10	1.04	542	<1	0.02	53	1080	4	0.03	<2	10
ZZ68686		10	<1	0.47	10	1.03	541	1	0.02	46	700	9	0.04	<2	8



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CERTIFICATE OF ANALYSIS WH14109754

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ68647		<20	0.21	<10	<10	97	<10	84
ZZ68648		<20	0.19	<10	<10	83	<10	72
ZZ68649		<20	0.21	<10	<10	96	<10	84
ZZ68650		<20	0.19	<10	<10	80	<10	74
ZZ68651		<20	0.20	<10	<10	96	<10	94
ZZ68652		<20	0.22	<10	<10	101	<10	88
ZZ68653		<20	0.22	<10	<10	103	<10	92
ZZ68654		<20	0.25	<10	<10	115	<10	96
ZZ68655		<20	0.22	<10	<10	107	<10	90
ZZ68656		<20	0.23	<10	<10	113	<10	92
ZZ68657		<20	0.25	<10	<10	128	<10	98
ZZ68658		<20	0.23	<10	<10	119	<10	95
ZZ68659		<20	0.20	<10	<10	113	<10	89
ZZ68660		<20	0.20	<10	<10	110	<10	90
ZZ68661		<20	0.23	<10	<10	128	<10	95
ZZ68662		<20	0.22	<10	<10	118	<10	91
ZZ68663		<20	0.17	<10	<10	103	<10	89
ZZ68664		<20	0.14	<10	<10	88	<10	66
ZZ68665		<20	0.16	<10	<10	92	<10	80
ZZ68666		<20	0.21	<10	<10	111	<10	91
ZZ68667		<20	0.15	<10	<10	96	<10	72
ZZ68668		<20	0.16	<10	<10	87	<10	75
ZZ68669		<20	0.14	<10	<10	80	<10	54
ZZ68670		<20	0.20	<10	<10	106	<10	88
ZZ68671		<20	0.17	<10	<10	120	<10	117
ZZ68672		<20	0.08	<10	<10	52	<10	47
ZZ68673		<20	0.17	<10	<10	112	<10	102
ZZ68674		<20	0.28	<10	<10	147	<10	108
ZZ68675		<20	0.25	<10	<10	121	<10	90
ZZ68676		<20	0.18	<10	<10	94	<10	65
ZZ68677		<20	0.24	<10	<10	107	<10	90
ZZ68678		<20	0.24	<10	<10	104	<10	85
ZZ68679		<20	0.27	<10	<10	118	<10	89
ZZ68680		<20	0.24	<10	<10	112	<10	80
ZZ68681		<20	0.19	<10	<10	108	<10	84
ZZ68682		<20	0.22	10	<10	120	<10	88
ZZ68683		<20	0.20	<10	<10	127	<10	95
ZZ68684		<20	0.22	<10	<10	116	<10	195
ZZ68685		<20	0.25	<10	<10	124	<10	101
ZZ68686		<20	0.21	<10	<10	118	<10	92



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Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109754

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	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 %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68687		0.39	0.019	<0.2	2.61	71	<10	260	0.6	<2	0.31	<0.5	17	75	40	3.62
ZZ68688		0.35	0.006	<0.2	2.59	28	<10	240	0.7	<2	0.32	<0.5	18	95	43	3.78
ZZ68689		0.36	<0.001	<0.2	0.48	6	<10	50	<0.5	<2	0.21	<0.5	6	14	19	2.09
ZZ68690		0.37	0.005	<0.2	2.42	72	<10	210	0.7	<2	0.30	<0.5	17	73	38	3.46
ZZ68691		0.41	0.011	<0.2	2.67	56	<10	270	0.7	<2	0.39	<0.5	18	75	44	3.66
ZZ68692		0.37	0.039	<0.2	2.68	221	<10	270	0.8	2	0.32	<0.5	18	74	50	3.84
ZZ68693		0.33	0.035	<0.2	2.67	308	<10	310	0.7	<2	0.36	<0.5	17	84	37	3.68
ZZ68694		0.28	0.022	<0.2	2.87	134	<10	300	0.8	<2	0.42	<0.5	18	78	41	3.87
ZZ68695		0.26	<0.001	<0.2	0.61	12	<10	50	<0.5	<2	0.22	0.5	6	16	13	1.60
ZZ68696		0.44	0.083	<0.2	2.31	92	<10	270	0.7	<2	0.31	<0.5	15	60	35	3.23
ZZ68697		0.33	0.007	<0.2	3.11	62	<10	380	0.8	<2	0.35	<0.5	20	93	45	4.16
ZZ68698		0.34	0.004	<0.2	3.03	58	<10	320	0.8	2	0.32	<0.5	19	91	44	4.01
ZZ68699		0.34	0.042	<0.2	2.38	66	<10	270	0.6	<2	0.38	<0.5	15	71	31	3.24
ZZ68700		0.34	0.006	<0.2	2.63	46	<10	290	0.7	<2	0.32	<0.5	18	74	38	3.51
ZZ68701		0.30	0.021	<0.2	2.66	65	<10	260	0.7	<2	0.29	<0.5	18	72	46	3.87
ZZ68702		0.31	0.005	<0.2	2.66	49	<10	300	0.7	<2	0.50	<0.5	21	74	39	3.52
ZZ68703		0.49	0.017	<0.2	3.02	59	<10	360	0.7	<2	0.47	<0.5	18	84	36	3.66
ZZ68704		0.52	0.014	<0.2	3.14	59	<10	400	0.7	<2	0.42	<0.5	17	93	32	3.83
ZZ68705		0.46	0.018	<0.2	3.22	72	<10	390	0.7	<2	0.41	<0.5	18	90	32	3.83
ZZ68706		0.44	0.032	<0.2	3.33	61	<10	440	0.9	<2	0.42	<0.5	17	93	39	3.87
ZZ68707		0.44	0.030	0.2	3.07	103	<10	400	0.9	<2	0.46	<0.5	17	87	46	4.20
ZZ68708		0.31	0.010	<0.2	3.68	54	<10	380	1.3	<2	0.32	<0.5	19	85	61	4.42
ZZ68709		0.33	0.013	<0.2	3.21	36	<10	380	0.9	<2	0.28	<0.5	17	82	43	3.81
ZZ68710		0.36	0.032	0.2	2.77	108	<10	320	0.7	<2	0.33	<0.5	14	82	34	3.45
ZZ68711		0.42	0.019	<0.2	2.44	67	<10	250	0.6	2	0.30	<0.5	11	75	32	3.25
ZZ68712		0.29	0.004	0.2	2.14	36	<10	230	0.6	<2	0.30	<0.5	11	57	38	3.13
ZZ68713		0.35	0.021	<0.2	2.44	77	<10	300	0.8	2	0.43	<0.5	13	66	37	3.36
ZZ68714		0.37	0.003	<0.2	2.61	57	<10	350	0.7	<2	0.39	<0.5	16	80	37	3.77
ZZ68715		0.39	0.008	0.2	2.74	82	<10	290	0.7	<2	0.35	<0.5	15	82	39	3.64
ZZ68716		0.23	0.004	0.2	1.59	53	<10	150	<0.5	<2	0.28	<0.5	20	38	25	3.54
ZZ68717		0.19	0.003	<0.2	2.02	22	<10	220	<0.5	<2	0.29	<0.5	9	55	27	2.28
ZZ68718		0.25	0.005	<0.2	2.14	36	<10	230	<0.5	<2	0.35	<0.5	15	59	23	3.26
ZZ68719		0.21	0.019	<0.2	2.37	49	<10	300	0.5	<2	0.47	<0.5	15	67	32	3.32
ZZ68720		0.20	0.029	<0.2	2.66	216	<10	310	0.5	<2	0.47	<0.5	15	76	41	3.57
ZZ68721		0.27	0.042	0.2	2.69	319	<10	310	0.5	2	0.37	<0.5	18	75	45	3.69
ZZ68722		0.26	0.093	0.3	3.53	722	<10	510	0.7	3	0.69	<0.5	25	87	78	4.80
ZZ68723		0.26	0.018	<0.2	3.12	66	<10	400	0.8	2	0.39	<0.5	16	86	42	4.01
ZZ68724		0.25	0.013	0.2	2.65	187	<10	330	0.7	<2	0.41	<0.5	14	64	39	3.44
ZZ68725		0.27	0.020	<0.2	3.01	79	<10	380	0.8	<2	0.40	<0.5	16	75	44	3.85
ZZ68726		0.25	0.006	<0.2	2.98	59	<10	340	0.8	<2	0.35	<0.5	16	78	46	3.91



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CERTIFICATE OF ANALYSIS WH14109754

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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68687		10	<1	0.49	10	0.97	479	<1	0.02	44	630	5	0.03	<2	8
ZZ68688		10	<1	0.35	10	1.21	581	<1	0.02	48	950	5	0.03	<2	8
ZZ68689		<10	<1	0.05	<10	0.18	145	<1	0.01	7	700	<2	0.01	<2	1
ZZ68690		10	<1	0.30	10	0.93	494	<1	0.02	44	820	5	0.03	<2	7
ZZ68691		10	<1	0.45	10	0.95	515	<1	0.02	45	970	5	0.03	<2	8
ZZ68692		10	<1	0.33	10	0.98	503	<1	0.02	45	890	8	0.05	2	8
ZZ68693		10	<1	0.51	10	1.01	505	<1	0.02	47	1020	7	0.03	<2	9
ZZ68694		10	<1	0.44	10	1.06	622	<1	0.02	45	900	7	0.05	<2	9
ZZ68695		<10	<1	0.05	<10	0.20	297	<1	0.02	8	710	2	0.04	<2	1
ZZ68696		10	<1	0.37	10	0.79	457	<1	0.02	34	910	5	0.04	<2	7
ZZ68697		10	<1	0.58	10	1.23	468	<1	0.03	51	1020	5	0.03	<2	10
ZZ68698		10	<1	0.39	10	1.18	438	<1	0.02	48	770	6	0.04	<2	9
ZZ68699		10	<1	0.36	10	0.95	386	<1	0.03	36	860	4	0.03	<2	8
ZZ68700		10	<1	0.32	10	0.98	468	<1	0.02	41	760	4	0.03	<2	8
ZZ68701		10	<1	0.29	10	0.97	468	<1	0.02	42	900	9	0.05	<2	7
ZZ68702		10	<1	0.25	10	1.02	604	<1	0.02	39	890	6	0.06	<2	6
ZZ68703		10	<1	0.65	10	1.13	492	<1	0.03	44	990	4	0.03	<2	9
ZZ68704		10	<1	0.71	10	1.24	378	<1	0.03	44	1020	6	0.02	<2	10
ZZ68705		10	<1	0.67	10	1.23	441	<1	0.03	44	1060	6	0.03	<2	10
ZZ68706		10	<1	0.61	10	1.11	601	<1	0.02	50	1000	5	0.04	<2	11
ZZ68707		10	<1	0.66	10	1.09	593	<1	0.02	48	1030	6	0.03	<2	10
ZZ68708		10	<1	0.42	10	1.02	560	<1	0.02	53	980	6	0.07	<2	9
ZZ68709		10	<1	0.53	10	0.94	690	1	0.01	50	700	5	0.03	<2	10
ZZ68710		10	1	0.62	10	1.03	457	<1	0.01	42	820	6	0.02	<2	9
ZZ68711		10	<1	0.49	10	0.94	297	1	0.01	36	720	4	0.03	<2	8
ZZ68712		10	<1	0.22	10	0.72	386	1	0.01	33	810	6	0.06	<2	5
ZZ68713		10	<1	0.48	10	0.85	522	1	0.01	37	870	7	0.05	<2	8
ZZ68714		10	1	0.65	10	1.01	501	1	0.02	43	730	4	0.03	<2	10
ZZ68715		10	1	0.44	10	0.98	509	1	0.01	46	800	6	0.07	<2	8
ZZ68716		<10	<1	0.16	10	0.49	837	2	0.01	22	870	2	0.07	<2	3
ZZ68717		10	<1	0.22	<10	0.76	258	1	0.02	29	730	4	0.05	<2	5
ZZ68718		10	<1	0.23	10	0.84	334	1	0.02	33	980	3	0.02	<2	6
ZZ68719		10	1	0.25	10	1.00	375	1	0.02	35	1050	6	0.04	<2	6
ZZ68720		10	<1	0.28	10	1.10	364	1	0.02	37	990	5	0.06	<2	6
ZZ68721		10	1	0.26	10	1.06	434	1	0.02	37	910	4	0.04	<2	7
ZZ68722		10	1	0.51	10	1.35	816	1	0.03	49	1200	8	0.06	2	9
ZZ68723		10	<1	0.46	10	1.09	488	1	0.02	45	840	4	0.03	<2	10
ZZ68724		10	<1	0.33	10	0.90	527	1	0.02	36	930	4	0.04	<2	7
ZZ68725		10	<1	0.24	10	0.96	713	1	0.01	45	920	6	0.07	<2	7
ZZ68726		10	<1	0.27	10	0.94	672	1	0.02	45	920	2	0.06	<2	8



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CERTIFICATE OF ANALYSIS WH14109754

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ68687		<20	0.22	<10	<10	115	<10	91
ZZ68688		<20	0.21	<10	<10	112	<10	91
ZZ68689		<20	0.10	<10	<10	73	<10	35
ZZ68690		<20	0.19	<10	<10	106	<10	97
ZZ68691		<20	0.21	<10	<10	115	<10	94
ZZ68692		<20	0.20	<10	<10	113	<10	102
ZZ68693		<20	0.21	<10	<10	112	<10	102
ZZ68694		<20	0.22	<10	<10	116	<10	101
ZZ68695		<20	0.08	<10	<10	51	<10	41
ZZ68696		<20	0.19	<10	<10	101	<10	83
ZZ68697		<20	0.28	<10	<10	140	<10	95
ZZ68698		<20	0.26	<10	<10	132	<10	101
ZZ68699		<20	0.21	<10	<10	103	<10	86
ZZ68700		<20	0.20	<10	<10	109	<10	93
ZZ68701		<20	0.19	<10	<10	119	<10	97
ZZ68702		<20	0.18	<10	<10	108	<10	121
ZZ68703		<20	0.25	<10	<10	123	<10	94
ZZ68704		<20	0.28	<10	<10	128	<10	100
ZZ68705		<20	0.26	<10	<10	122	<10	101
ZZ68706		<20	0.26	<10	<10	130	<10	105
ZZ68707		<20	0.23	<10	<10	133	<10	116
ZZ68708		<20	0.24	<10	<10	133	<10	92
ZZ68709		<20	0.25	<10	<10	121	<10	90
ZZ68710		<20	0.23	<10	<10	108	<10	86
ZZ68711		<20	0.22	<10	<10	103	<10	79
ZZ68712		<20	0.16	<10	<10	92	<10	79
ZZ68713		<20	0.20	<10	<10	102	<10	83
ZZ68714		<20	0.26	<10	<10	115	<10	94
ZZ68715		<20	0.19	<10	<10	109	<10	85
ZZ68716		<20	0.11	<10	<10	70	<10	45
ZZ68717		<20	0.18	<10	<10	76	<10	68
ZZ68718		<20	0.19	<10	<10	92	<10	78
ZZ68719		<20	0.21	<10	<10	95	<10	87
ZZ68720		<20	0.21	10	<10	102	<10	86
ZZ68721		<20	0.21	10	<10	103	<10	89
ZZ68722		<20	0.26	<10	<10	129	<10	119
ZZ68723		<20	0.27	<10	<10	126	<10	101
ZZ68724		<20	0.20	<10	<10	100	<10	82
ZZ68725		<20	0.18	<10	<10	110	<10	88
ZZ68726		<20	0.20	<10	<10	118	<10	101



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	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
		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68727		0.23	0.006	0.2	3.90	78	<10	430	1.1	<2	0.33	<0.5	17	99	51	4.70
ZZ68728		0.26	0.022	<0.2	2.62	173	<10	230	0.7	2	0.28	<0.5	13	68	36	3.80
ZZ68729		0.27	0.090	<0.2	2.76	148	<10	290	0.7	<2	0.35	<0.5	15	70	39	3.68
ZZ68730		0.23	0.023	<0.2	2.72	106	<10	290	0.7	<2	0.31	<0.5	15	73	37	3.97
ZZ68731		0.24	0.007	<0.2	3.03	88	<10	290	0.8	3	0.38	<0.5	17	77	42	4.14
ZZ68732		0.26	0.012	<0.2	2.75	146	<10	260	0.7	<2	0.39	<0.5	16	73	40	3.87
ZZ68733		0.27	0.025	<0.2	1.90	128	<10	190	0.5	2	0.36	<0.5	13	52	40	4.02
ZZ68734		0.23	0.012	<0.2	2.68	114	<10	210	0.7	<2	0.28	0.5	16	71	39	4.03
ZZ68735		0.33	0.021	<0.2	2.99	149	<10	280	0.8	<2	0.32	<0.5	18	77	48	4.16
ZZ68736		0.43	0.013	0.2	2.96	108	<10	230	0.9	<2	0.29	<0.5	19	78	46	4.10
ZZ68737		0.26	0.016	<0.2	2.64	76	<10	210	0.7	2	0.27	<0.5	18	73	46	3.83
ZZ68738		0.31	0.006	<0.2	2.25	42	<10	210	0.6	<2	0.30	<0.5	16	64	38	3.49
ZZ68739		0.29	0.028	<0.2	3.06	40	<10	310	0.8	<2	0.31	<0.5	21	89	54	4.36
ZZ68740		0.18	0.007	<0.2	2.09	30	<10	190	0.5	<2	0.27	<0.5	16	60	42	3.40
ZZ68741		0.32	0.060	0.3	3.38	227	<10	300	1.0	<2	0.42	<0.5	29	89	64	4.90
ZZ68742		0.30	0.011	0.3	4.24	67	<10	350	1.2	<2	0.31	<0.5	22	102	60	5.59
ZZ68743		0.32	0.018	0.3	2.69	18	<10	260	0.6	<2	0.25	<0.5	11	79	33	2.93
ZZ68744		0.32	0.022	0.2	3.18	30	<10	290	0.8	<2	0.27	<0.5	15	87	47	3.46
ZZ68745		0.37	0.012	0.2	3.48	55	<10	380	0.8	<2	0.36	<0.5	20	95	48	4.75
ZZ68746		0.31	0.007	<0.2	3.11	30	<10	350	0.7	<2	0.35	<0.5	19	86	42	3.94
ZZ68747		0.30	0.008	0.2	2.89	35	<10	350	0.7	<2	0.40	<0.5	19	84	40	4.09
ZZ68748		0.33	0.007	<0.2	2.95	34	<10	350	0.7	<2	0.46	<0.5	19	83	41	4.01
ZZ68749		0.25	0.008	<0.2	3.07	33	<10	360	0.7	<2	0.45	<0.5	21	84	49	4.30
ZZ68750		0.23	0.011	0.2	2.67	65	<10	290	0.7	<2	0.56	<0.5	24	70	54	3.90
ZZ68751		0.35	0.032	<0.2	2.36	32	<10	280	0.5	<2	0.45	<0.5	15	70	29	3.43
ZZ68752		0.29	0.008	<0.2	2.82	31	<10	300	0.7	<2	0.37	<0.5	21	77	38	3.92
ZZ68753		0.28	0.008	0.2	2.61	40	<10	260	0.6	<2	0.43	<0.5	18	69	36	3.73
ZZ68754		0.24	0.011	0.4	3.12	66	<10	340	0.9	<2	0.58	<0.5	27	81	56	4.21
ZZ68755		0.18	0.150	0.3	2.96	66	<10	340	0.8	<2	0.51	<0.5	23	87	50	4.18
ZZ68756		0.24	0.022	0.4	3.26	134	<10	360	0.8	<2	0.63	<0.5	25	94	59	4.55
ZZ68757		0.29	0.028	0.3	3.67	173	<10	410	1.0	<2	0.54	<0.5	24	102	56	4.82
ZZ68758		0.24	0.025	0.4	3.08	128	<10	280	0.8	<2	0.55	<0.5	26	84	55	4.15
ZZ68759		0.23	0.008	<0.2	3.25	32	<10	310	1.0	<2	0.36	<0.5	23	80	56	4.50
ZZ68760		0.20	0.009	0.2	2.76	50	<10	260	0.8	<2	0.38	<0.5	18	69	55	4.04
ZZ68761		0.26	0.009	0.2	3.11	64	<10	290	1.0	<2	0.28	<0.5	20	83	47	4.41
ZZ68762		0.29	0.011	0.3	2.94	76	<10	280	0.9	<2	0.34	<0.5	18	83	45	4.00
ZZ68763		0.24	0.019	0.2	2.63	149	<10	250	0.7	<2	0.35	<0.5	18	67	41	3.82
ZZ68764		0.37	0.077	0.2	2.65	203	<10	300	0.7	<2	0.47	<0.5	17	76	43	3.81
ZZ68765		0.35	0.014	0.2	2.61	63	<10	320	0.7	<2	0.48	<0.5	17	72	38	3.68
ZZ68766		0.31	0.147	<0.2	3.79	606	<10	530	0.9	2	0.69	<0.5	20	101	51	4.67



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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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68727		10	<1	0.48	10	1.24	591	1	0.02	58	960	7	0.05	<2	10
ZZ68728		10	1	0.23	10	0.90	382	1	0.01	39	820	4	0.04	<2	7
ZZ68729		10	1	0.30	10	0.93	521	1	0.02	40	930	5	0.05	<2	7
ZZ68730		10	<1	0.28	10	0.96	475	1	0.02	43	790	5	0.04	<2	7
ZZ68731		10	<1	0.27	10	1.03	602	1	0.02	45	870	5	0.06	<2	8
ZZ68732		10	1	0.36	10	0.99	500	1	0.02	43	810	6	0.06	<2	8
ZZ68733		10	<1	0.19	10	0.66	394	1	0.02	30	1050	4	0.03	<2	5
ZZ68734		10	<1	0.16	10	0.91	586	1	0.01	43	820	11	0.07	<2	5
ZZ68735		10	<1	0.34	10	1.00	659	1	0.01	52	940	8	0.04	<2	8
ZZ68736		10	<1	0.34	10	1.05	651	1	0.02	48	830	7	0.03	<2	8
ZZ68737		10	1	0.35	10	0.98	597	2	0.01	48	960	7	0.03	<2	8
ZZ68738		10	1	0.35	10	0.86	537	1	0.02	40	910	8	0.03	<2	7
ZZ68739		10	<1	0.47	10	1.15	695	1	0.02	55	1040	7	0.03	3	9
ZZ68740		10	1	0.27	10	0.81	445	<1	0.02	41	820	2	0.03	<2	6
ZZ68741		10	<1	0.47	10	1.20	783	2	0.02	65	920	8	0.06	<2	10
ZZ68742		10	<1	0.59	10	1.38	586	1	0.01	69	700	12	0.04	<2	11
ZZ68743		10	<1	0.57	10	0.99	284	<1	0.01	41	720	5	0.05	<2	9
ZZ68744		10	1	0.59	10	1.11	321	<1	0.02	47	510	6	0.05	<2	10
ZZ68745		10	<1	0.74	10	1.26	541	1	0.02	51	780	8	0.03	<2	12
ZZ68746		10	<1	0.74	10	1.16	443	<1	0.02	44	990	5	0.01	<2	11
ZZ68747		10	<1	0.76	10	1.16	484	<1	0.03	44	840	4	0.01	<2	11
ZZ68748		10	<1	0.67	10	1.15	450	<1	0.04	45	760	4	0.03	<2	10
ZZ68749		10	<1	0.70	10	1.15	495	1	0.03	51	1010	4	0.02	<2	10
ZZ68750		10	<1	0.36	10	1.01	673	1	0.03	49	1030	6	0.06	<2	7
ZZ68751		10	<1	0.59	10	0.99	433	<1	0.03	36	1170	3	0.01	<2	9
ZZ68752		10	<1	0.31	10	1.06	715	1	0.02	41	900	6	0.07	<2	7
ZZ68753		10	<1	0.24	10	0.96	572	1	0.02	37	920	6	0.06	<2	6
ZZ68754		10	<1	0.38	10	1.08	999	1	0.03	52	1160	8	0.10	<2	8
ZZ68755		10	<1	0.43	10	1.11	622	1	0.03	53	930	6	0.08	<2	8
ZZ68756		10	<1	0.44	10	1.25	750	1	0.04	59	1150	9	0.07	<2	9
ZZ68757		10	<1	0.66	10	1.35	773	<1	0.04	62	930	7	0.03	<2	11
ZZ68758		10	<1	0.48	10	1.16	648	1	0.04	51	1030	6	0.06	2	9
ZZ68759		10	<1	0.29	10	1.10	647	1	0.02	52	950	8	0.08	<2	8
ZZ68760		10	<1	0.30	10	0.96	646	1	0.02	43	1090	6	0.10	<2	7
ZZ68761		10	<1	0.40	10	1.07	615	1	0.02	47	900	7	0.08	<2	9
ZZ68762		10	<1	0.49	10	1.05	570	<1	0.02	47	930	6	0.05	<2	9
ZZ68763		10	<1	0.30	10	0.91	496	1	0.02	39	830	6	0.05	<2	7
ZZ68764		10	<1	0.60	10	1.02	462	<1	0.03	44	1230	6	0.02	<2	10
ZZ68765		10	<1	0.61	10	1.03	489	<1	0.03	40	1150	6	0.03	<2	9
ZZ68766		10	<1	1.01	10	1.49	617	<1	0.04	49	1310	9	0.01	<2	14



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ68727		<20	0.27	<10	<10	145	<10	113
ZZ68728		<20	0.18	<10	<10	108	<10	85
ZZ68729		<20	0.20	<10	<10	107	<10	86
ZZ68730		<20	0.21	<10	<10	118	<10	89
ZZ68731		<20	0.21	<10	<10	118	<10	95
ZZ68732		<20	0.21	<10	<10	110	<10	94
ZZ68733		<20	0.20	<10	<10	125	<10	84
ZZ68734		<20	0.16	<10	<10	106	<10	107
ZZ68735		<20	0.20	<10	<10	114	<10	101
ZZ68736		<20	0.20	<10	<10	111	<10	110
ZZ68737		<20	0.20	<10	<10	106	<10	101
ZZ68738		<20	0.19	<10	<10	100	<10	92
ZZ68739		<20	0.23	<10	<10	119	<10	110
ZZ68740		<20	0.18	<10	<10	99	<10	82
ZZ68741		<20	0.24	<10	<10	135	<10	123
ZZ68742		<20	0.25	<10	<10	150	<10	125
ZZ68743		<20	0.22	<10	<10	103	<10	81
ZZ68744		<20	0.24	<10	<10	122	<10	89
ZZ68745		<20	0.27	<10	<10	141	<10	103
ZZ68746		<20	0.27	<10	<10	123	<10	97
ZZ68747		<20	0.27	<10	<10	122	<10	96
ZZ68748		<20	0.29	<10	<10	126	<10	89
ZZ68749		<20	0.28	<10	<10	129	<10	100
ZZ68750		<20	0.20	<10	<10	107	<10	100
ZZ68751		<20	0.25	<10	<10	106	<10	84
ZZ68752		<20	0.20	<10	<10	111	<10	87
ZZ68753		<20	0.18	<10	<10	107	<10	80
ZZ68754		<20	0.19	<10	<10	123	<10	99
ZZ68755		<20	0.22	<10	<10	128	<10	95
ZZ68756		<20	0.22	<10	<10	131	<10	107
ZZ68757		<20	0.27	<10	<10	144	<10	116
ZZ68758		<20	0.23	<10	<10	123	<10	113
ZZ68759		<20	0.21	<10	<10	125	<10	101
ZZ68760		<20	0.18	<10	<10	110	<10	95
ZZ68761		<20	0.22	<10	<10	124	<10	87
ZZ68762		<20	0.22	<10	<10	117	<10	89
ZZ68763		<20	0.20	<10	<10	111	<10	84
ZZ68764		<20	0.24	<10	<10	115	<10	100
ZZ68765		<20	0.24	<10	<10	110	<10	104
ZZ68766		<20	0.32	<10	<10	146	<10	120



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		Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68767		0.41	0.134	0.2	2.56	190	<10	260	0.6	<2	0.46	<0.5	17	68	42
ZZ68768		0.27	0.087	<0.2	3.22	98	<10	390	0.9	<2	0.44	<0.5	17	90	44
ZZ68769		0.32	0.045	0.2	3.76	197	<10	490	1.0	<2	0.45	<0.5	21	103	59
ZZ68770		0.31	0.093	<0.2	3.04	50	<10	450	0.8	<2	0.43	<0.5	16	91	42
ZZ68771		0.30	0.025	0.2	2.92	47	<10	400	0.8	2	0.41	<0.5	17	87	38



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		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68767		10	<1	0.43	10	1.05	511	1	0.03	40	1230	6	0.04	<2	8
ZZ68768		10	<1	0.70	10	1.14	537	<1	0.02	46	1050	5	0.03	<2	11
ZZ68769		10	<1	0.92	10	1.21	717	<1	0.03	57	1370	5	0.02	<2	14
ZZ68770		10	<1	0.83	10	1.07	511	<1	0.03	47	1430	3	0.01	<2	11
ZZ68771		10	<1	0.68	10	1.07	491	<1	0.02	42	1140	3	0.02	<2	11



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Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109754

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ68767		<20	0.20	<10	<10	104	<10	94
ZZ68768		<20	0.27	<10	<10	130	<10	97
ZZ68769		<20	0.31	<10	<10	161	<10	115
ZZ68770		<20	0.28	<10	<10	130	<10	90
ZZ68771		<20	0.28	<10	<10	125	<10	95



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CERTIFICATE OF ANALYSIS WH14109754

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG - 21 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 WH14109755

Project: KLUANE

This report is for 211 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24-JUL-2014.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

JARED TARSWELL

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
LOG-21	Sample logging - ClientBarCode

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: **ROCKHAVEN RESOURCES LTD.**
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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 WH14109755

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	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
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68773		0.31	0.176		<0.2	2.73	48	<10	360	0.6	<2	0.39	<0.5	16	77	36
ZZ68774		0.32	0.025		<0.2	2.38	37	<10	310	0.6	<2	0.42	<0.5	15	70	33
ZZ68775		0.21	0.011		0.2	3.77	59	<10	410	1.0	<2	0.42	<0.5	26	96	54
ZZ68776		0.24	0.004		<0.2	1.35	25	<10	150	<0.5	<2	0.30	<0.5	9	36	23
ZZ68777		0.27	0.003		<0.2	2.88	81	<10	250	0.7	<2	0.32	<0.5	22	78	38
ZZ68778		0.27	0.012		0.2	3.14	77	<10	270	0.9	<2	0.34	<0.5	20	85	47
ZZ68779		0.28	0.022		0.2	3.10	233	<10	350	0.9	<2	0.36	<0.5	22	93	44
ZZ68780		0.27	0.007		0.2	2.83	72	<10	340	0.8	<2	0.37	<0.5	20	92	41
ZZ68781		0.27	0.002		0.2	3.03	46	<10	360	0.8	<2	0.36	<0.5	23	97	50
ZZ68782		0.23	0.048		<0.2	2.64	71	<10	300	0.7	<2	0.46	<0.5	19	78	41
ZZ68783		0.27	0.014		<0.2	2.86	64	<10	330	0.7	<2	0.38	<0.5	18	83	42
ZZ68784		0.26	0.011		0.2	3.18	42	<10	410	0.7	<2	0.45	<0.5	20	94	38
ZZ68785		0.26	0.004		<0.2	2.81	55	<10	350	0.6	<2	0.31	<0.5	15	80	30
ZZ68786		0.28	0.013		0.2	2.83	87	<10	380	0.7	<2	0.43	<0.5	17	79	35
ZZ68787		0.43	0.004		0.2	3.04	17	<10	370	0.7	<2	0.31	<0.5	14	85	40
ZZ68788		0.38	0.017		<0.2	3.18	43	<10	370	0.9	<2	0.32	<0.5	14	85	40
ZZ68789		0.36	0.025		0.2	2.42	32	<10	280	0.6	2	0.34	<0.5	13	68	33
ZZ68790		0.32	0.021		0.2	3.12	40	<10	370	0.9	<2	0.35	<0.5	17	92	45
ZZ68791		0.28	0.010		<0.2	2.78	50	<10	310	0.8	<2	0.30	<0.5	14	75	40
ZZ68792		0.33	0.014		<0.2	2.59	147	<10	310	0.7	<2	0.32	<0.5	15	71	36
ZZ68793		0.37	0.067		0.7	2.88	90	<10	420	0.8	<2	0.41	<0.5	15	79	43
ZZ68794		0.39	0.012		<0.2	2.83	62	<10	310	0.7	<2	0.32	<0.5	13	76	36
ZZ68795		0.26	0.015		<0.2	2.66	137	<10	280	0.8	<2	0.27	<0.5	16	75	39
ZZ68796		0.30	0.738	0.049	<0.2	2.85	113	<10	310	0.8	<2	0.25	<0.5	15	83	41
ZZ68797		0.32	0.020		<0.2	2.49	40	<10	250	0.6	<2	0.29	<0.5	12	69	33
ZZ68798		0.31	0.012		0.3	3.16	59	<10	310	1.0	<2	0.31	<0.5	18	80	46
ZZ68799		0.21	0.006		<0.2	2.40	44	<10	240	0.7	2	0.22	<0.5	13	70	36
ZZ68800		0.27	0.008		<0.2	2.50	41	<10	210	0.8	<2	0.21	<0.5	13	67	35
ZZ68801		0.28	0.028		0.2	2.60	84	<10	270	0.6	<2	0.32	<0.5	16	79	44
ZZ68802		0.26	0.144		<0.2	2.71	31	<10	250	0.7	<2	0.39	<0.5	16	73	41
ZZ68803		0.29	0.005		<0.2	2.03	38	<10	230	0.5	<2	0.38	<0.5	15	55	38
ZZ68804		0.26	0.005		<0.2	3.07	85	<10	350	0.7	<2	0.58	<0.5	20	79	50
ZZ68805		0.21	0.013		0.2	2.65	64	<10	290	0.7	<2	0.52	<0.5	18	76	44
ZZ68806		0.25	0.004		<0.2	2.38	30	<10	230	0.6	<2	0.31	<0.5	16	86	43
ZZ68807		0.26	0.002		<0.2	2.43	28	<10	290	0.6	<2	0.33	<0.5	14	66	35
ZZ68808		0.24	0.006		<0.2	3.00	94	<10	400	0.7	<2	0.34	<0.5	16	91	37
ZZ68809		0.54	0.025		<0.2	2.72	102	<10	290	0.7	<2	0.24	<0.5	12	80	32
ZZ68810		0.39	0.005		<0.2	3.06	43	<10	360	0.7	<2	0.39	<0.5	17	76	36
ZZ68811		0.33	0.006		<0.2	3.68	84	<10	430	0.9	<2	0.42	<0.5	21	109	58
ZZ68812		0.31	0.012		<0.2	2.53	56	<10	270	0.6	<2	0.31	<0.5	16	68	33



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Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109755

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	
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68773		3.46	10	1	0.59	10	1.03	434	<1	0.03	38	1110	4	0.02	<2	9
ZZ68774		3.19	10	<1	0.46	10	0.92	429	1	0.03	37	1120	3	0.02	<2	8
ZZ68775		4.84	10	<1	0.35	10	1.37	648	1	0.02	57	850	7	0.06	<2	9
ZZ68776		2.29	10	<1	0.11	<10	0.50	275	<1	0.02	19	720	2	0.04	<2	3
ZZ68777		4.06	10	<1	0.24	10	1.04	596	1	0.02	40	590	6	0.03	<2	8
ZZ68778		4.22	10	<1	0.22	10	1.18	698	1	0.02	45	860	7	0.07	2	7
ZZ68779		4.31	10	<1	0.39	10	1.20	616	1	0.02	47	820	6	0.06	<2	10
ZZ68780		4.14	10	<1	0.50	10	1.20	486	<1	0.03	43	810	11	0.05	<2	10
ZZ68781		4.28	10	<1	0.43	10	1.21	537	1	0.02	49	920	5	0.05	<2	9
ZZ68782		3.86	10	1	0.41	10	1.04	520	1	0.02	41	870	2	0.04	<2	8
ZZ68783		3.78	10	<1	0.48	10	1.07	585	<1	0.02	42	860	4	0.05	<2	8
ZZ68784		4.07	10	1	0.58	10	1.20	675	1	0.02	46	860	5	0.06	<2	10
ZZ68785		3.61	10	<1	0.57	10	1.10	408	<1	0.02	38	870	3	0.04	<2	8
ZZ68786		3.70	10	1	0.52	10	1.04	674	<1	0.02	41	900	8	0.05	<2	8
ZZ68787		3.12	10	<1	0.58	10	1.09	273	<1	0.02	40	970	6	0.02	2	9
ZZ68788		3.95	10	<1	0.49	10	1.01	474	1	0.02	44	860	3	0.03	<2	9
ZZ68789		3.20	10	<1	0.46	10	0.93	436	1	0.02	36	860	7	0.03	<2	7
ZZ68790		4.13	10	<1	0.64	10	1.18	624	1	0.02	54	940	5	0.02	<2	10
ZZ68791		3.83	10	<1	0.48	10	0.95	462	1	0.02	42	880	6	0.05	<2	8
ZZ68792		3.61	10	<1	0.48	10	0.87	670	1	0.02	42	770	7	0.03	<2	8
ZZ68793		3.87	10	1	0.65	10	1.01	497	1	0.02	46	1070	4	0.02	<2	9
ZZ68794		3.61	10	<1	0.57	10	0.99	421	<1	0.02	41	790	7	0.03	<2	9
ZZ68795		3.86	10	<1	0.51	10	0.95	513	1	0.01	45	630	5	0.02	<2	8
ZZ68796		3.92	10	<1	0.57	<10	1.00	574	<1	0.02	46	590	6	0.02	<2	9
ZZ68797		3.31	10	<1	0.51	10	0.89	366	1	0.02	38	740	4	0.03	<2	8
ZZ68798		4.23	10	1	0.51	10	1.02	580	1	0.02	46	840	7	0.06	3	8
ZZ68799		3.60	10	<1	0.52	10	0.90	387	1	0.02	39	650	3	0.05	<2	7
ZZ68800		3.35	10	<1	0.51	10	0.83	368	1	0.01	38	670	7	0.07	<2	7
ZZ68801		4.02	10	<1	0.56	10	1.06	509	1	0.02	49	570	8	0.03	<2	8
ZZ68802		3.75	10	<1	0.40	10	1.03	447	1	0.04	45	750	5	0.05	<2	7
ZZ68803		3.65	10	<1	0.30	10	0.79	442	1	0.02	32	750	5	0.06	<2	6
ZZ68804		4.40	10	<1	0.66	10	1.26	557	1	0.05	48	1170	6	0.03	<2	10
ZZ68805		3.94	10	<1	0.40	10	1.10	567	1	0.03	41	950	9	0.06	<2	8
ZZ68806		3.86	10	1	0.22	10	0.99	359	1	0.02	39	900	6	0.07	<2	6
ZZ68807		3.51	10	<1	0.50	10	0.91	525	1	0.02	40	850	7	0.02	<2	7
ZZ68808		3.74	10	<1	0.72	10	1.14	507	1	0.02	42	820	7	0.05	<2	9
ZZ68809		3.28	10	1	0.62	10	1.00	305	<1	0.01	39	880	4	0.02	<2	9
ZZ68810		3.51	10	<1	0.63	10	1.06	1035	1	0.03	39	1000	7	0.05	<2	9
ZZ68811		5.19	10	<1	1.04	10	1.53	644	1	0.03	58	910	6	0.02	<2	13
ZZ68812		3.54	10	<1	0.45	10	0.90	528	1	0.02	37	750	4	0.04	<2	7



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CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ68773		29	<20	0.24	<10	<10	109	<10
ZZ68774		31	<20	0.21	<10	<10	101	<10
ZZ68775		39	<20	0.25	<10	<10	142	<10
ZZ68776		27	<20	0.12	<10	<10	72	<10
ZZ68777		32	<20	0.24	<10	<10	120	<10
ZZ68778		32	<20	0.20	<10	<10	125	<10
ZZ68779		36	<20	0.27	<10	<10	137	<10
ZZ68780		31	<20	0.29	<10	<10	134	<10
ZZ68781		32	<20	0.27	<10	<10	143	<10
ZZ68782		40	<20	0.25	<10	<10	123	<10
ZZ68783		37	<20	0.23	<10	<10	117	<10
ZZ68784		42	<20	0.26	<10	<10	130	<10
ZZ68785		27	<20	0.24	<10	<10	110	<10
ZZ68786		40	<20	0.23	<10	<10	114	<10
ZZ68787		23	<20	0.25	<10	<10	110	<10
ZZ68788		32	<20	0.24	<10	<10	121	<10
ZZ68789		28	<20	0.21	<10	<10	97	<10
ZZ68790		34	<20	0.26	<10	<10	126	<10
ZZ68791		27	<20	0.23	<10	<10	113	<10
ZZ68792		27	<20	0.21	<10	<10	106	<10
ZZ68793		42	<20	0.25	<10	<10	118	<10
ZZ68794		29	<20	0.23	<10	<10	110	<10
ZZ68795		22	<20	0.23	<10	<10	110	<10
ZZ68796		27	<20	0.25	<10	<10	120	<10
ZZ68797		25	<20	0.23	<10	<10	103	<10
ZZ68798		33	<20	0.23	<10	<10	123	<10
ZZ68799		21	<20	0.22	<10	<10	106	<10
ZZ68800		22	<20	0.21	<10	<10	98	<10
ZZ68801		37	<20	0.21	<10	<10	118	<10
ZZ68802		40	<20	0.20	10	<10	112	<10
ZZ68803		35	<20	0.20	<10	<10	115	<10
ZZ68804		48	<20	0.29	10	<10	131	<10
ZZ68805		47	<20	0.22	<10	<10	114	<10
ZZ68806		35	<20	0.18	<10	<10	103	<10
ZZ68807		26	<20	0.22	<10	<10	102	<10
ZZ68808		31	<20	0.25	<10	<10	109	<10
ZZ68809		17	<20	0.22	<10	<10	103	<10
ZZ68810		34	<20	0.24	<10	<10	110	<10
ZZ68811		39	<20	0.43	10	<10	169	<10
ZZ68812		30	<20	0.20	<10	<10	103	<10



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CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	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
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68813		0.24	0.008		0.2	2.75	57	<10	310	0.7	2	0.38	<0.5	20	68	43
ZZ68814		0.37	0.015		<0.2	2.54	52	<10	290	0.7	<2	0.40	<0.5	20	70	41
ZZ68815		0.40	0.008		0.2	3.14	86	<10	300	0.6	<2	0.43	<0.5	18	75	40
ZZ68816		0.27	0.019		0.2	3.00	54	<10	280	0.7	<2	0.41	<0.5	19	105	39
ZZ68817		0.34	0.013		0.2	2.58	37	<10	300	0.6	<2	0.38	<0.5	14	81	36
ZZ68818		0.30	0.011		<0.2	2.31	37	<10	270	0.6	<2	0.33	<0.5	14	68	35
ZZ68819		0.26	0.010		0.2	3.95	150	<10	620	1.1	<2	0.42	<0.5	18	102	47
ZZ68820		0.23	0.001		0.2	3.04	51	<10	350	0.8	<2	0.35	<0.5	20	80	33
ZZ68821		0.23	0.007		0.3	2.69	36	<10	250	1.0	<2	0.52	<0.5	15	66	41
ZZ68822		0.26	0.001		<0.2	2.19	24	<10	260	0.7	<2	0.43	<0.5	13	50	34
ZZ68823		0.36	0.012		<0.2	3.31	87	<10	380	0.8	<2	0.29	<0.5	14	82	37
ZZ68824		0.42	0.009		<0.2	2.98	51	<10	350	0.8	<2	0.31	<0.5	17	71	38
ZZ68825		0.38	0.014		0.2	3.18	42	<10	350	0.7	<2	0.34	<0.5	16	74	34
ZZ68826		0.29	0.005		<0.2	2.24	28	<10	220	0.6	<2	0.23	<0.5	15	65	31
ZZ68827		0.23	0.010		0.3	3.19	40	<10	290	1.0	<2	0.38	<0.5	11	74	44
ZZ68828		0.44	0.011		0.2	3.03	81	<10	320	0.7	<2	0.37	<0.5	13	102	32
ZZ68829		0.32	0.017		<0.2	3.21	77	<10	490	0.7	<2	0.40	<0.5	17	79	34
ZZ68830		0.20	0.002		<0.2	2.76	31	<10	240	1.0	<2	0.32	<0.5	17	66	37
ZZ68831		0.33	0.005		<0.2	2.98	21	<10	330	0.7	<2	0.34	<0.5	15	104	31
ZZ68832		0.29	0.034		0.2	2.76	57	<10	270	0.8	<2	0.37	<0.5	15	79	35
ZZ68833		0.41	0.010		<0.2	2.90	57	<10	280	0.9	<2	0.29	<0.5	18	80	39
ZZ68834		0.32	0.014		<0.2	2.79	23	<10	300	0.9	<2	0.31	<0.5	17	81	40
ZZ68835		0.40	0.003		<0.2	3.29	26	<10	390	1.0	<2	0.21	<0.5	15	85	36
ZZ68836		0.30	0.016		0.2	3.02	38	<10	340	0.8	<2	0.30	<0.5	15	84	36
ZZ68837		0.23	0.006		0.3	2.65	69	<10	270	0.9	<2	0.41	<0.5	21	71	43
ZZ68838		0.34	0.003		<0.2	3.21	43	<10	380	0.8	<2	0.31	<0.5	13	138	37
ZZ68839		0.36	0.014		<0.2	3.34	38	<10	360	0.9	<2	0.27	<0.5	18	113	33
ZZ68840		0.33	0.006		<0.2	3.38	25	<10	370	1.1	<2	0.26	<0.5	16	92	39
ZZ68841		0.34	0.014		<0.2	2.94	30	<10	300	0.9	<2	0.32	<0.5	15	81	42
ZZ68842		0.20	0.006		<0.2	2.85	23	<10	290	0.8	<2	0.41	<0.5	19	76	46
ZZ68843		0.27	0.006		<0.2	2.71	19	<10	250	0.8	<2	0.36	<0.5	18	70	47
ZZ68844		0.32	0.008		<0.2	3.11	22	<10	300	1.0	<2	0.51	<0.5	20	74	52
ZZ68845		0.26	0.016		0.3	3.48	66	<10	340	0.9	<2	0.26	<0.5	19	106	39
ZZ68846		0.37	0.015		<0.2	3.76	36	<10	400	1.1	<2	0.24	<0.5	15	84	45
ZZ68847		0.26	0.008		<0.2	2.67	21	<10	250	0.9	<2	0.31	<0.5	20	70	42
ZZ68848		0.39	0.007		<0.2	2.95	26	<10	280	0.9	<2	0.25	<0.5	13	75	37
ZZ68849		0.34	0.011		<0.2	2.96	28	<10	290	0.9	<2	0.24	<0.5	16	77	42
ZZ68850		0.31	0.008		<0.2	2.85	32	<10	270	0.9	<2	0.25	<0.5	18	74	40
ZZ68851		0.30	0.008		<0.2	2.50	54	<10	280	0.7	<2	0.38	<0.5	16	75	37
ZZ68852		0.26	0.010		0.2	2.84	79	<10	320	1.0	<2	0.55	<0.5	23	70	54



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CERTIFICATE OF ANALYSIS WH14109755

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	
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68813		4.12	10	1	0.28	10	1.02	585	1	0.02	39	1020	6	0.09	<2	6
ZZ68814		3.92	10	<1	0.48	10	1.02	652	1	0.02	46	1000	8	0.02	<2	8
ZZ68815		4.09	10	<1	0.61	10	1.19	472	<1	0.04	42	1040	6	0.03	<2	9
ZZ68816		4.03	10	<1	0.46	10	1.18	623	1	0.02	45	930	9	0.07	<2	8
ZZ68817		3.58	10	<1	0.50	10	1.02	438	1	0.03	39	600	6	0.04	<2	8
ZZ68818		3.33	10	<1	0.57	10	0.92	399	<1	0.02	39	770	5	0.01	<2	8
ZZ68819		4.38	10	<1	0.95	10	1.33	508	<1	0.03	50	1150	8	0.05	<2	11
ZZ68820		3.91	10	<1	0.55	10	1.01	897	<1	0.02	40	1000	7	0.09	<2	9
ZZ68821		3.46	10	<1	0.31	10	0.81	689	<1	0.01	38	1170	5	0.10	<2	6
ZZ68822		2.98	10	<1	0.18	10	0.66	565	<1	0.01	28	990	5	0.07	<2	5
ZZ68823		3.85	10	<1	0.73	10	1.13	271	<1	0.02	39	980	5	0.03	<2	10
ZZ68824		3.78	10	<1	0.71	10	1.13	481	<1	0.03	39	740	5	0.02	2	9
ZZ68825		3.69	10	<1	0.73	10	1.25	301	<1	0.03	34	890	5	0.04	2	8
ZZ68826		3.51	10	<1	0.41	10	0.86	517	<1	0.01	36	450	6	0.02	<2	7
ZZ68827		3.61	10	<1	0.25	10	0.90	308	<1	0.02	40	1250	8	0.13	<2	7
ZZ68828		3.48	10	<1	0.54	10	1.21	339	<1	0.02	35	1090	6	0.04	<2	8
ZZ68829		3.81	10	<1	0.99	<10	1.25	408	<1	0.03	35	1100	5	0.01	<2	11
ZZ68830		3.59	10	<1	0.25	10	0.80	714	<1	0.01	36	1150	5	0.09	<2	6
ZZ68831		3.60	10	<1	0.64	10	1.26	423	<1	0.02	51	890	6	0.01	<2	10
ZZ68832		3.68	10	<1	0.49	10	0.94	741	<1	0.01	42	950	6	0.05	<2	9
ZZ68833		3.86	10	<1	0.47	10	0.97	656	<1	0.01	44	870	8	0.04	<2	9
ZZ68834		3.75	10	<1	0.65	<10	0.94	583	<1	0.01	44	1000	4	0.03	<2	9
ZZ68835		3.84	10	<1	0.76	<10	0.95	442	<1	0.01	44	780	6	0.03	<2	11
ZZ68836		3.65	10	<1	0.61	10	0.94	504	<1	0.01	43	960	6	0.05	<2	10
ZZ68837		3.74	10	<1	0.30	10	0.82	1215	1	0.01	37	1420	6	0.14	<2	6
ZZ68838		3.74	10	<1	0.72	10	1.31	400	<1	0.02	44	990	3	0.04	<2	10
ZZ68839		3.91	10	<1	0.65	10	1.17	686	<1	0.02	49	810	6	0.03	<2	10
ZZ68840		4.14	10	<1	0.85	10	1.04	526	<1	0.01	51	880	5	0.02	<2	12
ZZ68841		3.78	10	<1	0.64	10	0.97	436	<1	0.02	45	990	6	0.02	<2	10
ZZ68842		4.20	10	<1	0.33	10	0.99	755	<1	0.02	47	960	9	0.08	<2	8
ZZ68843		3.56	10	<1	0.43	10	0.93	468	1	0.02	44	1070	6	0.04	<2	8
ZZ68844		4.17	10	<1	0.67	10	1.15	659	<1	0.04	52	1150	6	0.01	<2	11
ZZ68845		4.24	10	<1	0.70	10	1.35	709	<1	0.01	60	760	7	0.02	<2	11
ZZ68846		4.14	10	<1	0.89	10	1.18	363	<1	0.02	46	850	5	0.03	<2	11
ZZ68847		3.98	10	<1	0.43	10	0.84	888	1	0.01	42	1100	8	0.05	<2	7
ZZ68848		3.67	10	<1	0.59	10	0.90	421	<1	0.01	42	900	5	0.02	2	9
ZZ68849		3.93	10	<1	0.54	10	0.93	637	<1	0.01	45	780	7	0.04	<2	9
ZZ68850		3.70	10	<1	0.50	10	0.87	804	<1	0.01	41	910	6	0.04	<2	9
ZZ68851		3.61	10	<1	0.59	10	0.95	475	<1	0.02	43	860	4	0.02	<2	9
ZZ68852		3.99	10	<1	0.22	10	0.89	909	1	0.02	43	1210	8	0.11	<2	6



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CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ68813		39	<20	0.21	<10	<10	113	<10
ZZ68814		42	<20	0.23	<10	<10	110	<10
ZZ68815		36	<20	0.28	10	<10	114	<10
ZZ68816		43	<20	0.21	<10	<10	113	<10
ZZ68817		41	<20	0.24	<10	<10	108	<10
ZZ68818		26	<20	0.23	<10	<10	101	<10
ZZ68819		42	<20	0.28	<10	<10	135	<10
ZZ68820		35	<20	0.22	<10	<10	116	<10
ZZ68821		52	<20	0.15	<10	<10	98	<10
ZZ68822		41	<20	0.14	<10	<10	83	<10
ZZ68823		24	<20	0.27	<10	<10	118	<10
ZZ68824		29	<20	0.27	<10	<10	112	<10
ZZ68825		31	<20	0.30	<10	<10	109	<10
ZZ68826		18	<20	0.23	<10	<10	104	<10
ZZ68827		40	<20	0.18	<10	<10	104	<10
ZZ68828		32	<20	0.21	<10	<10	96	<10
ZZ68829		41	<20	0.28	<10	<10	116	<10
ZZ68830		33	<20	0.15	<10	<10	100	<10
ZZ68831		27	<20	0.25	<10	<10	113	<10
ZZ68832		33	<20	0.20	<10	<10	112	<10
ZZ68833		27	<20	0.21	<10	<10	113	<10
ZZ68834		28	<20	0.24	<10	<10	118	<10
ZZ68835		21	<20	0.26	<10	<10	125	<10
ZZ68836		26	<20	0.23	<10	<10	115	<10
ZZ68837		42	<20	0.14	<10	<10	100	<10
ZZ68838		31	<20	0.25	<10	<10	120	<10
ZZ68839		29	<20	0.24	<10	<10	118	<10
ZZ68840		25	<20	0.29	<10	<10	133	<10
ZZ68841		30	<20	0.25	<10	<10	117	<10
ZZ68842		43	<20	0.19	<10	<10	117	<10
ZZ68843		32	<20	0.22	<10	<10	110	<10
ZZ68844		48	<20	0.27	<10	<10	116	<10
ZZ68845		25	<20	0.24	<10	<10	123	<10
ZZ68846		27	<20	0.29	<10	<10	123	<10
ZZ68847		31	<20	0.19	<10	<10	111	<10
ZZ68848		21	<20	0.24	<10	<10	112	<10
ZZ68849		23	<20	0.24	<10	<10	117	<10
ZZ68850		21	<20	0.22	<10	<10	110	<10
ZZ68851		31	<20	0.24	<10	<10	114	<10
ZZ68852		55	<20	0.15	<10	<10	110	<10



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	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
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68853		0.33	0.014		<0.2	2.71	78	<10	300	0.8	<2	0.38	<0.5	17	75	42
ZZ68854		0.34	0.010		<0.2	3.39	53	<10	380	1.0	<2	0.40	<0.5	24	90	55
ZZ68855		0.33	0.014		<0.2	2.94	66	<10	280	0.7	2	0.26	<0.5	18	82	42
ZZ68856		0.33	0.014		0.3	3.05	81	<10	270	1.0	<2	0.43	<0.5	22	81	52
ZZ68857		0.39	0.049		<0.2	2.58	141	<10	250	0.7	<2	0.34	<0.5	19	76	42
ZZ68858		0.37	0.012		<0.2	2.64	47	<10	280	0.7	<2	0.42	<0.5	18	67	44
ZZ68859		0.38	0.010		<0.2	2.23	35	<10	240	0.5	<2	0.36	<0.5	15	65	30
ZZ68860		0.35	0.043		<0.2	2.02	40	<10	240	0.5	<2	0.45	<0.5	14	57	30
ZZ68861		0.42	0.028		<0.2	2.57	47	<10	230	0.7	<2	0.40	<0.5	17	67	44
ZZ68862		0.39	0.035		<0.2	2.84	36	<10	300	0.7	<2	0.38	<0.5	17	75	42
ZZ68863		0.31	0.009		<0.2	3.03	94	<10	350	0.9	<2	0.47	<0.5	15	83	39
ZZ68864		0.38	0.020		<0.2	2.49	149	<10	270	0.6	<2	0.36	<0.5	15	69	32
ZZ68865		0.39	0.039		<0.2	3.27	218	<10	330	0.9	4	0.39	<0.5	16	80	43
ZZ68866		0.45	0.024		<0.2	3.45	130	<10	440	0.9	2	0.44	<0.5	18	92	49
ZZ68867		0.45	0.015		<0.2	3.04	62	<10	370	0.8	<2	0.37	<0.5	16	85	41
ZZ68868		0.41	0.010		<0.2	3.37	46	<10	470	1.0	2	0.34	<0.5	19	94	46
ZZ68869		0.48	0.016		<0.2	3.13	45	<10	410	0.8	<2	0.43	<0.5	15	84	35
ZZ68870		0.30	0.011		<0.2	2.02	65	<10	320	0.5	2	0.47	<0.5	14	56	32
ZZ68871		0.40	0.020		<0.2	2.22	117	<10	230	<0.5	2	0.33	<0.5	13	59	34
ZZ68872		0.33	0.010		<0.2	2.54	48	<10	300	0.5	4	0.46	<0.5	17	76	33
ZZ68873		0.54	0.019		<0.2	2.54	61	<10	370	<0.5	2	0.49	<0.5	17	67	36
ZZ68874		0.36	0.007		<0.2	2.62	43	<10	320	0.6	<2	0.49	<0.5	17	71	38
ZZ68875		0.36	0.008		<0.2	3.23	47	<10	390	0.7	2	0.48	<0.5	23	86	40
ZZ68876		0.59	0.014		<0.2	2.44	44	<10	260	0.5	2	0.33	<0.5	18	65	26
ZZ68877		0.44	0.011		<0.2	2.89	75	<10	290	0.7	<2	0.41	<0.5	21	71	47
ZZ68878		0.51	0.010		<0.2	2.55	24	<10	240	0.7	<2	0.28	<0.5	14	66	32
ZZ68879		0.45	0.006		0.2	3.39	28	<10	400	1.2	<2	0.29	<0.5	17	93	48
ZZ68880		0.28	0.014		<0.2	3.17	49	<10	230	1.1	<2	0.36	<0.5	17	75	39
ZZ68881		0.29	0.011		0.2	2.83	59	<10	230	1.0	3	0.42	<0.5	18	64	42
ZZ68882		0.38	0.005		<0.2	2.05	13	<10	160	0.6	2	0.30	<0.5	13	54	34
ZZ68883		0.51	0.004		<0.2	2.45	9	<10	220	0.7	2	0.28	<0.5	14	59	35
ZZ68884		0.47	0.010		<0.2	2.49	44	<10	190	0.6	2	0.26	<0.5	15	70	34
ZZ68885		0.30	0.012		<0.2	3.10	49	<10	310	0.9	2	0.39	<0.5	21	93	47
ZZ68886		0.43	0.030		0.3	3.14	55	<10	260	0.9	<2	0.29	<0.5	15	79	42
ZZ68887		0.45	0.007		<0.2	3.01	24	<10	320	1.0	2	0.24	<0.5	17	79	40
ZZ68888		0.49	0.007		<0.2	2.72	20	<10	260	0.8	<2	0.29	<0.5	14	70	34
ZZ68889		0.54	0.072		<0.2	3.28	43	<10	310	0.9	<2	0.24	<0.5	14	80	40
ZZ68890		0.38	0.008		<0.2	2.94	34	<10	250	0.8	2	0.31	<0.5	18	72	39
ZZ68891		0.57	0.028		<0.2	2.84	32	<10	240	0.8	<2	0.23	<0.5	12	71	39
ZZ68892		0.32	0.010		<0.2	2.73	28	<10	240	0.8	<2	0.28	<0.5	12	67	35



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C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
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CERTIFICATE OF ANALYSIS WH14109755

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
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
ZZ68853		3.83	10	<1	0.62	10	1.06	491	<1	0.02	44	880	5	0.03	<2
ZZ68854		4.74	10	<1	0.78	10	1.32	673	<1	0.03	54	810	5	0.04	<2
ZZ68855		4.06	10	<1	0.67	10	1.12	470	<1	0.02	44	630	3	0.05	<2
ZZ68856		4.36	10	<1	0.43	10	1.11	694	1	0.02	48	900	6	0.07	<2
ZZ68857		3.80	10	<1	0.45	10	0.96	506	<1	0.01	44	900	7	0.01	<2
ZZ68858		3.61	10	<1	0.37	10	0.98	451	<1	0.02	38	830	5	0.07	<2
ZZ68859		3.22	10	<1	0.44	<10	0.91	351	<1	0.03	33	650	2	0.04	<2
ZZ68860		3.05	10	<1	0.38	10	0.83	417	<1	0.02	28	1000	3	0.03	<2
ZZ68861		3.86	10	<1	0.31	10	0.99	544	<1	0.02	38	960	6	0.06	<2
ZZ68862		3.88	10	<1	0.48	10	1.02	520	<1	0.02	43	940	4	0.02	<2
ZZ68863		3.83	10	<1	0.48	10	1.04	496	<1	0.02	38	1200	4	0.10	<2
ZZ68864		3.59	10	<1	0.51	10	0.97	398	<1	0.02	32	870	5	0.03	<2
ZZ68865		4.06	10	<1	0.31	10	1.12	524	<1	0.02	43	720	5	0.05	<2
ZZ68866		4.72	10	<1	0.70	10	1.24	595	<1	0.02	50	1040	5	0.04	<2
ZZ68867		4.06	10	<1	0.63	<10	1.08	499	<1	0.02	43	1010	4	0.03	<2
ZZ68868		4.40	10	<1	0.74	10	1.18	600	<1	0.02	46	860	3	0.02	<2
ZZ68869		3.92	10	<1	0.56	10	1.08	485	<1	0.02	38	890	3	0.03	<2
ZZ68870		2.80	10	<1	0.20	10	0.78	538	<1	0.02	28	780	2	0.05	<2
ZZ68871		3.04	10	<1	0.26	10	0.85	319	<1	0.02	26	800	3	0.04	<2
ZZ68872		3.32	10	<1	0.26	10	1.07	374	<1	0.02	32	840	4	0.04	<2
ZZ68873		3.57	10	<1	0.46	10	1.09	416	<1	0.02	34	1270	2	0.01	<2
ZZ68874		3.58	10	<1	0.30	10	1.02	453	<1	0.02	37	920	4	0.04	<2
ZZ68875		4.32	10	<1	0.36	10	1.25	921	<1	0.02	45	940	5	0.06	<2
ZZ68876		3.54	10	<1	0.35	<10	1.00	338	<1	0.02	32	830	3	0.01	<2
ZZ68877		3.58	10	<1	0.25	10	0.99	1245	1	0.02	38	1050	6	0.08	<2
ZZ68878		3.37	10	<1	0.51	10	0.83	447	<1	0.01	33	850	3	0.01	<2
ZZ68879		4.55	10	<1	0.96	10	1.04	660	<1	0.02	51	990	3	0.02	<2
ZZ68880		4.68	10	<1	0.28	10	0.90	953	<1	0.01	39	1330	8	0.13	<2
ZZ68881		3.96	10	<1	0.24	10	0.81	944	1	0.02	37	1430	7	0.13	<2
ZZ68882		3.04	10	<1	0.41	10	0.73	473	<1	0.01	30	990	3	0.03	<2
ZZ68883		3.33	10	<1	0.50	10	0.82	477	<1	0.01	34	720	2	0.01	<2
ZZ68884		3.80	10	<1	0.29	10	1.18	448	<1	0.01	47	670	6	0.03	<2
ZZ68885		4.26	10	<1	0.56	10	1.36	733	<1	0.02	55	990	5	0.04	<2
ZZ68886		3.93	10	<1	0.53	10	0.99	444	<1	0.01	41	880	6	0.04	<2
ZZ68887		4.08	10	<1	0.62	10	0.97	674	<1	0.01	42	710	5	0.03	<2
ZZ68888		3.67	10	<1	0.54	10	0.89	471	<1	0.02	36	830	3	0.01	<2
ZZ68889		3.96	10	<1	0.65	10	0.96	335	<1	0.02	39	860	4	0.02	<2
ZZ68890		3.97	10	<1	0.46	10	0.94	891	1	0.01	38	890	7	0.07	<2
ZZ68891		3.34	10	<1	0.54	10	0.85	270	<1	0.01	36	850	5	0.02	<2
ZZ68892		3.27	10	<1	0.31	10	0.87	388	<1	0.01	35	960	6	0.09	<2



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Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ68853		35	<20	0.24	<10	<10	112	<10
ZZ68854		38	<20	0.32	<10	<10	139	<10
ZZ68855		26	<20	0.28	<10	<10	127	<10
ZZ68856		48	<20	0.20	<10	<10	121	<10
ZZ68857		28	<20	0.22	<10	<10	112	<10
ZZ68858		42	<20	0.19	<10	<10	107	<10
ZZ68859		32	<20	0.20	<10	<10	98	<10
ZZ68860		31	<20	0.19	<10	<10	91	<10
ZZ68861		35	<20	0.19	<10	<10	107	<10
ZZ68862		29	<20	0.23	<10	<10	110	<10
ZZ68863		46	<20	0.18	<10	<10	107	<10
ZZ68864		30	<20	0.23	<10	<10	108	<10
ZZ68865		45	<20	0.20	<10	<10	117	<10
ZZ68866		44	<20	0.26	<10	<10	140	<10
ZZ68867		31	<20	0.25	<10	<10	122	<10
ZZ68868		35	<20	0.29	<10	<10	137	<10
ZZ68869		44	<20	0.26	<10	<10	123	<10
ZZ68870		44	<20	0.16	<10	<10	85	<10
ZZ68871		29	<20	0.18	<10	<10	90	<10
ZZ68872		40	<20	0.20	<10	<10	99	<10
ZZ68873		32	<20	0.26	<10	<10	95	<10
ZZ68874		41	<20	0.21	<10	<10	105	<10
ZZ68875		43	<20	0.24	<10	<10	122	<10
ZZ68876		22	<20	0.24	<10	<10	96	<10
ZZ68877		42	<20	0.17	<10	<10	109	<10
ZZ68878		21	<20	0.22	<10	<10	99	<10
ZZ68879		37	<20	0.32	<10	<10	139	<10
ZZ68880		38	<20	0.15	<10	<10	120	<10
ZZ68881		39	<20	0.13	<10	<10	99	<10
ZZ68882		22	<20	0.17	<10	<10	86	<10
ZZ68883		21	<20	0.23	<10	<10	95	<10
ZZ68884		27	<20	0.17	<10	<10	99	<10
ZZ68885		41	<20	0.23	<10	<10	115	<10
ZZ68886		31	<20	0.19	<10	<10	108	<10
ZZ68887		24	<20	0.24	<10	<10	114	<10
ZZ68888		23	<20	0.24	<10	<10	106	<10
ZZ68889		17	<20	0.26	<10	<10	113	<10
ZZ68890		31	<20	0.21	<10	<10	109	<10
ZZ68891		18	<20	0.23	<10	<10	103	<10
ZZ68892		28	<20	0.18	<10	<10	99	<10



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CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	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
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68893		0.53	0.114		<0.2	2.60	62	<10	260	0.7	<2	0.28	<0.5	14	70	37
ZZ68894		0.30	0.009		<0.2	2.42	33	<10	280	0.7	<2	0.32	<0.5	15	67	36
ZZ68895		0.40	0.012		0.2	3.03	22	<10	290	0.9	2	0.25	<0.5	15	76	38
ZZ68896		0.45	0.010		<0.2	2.71	14	<10	270	0.9	<2	0.28	<0.5	15	68	36
ZZ68897		0.35	0.008		<0.2	3.21	15	<10	320	1.1	<2	0.35	<0.5	20	82	44
ZZ68898		0.46	0.017		<0.2	2.88	21	<10	260	0.8	<2	0.30	<0.5	14	78	39
ZZ68899		0.44	0.008		<0.2	2.74	19	<10	250	0.8	<2	0.26	<0.5	16	70	38
ZZ68900		0.42	0.006		<0.2	2.89	18	<10	250	0.9	2	0.29	<0.5	19	74	47
ZZ68901		0.32	0.005		<0.2	2.41	12	<10	180	0.7	2	0.39	<0.5	16	56	41
ZZ68902		0.39	0.006		<0.2	2.55	17	<10	220	0.8	<2	0.32	<0.5	16	67	38
ZZ68903		0.62	0.010		<0.2	3.16	33	<10	240	1.0	2	0.29	<0.5	18	80	47
ZZ68904		0.59	0.017		<0.2	3.03	34	<10	320	0.8	2	0.43	<0.5	16	79	40
ZZ68905		0.52	0.089		<0.2	2.50	17	<10	250	0.7	3	0.32	<0.5	15	67	34
ZZ68906		0.52	0.008		<0.2	2.62	22	<10	280	0.7	<2	0.35	<0.5	16	70	38
ZZ68907		0.47	0.013		<0.2	3.11	19	<10	300	0.9	<2	0.28	<0.5	18	81	42
ZZ68908		0.48	0.007		<0.2	2.84	19	<10	260	0.8	2	0.24	<0.5	15	76	41
ZZ68909		0.51	0.006		<0.2	2.79	25	<10	240	0.8	<2	0.27	<0.5	16	67	40
ZZ68910		0.52	0.075		0.3	3.19	39	<10	290	0.9	<2	0.27	<0.5	23	76	47
ZZ68911		0.49	0.007		<0.2	3.20	22	<10	280	1.0	3	0.29	<0.5	17	76	45
ZZ68912		0.39	0.007		<0.2	2.97	11	<10	300	0.9	<2	0.27	<0.5	16	71	40
ZZ68913		0.53	0.017		<0.2	3.24	15	<10	310	1.0	3	0.21	<0.5	15	77	44
ZZ68914		0.35	0.008		<0.2	3.11	14	<10	270	1.0	<2	0.33	<0.5	17	70	36
ZZ68915		0.32	0.009		0.3	2.44	7	<10	180	0.7	<2	0.30	<0.5	11	65	35
ZZ68916		0.40	0.005		0.2	3.37	21	<10	300	1.1	4	0.40	<0.5	16	77	44
ZZ68917		0.28	0.007		<0.2	2.71	25	<10	250	0.9	2	0.45	<0.5	17	60	38
ZZ68918		0.40	0.010		<0.2	3.18	43	<10	270	1.0	<2	0.32	<0.5	15	78	46
ZZ68919		0.35	0.004		<0.2	2.68	14	<10	250	0.8	<2	0.23	<0.5	15	64	36
ZZ68920		0.51	0.005		<0.2	2.73	12	<10	260	0.9	<2	0.32	<0.5	15	72	39
ZZ68921		0.41	0.004		<0.2	2.89	22	<10	220	0.9	3	0.30	<0.5	17	65	45
ZZ68922		0.40	0.024		<0.2	2.74	14	<10	260	0.8	4	0.27	<0.5	17	66	40
ZZ68923		0.51	0.005		<0.2	3.03	16	<10	260	0.9	<2	0.26	<0.5	16	71	43
ZZ68924		0.38	0.009		<0.2	2.84	29	<10	300	0.7	<2	0.35	<0.5	16	71	35
ZZ68925		0.47	0.008		<0.2	3.22	34	<10	340	0.8	<2	0.42	<0.5	14	74	40
ZZ68926		0.51	0.147		0.5	2.97	527	<10	300	0.8	<2	0.42	<0.5	20	70	50
ZZ68927		0.82	0.068		15.8	3.04	512	<10	300	0.6	<2	0.35	<0.5	17	103	58
ZZ68928		0.56	0.167		<0.2	2.59	201	<10	310	0.6	<2	0.37	<0.5	14	74	37
ZZ68929		0.57	0.024		<0.2	3.09	41	<10	370	0.6	2	0.36	<0.5	16	89	37
ZZ68930		0.66	0.010		<0.2	2.83	23	<10	280	0.7	<2	0.29	<0.5	14	75	39
ZZ68931		0.33	0.173		<0.2	3.03	43	<10	300	0.9	<2	0.24	<0.5	16	79	41
ZZ68932		0.35	0.011		0.2	3.30	53	<10	310	1.1	<2	0.25	<0.5	18	80	47



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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	
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68893		3.61	10	<1	0.62	10	0.84	510	<1	0.01	36	830	3	0.02	<2	9
ZZ68894		3.72	10	<1	0.43	10	0.81	615	<1	0.01	36	750	5	0.06	<2	7
ZZ68895		3.76	10	<1	0.50	10	0.94	339	<1	0.01	38	880	4	0.06	<2	9
ZZ68896		3.59	10	<1	0.59	10	0.82	545	<1	0.01	35	880	3	0.02	<2	9
ZZ68897		4.23	10	<1	0.53	10	1.05	785	<1	0.01	43	1020	6	0.07	<2	9
ZZ68898		3.76	10	<1	0.53	10	1.03	394	<1	0.02	39	930	4	0.01	<2	10
ZZ68899		3.87	10	<1	0.51	10	0.91	589	<1	0.02	39	590	3	0.02	<2	9
ZZ68900		4.13	10	<1	0.52	10	0.95	743	<1	0.02	46	820	4	0.03	<2	9
ZZ68901		3.46	10	<1	0.36	10	0.84	535	<1	0.02	38	960	4	0.02	<2	7
ZZ68902		3.65	10	<1	0.44	10	0.84	519	<1	0.01	38	760	3	0.04	<2	8
ZZ68903		4.38	10	<1	0.66	10	1.04	637	<1	0.02	44	700	4	0.01	<2	10
ZZ68904		4.07	10	<1	0.60	10	1.05	566	<1	0.02	42	1170	6	0.03	<2	10
ZZ68905		3.54	10	<1	0.48	10	0.87	530	<1	0.01	35	880	3	0.02	<2	8
ZZ68906		3.77	10	<1	0.45	10	0.88	582	<1	0.02	38	910	4	0.05	<2	8
ZZ68907		3.90	10	<1	0.45	10	1.09	438	<1	0.01	43	1000	7	0.04	<2	9
ZZ68908		3.95	10	<1	0.48	10	0.96	466	<1	0.02	39	900	4	0.05	<2	9
ZZ68909		3.79	10	<1	0.43	10	0.86	537	<1	0.01	37	870	5	0.04	<2	8
ZZ68910		4.28	10	<1	0.45	10	0.98	906	<1	0.02	41	920	5	0.06	<2	9
ZZ68911		3.79	10	<1	0.51	10	0.98	357	<1	0.02	41	1080	4	0.03	<2	10
ZZ68912		3.96	10	<1	0.51	10	0.88	606	<1	0.02	40	890	5	0.06	<2	9
ZZ68913		4.09	10	<1	0.66	10	0.93	446	<1	0.01	42	800	4	0.03	<2	10
ZZ68914		4.05	10	<1	0.37	10	0.90	787	<1	0.02	39	1070	7	0.10	<2	8
ZZ68915		2.44	10	<1	0.18	10	0.77	407	<1	0.02	28	1290	6	0.20	<2	5
ZZ68916		4.50	10	<1	0.37	10	1.07	455	<1	0.02	46	1140	7	0.11	<2	8
ZZ68917		3.84	10	<1	0.15	10	0.83	928	1	0.01	35	1370	7	0.11	<2	5
ZZ68918		3.87	10	<1	0.40	10	1.08	405	<1	0.02	45	970	7	0.08	<2	8
ZZ68919		3.60	10	<1	0.46	10	0.84	516	<1	0.02	38	650	4	0.03	<2	8
ZZ68920		3.85	10	<1	0.59	10	0.89	550	<1	0.02	40	960	3	0.02	<2	10
ZZ68921		4.07	10	<1	0.32	10	0.92	614	1	0.02	40	1170	6	0.09	<2	7
ZZ68922		4.03	10	<1	0.36	10	0.88	598	1	0.01	39	810	4	0.07	<2	7
ZZ68923		4.04	10	<1	0.44	10	0.94	559	<1	0.02	40	840	4	0.05	<2	9
ZZ68924		3.73	10	<1	0.56	10	1.01	515	<1	0.03	35	830	3	0.03	<2	9
ZZ68925		3.86	10	<1	0.58	10	1.16	373	<1	0.03	37	1080	4	0.01	<2	10
ZZ68926		3.59	10	<1	0.34	10	1.03	1705	<1	0.02	37	1260	21	0.09	<2	6
ZZ68927		3.95	10	<1	0.76	10	1.31	301	<1	0.02	51	1060	4	0.02	<2	10
ZZ68928		3.22	10	<1	0.59	10	1.01	317	<1	0.02	36	1100	12	0.01	2	9
ZZ68929		3.61	10	<1	0.69	<10	1.26	291	<1	0.03	42	1090	4	0.02	<2	9
ZZ68930		3.34	10	<1	0.51	10	1.11	303	<1	0.02	37	900	4	0.05	<2	8
ZZ68931		3.81	10	<1	0.65	10	0.92	503	<1	0.02	46	820	5	0.02	<2	10
ZZ68932		4.22	10	<1	0.61	10	0.97	599	<1	0.02	47	830	6	0.04	<2	10



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W	Zn
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ68893		24	<20	0.24	<10	<10	106	<10	83
ZZ68894		30	<20	0.20	<10	<10	106	<10	81
ZZ68895		25	<20	0.22	<10	<10	113	<10	89
ZZ68896		25	<20	0.24	<10	<10	108	<10	83
ZZ68897		41	<20	0.23	<10	<10	118	<10	98
ZZ68898		23	<20	0.22	<10	<10	106	<10	91
ZZ68899		25	<20	0.23	<10	<10	109	<10	89
ZZ68900		34	<20	0.24	<10	<10	113	<10	101
ZZ68901		28	<20	0.19	<10	<10	91	<10	78
ZZ68902		26	<20	0.22	<10	<10	105	<10	83
ZZ68903		45	<20	0.26	<10	<10	121	<10	101
ZZ68904		39	<20	0.23	<10	<10	116	<10	100
ZZ68905		26	<20	0.22	<10	<10	102	<10	83
ZZ68906		30	<20	0.20	<10	<10	106	<10	87
ZZ68907		28	<20	0.23	<10	<10	114	<10	95
ZZ68908		22	<20	0.23	<10	<10	114	<10	93
ZZ68909		22	<20	0.21	<10	<10	106	<10	89
ZZ68910		27	<20	0.22	<10	<10	117	<10	97
ZZ68911		22	<20	0.25	<10	<10	118	<10	96
ZZ68912		25	<20	0.23	<10	<10	113	<10	91
ZZ68913		19	<20	0.26	<10	<10	118	<10	96
ZZ68914		32	<20	0.20	<10	<10	110	<10	89
ZZ68915		30	<20	0.13	<10	<10	68	<10	52
ZZ68916		37	<20	0.19	<10	<10	115	<10	109
ZZ68917		36	<20	0.12	<10	<10	93	<10	77
ZZ68918		32	<20	0.20	<10	<10	114	<10	105
ZZ68919		18	<20	0.22	<10	<10	101	<10	87
ZZ68920		26	<20	0.25	<10	<10	113	<10	96
ZZ68921		28	<20	0.18	<10	<10	103	<10	95
ZZ68922		27	<20	0.20	<10	<10	108	<10	88
ZZ68923		25	<20	0.24	<10	<10	114	<10	93
ZZ68924		30	<20	0.23	<10	<10	107	<10	85
ZZ68925		33	<20	0.24	<10	<10	110	<10	91
ZZ68926		45	<20	0.13	<10	<10	97	<10	99
ZZ68927		27	<20	0.27	<10	<10	124	<10	94
ZZ68928		28	<20	0.21	<10	<10	102	<10	90
ZZ68929		28	<20	0.26	<10	<10	120	<10	88
ZZ68930		29	<20	0.23	<10	<10	107	<10	80
ZZ68931		24	<20	0.25	<10	<10	119	<10	96
ZZ68932		30	<20	0.23	<10	<10	124	<10	95



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-ICP21 Au Check ppm	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
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68933		0.32	0.012		<0.2	2.96	41	<10	310	0.9	<2	0.30	<0.5	16	77	39
ZZ68934		0.39	0.013		<0.2	3.12	15	<10	310	1.0	<2	0.31	<0.5	14	84	44
ZZ68935		0.30	0.015		<0.2	3.23	27	<10	280	0.9	<2	0.30	<0.5	17	89	47
ZZ68936		0.22	0.007		<0.2	3.50	29	<10	300	1.1	<2	0.34	<0.5	22	79	57
ZZ68937		0.33	0.023		<0.2	3.11	48	<10	290	0.9	<2	0.36	<0.5	23	75	58
ZZ68938		0.29	0.005		<0.2	2.71	15	<10	270	0.8	<2	0.32	<0.5	18	68	45
ZZ68939		0.30	0.055		<0.2	2.56	11	<10	250	0.7	<2	0.36	<0.5	17	65	44
ZZ68940		0.25	0.003		<0.2	2.73	8	<10	290	0.6	<2	0.49	<0.5	17	59	33
ZZ68941		0.24	0.003		<0.2	2.98	10	<10	300	0.7	<2	0.56	<0.5	17	60	38
ZZ68942		0.25	0.007		<0.2	2.40	18	<10	160	0.7	<2	0.23	<0.5	14	60	38
ZZ68943		0.26	0.004		<0.2	2.51	13	<10	220	0.7	<2	0.42	<0.5	16	63	37
ZZ68944		0.21	0.005		<0.2	2.49	14	<10	160	0.6	<2	0.26	<0.5	16	61	40
ZZ68945		0.33	0.074		<0.2	3.98	34	<10	370	1.0	<2	0.37	<0.5	25	82	60
ZZ68946		0.27	0.007		<0.2	3.43	26	<10	420	1.2	<2	0.24	<0.5	23	91	59
ZZ68947		0.34	0.013		<0.2	2.89	40	<10	280	0.9	<2	0.36	<0.5	17	79	46
ZZ68948		0.30	0.010		<0.2	3.07	20	<10	280	1.0	<2	0.40	<0.5	18	81	50
ZZ68949		0.31	0.008		<0.2	3.07	16	<10	280	1.0	<2	0.27	<0.5	18	78	47
ZZ68950		0.27	0.027		<0.2	2.73	17	<10	290	0.8	<2	0.31	<0.5	16	75	40
ZZ68951		0.33	0.011		<0.2	2.90	28	<10	290	0.9	<2	0.26	<0.5	21	78	41
ZZ68952		0.25	0.020		<0.2	2.74	56	<10	250	0.8	<2	0.28	<0.5	16	75	43
ZZ68953		0.30	0.008		<0.2	2.82	52	<10	280	0.9	<2	0.28	<0.5	18	77	44
ZZ68954		0.33	0.009		<0.2	2.75	55	<10	260	0.8	<2	0.27	<0.5	15	77	42
ZZ68955		0.30	0.006		<0.2	3.04	26	<10	300	0.8	<2	0.24	<0.5	14	77	38
ZZ68956		0.31	0.013		<0.2	2.94	27	<10	280	0.8	<2	0.27	<0.5	14	78	41
ZZ68957		0.35	0.011		<0.2	3.60	37	<10	400	1.0	<2	0.25	<0.5	18	90	48
ZZ68958		0.47	0.004		<0.2	3.27	16	<10	350	1.0	<2	0.27	<0.5	15	81	43
ZZ68959		0.26	0.018		<0.2	2.96	32	<10	340	1.0	<2	0.20	<0.5	16	80	42
ZZ68960		0.26	0.009		<0.2	3.02	42	<10	340	0.9	<2	0.29	<0.5	16	84	40
ZZ68961		0.31	0.014		<0.2	3.28	47	<10	280	0.9	<2	0.34	<0.5	19	92	43
ZZ68962		0.27	0.004		<0.2	2.50	18	<10	230	0.7	<2	0.38	<0.5	15	62	37
ZZ68963		0.29	0.050		<0.2	3.14	28	<10	280	0.9	<2	0.41	<0.5	20	80	51
ZZ68964		0.34	0.002		<0.2	3.03	16	<10	330	0.9	<2	0.30	<0.5	17	79	39
ZZ68965		0.26	0.001		<0.2	3.20	21	<10	270	1.0	5	0.32	<0.5	19	79	41
ZZ68966		0.23	0.006		<0.2	3.20	18	<10	290	1.1	<2	0.32	<0.5	18	76	47
ZZ68967		0.30	<0.001		<0.2	3.63	17	<10	360	1.2	<2	0.33	<0.5	21	81	52
ZZ68968		0.29	0.001		<0.2	2.94	19	<10	320	0.9	2	0.32	<0.5	17	74	41
ZZ68969		0.39	0.010		<0.2	2.96	45	<10	270	0.9	2	0.29	<0.5	18	72	44
ZZ68970		0.35	0.026		<0.2	2.79	71	<10	270	0.8	<2	0.33	<0.5	17	77	42
ZZ68971		0.35	0.018		0.2	3.03	39	<10	280	0.9	2	0.29	<0.5	14	75	44
ZZ68972		0.42	0.014		<0.2	2.86	33	<10	300	0.8	<2	0.40	<0.5	15	72	39



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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	
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68933		3.87	10	<1	0.67	10	0.95	602	<1	0.02	42	880	5	0.02	<2	10
ZZ68934		3.84	10	<1	0.77	10	0.96	421	<1	0.02	45	1070	4	<0.01	<2	12
ZZ68935		4.16	10	<1	0.49	10	1.12	657	<1	0.02	51	1060	8	0.05	<2	9
ZZ68936		4.66	10	<1	0.39	10	1.07	823	1	0.02	54	1120	10	0.09	2	8
ZZ68937		4.24	10	<1	0.50	10	1.12	773	<1	0.02	55	1000	7	0.03	<2	10
ZZ68938		3.91	10	<1	0.41	10	0.94	655	<1	0.02	45	710	5	0.02	<2	9
ZZ68939		3.55	10	<1	0.40	10	0.90	559	<1	0.02	44	810	6	0.02	<2	8
ZZ68940		3.35	10	<1	0.42	10	0.96	459	<1	0.05	35	940	3	0.01	<2	7
ZZ68941		3.56	10	<1	0.57	10	1.04	509	<1	0.05	38	1300	4	0.01	<2	9
ZZ68942		3.39	10	<1	0.24	10	0.79	536	<1	0.02	35	800	7	0.05	2	6
ZZ68943		3.29	10	<1	0.38	10	0.82	491	<1	0.03	36	970	5	0.05	<2	7
ZZ68944		3.51	10	<1	0.31	10	0.83	493	1	0.02	41	640	6	0.04	<2	6
ZZ68945		4.71	10	<1	0.56	10	1.38	942	<1	0.04	53	1000	10	0.04	<2	11
ZZ68946		4.56	10	<1	0.73	10	1.19	696	<1	0.02	63	560	6	0.02	<2	12
ZZ68947		4.14	10	<1	0.54	10	0.99	604	<1	0.02	45	1060	7	0.02	2	10
ZZ68948		4.17	10	<1	0.67	10	1.02	656	<1	0.02	48	1260	4	0.01	<2	11
ZZ68949		4.15	10	<1	0.48	10	0.99	661	1	0.02	47	960	5	0.05	<2	9
ZZ68950		3.83	10	<1	0.51	10	0.93	585	<1	0.02	42	900	6	0.06	<2	8
ZZ68951		3.93	10	<1	0.55	10	0.96	1160	1	0.02	43	830	7	0.03	2	9
ZZ68952		3.86	10	<1	0.50	10	0.88	535	<1	0.02	42	770	7	0.04	3	8
ZZ68953		4.00	10	<1	0.58	10	0.92	658	<1	0.01	45	870	7	0.02	<2	9
ZZ68954		3.84	10	<1	0.58	10	0.91	503	<1	0.02	43	1010	4	0.02	<2	9
ZZ68955		3.84	10	<1	0.53	10	0.93	362	<1	0.01	43	920	6	0.03	<2	10
ZZ68956		3.52	10	<1	0.50	10	0.94	378	<1	0.02	42	970	6	0.04	<2	9
ZZ68957		4.46	10	<1	0.80	10	1.08	344	<1	0.02	50	960	4	0.03	<2	12
ZZ68958		3.69	10	<1	0.74	10	0.90	305	<1	0.02	45	940	5	0.01	<2	11
ZZ68959		4.00	10	<1	0.69	10	0.94	526	<1	0.02	47	530	5	0.03	<2	10
ZZ68960		4.04	10	<1	0.78	10	1.02	531	<1	0.02	45	840	5	0.01	<2	11
ZZ68961		4.34	10	<1	0.61	10	1.19	575	<1	0.02	49	980	7	0.02	<2	10
ZZ68962		3.53	10	<1	0.48	10	0.88	469	<1	0.02	36	1060	4	0.01	<2	8
ZZ68963		4.41	10	<1	0.51	10	1.20	719	<1	0.02	50	1270	5	0.03	<2	10
ZZ68964		4.06	10	<1	0.73	10	0.95	545	<1	0.02	39	940	4	0.01	<2	11
ZZ68965		4.49	10	<1	0.45	10	1.05	640	<1	0.02	42	770	6	0.05	<2	9
ZZ68966		4.47	10	<1	0.38	10	1.00	585	<1	0.02	42	1050	6	0.07	<2	9
ZZ68967		4.64	10	<1	0.59	10	1.13	809	<1	0.03	45	1130	5	0.07	<2	10
ZZ68968		3.94	10	<1	0.58	10	0.92	618	<1	0.02	40	1060	4	0.02	<2	10
ZZ68969		3.99	10	<1	0.49	10	0.93	608	<1	0.02	41	1050	5	0.02	<2	9
ZZ68970		4.02	10	<1	0.56	10	0.90	536	<1	0.02	39	1160	5	0.01	<2	10
ZZ68971		3.62	10	<1	0.61	10	0.94	287	<1	0.02	36	1070	5	0.06	<2	10
ZZ68972		3.76	10	<1	0.64	10	0.96	371	<1	0.03	37	1060	3	0.01	<2	10



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Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ68933		30	<20	0.25	<10	<10	119	<10
ZZ68934		26	<20	0.28	<10	<10	122	<10
ZZ68935		28	<20	0.20	<10	<10	121	<10
ZZ68936		36	<20	0.19	<10	<10	121	<10
ZZ68937		38	<20	0.22	<10	<10	114	<10
ZZ68938		29	<20	0.22	<10	<10	110	<10
ZZ68939		27	<20	0.22	<10	<10	103	<10
ZZ68940		37	<20	0.23	<10	<10	94	<10
ZZ68941		45	<20	0.25	<10	<10	99	<10
ZZ68942		23	<20	0.16	<10	<10	95	<10
ZZ68943		35	<20	0.19	<10	<10	100	<10
ZZ68944		24	<20	0.18	<10	<10	97	<10
ZZ68945		46	<20	0.25	<10	<10	132	<10
ZZ68946		24	<20	0.31	<10	<10	139	<10
ZZ68947		33	<20	0.24	<10	<10	123	<10
ZZ68948		46	<20	0.27	<10	<10	125	<10
ZZ68949		28	<20	0.23	<10	<10	121	<10
ZZ68950		31	<20	0.23	<10	<10	115	<10
ZZ68951		27	<20	0.22	<10	<10	114	<10
ZZ68952		30	<20	0.22	<10	<10	115	<10
ZZ68953		28	<20	0.24	<10	<10	118	<10
ZZ68954		22	<20	0.24	<10	<10	116	<10
ZZ68955		17	<20	0.24	<10	<10	116	<10
ZZ68956		23	<20	0.23	<10	<10	114	<10
ZZ68957		20	<20	0.29	<10	<10	128	<10
ZZ68958		20	<20	0.28	<10	<10	121	<10
ZZ68959		23	<20	0.27	<10	<10	124	<10
ZZ68960		32	<20	0.26	<10	<10	122	<10
ZZ68961		33	<20	0.22	<10	<10	124	<10
ZZ68962		30	<20	0.23	<10	<10	100	<10
ZZ68963		33	<20	0.24	<10	<10	116	<10
ZZ68964		22	<20	0.29	<10	<10	121	<10
ZZ68965		31	<20	0.27	<10	<10	127	<10
ZZ68966		31	<20	0.24	<10	<10	121	<10
ZZ68967		34	<20	0.27	<10	<10	128	<10
ZZ68968		23	<20	0.26	<10	<10	117	<10
ZZ68969		22	<20	0.22	<10	<10	110	<10
ZZ68970		23	<20	0.24	<10	<10	115	<10
ZZ68971		22	<20	0.23	<10	<10	110	<10
ZZ68972		28	<20	0.26	<10	<10	108	<10



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Au Check	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.001	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
ZZ68973		0.42	0.008		<0.2	2.29	24	<10	250	0.6	2	0.43	<0.5	13	65	32
ZZ68974		0.32	0.017		<0.2	2.97	36	<10	300	0.8	<2	0.38	<0.5	14	74	36
ZZ68975		0.58	0.358		<0.2	3.01	48	<10	330	0.8	2	0.30	<0.5	15	81	34
ZZ68976		0.32	0.030		<0.2	3.08	111	<10	300	0.8	<2	0.35	<0.5	19	79	46
ZZ68977		0.35	0.025		<0.2	3.31	47	<10	530	<0.5	<2	0.95	<0.5	21	88	40
ZZ68978		0.50	0.114		0.2	3.19	267	<10	260	0.9	<2	0.27	<0.5	15	85	47
ZZ68979		0.51	0.006		<0.2	0.65	88	<10	100	<0.5	<2	0.92	0.7	7	20	37
ZZ68980		0.48	0.006		<0.2	1.56	463	<10	250	<0.5	2	1.37	<0.5	15	39	42
ZZ68981		0.30	0.010		<0.2	1.68	120	<10	440	<0.5	<2	1.57	<0.5	10	39	54
ZZ68982		0.62	0.010		<0.2	2.23	145	<10	270	<0.5	<2	0.65	<0.5	16	64	29
ZZ68983		0.37	1.960		0.3	3.96	1400	<10	370	0.7	5	0.58	<0.5	18	121	39



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Project: KLUANE

CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ68973		3.37	10	<1	0.53	10	0.83	453	<1	0.03	31	1120	2	<0.01	<2	9
ZZ68974		3.72	10	<1	0.50	10	0.99	461	<1	0.02	36	850	4	0.06	<2	8
ZZ68975		3.85	10	<1	0.74	10	0.96	457	<1	0.02	39	890	4	<0.01	<2	11
ZZ68976		4.24	10	<1	0.62	10	1.14	532	<1	0.03	45	640	5	0.01	<2	10
ZZ68977		3.71	10	<1	0.67	10	1.48	309	<1	0.11	28	1520	<2	<0.01	<2	6
ZZ68978		4.12	10	<1	0.43	10	1.03	416	<1	0.02	37	1020	4	0.05	<2	8
ZZ68979		0.74	<10	<1	0.06	<10	0.28	67	2	<0.01	36	390	<2	0.60	<2	2
ZZ68980		2.52	<10	<1	0.10	10	0.53	951	1	0.03	25	990	3	0.09	<2	3
ZZ68981		2.37	10	<1	0.07	10	0.56	393	1	0.03	26	1050	4	0.11	<2	3
ZZ68982		3.05	10	<1	0.34	10	0.94	341	<1	0.05	33	740	3	0.01	<2	6
ZZ68983		4.46	10	<1	0.91	10	1.70	490	<1	0.02	42	1090	8	<0.01	<2	13



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CERTIFICATE OF ANALYSIS WH14109755

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm 1	ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ68973		28	<20	0.23	<10	<10	101	<10	79
ZZ68974		35	<20	0.22	<10	<10	107	<10	84
ZZ68975		22	<20	0.28	<10	<10	118	<10	97
ZZ68976		38	<20	0.27	<10	<10	118	<10	98
ZZ68977		84	<20	0.37	<10	<10	107	<10	76
ZZ68978		23	<20	0.21	<10	<10	117	<10	80
ZZ68979		39	<20	0.04	<10	<10	24	<10	145
ZZ68980		79	<20	0.08	<10	<10	64	<10	45
ZZ68981		106	<20	0.09	<10	<10	56	<10	43
ZZ68982		49	<20	0.15	<10	<10	84	<10	60
ZZ68983		53	<20	0.19	<10	<10	121	<10	87



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CERTIFICATE OF ANALYSIS WH14109755

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	LOG - 21	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 WH14109756

Project: KLUANE

This report is for 48 Rock samples submitted to our lab in Whitehorse, YT, Canada on 24-JUL-2014.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

JARED TARSWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
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

ANALYTICAL PROCEDURES

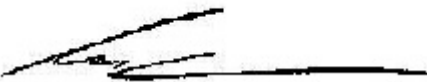
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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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 WH14109756

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	Au-GRA21 Au ppm	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
		0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
M896247		1.52	1.370		0.4	0.14	1715	<10	80	<0.5	2	0.02	<0.5	1	17	3
M896248		1.38	0.243		<0.2	0.04	153	<10	10	<0.5	<2	0.01	<0.5	1	34	1
M896249		0.83	0.028		<0.2	0.89	36	<10	40	<0.5	<2	0.07	<0.5	4	27	56
M896250		1.33	0.272		0.2	0.05	159	<10	<10	<0.5	<2	0.01	<0.5	1	32	1
M896251		0.90	0.585		<0.2	0.22	707	<10	20	<0.5	<2	0.03	<0.5	5	17	8
M896252		0.73	0.002		<0.2	0.13	6	<10	10	<0.5	<2	0.02	<0.5	1	13	2
M896253		0.91	0.003		<0.2	0.47	4	<10	100	<0.5	<2	0.03	<0.5	2	23	1
M896254		1.76	0.004		<0.2	1.39	4	<10	30	0.5	<2	1.55	<0.5	<1	18	1
M896255		1.41	0.034		0.2	0.35	991	<10	80	<0.5	<2	0.03	0.6	1	6	12
M896256		1.20	0.001		<0.2	0.30	4	<10	50	<0.5	<2	0.03	<0.5	1	12	<1
M896257		0.88	<0.001		<0.2	0.07	<2	<10	10	<0.5	<2	0.02	<0.5	1	14	<1
M896258		1.39	0.001		<0.2	0.06	4	<10	10	<0.5	<2	0.02	<0.5	<1	17	<1
M896259		1.73	0.037		<0.2	1.33	5960	<10	70	<0.5	<2	0.09	<0.5	4	73	9
M896260		0.99	0.022		0.3	3.34	1080	<10	170	0.6	<2	0.29	<0.5	10	113	61
M896261		1.41	0.001		<0.2	3.60	4	<10	800	0.7	<2	0.28	<0.5	25	133	85
M896262		0.68	0.002		<0.2	2.67	47	<10	150	<0.5	<2	0.25	<0.5	12	78	33
M896263		0.43	0.001		<0.2	2.34	13	<10	130	1.5	<2	0.07	<0.5	6	12	6
M896264		2.42	>10.0	12.75	1.8	0.03	7880	<10	30	<0.5	2	0.03	<0.5	1	17	3
M896265		1.01	0.011		<0.2	9.69	27	<10	170	1.9	<2	8.6	<0.5	<1	16	4
M896266		0.67	0.004		<0.2	3.13	5	<10	760	0.6	<2	0.25	<0.5	15	105	38
M896267		1.42	0.009		0.2	2.13	16	<10	190	<0.5	<2	1.34	<0.5	12	12	89
M896268		0.52	0.001		<0.2	0.21	3	<10	10	<0.5	<2	0.04	<0.5	<1	8	1
M896269		2.17	<0.001		<0.2	0.31	2	<10	30	<0.5	<2	0.02	<0.5	1	9	4
M896270		0.99	0.001		<0.2	3.71	4	<10	680	0.6	<2	0.18	<0.5	19	126	49
M896271		2.35	0.511		0.3	1.08	>10000	<10	140	<0.5	2	0.24	<0.5	4	52	4
M896272		0.72	2.39		0.3	1.81	9880	<10	160	<0.5	2	0.38	<0.5	7	70	1
M896273		1.37	0.004		<0.2	1.93	33	<10	130	<0.5	<2	0.06	<0.5	11	62	4
M896274		2.68	8.92		2.6	1.17	6510	<10	430	<0.5	33	0.22	0.9	6	13	43
M896275		0.97	3.33		0.3	2.17	1855	<10	310	<0.5	2	0.32	<0.5	5	129	1
M896276		0.83	0.004		<0.2	0.29	6	<10	100	<0.5	<2	0.02	<0.5	1	13	2
M896277		1.30	0.003		<0.2	0.05	21	<10	20	<0.5	<2	0.08	<0.5	<1	14	1
M896278		0.84	0.006		<0.2	0.11	14	<10	30	<0.5	<2	0.01	<0.5	1	12	5
M896279		0.74	0.001		<0.2	0.01	3	<10	<10	<0.5	<2	<0.01	<0.5	<1	16	1
M896280		0.84	0.001		<0.2	0.07	8	<10	10	<0.5	<2	0.01	<0.5	1	18	2
M896281		1.22	0.002		<0.2	0.26	4	<10	20	<0.5	<2	0.23	<0.5	1	15	3
M896282		2.14	0.001		<0.2	0.64	4	<10	110	<0.5	<2	0.07	<0.5	3	22	23
M896283		1.97	0.005		<0.2	5.10	34	<10	720	<0.5	<2	2.08	<0.5	13	32	22
M896284		1.49	0.012		<0.2	3.09	907	<10	700	<0.5	<2	1.11	<0.5	11	28	82
M896285		1.37	6.85		1.0	0.31	>10000	<10	60	<0.5	159	0.06	<0.5	12	11	3
M896286		0.60	2.48		1.5	1.44	>10000	<10	70	<0.5	63	0.31	<0.5	31	18	103



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CERTIFICATE OF ANALYSIS WH14109756

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
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
M896247		0.87	<10	<1	0.10	<10	0.01	40	<1	0.01	<1	50	<2	0.02	10
M896248		0.51	<10	<1	0.01	<10	<0.01	44	<1	<0.01	1	10	<2	<0.01	<2
M896249		1.72	<10	<1	0.02	<10	0.66	204	<1	0.04	5	200	<2	<0.01	<2
M896250		0.49	<10	<1	0.03	<10	0.01	42	<1	<0.01	<1	10	2	<0.01	2
M896251		1.28	<10	<1	0.10	<10	0.04	97	<1	0.01	5	100	3	<0.01	4
M896252		0.43	<10	<1	0.03	<10	0.05	90	<1	0.01	<1	40	<2	<0.01	<2
M896253		0.83	<10	1	0.18	<10	0.20	111	<1	0.01	5	60	<2	<0.01	<2
M896254		0.49	<10	<1	0.01	<10	0.06	131	<1	0.04	1	2740	<2	<0.01	<2
M896255		0.90	<10	<1	0.13	20	0.02	69	2	0.08	<1	70	22	<0.01	2
M896256		0.51	<10	<1	0.05	<10	0.09	104	<1	0.03	1	50	<2	<0.01	<2
M896257		0.39	<10	<1	0.02	<10	0.01	56	<1	0.01	1	50	<2	<0.01	<2
M896258		0.33	<10	<1	0.02	<10	0.01	55	<1	0.01	<1	40	<2	<0.01	<2
M896259		2.87	10	<1	0.07	10	0.64	186	<1	0.09	16	400	5	0.13	2
M896260		6.50	10	<1	0.31	20	1.57	592	<1	0.03	43	820	8	0.03	<2
M896261		4.80	10	<1	1.72	10	1.21	499	<1	0.06	71	1130	2	0.19	<2
M896262		4.24	10	<1	0.30	10	1.27	570	<1	0.03	36	940	3	0.01	<2
M896263		2.60	10	<1	0.37	<10	1.26	672	<1	0.02	11	130	3	0.01	<2
M896264		0.96	<10	<1	0.02	<10	0.01	37	<1	<0.01	2	20	<2	0.28	2
M896265		0.76	30	<1	0.05	10	0.15	392	<1	0.32	4	>10000	9	<0.01	3
M896266		4.36	10	<1	1.28	10	1.20	528	<1	0.06	43	860	3	0.03	<2
M896267		2.80	<10	<1	0.06	<10	0.59	147	1	0.31	4	2890	2	0.38	<2
M896268		0.30	<10	<1	0.12	<10	<0.01	218	<1	0.06	1	50	5	0.01	<2
M896269		0.65	<10	<1	0.14	<10	0.02	82	<1	0.05	2	220	4	0.02	<2
M896270		4.84	10	1	1.78	10	1.28	518	<1	0.07	48	670	4	0.11	<2
M896271		2.64	10	<1	0.19	10	0.66	216	1	0.02	13	700	3	0.32	7
M896272		3.66	10	<1	0.14	10	1.09	448	<1	0.04	30	970	7	0.12	6
M896273		2.51	10	<1	0.26	10	0.88	527	<1	0.06	29	60	3	0.01	<2
M896274		2.30	10	<1	0.13	<10	0.53	274	<1	0.05	5	620	6	0.11	3
M896275		2.97	10	<1	0.05	10	1.82	426	<1	0.07	21	910	3	0.03	<2
M896276		0.51	<10	<1	0.04	<10	0.07	101	<1	0.01	4	50	<2	0.01	<2
M896277		0.27	<10	<1	<0.01	<10	<0.01	36	<1	<0.01	2	320	<2	<0.01	<2
M896278		0.33	<10	<1	0.03	<10	0.01	43	<1	0.01	2	10	<2	0.01	2
M896279		0.31	<10	<1	<0.01	<10	<0.01	33	<1	<0.01	1	<10	<2	0.01	<2
M896280		0.40	<10	<1	0.02	<10	0.02	52	<1	<0.01	1	10	<2	0.01	<2
M896281		0.67	<10	<1	<0.01	<10	0.03	182	<1	0.01	2	240	<2	0.01	<2
M896282		0.99	<10	<1	0.20	<10	0.16	219	<1	0.03	8	230	4	0.01	2
M896283		3.82	10	<1	1.09	<10	1.43	298	<1	0.57	7	1730	5	0.02	2
M896284		5.44	10	<1	0.66	10	1.86	449	1	0.16	2	2960	2	0.08	2
M896285		8.34	<10	<1	0.07	<10	0.15	54	2	0.01	3	280	4	3.15	22
M896286		6.64	10	1	0.39	<10	0.94	227	1	0.05	1	890	14	2.07	9



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CERTIFICATE OF ANALYSIS WH14109756

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Ti	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
M896247		5	<20	<0.01	<10	<10	3	<10	4
M896248		1	<20	<0.01	<10	<10	3	<10	3
M896249		6	<20	<0.01	<10	<10	13	10	22
M896250		2	<20	<0.01	<10	<10	4	<10	3
M896251		3	<20	<0.01	<10	<10	22	<10	22
M896252		1	<20	<0.01	<10	<10	1	<10	3
M896253		3	<20	0.04	<10	<10	20	<10	15
M896254		398	<20	0.01	<10	<10	5	140	7
M896255		11	<20	<0.01	<10	<10	3	<10	25
M896256		4	<20	0.01	<10	10	5	<10	7
M896257		2	<20	<0.01	<10	<10	<1	<10	<2
M896258		1	<20	<0.01	<10	<10	1	<10	<2
M896259		51	<20	<0.01	<10	<10	89	<10	34
M896260		29	<20	0.02	<10	<10	138	<10	97
M896261		23	<20	0.53	<10	<10	216	<10	94
M896262		9	<20	0.07	<10	<10	113	<10	81
M896263		6	<20	<0.01	<10	<10	9	<10	56
M896264		2	<20	<0.01	<10	<10	1	<10	2
M896265		1490	<20	<0.01	<10	<10	12	60	15
M896266		18	<20	0.35	<10	<10	169	<10	88
M896267		146	<20	0.09	<10	<10	11	<10	37
M896268		5	<20	<0.01	<10	10	<1	<10	7
M896269		9	<20	0.01	<10	<10	2	<10	5
M896270		24	<20	0.50	<10	<10	200	<10	127
M896271		34	<20	<0.01	<10	<10	47	<10	39
M896272		53	<20	0.01	<10	<10	72	<10	83
M896273		7	<20	0.07	<10	<10	73	<10	47
M896274		41	<20	0.01	<10	<10	15	<10	41
M896275		19	<20	0.04	<10	<10	123	<10	61
M896276		2	<20	<0.01	<10	<10	2	<10	8
M896277		8	<20	<0.01	<10	<10	<1	<10	<2
M896278		2	<20	<0.01	<10	<10	1	<10	2
M896279		<1	<20	<0.01	<10	10	<1	<10	<2
M896280		<1	<20	<0.01	<10	<10	2	<10	2
M896281		20	<20	<0.01	<10	<10	3	<10	10
M896282		10	<20	0.03	<10	<10	12	<10	12
M896283		206	<20	0.20	<10	<10	74	<10	86
M896284		60	<20	0.31	<10	<10	127	<10	72
M896285		7	<20	0.01	<10	<10	12	<10	6
M896286		29	<20	0.12	<10	<10	56	180	40



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CERTIFICATE OF ANALYSIS WH14109756

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
		kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.02	0.001	0.05	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1
M896287		2.15	0.615		<0.2	2.50	802	<10	280	<0.5	<2	0.21	<0.5	17	94	93
M896288		3.71	9.22		0.9	1.28	>10000	<10	160	<0.5	10	0.22	<0.5	8	41	6
M896289		2.79	0.051		<0.2	3.01	337	<10	520	0.5	<2	0.24	<0.5	17	99	45
M896290		2.40	0.223		<0.2	3.15	3000	<10	640	0.8	<2	0.21	<0.5	14	94	39
M896291		3.56	0.012		<0.2	3.73	139	<10	790	0.7	<2	0.62	<0.5	15	103	41
M896292		3.22	0.014		<0.2	3.43	40	<10	710	0.7	<2	0.23	<0.5	17	110	37
M896293		1.63	2.70		0.4	1.95	>10000	<10	310	<0.5	3	0.34	<0.5	9	62	41
M896294		2.58	9.69		3.6	0.33	975	<10	60	<0.5	5	0.07	<0.5	2	24	4



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CERTIFICATE OF ANALYSIS WH14109756

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
		Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb
		%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm
		0.01	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2
M896287		4.06	10	<1	0.70	10	1.41	536	1	0.04	49	720	3	0.39	2
M896288		2.95	10	<1	0.18	10	0.77	246	<1	0.03	20	650	5	0.63	7
M896289		4.35	10	<1	1.14	10	1.31	562	<1	0.06	39	690	4	0.04	2
M896290		4.21	10	<1	1.12	10	1.17	512	<1	0.05	44	820	3	0.07	2
M896291		4.11	10	<1	1.33	10	1.28	461	<1	0.16	44	770	3	0.02	<2
M896292		4.52	10	<1	1.46	10	1.28	530	<1	0.07	45	750	4	0.02	2
M896293		3.65	10	<1	0.24	10	1.09	437	<1	0.03	26	1270	3	0.50	6
M896294		0.86	<10	<1	0.06	<10	0.12	89	<1	0.01	5	100	2	0.01	2



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CERTIFICATE OF ANALYSIS WH14109756

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Sr	Th	Ti	Tl	U	V	W	Zn
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		1	20	0.01	10	10	1	10	2
M896287		8	<20	0.15	<10	<10	117	<10	86
M896288		78	<20	0.01	<10	<10	39	<10	34
M896289		18	<20	0.28	<10	<10	145	<10	100
M896290		58	<20	0.29	<10	<10	136	<10	96
M896291		57	<20	0.35	<10	<10	151	<10	96
M896292		17	<20	0.39	<10	<10	164	<10	108
M896293		116	<20	0.03	<10	<10	73	10	56
M896294		7	<20	0.02	<10	<10	15	10	7



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CERTIFICATE OF ANALYSIS WH14109756

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.		
	CRU - 31	CRU - QC	LOG - 21
	WEI - 21		SPL - 21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au - GRA21	Au - ICP21	ME - ICP41
	PUL - QC		PUL - 31



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Account: **ROCKHA**

CERTIFICATE WH14110346

Project: KLUANE

P.O. No.: Kluane

This report is for 35 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17-JUL-2014.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

JARED TARSWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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

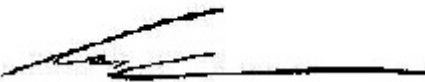
ALS CODE	DESCRIPTION	INSTRUMENT
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

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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 WH14110346

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA24	Au-GRA22	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.005	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
M896212		2.05	<0.005		0.01	0.12	1.1	20	<0.05	0.01	0.04	<0.02	0.33	0.2	8	0.14
M896213		1.98	<0.005		0.04	0.23	0.5	30	<0.05	0.01	0.05	0.04	0.34	0.3	11	0.13
M896214		1.50	0.058		0.02	0.41	10.7	30	<0.05	0.16	0.05	0.03	0.82	0.5	16	0.48
M896215		1.35	<0.005		0.02	6.47	<0.2	210	2.25	0.01	0.61	0.06	2.45	0.1	9	0.95
M896216		1.51	3.63		0.84	0.21	6640	140	0.26	5.37	0.02	0.15	1.43	0.6	19	0.06
M896217		2.36	>10.0	17.40	2.47	0.33	3440	40	0.11	14.40	0.04	0.03	2.42	0.6	28	0.06
M896218		1.62	3.79		0.65	5.23	>10000	510	1.66	3.92	0.70	0.17	33.4	11.4	61	0.63
M896219		1.56	>10.0	225	20.6	0.64	4500	70	0.22	188.0	0.03	0.08	3.48	0.8	23	0.09
M896220		2.05	0.183		0.05	0.45	41.1	180	0.07	0.50	0.09	0.02	1.59	0.5	15	0.09
M896221		2.06	0.415		0.08	0.68	19.2	40	<0.05	0.94	0.11	0.02	0.84	0.2	12	0.38
M896222		1.69	0.012		0.02	0.51	31.8	50	0.15	0.11	0.03	0.02	0.85	0.6	20	0.26
M896223		1.79	0.312		0.28	0.50	591	70	0.12	0.85	0.01	0.16	1.67	0.4	21	0.17
M896224		1.88	0.082		0.06	0.55	29.2	60	0.48	0.17	0.02	<0.02	0.20	0.3	19	0.35
M896225		1.90	0.024		0.02	6.09	4.6	190	2.63	0.14	0.12	0.04	25.3	0.7	6	2.20
M896226		1.22	<0.005		0.04	6.34	91.2	160	2.49	0.11	0.12	0.08	42.2	0.2	6	0.81
M896227		2.78	<0.005		0.01	6.06	4.6	170	2.37	0.08	0.19	0.02	42.8	0.3	16	2.15
M896228		2.53	<0.005		0.02	0.94	3.9	70	0.06	0.05	0.31	0.06	2.27	1.0	15	0.28
M896229		1.28	<0.005		0.01	0.03	1.3	10	<0.05	0.04	0.01	<0.02	0.21	0.2	14	<0.05
M896230		2.34	0.005		0.14	6.37	50.3	180	1.88	0.22	0.08	0.03	39.9	0.2	3	0.78
M896231		1.49	0.015		0.13	6.24	12.4	180	2.18	0.16	0.08	<0.02	37.8	0.1	6	0.78
M896232		1.23	<0.005		0.01	0.20	1.7	30	<0.05	0.03	0.01	<0.02	0.30	0.5	12	0.10
M896233		2.36	<0.005		1.66	7.33	0.5	1340	1.51	3.58	0.91	0.58	3.91	0.6	4	1.12
M896234		1.53	1.825		0.33	0.78	2670	70	0.45	0.33	0.05	0.04	2.42	0.4	20	0.45
M896235		2.38	0.020		0.40	6.31	341	220	2.26	0.28	0.12	0.27	46.8	1.3	3	0.85
M896236		1.54	<0.005		0.04	3.43	4.3	500	0.48	0.12	1.19	0.10	3.75	0.9	11	0.90
M896237		1.24	0.012		0.08	1.92	11.2	150	0.13	0.07	0.85	0.08	9.66	1.3	14	0.90
M896238		3.43	>10.0	51.6	4.95	0.51	9080	40	0.24	7.65	0.02	0.12	2.92	1.8	29	0.12
M896239		2.10	0.140		0.10	1.68	477	160	0.35	0.31	0.19	0.04	11.15	2.6	44	0.52
M896240		2.17	>10.0	51.6	5.30	0.84	>10000	80	0.29	11.35	0.09	0.09	2.67	3.6	25	0.27
M896241		2.12	>10.0	23.2	2.80	0.32	6300	50	0.16	6.69	0.03	0.06	0.98	1.0	28	0.09
M896242		0.52	0.103		0.09	8.12	99.4	1620	1.57	0.62	0.30	0.11	48.1	2.8	11	2.78
M896243		2.02	0.124		0.10	7.32	148.0	1700	2.09	0.32	0.27	0.11	48.5	1.5	5	0.92
M896244		1.99	0.287		0.10	1.87	237	140	0.84	0.18	0.15	0.06	7.71	1.8	30	0.60
M896245		1.77	0.007		0.05	7.65	19.8	630	1.05	0.10	2.05	0.08	30.4	10.0	42	1.06
M896246		1.25	0.028		0.04	4.53	19.2	140	1.07	0.06	1.07	0.03	19.90	1.4	10	0.46



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
M896212		1.3	0.33	0.33	0.09	<0.1	<0.005	0.03	<0.5	8.3	0.01	44	0.16	0.01	0.1
M896213		2.4	0.27	0.41	0.08	<0.1	<0.005	0.03	<0.5	5.6	0.01	36	0.11	0.05	0.1
M896214		3.2	0.34	0.78	0.07	<0.1	0.008	0.15	<0.5	9.5	0.01	65	0.26	0.09	0.2
M896215		8.2	0.55	18.95	0.17	2.8	0.022	3.13	0.7	6.1	0.01	340	1.77	3.46	8.7
M896216		1.7	0.91	0.58	0.05	<0.1	<0.005	0.06	0.8	9.6	0.02	36	0.18	0.04	0.2
M896217		1.3	0.69	0.71	<0.05	<0.1	<0.005	0.08	1.2	4.3	0.04	43	0.24	0.09	0.3
M896218		27.1	3.25	12.15	0.07	0.2	0.030	0.87	16.6	22.7	0.88	332	0.88	1.48	5.4
M896219		2.6	0.82	1.47	<0.05	<0.1	0.005	0.19	1.8	5.7	0.09	53	0.16	0.15	0.6
M896220		3.2	0.38	0.85	<0.05	<0.1	<0.005	0.08	0.8	9.9	0.03	51	0.17	0.14	0.2
M896221		1.2	0.25	1.19	0.06	<0.1	<0.005	0.24	0.5	8.9	0.01	40	0.10	0.23	0.2
M896222		8.5	0.55	1.08	<0.05	<0.1	<0.005	0.13	<0.5	6.4	0.06	73	0.26	0.04	0.3
M896223		4.7	0.51	1.23	<0.05	<0.1	0.011	0.12	0.9	68.2	0.02	40	0.22	0.01	0.3
M896224		2.1	0.25	1.57	<0.05	<0.1	<0.005	0.13	<0.5	99.6	0.02	28	0.13	0.01	<0.1
M896225		1.7	0.89	20.8	0.16	4.8	0.046	3.75	11.1	18.4	0.02	70	0.46	2.55	15.9
M896226		2.3	0.58	21.4	0.18	4.7	0.058	3.78	17.4	9.9	0.01	27	0.60	2.67	16.1
M896227		1.3	0.89	19.75	0.26	4.5	0.050	3.66	19.3	12.5	0.02	130	0.17	2.60	14.6
M896228		2.6	0.51	1.97	0.13	0.1	0.009	0.16	1.1	8.2	0.07	287	0.17	0.28	0.7
M896229		1.0	0.30	0.21	0.07	<0.1	<0.005	0.01	<0.5	1.6	<0.01	65	0.16	0.01	0.1
M896230		3.0	0.45	21.5	0.21	4.6	0.058	3.70	17.6	6.7	0.01	23	0.63	2.53	15.5
M896231		0.9	0.84	20.4	0.22	4.8	0.044	3.75	18.1	6.8	0.01	36	1.11	2.68	14.9
M896232		3.4	0.40	0.52	0.11	<0.1	<0.005	0.11	<0.5	3.9	0.01	47	0.20	0.03	0.2
M896233		2.4	0.47	14.25	0.21	1.4	0.007	1.29	2.2	5.3	0.10	141	0.06	4.35	3.5
M896234		1.5	0.61	2.69	0.10	<0.1	0.006	0.27	1.2	78.6	0.04	41	0.33	0.03	0.5
M896235		3.9	0.70	21.1	0.23	4.9	0.054	3.69	21.1	7.7	0.02	96	3.01	2.55	15.2
M896236		13.8	0.52	7.04	0.16	0.3	0.009	0.80	1.8	6.9	0.06	160	0.13	1.16	1.3
M896237		26.5	0.71	4.17	0.15	0.1	0.011	0.28	3.8	9.2	0.08	124	0.25	0.63	1.1
M896238		3.1	1.09	1.33	<0.05	<0.1	0.015	0.14	1.3	3.8	0.08	53	0.46	0.10	0.6
M896239		30.1	1.61	4.56	<0.05	0.1	0.018	0.32	5.4	15.9	0.42	225	0.75	0.26	2.3
M896240		6.4	1.83	2.32	<0.05	<0.1	0.024	0.23	1.2	7.6	0.20	132	0.34	0.08	0.8
M896241		2.3	0.94	0.84	<0.05	<0.1	0.010	0.07	<0.5	3.0	0.05	52	0.94	0.06	0.3
M896242		76.9	3.36	23.8	0.10	1.7	0.027	1.95	22.3	22.0	0.60	155	1.19	2.68	12.1
M896243		15.9	1.46	20.0	0.05	3.1	0.013	2.58	24.3	13.2	0.23	116	0.49	2.64	9.3
M896244		5.0	0.96	6.31	<0.05	0.4	0.013	0.59	3.5	82.0	0.14	103	0.48	0.38	3.0
M896245		20.5	3.55	18.35	0.09	0.3	0.037	1.05	13.0	24.8	1.10	553	0.43	1.86	9.1
M896246		2.3	0.71	12.65	<0.05	1.8	0.018	1.54	8.5	5.5	0.17	143	1.24	1.56	6.7



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Account: ROCKHA

Project: KLUANE

CERTIFICATE OF ANALYSIS WH14110346

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005
M896212		20	1.0	1.2	<0.002	<0.01	0.08	0.1	<1	<0.2	7.9	<0.05	<0.05	<0.2	<0.005
M896213		40	16.2	1.3	<0.002	0.01	0.14	0.1	<1	<0.2	14.6	<0.05	<0.05	<0.2	<0.005
M896214		80	2.2	3.4	<0.002	<0.01	0.08	0.2	<1	0.4	11.4	<0.05	<0.05	0.2	0.006
M896215		10	22.1	127.0	<0.002	<0.01	0.07	0.5	1	0.5	105.5	1.00	<0.05	1.5	0.012
M896216		30	4.1	2.8	<0.002	0.24	3.05	0.4	1	0.4	8.0	<0.05	<0.05	<0.2	0.013
M896217		150	9.3	3.3	<0.002	0.14	3.32	0.5	1	0.2	17.7	<0.05	0.06	0.3	0.016
M896218		640	8.7	38.9	0.002	0.89	8.60	10.3	3	2.7	198.0	0.32	0.12	5.3	0.228
M896219		90	76.6	7.5	<0.002	0.13	4.06	1.1	1	0.6	48.2	<0.05	0.32	0.5	0.032
M896220		50	1.8	2.2	<0.002	<0.01	0.10	0.4	<1	<0.2	24.5	<0.05	<0.05	0.3	0.009
M896221		80	3.0	4.4	<0.002	<0.01	0.06	0.2	<1	0.5	25.2	<0.05	<0.05	<0.2	0.005
M896222		80	1.4	3.3	<0.002	<0.01	0.15	0.3	<1	0.2	6.1	0.05	<0.05	<0.2	0.011
M896223		70	47.0	6.0	<0.002	0.01	17.25	1.3	1	<0.2	4.8	<0.05	0.15	0.2	0.018
M896224		<10	0.9	7.3	<0.002	<0.01	20.9	0.2	1	<0.2	23.6	<0.05	0.09	<0.2	<0.005
M896225		30	20.9	142.0	<0.002	<0.01	1.13	3.0	1	1.8	21.7	1.19	<0.05	11.2	0.036
M896226		40	17.1	146.0	<0.002	<0.01	0.97	3.0	1	2.3	20.6	1.15	<0.05	11.9	0.037
M896227		30	19.8	137.5	<0.002	<0.01	0.56	2.8	1	1.9	20.6	1.08	<0.05	11.0	0.035
M896228		230	2.6	5.7	<0.002	<0.01	0.07	1.7	1	0.3	42.9	0.07	<0.05	0.2	0.022
M896229		<10	<0.5	0.4	<0.002	<0.01	0.09	0.2	<1	<0.2	1.3	<0.05	<0.05	<0.2	<0.005
M896230		60	16.6	125.0	<0.002	<0.01	0.94	3.1	1	2.3	30.6	1.12	<0.05	11.5	0.038
M896231		40	17.7	133.0	<0.002	<0.01	0.83	3.1	1	1.8	23.1	1.09	<0.05	11.5	0.036
M896232		40	0.7	2.0	<0.002	<0.01	0.24	0.1	<1	0.2	4.1	<0.05	<0.05	<0.2	0.005
M896233		90	26.9	56.6	<0.002	0.02	0.11	0.9	<1	0.5	750	0.24	0.19	0.6	0.040
M896234		10	1.8	17.5	<0.002	0.04	43.3	1.0	1	0.2	16.5	<0.05	0.38	0.3	0.029
M896235		60	27.2	119.5	<0.002	<0.01	2.57	3.1	1	2.1	40.3	1.17	<0.05	12.1	0.038
M896236		950	14.5	17.8	<0.002	<0.01	0.09	1.3	1	1.4	221	0.23	<0.05	0.3	0.016
M896237		1740	5.5	10.6	<0.002	0.01	0.21	1.4	1	0.8	116.5	0.14	<0.05	0.4	0.035
M896238		80	35.2	5.7	<0.002	0.33	5.02	1.2	2	0.3	14.2	<0.05	1.06	0.3	0.026
M896239		360	2.2	12.6	<0.002	0.04	0.59	5.5	1	0.5	35.9	0.21	<0.05	1.8	0.093
M896240		200	11.8	9.0	<0.002	0.46	7.56	2.1	3	0.4	25.4	<0.05	1.27	0.3	0.048
M896241		40	48.2	3.1	0.002	0.25	3.50	0.6	2	<0.2	9.8	<0.05	0.58	<0.2	0.014
M896242		920	5.0	79.3	<0.002	<0.01	3.19	9.1	1	2.9	523	0.66	<0.05	3.6	0.355
M896243		500	12.6	61.8	<0.002	0.01	0.72	3.9	1	0.7	389	0.85	<0.05	7.5	0.139
M896244		160	4.4	30.8	<0.002	<0.01	20.4	2.8	1	0.6	35.9	0.21	0.29	2.1	0.060
M896245		1560	7.9	37.1	<0.002	0.01	0.28	12.6	1	0.8	403	0.52	<0.05	3.3	0.448
M896246		720	7.9	49.8	<0.002	<0.01	0.44	3.1	1	1.0	142.5	0.48	<0.05	4.8	0.028



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Project: KLUANE

CERTIFICATE OF ANALYSIS WH14110346

Sample Description	Method Analyte Units LOR	ME-MS61 U ppm 0.1	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	As-OG62 As % 0.001
M896212		0.1	1	0.1	0.2	<2	<0.5	
M896213		0.1	1	0.1	0.3	5	<0.5	
M896214		0.2	1	0.2	0.8	<2	0.7	
M896215		2.2	1	<0.1	10.0	23	55.4	
M896216		0.1	4	2.7	0.7	<2	0.5	
M896217		0.1	5	2.6	0.8	<2	0.5	
M896218		1.1	96	24.8	11.3	37	4.7	2.00
M896219		0.1	11	4.9	1.2	3	0.6	
M896220		0.2	3	0.1	0.8	2	0.5	
M896221		0.3	<1	0.1	0.6	<2	0.6	
M896222		0.3	2	0.2	0.7	4	0.5	
M896223		<0.1	8	0.5	0.5	2	0.5	
M896224		<0.1	4	<0.1	0.1	<2	<0.5	
M896225		3.8	<1	0.6	13.8	45	111.5	
M896226		3.5	1	0.7	13.7	19	114.5	
M896227		3.2	<1	0.7	17.2	38	106.0	
M896228		0.2	5	0.9	2.7	6	1.1	
M896229		<0.1	<1	0.2	0.1	<2	<0.5	
M896230		3.7	3	2.0	11.2	12	108.0	
M896231		4.5	<1	0.6	15.5	18	112.5	
M896232		0.1	1	0.1	0.3	<2	<0.5	
M896233		0.7	4	1.7	2.3	34	39.8	
M896234		0.1	11	0.4	0.9	3	1.4	
M896235		4.1	4	1.2	16.5	51	114.0	
M896236		0.8	3	0.3	4.0	7	7.4	
M896237		0.9	7	0.6	14.8	9	1.1	
M896238		0.1	12	4.3	1.2	5	0.9	
M896239		0.5	40	1.8	3.6	26	1.8	
M896240		0.1	20	42.4	1.6	11	0.9	1.250
M896241		<0.1	6	244	0.4	3	2.2	
M896242		1.1	35	2.0	10.3	38	63.4	
M896243		3.3	11	1.1	8.9	19	111.0	
M896244		0.7	25	1.4	3.0	13	9.7	
M896245		1.0	81	0.9	15.1	68	6.5	
M896246		1.6	6	0.5	8.8	10	48.2	



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CERTIFICATE OF ANALYSIS WH14110346

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.
 CRU - 31 CRU - QC LOG - 21 SPL - 21
 WEI - 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
 As-OG62 Au - AA24 Au - GRA22 ME-MS61
 ME-OG62 PUL - 31 PUL - QC



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Account: **ROCKHA**

CERTIFICATE WH14152224

Project: Kluane

This report is for 1 Rock sample submitted to our lab in Whitehorse, YT, Canada on 2-OCT-2014.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

JARED TARSWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
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
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	

To: **ROCKHAVEN RESOURCES LTD.**
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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 WH14152224

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA24 Au ppm 0.005	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
M896386		1.04	0.148	0.05	1.60	119.5	170	0.30	0.25	0.14	0.03	6.57	3.8	44	0.23	15.4



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CERTIFICATE OF ANALYSIS WH14152224

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
M896386		0.92	3.26	0.05	<0.1	0.012	0.27	3.1	6.6	0.21	159	0.93	0.40	1.4	8.3



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CERTIFICATE OF ANALYSIS WH14152224

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 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
M896386		3.8	8.4	0.002	0.01	0.30	2.8	<1	0.3	50.4	0.12	0.08	1.0	0.075	0.04	0.3



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CERTIFICATE OF ANALYSIS WH14152224

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
M896386		28	0.5	1.6	16	0.7



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CERTIFICATE OF ANALYSIS WH14152224

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.
CRU - 31 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 ME - MS61

