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ASSESSMENT REPORT

describing

GEOLOGIC MAPPING, SOIL GEOCHEMISTRY, CLAIM STAKING AND HAND TRENCHING

Performed between August 19-27, 2020

at the

KLUANE PROPERTY

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

in the

Whitehorse Mining District
Yukon Territory

Arc 1-74	YD09459-YD09532	Malou 7-14	YB37727-YB37734
Delor 1-10	YB37735-YB37744	15-20	YB38136-YB38141
11-24	YB38302-YB38315	21-26	YB38218-YB38223
25-48	YB47116-YB47139	27-40	YB38316-YB38329
49-129	YB54418-YB54498	41-52	YB47140-YB47151
130-135	YE66361-YE66366	Shut 1-4	YF44840-YF44843
Malou 1-6	YB35901-YB35906	Shut 5	YB38330

prepared by

Archer, Cathro & Associates (1981) Limited

For

STRATEGIC METALS LTD.

by

Steve Israel, B.Sc., M.Sc., Ph.D.
December 2020

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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 wholly owned by Strategic Metals Ltd., the Shut 5, Delor and Malou claims are 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 summarizes field work performed over nine days in August 2020. The author participated in the field work and has interpreted all resulting data. His Statement of Qualifications is in Appendix I. A Statement of Expenditures is located in Appendix II. In addition to the fieldwork completed in 2020, four claims (Shut 1-4) were staked.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Kluane property is an amalgamation of 279 contiguous Arc, Delor, Malou, Shut and Wasp claims, which are located on NTS map sheet 115H/4, at latitude 61°12'N and longitude 137°45'W (Figure 1). The property 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 Strategic Metals. Claim registration data are listed below while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	New Expiry*
ARC 1-33	YD09459-YD09491	Mar 10, 2024
ARC 34	YD09492	Mar 10, 2025
ARC 35	YD09493	Mar 10, 2024
ARC 36	YD09494	Mar 10, 2025
ARC 37	YD09495	Mar 10, 2024
ARC 38	YD09496	Mar 10, 2025
ARC 39	YD09497	Mar 10, 2024
ARC 40	YD09498	Mar 10, 2025
ARC 41-46	YD09499-YD09504	Mar 10, 2024
ARC 47	YD09505	Mar 10, 2025
ARC 48	YD09506	Mar 10, 2024
ARC 49	YD09507	Mar 10, 2025
ARC 50	YD09508	Mar 10, 2024
ARC 51	YD09509	Mar 10, 2025
ARC 52	YD09510	Mar 10, 2024
ARC 53	YD09511	Mar 10, 2025
ARC 54-74	YD09512-YD09532	Mar 10, 2024
DELOR 1-10	YB37735-YB37744	Mar 10, 2025
DELOR 11-24	YB38302-YB38315	Mar 10, 2024
DELOR 25-48	YB47116-YB47139	Mar 10, 2025
DELOR 49-102	YB54418-YB54471	Mar 10, 2024
DELOR 103-116	YB54472-YB54485	Mar 10, 2025
DELOR 117-125	YB54486-YB54494	Mar 10, 2024
DELOR 126-129	YB54495-YB54498	Mar 10, 2025
DELOR 130-135	YE66361-YE66366	Mar 10, 2024
MALOU 1-6	YB35901-YB35906	Mar 10, 2025
MALOU 7-14	YB37727-YB37734	Mar 10, 2024
MALOU 15-20	YB38136-YB38141	Mar 10, 2025
MALOU 21	YB38218	Mar 10, 2024

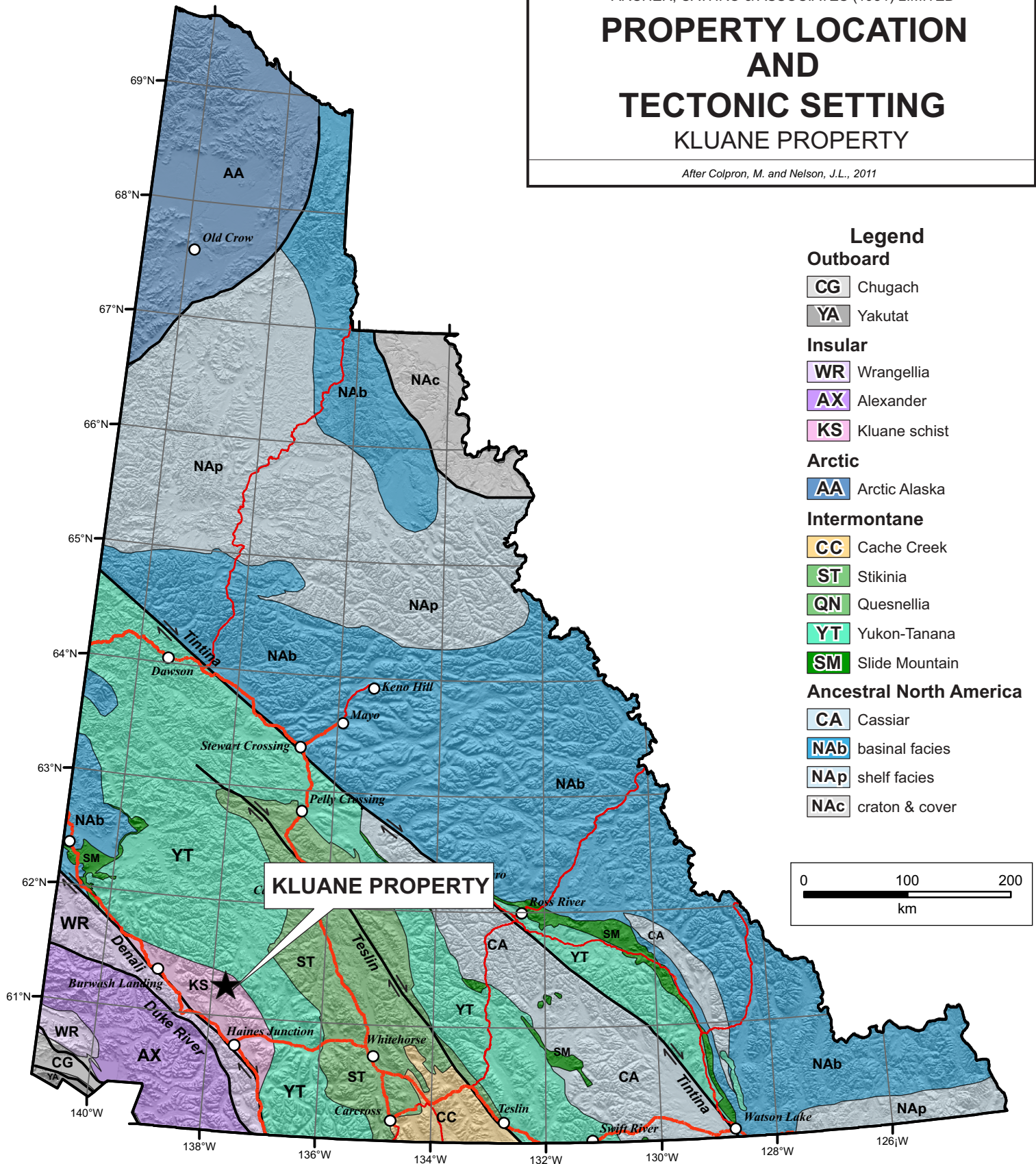
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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION AND TECTONIC SETTING KLUANE PROPERTY

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



MALOU 22	YB38219	Mar 10, 2025
MALOU 23	YB38220	Mar 10, 2024
MALOU 24	YB38221	Mar 10, 2025
MALOU 25	YB38222	Mar 10, 2024
MALOU 26	YB38223	Mar 10, 2025
MALOU 27	YB38316	Mar 10, 2024
MALOU 28	YB38317	Mar 10, 2025
MALOU 29	YB38318	Mar 10, 2024
MALOU 30	YB38319	Mar 10, 2025
MALOU 31	YB38320	Mar 10, 2024
MALOU 32-38	YB38321-YB38327	Mar 10, 2025
MALOU 39	YB38328	Mar 10, 2024
MALOU 40	YB38329	Mar 10, 2025
MALOU 41-52	YB47140-YB47151	Mar 10, 2024
SHUT 1-4	YF44840-YF44843	Mar 10, 2025
SHUT 5	YB38330	Mar 10, 2024
WASP 47-50	YD09447-YD09450	Mar 10, 2025
WASP 51-58	YD09451-YD09458	Mar 10, 2024

* Expiry dates include 2020 work which has been filed for assessment credit, but has not yet been accepted.

The Kluane property lies approximately 148 km west-northwest of Whitehorse and 45 km north-northwest 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 property. Main access to the property is by helicopter, usually staging out of the airport at Haines Junction. 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 and have an exploration agreement with Strategic Metals.

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). Mining is still active on these creeks.

Documented hard rock exploration in the Kluane property area began after a Geological Survey of Canada (GSC) stream sediment survey on 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” 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 (UKHM) as four separate blocks of Ruby claims and by independent prospector J.P. Ross as the Spruce, Cliff and Wall claims.

In 1986, Cash performed reconnaissance 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, and performed more reconnaissance contour geochemical sampling and prospecting. 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, UKHM 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. Surprisingly, the Ruby 7-12 claims were allowed to lapse.

In August 1987, DalBianco Exploration Syndicate staked the Lib and Beth claims, and carried out a program of hand trenching on the Lib claims, to test beneath mineralized talus. Four hand trenches exposed an arsenopyrite-rich quartz-carbonate vein system with a strike length of 50 m, in an area now referred to as the DalBianco Showing (Figure 2). 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.

In September 1987, Ross staked a large block of Arc claims, three kilometres northeast of the Shut property.

In March 1988, DalBianco Exploration Syndicate optioned its Lib and Beth claims to Cash. In June that same year, Cash optioned the Lib, Beth and Shut claims to Pezgold Resource Corp. Exploration by Pezgold in 1988 consisted of grid soil geochemical sampling and prospecting on the Lib and Shut claims. This work outlined coincident north-trending gold and arsenic anomalies on both properties and located more arsenopyrite-rich veins at the DalBianco Showing. In July 1988, Pezgold staked the Angus and Topgun claims to provide additional coverage around the anomalies on the Shut and Lib claim blocks (Main, 1988). The Lib, Beth, and Topgun claims were subsequently allowed to lapse.

Also in 1988, Ross staked the Stroker claims contiguously to the east of the Arc claim block, and additional Cliff claims on the east side of Killermun Lake. Prospecting on the Arc claims discovered quartz-carbonate vein float that assayed 86 g/t gold (Main, 1988).

In 1989, Ross optioned the Arc and Stroker claims to Noranda Exploration Co. Ltd., which performed geological mapping, soil sampling and geophysical surveys. Soil sampling performed by Noranda outlined widespread arsenic anomalies and scattered elevated gold values, but 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, which it added to its Shut and Angus claim blocks to form the Ruby Range property.

In fall 1994, Cash optioned the Arc and Stroker claims from Ross, and added these claims to its Ruby Range property.

In spring 1995, NDU Resources Ltd. optioned the Ruby Range property from Cash. That summer, NDU performed claim staking, geological mapping, 934 m of excavator trenching, 31.6 line km of 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 the 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, which were all interpreted to be caused by weak, 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 Resources Ltd. 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 Resources 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).

In January 2010, the Arc 1 to 74 and Wasp 47 to 58 claims were staked by Rockhaven Resources. Later that year, Cash changed its name to Pitchblack Resources Ltd.

In late 2011, Rockhaven Resources 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.

In 2014, Rockhaven Resources staked an additional six claims (Delor 130 to 135), and performed prospecting, soil sampling, and hand trenching on the property. The 2014 program focused on expanding soil sample coverage and re-evaluating historical hand trenches and mineralized float occurrences. The best result from the 2014 program came from the Delor Showing where a rock sample assayed 225 g/t gold (Burrell, 2014).

In October 2015, ownership of the Kluane property was transferred to Strategic Metals from Rockhaven Resources, as part of a larger property exchange agreement.

In the summer of 2019, Strategic Metals acquired Lidar survey data that encompassed the entire Kluane property.

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 connects to the Pacific Ocean via the Alsek River.

Topography in much of the area is strongly influenced by Pleistocene to recent valley and alpine glaciation. As a result, the Kluane area is characterized by gently undulating uplands cut by broad, north trending U-shaped valleys, which are flanked by hanging valleys that terminate 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 slide alder. Alpine grasses and lichen covered rocks predominate at higher elevations.

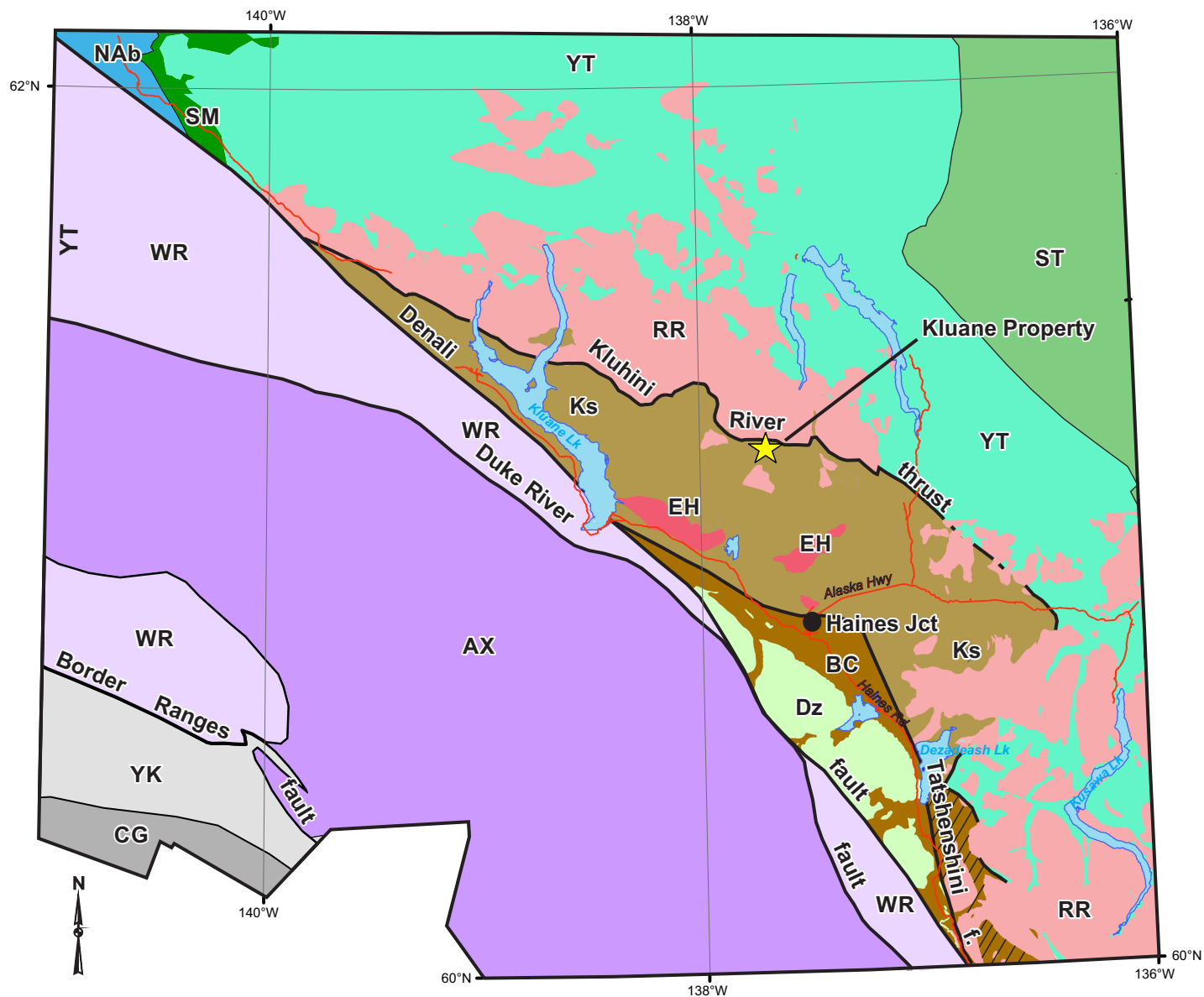
Bedrock exposures are rare on the valley floors, due to a blanket of glaciofluvial outwash and till. Lower slopes are generally covered by lateral moraines up to 1500 m thick and bedrock is only seen where creeks have made deep incisions through this material. Relief between 1500 and 1800 m is moderate to steep with open talus slopes and outcrops 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 on the property is poor.

REGIONAL GEOLOGY

The Kluane property lies within a mixed tectonic block that is bounded by two major transcurrent faults, the Tintina fault to the northeast and the Denali fault to the southwest (Figure 1). The property is underlain by Late Mesozoic metasedimentary rocks of the informally named Kluane schist and Latest Cretaceous to Eocene igneous rocks of the Ruby Range and Hayden Lakes suites (Figure 3).

North and east, the Kluane schist is separated from the Yukon-Tanana terrane (YTT) across the Klühini River thrust, a Late Cretaceous structure that has mostly been intruded by voluminous bodies of diorite to granodiorite of the Ruby Range suite (Vice, 2017). To the west and southwest the Kluane schist is in fault contact with Paleozoic to Mesozoic rocks of the Insular terranes and various intervening slivers of metavolcanic and metasedimentary rocks of unclear origin (Israel et al., 2010; Israel et al., 2013). This structural contact is defined by the Denali fault, a large-scale transcurrent fault system with as much as 450 km of Latest Cretaceous to Tertiary, right-lateral offset (Murphy, 2018). To the south the continuation of the Kluane schist is not well constrained. The schist may be structurally interleaved with, or laterally grade into, Jurassic to Early Cretaceous metasedimentary rocks of the Vand Creek and/or Blanchard River assemblages (Vice, 2017).

The YTT, in southwest Yukon, is characterized by Late Proterozoic to Devonian quartz-muscovite schist, quartzite and marble of the Snowcap assemblage and mafic metavolcanic rocks, metapelitic rocks and marbles of the Finlayson assemblage. These rocks, together with



Outboard terranes

- YK** Yakutat terrane
- CG** Chugach terrane

Insular terranes

- WR** Wrangellia
- AX** Alexander terrane

Intermontane terranes

- YT** Yukon-Tanana terrane
- ST** Stikine terrane

Overlap assemblages

- RR** Ruby Range suite
- EH** Hayden Lake suite
- Dz** Dezadeash Formation
- Ks** Kluane schist
- BL** Blanchard River assemblage

Terrane affinity unknown

- BC** Bear Creek assemblage

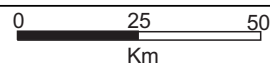
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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SOUTHWEST YUKON TECTONICS

KLUANE PROPERTY



DATE: DECEMBER 2020

the Stikine terrane in British Columbia formed much of the North American margin during the latter half of Mesozoic (Nelson et al., 2013). Deformation and metamorphism of the YTT occurred sporadically during the Permian to mid-Cretaceous and resulted in amphibolite facies grade rocks and a regional transposition foliation (Staples et al., 2016).

The Kluane schist consists of a fairly monotonous package of interleaved biotite-quartz schist, muscovite-quartz schist and rare lenses of altered and strongly deformed ultramafic rock and marble. Metamorphic grade reaches upper greenschist with local zones of amphibolite. A mappable unit of paragneiss is included in the Kluane schist and is found near the structural contact with the overlying YTT. The paragneiss is believed to be the higher-grade equivalent of the biotite-quartz schist that has undergone partial migmatization during burial and intrusion of the earliest phases of the Ruby Range suite.

The Kluane schist has been interpreted as forming as a forearc basin, outboard of the North American margin during the Jurassic to Late Cretaceous (Israel et al., 2010). Detritus from the exhuming YTT was shed into the basin, along with eroding volcanic rocks and mid-Cretaceous intrusions formed during subduction-related magmatism. A limited number of samples analyzed for detrital zircon geochronology suggest a depositional age for a portion of the schist of ~95 Ma indicating that the basin was actively receiving input by at least the mid-Cretaceous (Israel et al., 2010). At least three phases of ductile deformation have been observed within the Kluane schist (Stanley, 2012). The general structural grain is defined by a northwest-striking, northeast dipping transposition foliation that was formed during Late Cretaceous southwest directed thrusting of YTT over the Kluane schist. This occurred during the latter stages of subduction, as the arc (Ruby Range suite) and its crustal underpinnings overrode their own forearc deposits (the Kluane schist). Southwest directed overturned, isoclinal folds associated with this compressional event are found throughout the region. Peak metamorphism within the Kluane schist occurred at ca. 82 Ma, reached a maximum temperature and pressure of 7 kb and 500-700°C which is thought to be related to crustal thickening related to thrusting (Mezger et al., 2001; Vice, 2017). Thrusting continued to at least Latest Cretaceous (~65 Ma) and possibly younger, shown by the foliated nature of the early phases of the Ruby Range suite that intrudes along the Klühini River thrust (Israel et al., 2010; Vice 2017). Subsequent deformation is characterized by broad tight to open, shallowly southeast plunging folds and through going oblique brittle/ductile faults that cross-cut earlier formed ductile fabrics.

The Kluane schist and the YTT are intruded by magmas of the Ruby Range and Hayden Lakes suites (Figure 3). The Ruby Range suite ranges in age from ca 65 Ma to 52 Ma and consists of biotite granodiorite and hornblende quartz-diorite (Israel et al., 2010). The Ruby Range suite forms a large batholith that straddles the contact between the Kluane schist and the YTT. The oldest phase of the suite is foliated to gneissic in texture and intrudes along the structural contact between the schist and YTT rocks. Younger phase are massive and cross-cut all ductile fabrics. The Hayden Lakes suite is comprised of several isolated plutons found almost entirely within the Kluane schist. The suite ranges in age from ca 48 Ma to 45 Ma, but is not very well dated and may overlap with the youngest phases of the Ruby Range suite (Israel et al., 2010). The Hayden Lakes suite is characterized by a range of compositions from two mica granites to diorite. Garnet is found locally within the granite.

PROPERTY GEOLOGY

Systematic geological mapping on the property is hindered by a lack of bedrock exposures. In most areas, contacts are inferred from the distribution of lithologies in talus and felsenmeer (Figure 4). However, there are areas where exposure is quite good, usually on steep slopes at higher elevations where glaciers have cut into the bedrock. In these areas it is possible to distinguish lithologic and structural characteristics.

Lithology

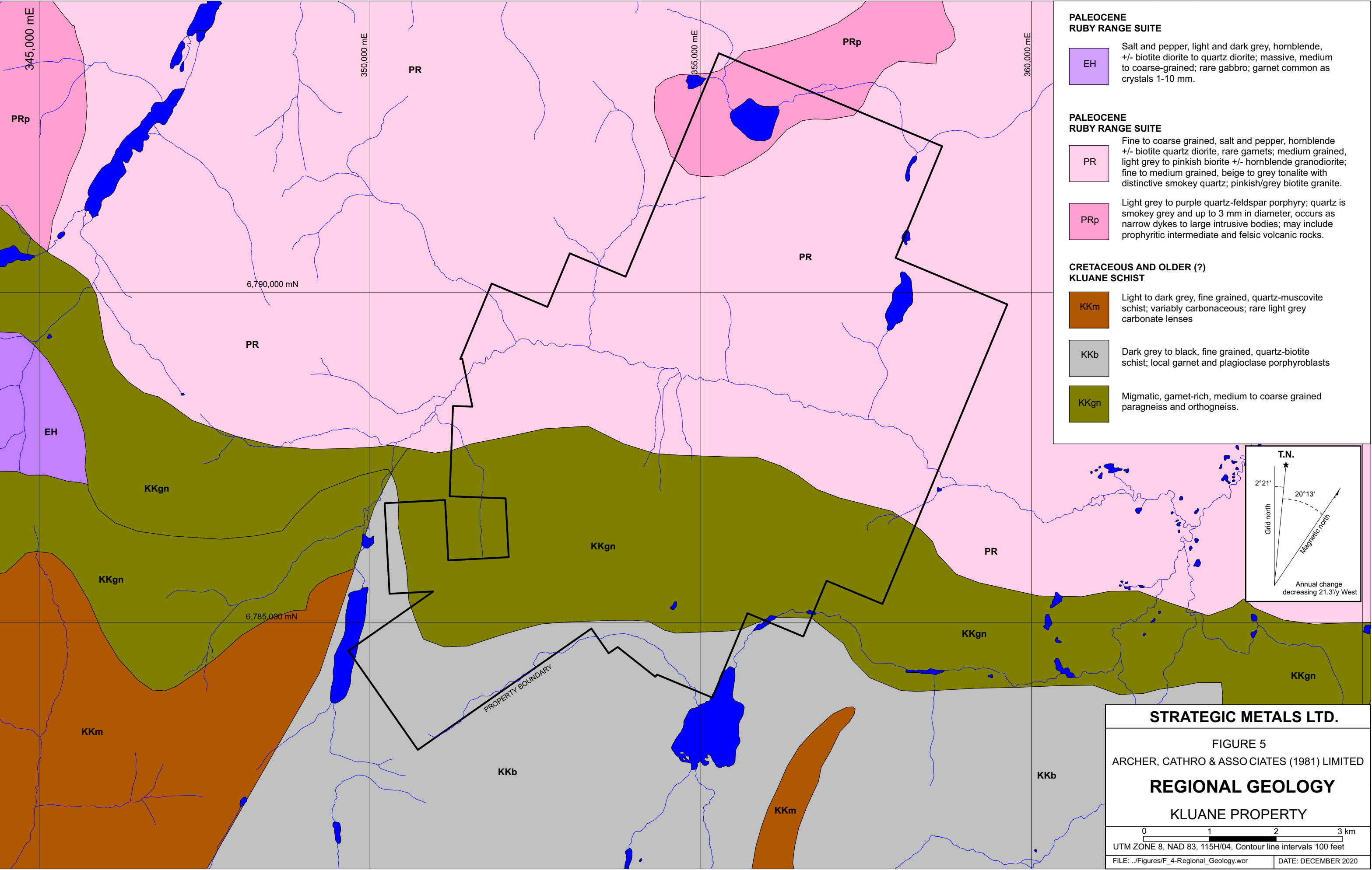
Three main rock types underlie the Kluane property; 1) biotite-quartz schist of the Kluane schist; 2) migmatitic paragneiss of the Kluane schist; and 3) granodiorite to quartz-diorite of the Ruby Range suite (Figure 5). Minor marble and calc-silicate rocks and late stage andesitic to mafic dykes are also found throughout the areas.

In the southernmost portion of the claim block, dark grey to black biotite-quartz schist dominates. The schist often forms blocky outcrops that locally weather a brown-orange colour along fractures and joints. Biotite and quartz are the main minerals with layers of biotite forming the main foliation surfaces. Minor amounts of garnet and staurolite are found as accessory minerals. White to slightly rusty, quartz veins of varying widths are ubiquitous in the schist. Many of these veins are laterally discontinuous and they often have sigmoidal or lozenge shapes. Structurally overlying the schist is a relatively thick package of dark-grey to black and orange weathered migmatitic paragneiss. The paragneiss is characterized by biotite and quartz layers separated by more leucocratic layers comprised of feldspar and quartz. The leucocratic layers appear to be injected melts that may be derived by local partial melting or by melts sourced by intrusions that have migrated along foliation planes.



Figure 4 – Typical outcrop exposure and felsenmeer field

Marble and calc-silicate lenses with rare skarn zones are found within the gneiss and schist on the east-facing slope above Killermun Lake, in the southeastern part of the property. Exposures



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FIGURE 5
ARCHER, CATHRO & ASSO CIATES (1981) LIMITED

REGIONAL GEOLOGY
KLUANE PROPERTY

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

FILE: ../Figures/F_4-Regional_Geology.wor DATE: DECEMBER 2020

of marble and calc-silicate rocks are typically white to pale green on both weathered and fresh surfaces and display weak silicification. Skarns consist of medium to coarse-grained garnet and diopside. The marbles and calc-silicate rocks can often be rusty weathering and difficult to distinguish from the surrounding schist.

The northern half of the property is comprised of coarse- to medium-grained, biotite, granodiorite and hornblende +/- biotite, quartz-diorite of the Ruby Range suite. These rocks generally weather a light grey to white and are locally feldspar porphyritic. Smokey grey quartz grains are common in the granodiorite and less so in the quartz-diorite. The granitic rocks are unfoliated and cross-cut all ductile fabrics found in the Kluane schist except for a strongly foliated border phase that is sporadically observed in outcrop near the boundary with the paragneiss. Foliation in the border phase parallels those found in the Kluane schist and has been attributed to syn-deformation intrusion of the earliest phases of the Ruby Range suite (Israel et al., 2010). Several small bodies of granodiorite and quartz-diorite are also found throughout the southern half of the property (Figure 5). Most of these bodies are post ductile deformation but have been deformed by later brittle faults and fracture sets. A U/Pb age of 55.8 Ma age was obtained from zircon from a sample collected of the main phase of the Ruby Range found just outside the northern portion of the property.

Several unfoliated dykes have been noted in several areas on the property, where they cut across structures developed within the schist and gneiss. The dykes are up to one metre wide and are best distinguished by grain size. One set of dykes is andesitic in composition, 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. One of these dykes, from the central part of the property, has been dated at 55.3 Ma suggesting they are contemporaneous with the main phase of the Ruby Range suite.

Structure

The Kluane schist is polydeformed with structures related to at least two substantial regional tectonic events. The first involved the southwest directed (today's coordinates) thrusting of the YTT over the Kluane schist. This resulted in the formation of a transposition foliation, northwest striking, northeast dipping thrust faults and at least two phases of folding. The second event was regional strike-slip deformation related to the Denali fault resulting in the formation of several large steeply dipping faults and smaller associated structures.

Thrust faults associated with early stage deformation are difficult to identify in the field, the exception being the large, regional scale Klühini River thrust that defines the structural contact between the YTT and the Kluane schist. Other thrusts are internal to the Kluane schist and juxtapose similar looking rocks.

The first phase of folding, related to thrusting, is isoclinal and overturned towards the southwest, characterized by recumbent folds with disrupted lower limbs, overthickened hinge zones and thinned and pinched-out limbs. These folds generally have gently northwest and southeast plunging axes. Progressive deformation led to the tightening and dismembering of these early

stage folds resulting in intrafolial folds that are laterally discontinuous. Re-folding of earlier folds formed a second phase of folds that are coaxial to the earlier phase. A final, late-stage phase of folding resulted in upright, open folding of early foliations and associated folds about gently southeast plunging fold axes. These folds are observed throughout the Kluane schist and are either associated with the very latest stages of regional compression, or formed during transpressional/transtentional strike-slip deformation in the Tertiary.

Latest Cretaceous to Tertiary dextral strike-slip faulting occurred along the Denali fault and was accompanied by several brittle/ductile structures formed throughout the Kluane schist. The lack of outcrop and monotonous nature of the schist make these structures difficult to identify, yet several geophysical features clearly show some dismemberment at the regional scale. It is likely that exhumation of the Kluane schist was in part related to faulting during this time.

2020 Mapping

Mapping during the 2020 field season focused on the Rikus zone and the DalBianco showing including the steep east facing cliffs between the two areas (Figure 6). As with the much of the property, the area covered by the 2020 program is underlain by quartz-biotite schist of the Kluane schist. The schist is medium to dark grey, characterized by thin quartz-rich layers separated by biotite layers up to several centimeters thick. Minor, structurally interleaved layers of migmatitic paragneiss were observed in several localities but are not nearly as much as depicted on regional geological maps. Along the topographic high within the DalBianco showing, several outcrops define a thick package of interlayered marble and calc-silicate. The marble and calc-silicate weather a light grey to pale green, are generally fine-grained and are strongly foliated. Several bodies of undeformed medium-grained granodiorite and quartz-diorite are found near the DalBianco showing. These intrusions are part of the Ruby Range suite and cut across all ductile structural features. The intrusions are themselves cut by late brittle fractures and faults. Minor skarning occurs in the DalBianco area at the contact between one of these intrusive bodies and the marble and calc-silicate package. No intrusions were observed within the Rikus zone outside of a number of closely spaced plagioclase porphyritic, andesitic dykes up to several meters thick.

Structurally, the area of focus in 2020, is fairly typical of the Kluane schist as a whole. Early, tight to isoclinal southwest verging folds are ubiquitous and early-stage northwest striking northeast dipping foliations dominate. These foliations change their orientation from the northern portion of the field area to the southern portion defining a southeasterly plunging late fold axes (Figure 6).

Analysis of airphotos and Lidar images, and ground mapping have recognized numerous small north- and northeast-trending recessive topographic linears on the property. Where exposed in outcrops and 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. Similarly, several very well-formed joint sets were observed during mapping, many of which are also parallel to the main topographic linears. Andesitic dykes within the Rikus zone intrude along one of the dominant joint sets, suggesting the formation of the joints occurred prior to, or during the time of intrusion of the dykes.

Several sets of veins have been identified on the property. The most common set are quartz-carbonate veins that are conformable to foliation. Many of these veins are folded, laterally discontinuous and pinch and swell along strike. A second conformable vein set exhibits a more complex mineral assemblage that typically comprises glassy granular quartz masses 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. Four sets of discordant veins host most of the gold mineralization observed to date. They 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 powdery white residue in cavities; and minor muscovite. Fractures in the veins often include some wall-rock fragments giving the veins a banded appearance. All of these veins cut foliation at a high angle with most having southeast to southerly strikes and moderately to steeply southwest to west dips. A few mineralized veins were observed striking southeast with moderate dips towards the northeast and southwest strikes with moderate to steep northwest dips.

Several faults appear to slightly offset all the vein sets. A good example of these faults is found in the eastern part of the property, where an unmineralized fault crosses the Rikus Zone. This fault strikes northwesterly, dips steeply and has produced about 25 m of apparent dextral offset. Several other structures were observed in the area generally having northeast to northwest strikes and steep dips. Kinematics and timing of these faults are not known, but they appear to postdate both intrusion of the Ruby Range suite and formation of mineralized quartz veins.

MINERALIZATION

Prospecting, trenching and drilling on the Kluane property have identified nine named showings, and three zones (zones are showings where drilling has confirmed the depth extent of mineralization). Nine of the mineral occurrences – the Rikus, Ross and Malou zones, and the Delor, DalBianco, Sack, Switchback, Shut, and North Shut showings – are located within a 5500 by 3500 m area underlain by Kluane schist in the southern and central parts of the Kluane property (Figure 7). The remaining three showings – the Arc, Slayer and Metallica – are located three kilometres to the north, within the Ruby Range Batholith.

Gold mineralization at all occurrences 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. Tungsten-rich skarn occurrences are found adjacent to veins at the Rikus and DalBianco zones and elsewhere in float. Sulphides are generally one to four millimetres in diameter and occur as disseminations or in semi-massive to massive bands. Rare native gold grains have been observed in oxidized and unoxidized veins. Individual veins range up to 85 cm in width, but they can occur in swarms that are up to 9.5 m across, where sub-parallel veins are separated by narrow gouge zones. A detailed description of each of the mineral occurrences can be found in, Israel (2020), Morton (2015), Burrell (2014) and references therein. Age of mineralization is 57.1 Ma based on Ar/Ar analyses of muscovite from a gold bearing vein at the Rikus Zone (Israel, 2020).

The 2020 field program focused mainly on the Rikus zone with minor mapping and prospecting within the Dalbianco occurrence. 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 wallrock. The two main veins contain massive milky white quartz bands featuring microfractures that parallel the vein-wallrock contacts. The quartz bands range from 8 to 75 cm in width and contain trace to 20% fine-grained arsenopyrite with trace pyrite and rare grains of native gold. At surface, scorodite and limonite replace sulphide minerals. Although the quartz bands are often narrow, they are generally high grade. The veins often contain clay-altered gouge and are commonly flanked by weakly clay-altered halos that are up to two metres wide. Mineralization has been traced over a length of 700 m, and the zone is open to extension along strike to the north and south.

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 intersected one or more mineralized intervals. During the 2020 program the 1995 drill collars were relocated using modern GPS and placed into the NAD 83 UTM Zone 8 coordinate system. Table I shows the drilling highlights from 1995.

In drill core, quartz bands are up to 20 cm thick and contain up to 20% arsenopyrite. Altered wallrocks are bleached and chloritized, and they typically exhibit disseminated fine-grained arsenopyrite and calcite. The degree of alteration is proportional to the degree of fracturing and the abundance of quartz veinlets.

The highest grade intercept was 80.00 g/t gold over 13 cm, which was intersected 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 bands returned a weighted average of 0.93 g/t gold over 1.35 m. The core recovery was poor in some mineralized intervals, and sampling was not done throughout the length of the holes.

In 2002, mapping and sampling suggests that the best mineralized vein intervals occur adjacent to unmineralized cross faults. Immediately west of the northwest-trending cross fault that offsets the Rikus Zone, the vein widens to 75 cm of massive quartz. A chip sample across this exposure assayed 22.40 g/t gold. On the east side of this cross fault, the vein bifurcates into a swarm of sub-parallel, 0.5 to 2 cm veinlets. A chip sample across this vein swarm returned 7.37 g/t gold over 9.5 m. The cross fault is located between holes 95-2 and 95-12, but the holes did not adequately test this part of the structure.

In 2009, confirmation chip sampling was done in four previously dug hand trenches located 25 to 230 m north of the cross fault described in the previous paragraph. The trenches were cleaned, mapped and sampled. Table II lists significant intervals from 2009 trench sampling at the Rikus Zone.

In 2014, chip samples were taken across the surface traces of mineralized quartz veins exposed in two historical hand trenches near hole 95-1. Two chip samples from separate trenches both

returned 51.6 g/t gold, over 28 cm and 30 cm respectively. A specimen sample of quartz vein float collected along strike and to the north of the trenches returned 23.2 g/t gold.

Table I: Significant drill intersections from the Rikus Zone

Hole Number	Coordinates UMTN UTME		Length (m)	Azimuth (°)	Dip (°)	From (m)	To (m)	Width (m)	Uncut Grade Gold (g/t)
95-1	6786459	355595	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	6786380	355716	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	6786380	355716	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	6786579	355624	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	6786663	355662	134.72	090	-50	48.46	50.44	1.98	1.69
95-12	6786264	355680	145.39	090	-50	32.38	33.57	1.19	4.56
						32.38	32.57	0.19	29.19
						68.05	69.15	1.10	1.49
						69.05	69.15	0.10	10.60
						71.69	72.89	1.20	1.87
						71.69	71.89	0.20	9.26
95-13	6786470	355692	224.64	090	-50	99.27	100.44	1.17	2.01
						150.47	154.54	4.07	1.95
						150.47	151.47	1.00	4.69
95-14	6786577	355670	156.36	090	-60	72.11	74.25	2.14	1.63
						142.64	144.12	1.48	3.06

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

In 2020, additional prospecting and hand trenching were done within the Rikus Zone. A total of 24 rock samples were taken from outcrop and hand trenches. Descriptions of samples and assay values can be found in Appendix III. All rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals laboratories in Whitehorse, Yukon and North Vancouver, BC, respectively. Each sample was dried, fine crushed to better than 70% passing 2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns. The fine fraction was analyzed for 48 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analyzed for gold by fire assay followed by atomic absorption spectroscopy (Au-AA24) followed by a 50 g gravimetric finish for any sample over 10 g/t gold.

Hand trenching focused on a north trending linear identified in Lidar images (Figure 6). Unfortunately, none of the hand trenches dug across the linear managed to reach bedrock; however, one strongly mineralized cobble of quartz vein with disseminated and seams of arsenopyrite from 20KTR-1 returned **20.3 g/t gold** and **1.39 g/t silver**. Trenching of this particular linear was abandoned and another trench was dug roughly 90 m towards the northeast along a different linear (Figure 6). Here, 20TR-4 was excavated for a length of 10 m along a zone characterized by a quartz vein and quartz stringers developed within variably altered and oxidized quartz-biotite schist (Figure 8). The quartz vein pinches and swells along the length of the trench ranging in width from less than 10 cm up to 90 cm. The vein material is characterized by white quartz with patches of disseminated to blebby arsenopyrite, locally becoming semi-massive. Wall rock fragments are common within the vein, often forming highly oxidized bands parallel to vein-schist contact. Several composite chip samples were taken across the exposed length of the vein. The highest grade interval assayed **6.97 g/t gold over 0.15 m**. The widest intervals returned values of **4.12 g/t gold over 0.75 m**, **2.57 g/t gold over 0.70 m** and **1.87 g/t gold over 0.90 m**. The projections of vein are buried under large boulders and scree that could not be moved by hand, at both ends. The linear associated with this new occurrence can be traced on Lidar images for several hundred metres.

20KTR - 4

030

1 m
1:25 scale

- Quartz-biotite schist
- Quartz +/- calcite vein
- (1.2) g/t gold
- S052418 Sample Number

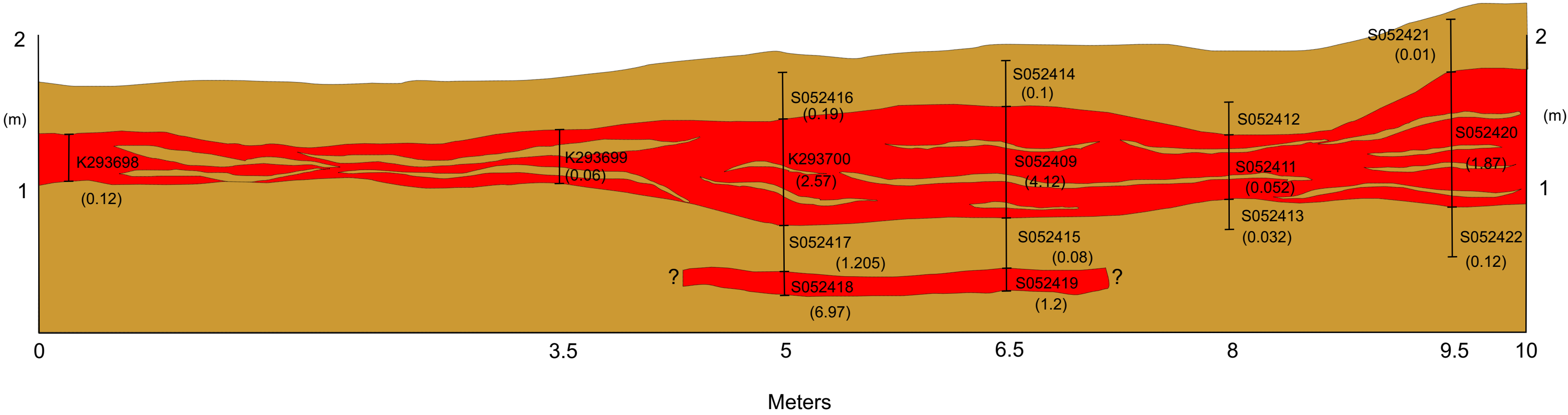


Figure 8. Schematic drawing of hand trench 20KTR-4 showing distribution of rock types and chip sample locations and intervals.

Prospecting of the Rikus Zone during bedrock mapping uncovered several areas of interest that require follow-up. A 30 cm wide mineralized quartz vein was found ~15 m north of trench 20KTR-4 (Figure 6). This vein is characterized by white and grey banded quartz with disseminated and stringers of arsenopyrite. The vein strikes northwest with a moderate dip to the northeast and fingers out into the surrounding schist at one end and is lost under talus at the other end. A chip sample across the vein returned **21.1 g/t gold and 3.61 g/t silver over 25 cm**. About 250 m northwest of this sample, a topographic linear developed within quartz-biotite schist contains abundant subcrop of banded white and grey quartz vein (Figure 6). A grab sample of the quartz vein material assayed **71.2 g/t gold with 5.09 g/t silver**. A chip sample was not taken because the vein material was not in place; however, this material has not moved far and trenching should be able to reach bedrock.

A closely spaced vein array forming a network of anastomosing quartz veins between 1 cm and 10 cm is found near the main vein running through Rikus Zone (Figure 6). The array occurs in the area where the vein is cross-cut by a late brittle fault and was sampled in 2002. The entire zone is roughly 9 m wide, with the amount of veins and veinlets varying over this width. In 2020, this area was partially resampled and a chip sample returned **14.25 g/t gold over 1.2 m**. The orientation of the vein array is roughly 344/85, which is at a fairly high angle to the main vein running through the area (~158/40). See Conclusions and Recommendations for more details on this zone.

The **DalBianco Showing** is located 1000 m southwest of the Rikus Zone. No drilling has been done at this occurrence, but hand trenching was performed at various times between 1987 and 2009. The DalBianco Showing comprises three sub-parallel veins, about 100 m apart, which have been traced for 350 m along strike. The veins consist of barren to moderately mineralized quartz-carbonate gangue flanked by one to three metre wide, weakly silicified and rusty alteration halos that host minor disseminated arsenopyrite. Mineralization within the quartz-carbonate occurs as 5 to 35 cm wide bands of coarse grained arsenopyrite. Chip samples of arsenopyrite-rich quartz-carbonate assayed up to 41.07 g/t gold across 15 cm, but most returned less than 9 g/t gold. Gold assays from the weakly mineralized halos normally returned between 0.20 and 1.00 g/t, but yielded up to 2.26 g/t (Wengyznowski, 1995). Gold to arsenic ratios in this showing are the lowest on the property.

SOIL GEOCHEMISTRY

Between 40 and 50% of the property has been covered by soil surveys, the majority of which occur over and adjacent to known zones or showings and exhibit several linear trends of high gold and arsenic values (Figures 9 and 10 respectively). In almost all cases there is a moderately strong spatial relationship between arsenic and gold; however, there are areas where gold values are higher relative to arsenic values and vis versa. Gold-in-soil also has a moderate correlation with bismuth, which is consistent with data from rock samples. Tellurium was not analyzed for in the soils so no direct comparison can be made to rock sample data where a positive correlation was indicated.

In 2020, 284 soil samples were collected. Soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and

affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 5 to 75 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Anomalous thresholds and peak values for gold and arsenic are listed in Table III. Soil Sample Descriptions and Assay Certificates are located in Appendix IV.

Historical soil sampling has identified a 2700 by 500 m wide, northeast-trending gold- and arsenic-in-soil anomaly that encompasses the **DalBianco Showing** and the **Rikus Zone**. In 2020 two additional grids were sampled: one on a steep slope northeast of the Rikus Zone and the other over top of the Sack Showing in the valley bottom east of the Rikus Zone (Figures 9 and 10).

The Rikus Zone grid comprises four northeast trending lines spaced 100 m apart with samples taken every 50 m along the lines. A fifth line was planned but it was abandoned due to the steepness of the terrain coupled with high amounts of precipitation, which made the work conditions unsafe. A large (~300 x 100 m), coincident gold and arsenic anomaly was identified within the 2020 Rikus grid. This anomaly overlaps an area of known mineralization and significantly extends the previously defined, northeast trending anomaly at the Rikus Zone. One sample located on the topographically highest line, northeast of the main anomalous trend, returned 1.52 g/t gold-in-soil. This sample was taken in an area with limited outcrop, well away from the main mineralized areas in the Rikus Zone. Similarly, several samples collected toward the northeast end of the grid returned very strongly anomalous gold values (0.1 to 0.3 g/t) in an area that is well vegetated and contains little outcrop.

The second grid over the Sack Showing consists of six, orientated east-west lines spaced 200 m apart, with samples taken every 50 m along the lines (Figures 9 and 10). Overburden was quite thick in some places and in some locations was completely saturated with water, which made sampling difficult. Sporadic moderately to strongly anomalous gold values were found throughout the grid, but they showed little pattern (Figure 9). Very strongly to strongly anomalous values for arsenic are found in the eastern portion of the grid (Figure 10). This area is underlain by several topographic linears that were identified in Lidar images. There is little overlap between anomalous gold and arsenic values, possibly because this area was heavily glaciated and arsenic is more mobile than gold.

Table III: Anomalous Thresholds and Peak Values for Gold and Arsenic Soil Geochem

Element	Anomalous Thresholds				Peak Values
	Weak	Moderate	Strong	Very Strong	Historical
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50 < 100$	≥ 100	3,284
Arsenic (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500 < 1000$	≥ 1000	7,350

LIDAR SURVEYS

In the summer of 2019 a Lidar survey was completed over the entire Kluane property. The Lidar images have been extremely useful for picking out aspects of the geology that would otherwise not be visible because of the limited outcrop. All documented vein occurrences are located within or near recessive linears which are easily observed on the Lidar images. Clusters of topographic linears were identified around several of the known showings (Figures 9 and 10; Israel, 2020). The linears are dominantly northeast to north striking except in the northern portion of the property (underlain by intrusions of the Ruby Range suite), where they are mostly northwest striking with only localized northeast strikes.

Not surprisingly, many of the linear trends observed within the Lidar dataset correspond to high gold and arsenic soil geochemical trends (Figures 9 and 10). This is especially notable in the DalBianco and Rikus zones where a well-defined northeast striking linear, located near a ridge crest that joins the two zones, coincides with very strong gold-in-soil values. Also, in both the DelBianco and Rikus zones, the north and northeast striking linears correspond with known vein occurrences described previously by Wengzynowski (1995).

DISCUSSION

Regional Correlations and Implications for Mineralization

The Kluane schist is part of a belt of Jurassic to Cretaceous basinal rocks that is found within Alaska, through Yukon and into British Columbia. This belt of rocks includes: the McLaren schist, Kahiltina and Nutzotin assemblages (East Central Alaska); Gravina assemblage (SE Alaska); Kluane schist, Dezadeash Formation and Vand Creek and Blanchard River assemblages (Yukon); and, Tyaughton and Methow basins (British Columbia). These sedimentary assemblages record the development and subsequent closure of marine basins initially formed between the Intermontane and Insular terranes. The final closure of these basins in the Late Cretaceous led to the formation of compressional faults, metamorphism of the overthickened crust and intrusion of Late Cretaceous to Paleocene granitic rocks. Post-Late Cretaceous orogen parallel dextral displacement along the Denali and other faults has dissected these basins,

offsetting them along the Cordilleran margin. Former and more current studies have shown that these basins, in part, were once together and formed a series of depocenters that received detritus from both the Intermontane and Insular terranes. Knowing the original tectonic and stratigraphic position of the basins is important in deciphering the type of mineral deposits expected.

In southeast Alaska, the eastern Gravina belt and mid-Cretaceous intrusions of the Coast Belt, host mineralization of the Juneau gold belt (e.g. Kensington, Comet and Jualin). Mining and exploration have occurred in Juneau gold belt for over 100 years with 6.7 Moz of gold mined prior to 1945 and current resource estimates at the Kensington mine of 1.58 Moz (at year end-2014). These vein systems have been interpreted to be associated with deformation and metamorphism following the final closure of the Gravina basin in the Latest Cretaceous to early Tertiary (Miller, 1995; Goldfarb et al., 2005). Mineralized veins are found within north striking shear zones as well as discrete veins that strike both east-west and northwest (Miller et al., 1995). Shear hosted veins have been associated with west to southwest verging thrust faults (e.g. Sumdum fault) and some of the discrete veins related to late dextral oblique thrusting. Age of mineralization at the Juneau gold camp has been determined to be ca. 55 Ma based on Ar/Ar analyses of muscovite from within gold bearing veins (Miller et al., 1995).

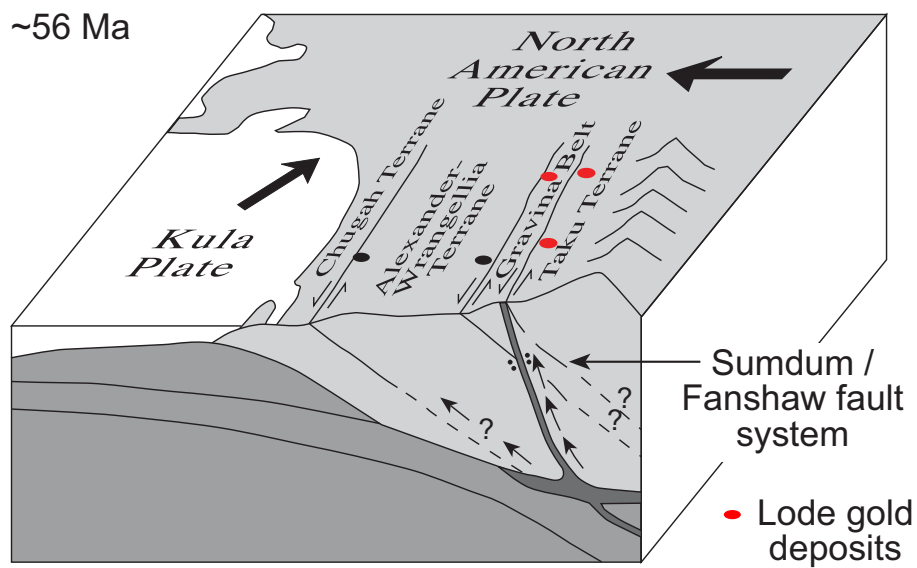
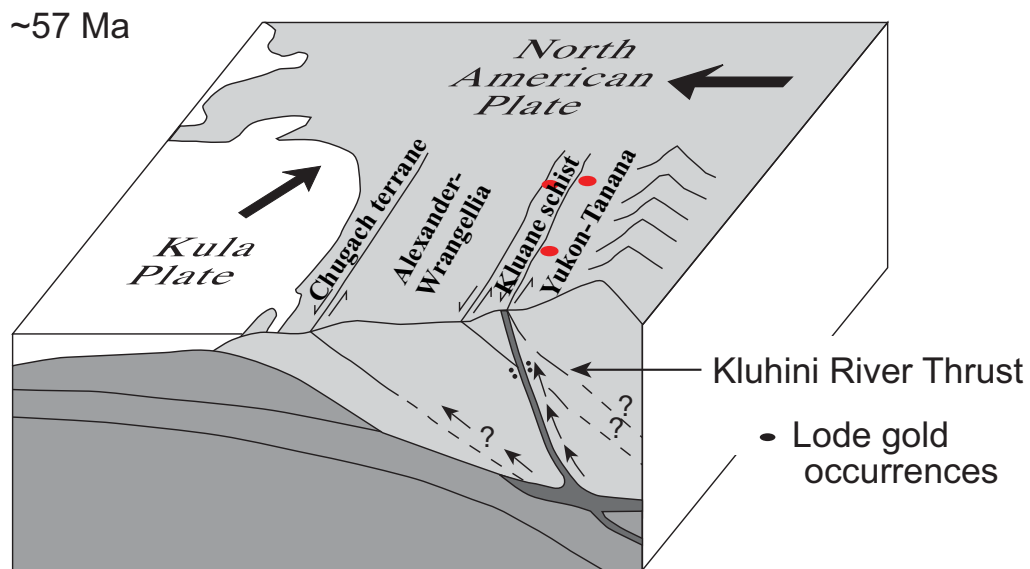
Restoration of the approximately 450 km of right lateral displacement along the Denali fault brings together the rocks of the Kluane schist and the McLaren schist (Murphy, 2018). Several gold occurrences and placer operations are found within the McLaren schist and Kluane schist, indicating that gold mineralization is consistent through the Kluane/McLaren schist belt. Ar/Ar analysis of muscovite from veins in both areas suggests the mineralizing events occurred at nearly the same time (55 Ma vs. 57.1 Ma).

The large-scale tectonic setting, property scale structural character and timing of mineralization are all nearly identical between the Kluane property and the Juneau gold belt (Figure 11). This idea is not new as previous workers have suggested this same correlation (Wengzynowski, 1995; Israel et al., 2010); however, the new data collected by workers from other areas of the Kluane schist and age determination for mineralization solidifies the similarities (e.g. Stanley, 2012; Vice 2017, Israel, 2020).

Deposit Type and Property Potential

The tectonic and depositional setting for the Jurassic to Cretaceous belt of rocks, including the Kluane schist are ideal for the development of orogenic gold systems (Groves et al., 2000). During the orogenic stage of accretionary margins, forearc deposits are accreted and deformed forming the structural pathways and metamorphic conditions needed to generate orogenic gold deposits (Figure 12).

Orogenic gold deposits characteristically comprise moderately to steeply dipping quartz-carbonate veins hosted in a variety of greenschist grade metamorphic rocks. Veins occur in



STRATEGIC METALS LTD.

FIGURE 11

TECTONIC COMPARISON BETWEEN
THE JUNEAU GOLD BELT AND THE
KLUANE PROPERTY

December 2020

Modified from Goldfarb et al., (2005)

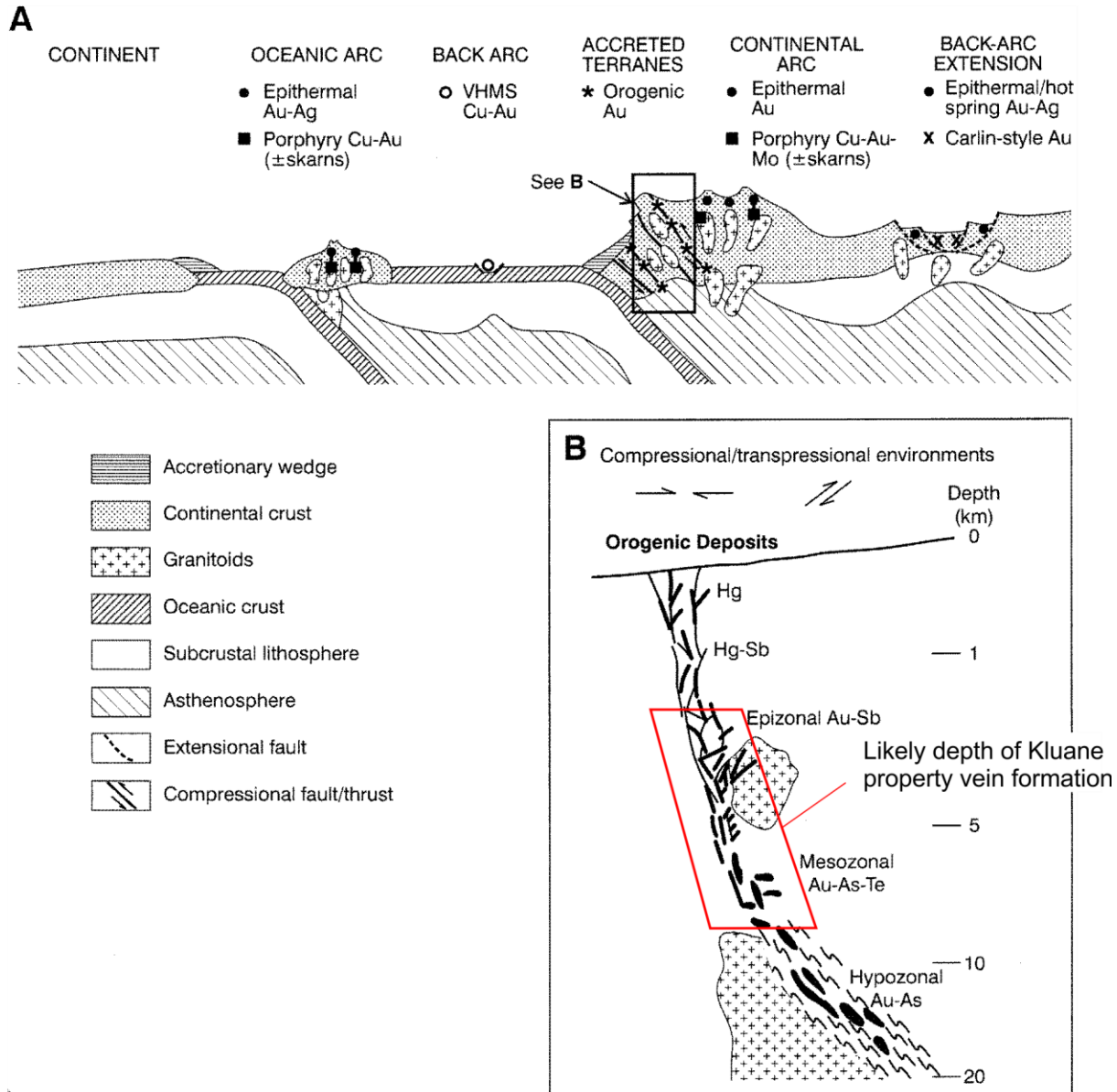


Figure 12. A) Location of mineral deposit formation within accretionary orogens; B) Vertical metal zonation within orogenic gold systems (From Groves et al., 2000).

brittle-ductile shear zones and faults, often with flanking shallow-dipping extensional veins and breccias. Individual veins range from a few centimetres up to five metres in thickness. They have sharp wallrock contacts and commonly exhibit narrow, proximal alteration envelopes of sericite and iron-carbonate. Further away from the veins, alteration is characterized by chlorite, calcite and locally magnetite. Ore minerals generally consist of native gold with lesser pyrite and arsenopyrite, and minor galena, sphalerite, chalcopryrite, molybdenite, pyrrhotite and tellurides (Dubé and Gosselin, 2007).

Chemically orogenic gold deposits are characterized by a vertical zoning of elements with varying amounts of gold (Figure 12). At higher crustal levels enrichment of mercury ± antimony passes downwards into gold + antimony, then gold + arsenic + tellurium and finally gold +

arsenic. This zonation can be useful in targeting and determining the exhumation level of deposits or occurrences. At the Kluane property there is enrichment in arsenic, antimony and tellurium. Mercury was not analyzed; however it is unlikely that the mineralization on the property is high level based upon the metamorphic grade of the rocks.

Because most orogenic deposits are exhumed from deeper levels, a significant amount of material is eroded from the host rocks, and potentially parts of the deposit. This characteristic leads to the deposition of placer gold deposits on the flanks of most orogenic deposits. Examples of this is the Klondike gold fields in Yukon and Alaska where up to 12 Moz of placer gold has been mined. Jurassic orogenic lode gold has recently been discovered in the White Gold district south of the Klondike (Allen et al., 2013). In the vicinity of the Kluane property several creeks are currently being mined or have had a long history of placer production. These include Gladstone, Twelfth of July and Fourth of July creeks.

Although gold mineralization at the Kluane property is almost certainly orogenic in nature, there is some evidence for possible coincident intrusion related mineralization. Chemically there is an enrichment of bismuth along with the arsenic and tellurium. This combination of element enrichment is more associated with reduced intrusion related gold systems (Hart, 2007). Interestingly a geophysical anomaly found in between the DalBianco showing and the Malou and Ross zones shows a magnetic low surrounded by a weak magnetic high (Figure 13), which is more evident in the first vertical derivative of the total magnetic intensity. This is also the area where up to 0.18% tungsten was found adjacent to veins at the DalBianco showing (Wengzynowski, 1995). Tungsten is also known to be associated with reduced intrusion related gold systems.

Intrusions of the Ruby Range suite are known to have porphyry mineralization associated with some phases. Approximately 50 km to the northwest of the Kluane property, the Meloy Cu-Mo porphyry is found within rocks of the Ruby Range. This system is rich in tungsten and gold. It is possible that a similar pluton is buried under the Kluane property and providing some metal-enriched fluids to an already forming orogenic system.

Vein Formation and Geometry

From the available structural information for the Rikus Zone and the DalBianco Showing it is possible to make some interpretation on the geometry and structural framework of the veins in these areas. It is then possible to make some inference regarding ore shoots, extensions of existing veins and potential areas for undiscovered veins.

Although there are seemingly numerous orientations of veins found within the rocks on the Kluane property, if we ignore the clearly metamorphic veins that are pre-mineralization, there are generally four orientations of interest. These include: 1) southeast striking with moderate southwest dips, 2) northwest striking with moderate northeast dips, 3) southwest striking with moderate to steep dips, and, 4) north-northwest striking with steep east-northeast dips (Figure 13). During the 2020 program at least one of each orientation of veins showed some degree of mineralization (e.g. either assayed values of gold or some amount of arsenopyrite observed within). This may indicate that all of these orientations of veins were formed under the same

regional structural conditions, at the same time. Plotting these veins on a stereonet with other known structural entities shows that there is some degree of association between the orientation of the veins and the late stage open folds (Figure 14). In a perfect setting, folding of competent geologic units will produce predictable orientations of extensional and shear joints. Many of these extensional joints will host veins, especially if an abundance of fluids are available to migrate into these zones of lower ambient stress. Sets of extensional joints will form conjugate pairs orientated parallel to the fold axis as well as a set perpendicular to the fold axis (Figure 15). However, even the slightest bit of non-cylindrical shape to the folds or difference in the competency of the host rocks causing deflection of joint/vein surfaces along strike will result in the relationships becoming more complex. In the Kluane data there is a relatively good relationship between veins and the late folds. The orientation of the general fold axes based upon the foliation measurements is shallowly plunging towards the southeast. The northwest and southeast striking veins are conjugate to one another but show an approximate 20 degree difference between their strikes and the fold axes. This can be explained if the late folds are in any way non-cylindrical. It must also be noted that the orientation of the late fold axes are calculated on the measurements of the foliations across the area and were nowhere observed in the field. It may be the sampling bias skews the orientation of the calculated fold axes (e.g. more measurements taken from exposed outcrop which occur in the same area).

The association between the vein sets and late folds is important as there are several potential areas of interest from a mineralization perspective. The intersections between the conjugate northwest and southeast striking veins may be zones where higher-grade ore shoots are developed. Often when two structures intersect a zone of intense fracturing occurs opening spaces or mineralizing fluids. At the Kluane property these zones would have a general northwest to southeast trend plunging shallowly towards the southeast. It is possible that a closely spaced vein array observed in the Rikus Zone, comprised of thin steeply dipping anastomosing veins, is one of these higher-grade ore shoots. The general trend of this zone is northwest-southeast and occurs along a southwest striking vein (Figures 14 and 15). The hinge zones of the late folds are also areas where mineralization potential can increase. Extensional features occur in the hinges of folds and, like the conjugate vein sets, often host veins. The main hinge zone in the area mapped in 2020 occurs between the Rikus Zone and the DalBianco showing. This is also an area of coincident anomalous gold- and arsenic-in-soils. It is possible that this area is host to a vein system located within the hinge zone of a late fold.

More detailed work needs to be done in order to definitively show the relationship between late folds and mineralization. If this association is true, there are several areas on the property that can be investigated.

CONCLUSIONS AND RECOMMENTATIONS

The Kluane property covers twelve, widely separated occurrences of high-grade gold veining, including three zones where limited drilling has intersected one or more veins at depth. The drilling was done with small diameter equipment with minimal drill products and, as a result, recovery was poor in many mineralized intervals. Furthermore, much of the core was not sampled and some mineralized intervals may have been missed. Despite these limitations, the drill results are highly encouraging.

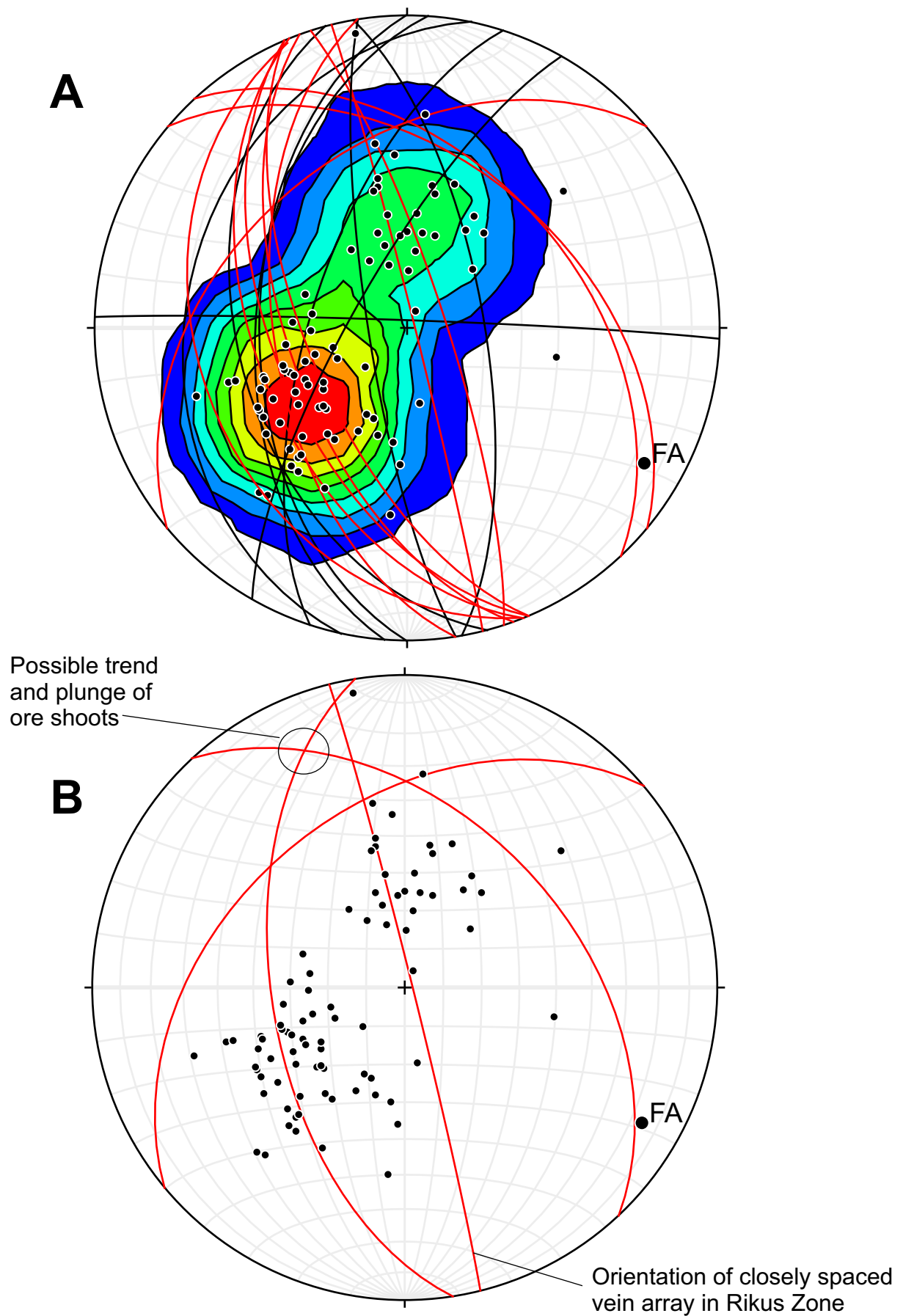


Figure 14. Equal area, lower hemisphere projection stereonets representing data from the Rikus and DalBianco areas. A) Contoured poles to foliations with measured veins plotted over top. Red lines indicate mineralized veins. B) Generalized orientations for four separate mineralized vein systems. Black circles are poles to foliations. FA- Calculated late fold axis based on foliation measurements.

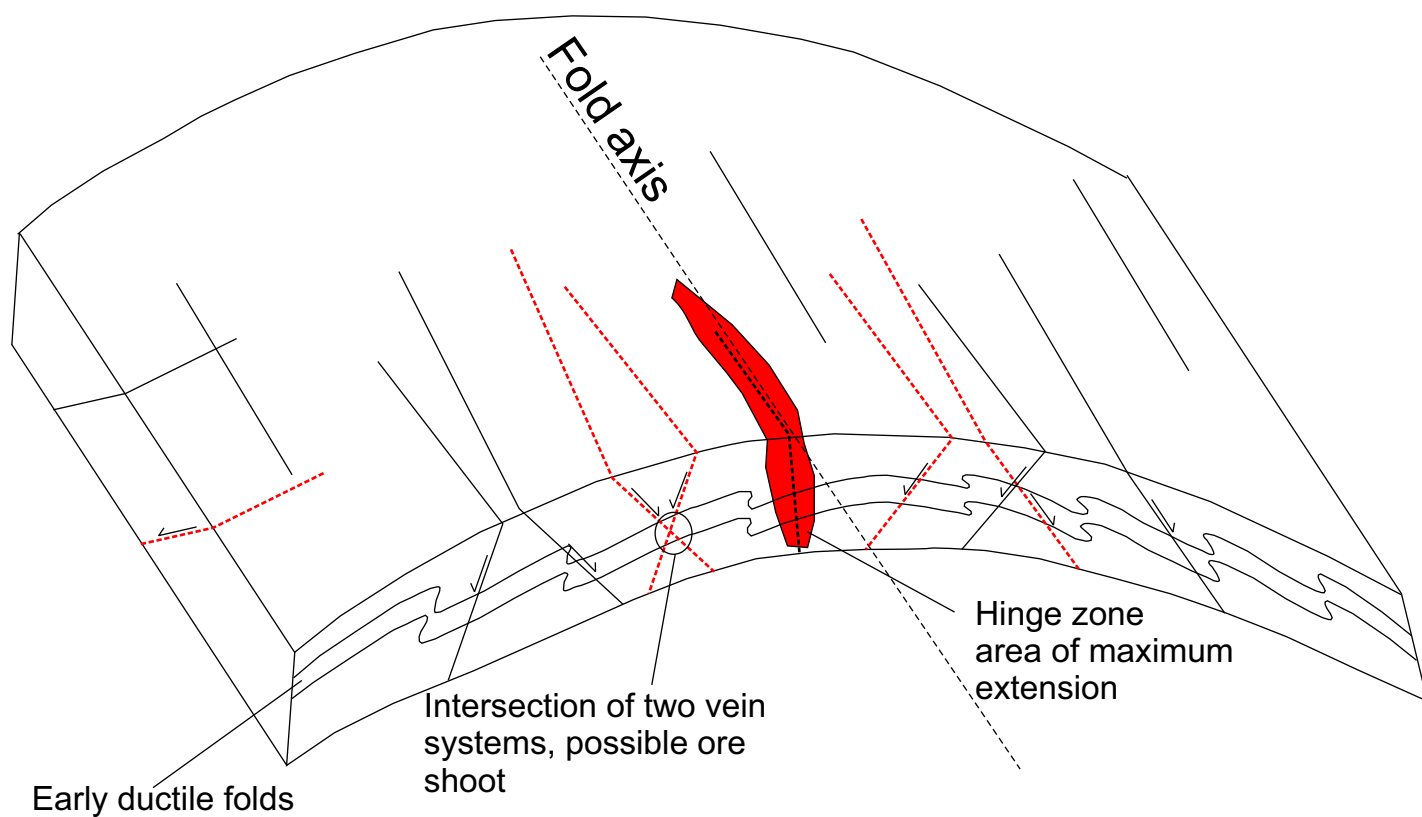


Figure 15. Schematic representation of the relationship between late folds and vein formation at the Kluane property. Several sets of extensional joints/fractures will result, allowing for the formation of veins. The intersection of vein systems may result in higher-grade ore shoots especially within areas of maximum extension such as hinge zones.

Soil sampling and geophysical surveying on the property have produced geochemical anomalies and HLEM conductors that coincide with known occurrences and have identified numerous untested targets where new vein zones may be discovered.

The 2020 field program successfully located a new bedrock vein showing by hand trenching (20KTR-4) and several other veins were discovered during prospecting and mapping. Preliminary structural analysis suggests that mineralization may be related to the late stage folding of the Kluane schist sometime during the early Tertiary. The structural analysis points to settings where ore shoots may be localized and to areas where new discoveries may be made. Two new soil grids extended the northeast trending gold and arsenic anomaly at the DalBianco Showing and the Rikus Zone and identified a strong arsenic anomaly and scattered high gold values near the Sack Showing.

Further work on the property is highly recommended.

Follow Up of Work done in 2020

- Trench 20KTR-4 should be extended to try to uncover more of the mineralized vein.
- Hand trenching should also be done across other prominent linears in both the Rikus and DalBianco areas,
- A hand trench should be dug across the subcrop of vein material that ran 71.2 g/t gold.
- The structural interpretation of vein geometry should be tested by prospecting the hinge zone between the Rikus Zone and the DalBianco showing, as well as more detailed mapping in areas of possible intersection between northwest and southeast dipping veins.
- Follow-up prospecting and hand pitting should be conducted at sample sites with strongly anomalous gold- and arsenic-in-soils in both the Rickus and the Sack grid areas.
- The 2020 soil grids should be extended further to the north.
- Prospecting, geologic mapping and grid soil sampling should be done within the new Shut 1-4 claims staked in 2020.

Property Scale Work

- Soil sample coverage should be extended around all areas of known mineralization, including the three showings located in the northern part of the property.
- HLEM surveys, which have been effective at identifying structures associated with mineralized veins, should be performed to extend coverage northward into areas underlain by Ruby Range suite.
- Lidar features should be followed up in conjunction with detailed structural mapping across as much of the property as is practical.
- Detailed prospecting and hand trenching should be done along the length of HLEM conductors and soil anomalies, and around mineralized float occurrences that have received only cursory attention.
- Hand trenches dug by previous workers at the Arc Showing failed to reach bedrock, and these trenches should be extended and deepened to bedrock where possible.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink, appearing to read "Steve Israel", is written over the typed name.

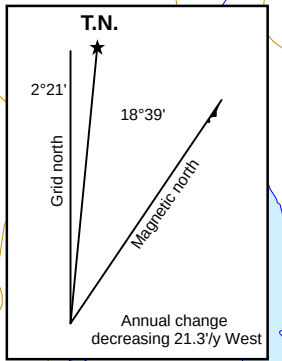
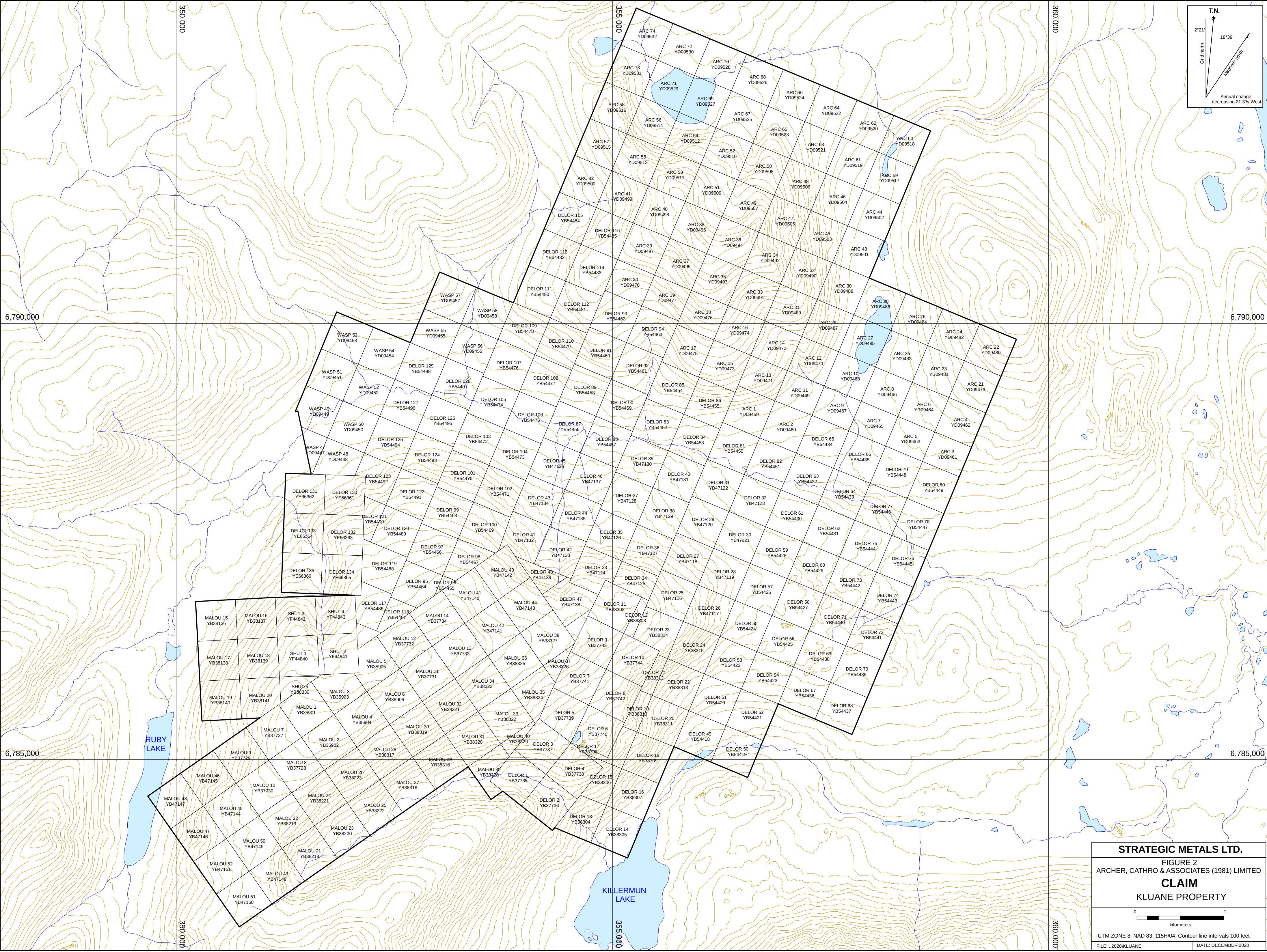
Steve Israel, B.Sc., M.Sc., Ph.D.

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FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM
KLUANE PROPERTY

01 kilometers

UTM ZONE 8, NAD 83, 11S/04, Contour line intervals 100 feet

FILE : .2020KLUANE

DATE: DECEMBER 2020

Lithology

Late Cretaceous to Tertiary

Ruby Range Suite (ca. 65-52 Ma)

medium-grained biotite, granodiorite to quartz-diorite; locally dioritic in composition; massive with minor alteration around joints and fractures

Early to Late Cretaceous

Kluane schist

grey to brown/black weathered, fine to medium-grained quartz-biotite schist; minor interleaved migmatitic paragneiss

white to pale green and beige weathered marble interlayered with calc-silicate; minor diopside and garnet found within skarn zones developed near contact with granodiorite

Symbols

.....foliation

.....vein

.....joint

.....dyke

.....1995 diamond drill hole

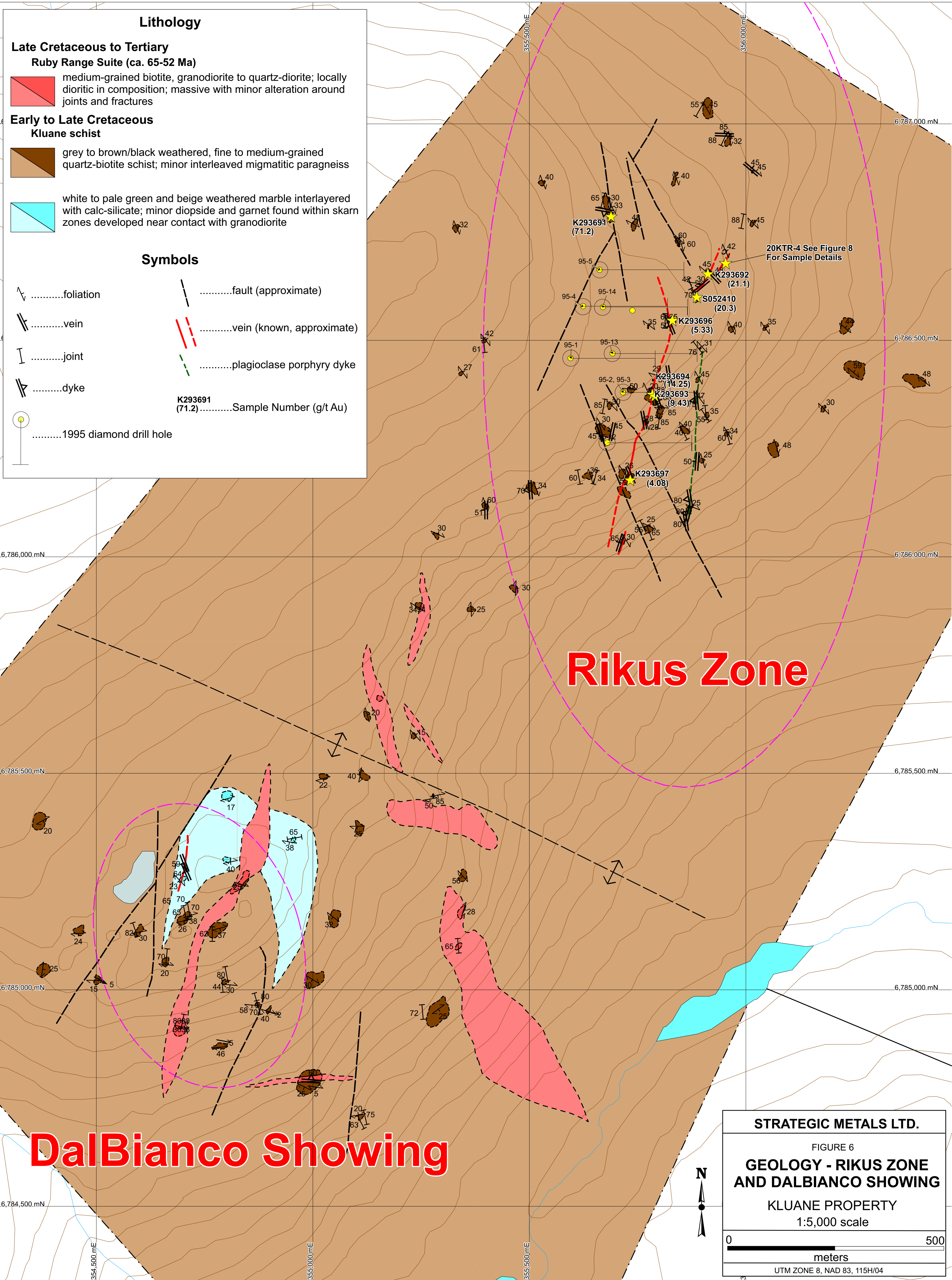
.....fault (approximate)

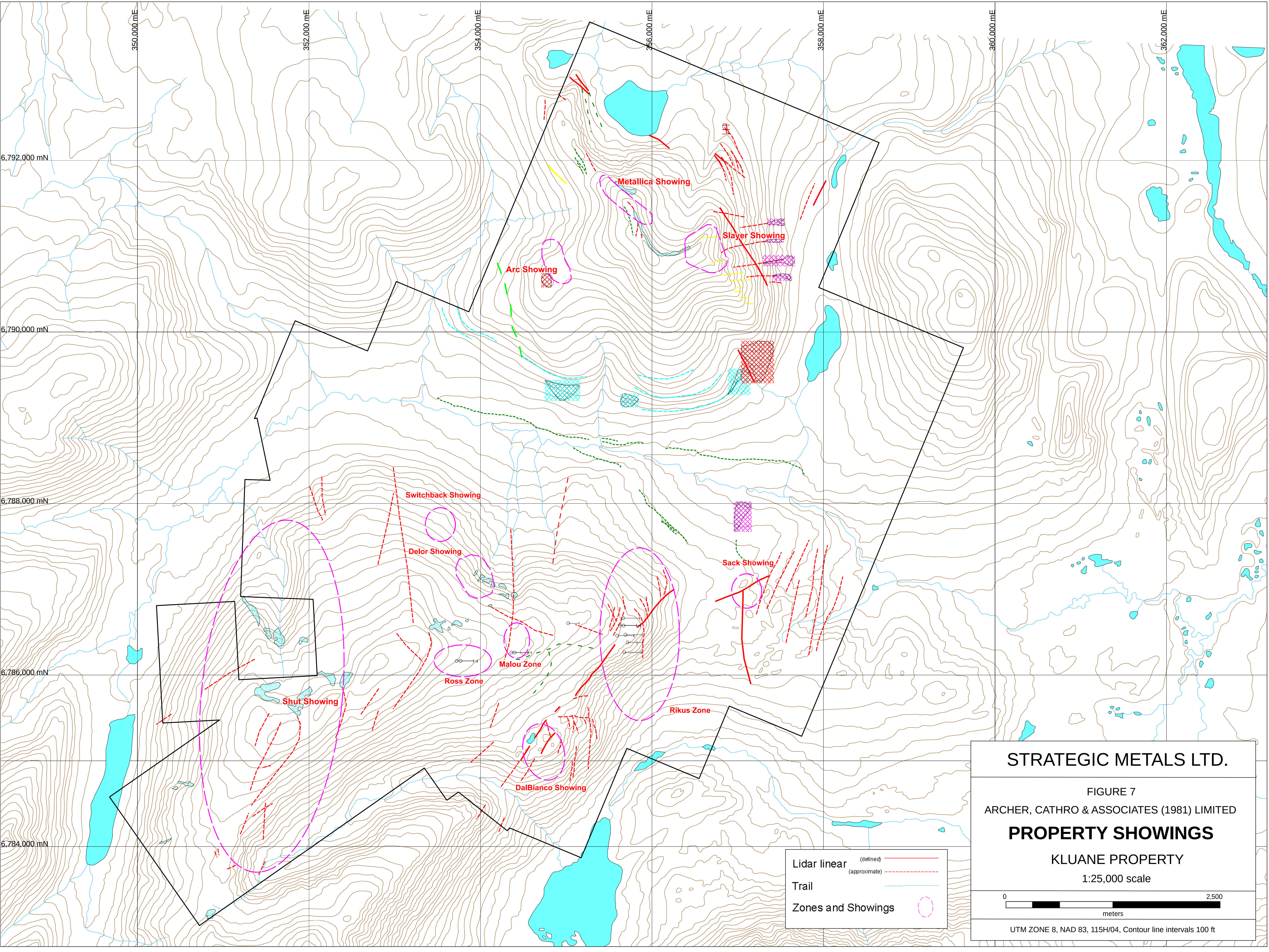
.....vein (known, approximate)

.....plagioclase porphyry dyke

K293691
(71.2)

.....Sample Number (g/t Au)



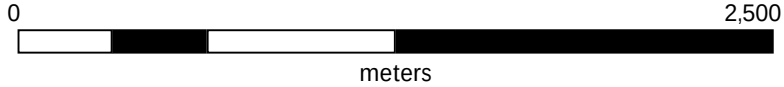


STRATEGIC METALS LTD.

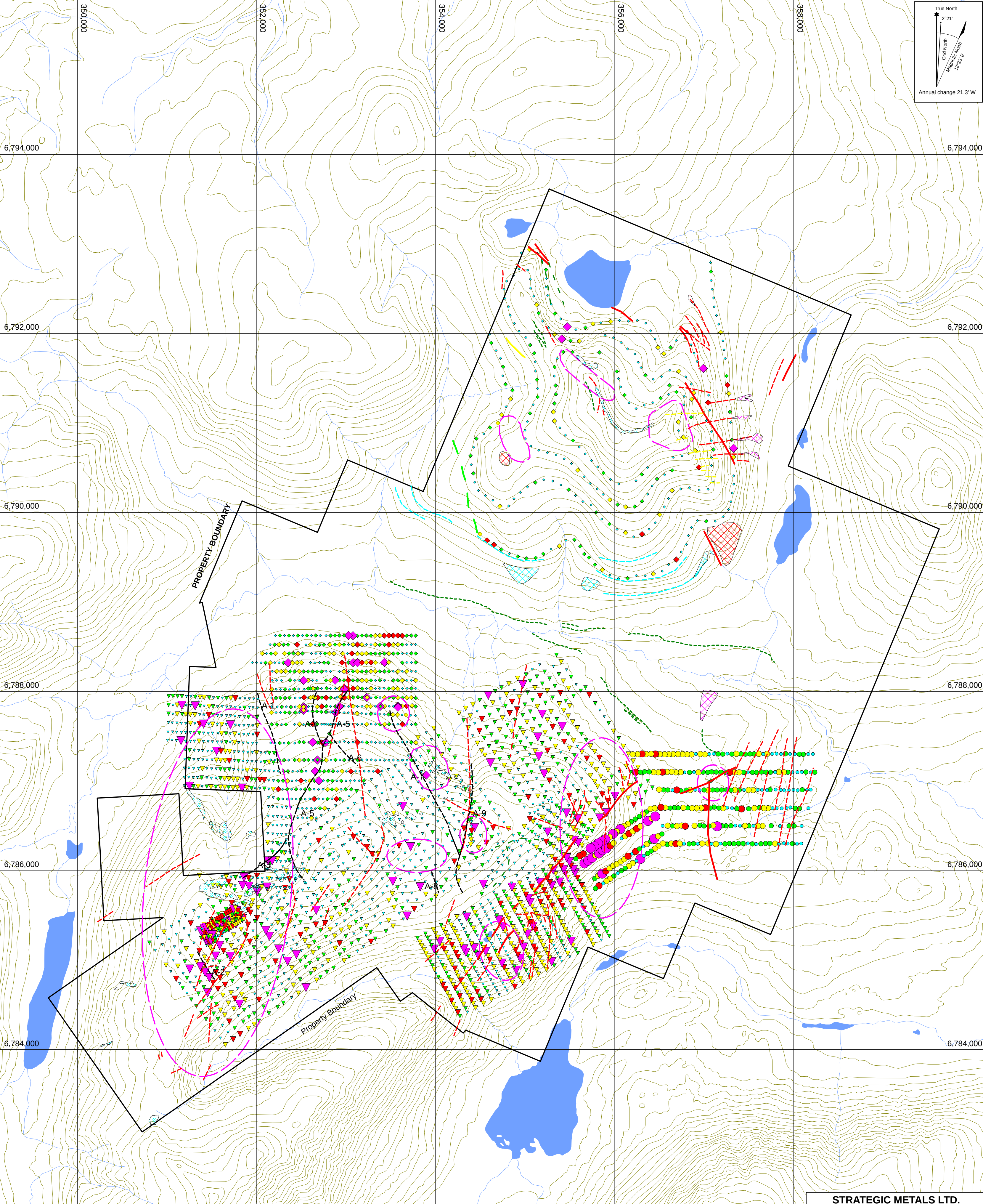
FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY SHOWINGS

KLUANE PROPERTY
1:25,000 scale



UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 ft



	Gold-in-soil (ppb) Historical	Gold-in-soil (ppb) 2009-2015	Gold-in-soil (ppb) 2020
---	100 to 3,820	100 to 1,960	100 to 1,530
▨	50 to 100	50 to 100	50 to 100
○	20 to 50	20 to 50	20 to 50
○	10 to 20	10 to 20	10 to 20
---	0 to 10	0 to 10	0 to 10

STRATEGIC METALS LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL GEOCHEMISTRY

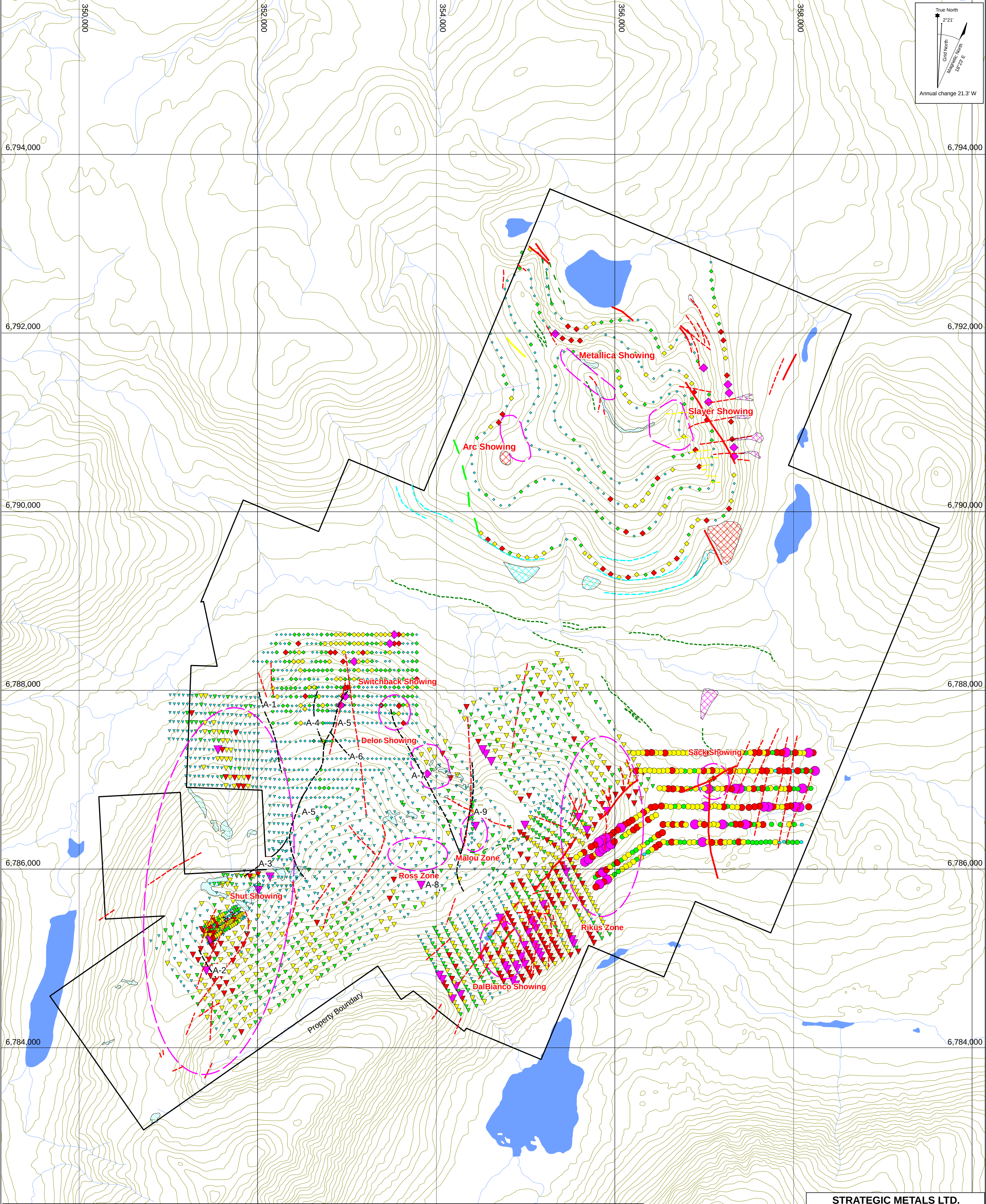
KLUANE PROPERTY

0 1
kilometers

UTM ZONE 9, NAD 83, 105B/10 & 09, Contour line intervals 100 feet

FILE: ./2020/KLUANE

DATE: DECEMBER 2020



	Arsenic-in-soil (ppm) Historical	Arsenic-in-soil (ppm) 2009-2015	Arsenic-in-soil (ppm) 2020
---	Lidar linear	◆ 500 to 7,350	● 500 to 1,630
▨	Transported material	▼ 200 to 500	● 200 to 500
○	Historical diamond drill hole	▼ 100 to 200	● 100 to 200
---	HLEM geophysical conductor	▼ 50 to 100	● 50 to 100
	▼ 0 to 50	◆ 500 to 7,350	● 0 to 50
		▼ 200 to 500	● 200 to 500
		▼ 100 to 200	● 100 to 200
		▼ 50 to 100	● 50 to 100
		◆ 0 to 50	● 0 to 50

STRATEGIC METALS LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC SOIL GEOCHEMISTRY

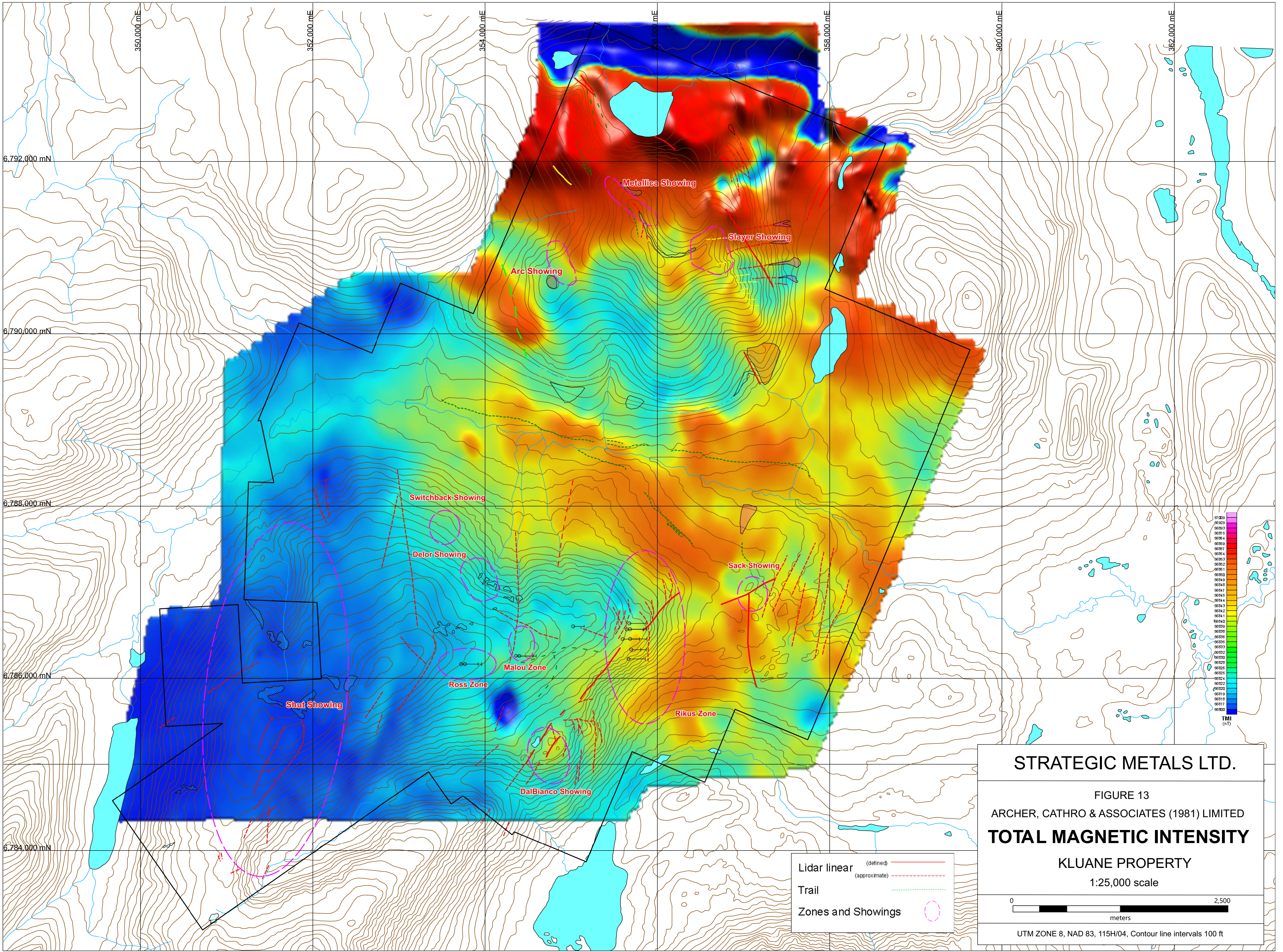
KLUANE PROPERTY

0 1
kilometers

UTM ZONE 9, NAD 83, 105B/10 & 09, Contour line intervals 100 feet

FILE: .J2020

DATE: DECEMBER 2020



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FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TOTAL MAGNETIC INTENSITY

KLUANE PROPERTY

1:25,000 scale

0 2,500
meters

UTM ZONE 8, NAD 83, 115H/04, Contour line intervals 100 ft

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated in 1998 from Memorial University of Newfoundland and Labrador with a B.Sc (hons) in Geological Sciences, and received a M.Sc. (2001) and Ph.D. (2008) from the University of British Columbia
2. From 2004 to 2018, I worked as a regional bedrock mapper for the Yukon Geological Survey and have considerable expertise in North American Cordilleran geology.
3. I have worked as a contractor for exploration companies in British Columbia, Yukon, Nunavut, Nevada, Arizona, California and Mexico.
4. I am a full-time employee of Archer, Cathro & Associates (1981) Limited.
5. I have interpreted all data resulting from this work.



Steve Israel, B.Sc., M.Sc., Ph.D.

APPENDIX II
STATEMENT OF EXPENDITURES



**Statement of Expenditures
Kluane Property**

Labour					
Employee	Job Discription	Hours	Time Period	Rate/Hr	Total
E. Lepp	Expeditor	16	July 2020 - August 2020	\$ 75.00	\$ 1,200.00
H. Burrell	Project oversight, geo, report writing	35	June 2020 - October 2020	\$ 115.00	\$ 4,025.00
E. Bordet	Geo, Mapping	8	July 2020	\$ 107.00	\$ 856.00
M. Israel	Soil Sampling	104	August 2020	\$ 49.00	\$ 5,096.00
T. Rozssypalek	Soil Sampling	72	August 2020	\$ 56.00	\$ 4,032.00
S. Israel	Mapping, Propsecting	88	August 2020 - October 2020	\$ 115.00	\$ 10,120.00
M. Leroux	Soil Sampling	72	August 2020	\$ 59.00	\$ 4,248.00
					<u>\$ 29,577.00</u>

Expenses

Room & Board	\$ 7,200.00
Fireweed Helicopters, as attached	\$ 7,326.25
ALS Minerals, as attached	\$ 7,190.15
	<u>\$ 21,716.40</u>

Report Writing Expenditures

Employee	Job Discription	Hours	Time Period	Rate/Hr	Total
Steve Report	Report Writing	44	November 2020	\$ 115.00	\$ 5,060.00

Total eligible expenditures submitted \$ 56,353.40


March 9, 2021

APPENDIX III

ROCK SAMPLE DESCRIPTIONS AND ASSAYS

Rock Sample Descriptions		Property: Kluane			
Sample Number:	K293691	Date Collected:	2020-08-21	UTM:	355686 mE Nad83, Zone 8
Elevation:	1621 m	Sampler:	Unknown Person	UTM:	6786787 mN
Comments: Subcrop to talus of locally banded white/grey quartz vein with seams and blebs of aspy, minor scorodite, sericite and epidote					
Sample Number:	K293692	Date Collected:	2020-08-21	UTM:	355913 mE Nad83, Zone 8
Elevation:	1578 m	Sampler:	Unknown Person	UTM:	6786651 mN
Comments: 25 cm wide quartz vein with banded fractures coated with limonite; seam up to 1 cm thick of aspy with minor pyrite					
Sample Number:	K293693	Date Collected:	2020-08-21	UTM:	355784 mE Nad83, Zone 8
Elevation:	1573 m	Sampler:	Unknown Person	UTM:	6786372 mN
Comments: Outcrop grab sample, multiple veins (sheeted) in qtz bt schist 1 to 3cm with aspy +/- py, scorodite					
Sample Number:	K293694	Date Collected:	2020-08-21	UTM:	355786 mE Nad83, Zone 8
Elevation:	1574 m	Sampler:	Unknown Person	UTM:	6786369 mN
Comments: 1.2 m chip sample across sheeted vein outcrop, locally abundant aspy, py and scorodite in veins and minor mineralization in wallrock					
Sample Number:	K293695	Date Collected:	2020-08-21	UTM:	357762 mE Nad83, Zone 8
Elevation:	1201 m	Sampler:	Unknown Person	UTM:	6786695 mN
Comments: Biotite granodiorite with small quartz vein within, minor aspy within vein and adjacent to vein					
Sample Number:	K293696	Date Collected:	2020-08-21	UTM:	355828 mE Nad83, Zone 8
Elevation:	1625 m	Sampler:	Unknown Person	UTM:	6786544 mN
Comments: 5 to 25 cm wide quartz vein in schist, bands and blebs of aspy along FW edge, biotite and muscovite in vein					
Sample Number:	K293698	Date Collected:	2020-08-21	UTM:	355946 mE Nad83, Zone 8
Elevation:	1563 m	Sampler:	Unknown Person	UTM:	6786678 mN
Comments: Orange to red weathered fine-grained quartz vein, minor sulphides, 30 cm chip from TV trench					

Rock Sample Descriptions		Property: Kluane				
Sample Number:	K293699	Date Collected:	2020-08-21	UTM:	355950 mE	Nad83, Zone 8
Elevation:	1561 m	Sampler:	Unknown Person	UTM:	6786681 mN	
Comments:	At 3.5 m in TV trench; mixed quartz vein and wall rock, veins are milky white and fined grained, wall rock quartz biotite schist 30 cm chip					
Sample Number:	K293700	Date Collected:	2020-08-21	UTM:	355952 mE	Nad83, Zone 8
Elevation:	1561 m	Sampler:	Unknown Person	UTM:	6786681 mN	
Comments:	At 5 m in TV trench; Rusty weathered white quartz vein with yellowish coated fractures; locally bands of aspy, semi-massive in places; 70 cm chip sample					
Sample Number:	S052409	Date Collected:	2020-08-21	UTM:	355951 mE	Nad83, Zone 8
Elevation:	1555 m	Sampler:	Unknown Person	UTM:	6786678 mN	
Comments:	At 6.5 m in TV trench; Red, oxidized weathered mixed quartz vein and schist; vein is white to yellowish fresh with bands of aspy, locally semi-massive aspy 75 cm chip sample					
Sample Number:	S052410	Date Collected:	2020-08-21	UTM:	355889 mE	Nad83, Zone 8
Elevation:	1595 m	Sampler:	Unknown Person	UTM:	6786598 mN	
Comments:	Angular cobble of altered quartz/carb vein with minor aspy found at 2m in KTR001					
Sample Number:	S052411	Date Collected:	2020-08-21	UTM:	355952 mE	Nad83, Zone 8
Elevation:	1558 m	Sampler:	Unknown Person	UTM:	6786683 mN	
Comments:	At 8m in KTR4; White quartz vein with wallrock fragments (schist), 40 cm chip					
Sample Number:	S052412	Date Collected:	2020-08-21	UTM:	355950 mE	Nad83, Zone 8
Elevation:	1558 m	Sampler:	Unknown Person	UTM:	6786684 mN	
Comments:	20 cm chip through wallrock (schist) above S052411					
Sample Number:	S052413	Date Collected:	2020-08-21	UTM:	355952 mE	Nad83, Zone 8
Elevation:	1555 m	Sampler:	Unknown Person	UTM:	6786683 mN	
Comments:	20 cm chip through wallrock (schist) below S052411					

Rock Sample Descriptions		Property: Kluane				
Sample Number:	S052414	Date Collected:	2020-08-21	UTM:	355948 mE	Nad83, Zone 8
Elevation:	1555 m	Sampler:	Unknown Person	UTM:	6786684 mN	
Comments: 30 cm chip through wallrock (schist) above S052409						
Sample Number:	S052415	Date Collected:	2020-08-21	UTM:	355949 mE	Nad83, Zone 8
Elevation:	1555 m	Sampler:	Unknown Person	UTM:	6786683 mN	
Comments: 30 cm chip through wallrock (schist) below S052409						
Sample Number:	S052416	Date Collected:	2020-08-21	UTM:	355949 mE	Nad83, Zone 8
Elevation:	1563 m	Sampler:	Unknown Person	UTM:	6786681 mN	
Comments: 30 cm chip through wallrock schist above K293700						
Sample Number:	S052417	Date Collected:	2020-08-21	UTM:	355951 mE	Nad83, Zone 8
Elevation:	1562 m	Sampler:	Unknown Person	UTM:	6786689 mN	
Comments: 30 cm chip through wallrock schist below K293700						
Sample Number:	S052418	Date Collected:	2020-08-21	UTM:	355950 mE	Nad83, Zone 8
Elevation:	1558 m	Sampler:	Unknown Person	UTM:	6786683 mN	
Comments: 15 cm wide zone of rusty, oxidized quartz vein/wall rock with abundant aspy						
Sample Number:	S052419	Date Collected:	2020-08-21	UTM:	355953 mE	Nad83, Zone 8
Elevation:	1569 m	Sampler:	Unknown Person	UTM:	6786679 mN	
Comments: 15 cm wide zone of oxidized vein and schist, blebs and minor seams of aspy						
Sample Number:	S052420	Date Collected:	2020-08-21	UTM:	355952 mE	Nad83, Zone 8
Elevation:	1560 m	Sampler:	Unknown Person	UTM:	6786683 mN	
Comments: At 9.5 m in KTR4 90 cm chip sample through quartz vein and wall rock schist, aspy locally in both						

Rock Sample Descriptions

Property: Kluane

Sample Number:	S052421	Date Collected:	2020-08-21	UTM:	355952 mE	Nad83, Zone 8
Elevation:	1559 m	Sampler:	Unknown Person	UTM:	6786682 mN	
Comments: 30 cm chip sample through wallrock schist above S052420						

Sample Number:	S052422	Date Collected:	2020-08-21	UTM:	355955 mE	Nad83, Zone 8
Elevation:	1561 m	Sampler:	Unknown Person	UTM:	6786681 mN	
Comments: 30 cm chip sample through wallrock below S052420						



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Finalized Date: 13-OCT-2020
Account: MTT

CERTIFICATE WH20187898

Project: Kluane

This report is for 24 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL
JACK MORTON

MATT DUMALA
SCOTT NEWMAN

STEVE ISRAEL
LIZ SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
PUL-32	Pulverize 1000g to 85% < 75 um
BAG-01	Bulk Master for Storage

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
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	

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:

Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS WH20187898

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-AA24 Au ppm 0.005	Au-GRA22 Au ppm 0.05	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
K293691		2.07	>10.0	71.2	5.09	1.04	>10000	100	0.34	4.69	0.10	0.09	6.35	5.1	35	0.11
K293692		0.91	>10.0	21.1	3.61	2.74	>10000	240	0.51	51.7	0.14	0.05	20.0	10.8	73	0.24
K293693		1.87	9.43		6.03	2.89	>10000	370	0.92	12.60	0.14	1.22	21.7	6.6	58	0.59
K293694		4.80	>10.0	14.25	14.05	5.47	>10000	550	1.26	42.4	0.34	1.54	34.8	7.0	79	0.94
K293695		1.00	0.042		0.04	8.45	1630	900	1.57	0.41	2.23	0.03	17.90	9.8	25	1.03
K293696		1.32	5.33		0.86	0.62	>10000	90	0.11	3.43	0.02	0.02	7.09	4.2	26	0.06
K293697		1.58	4.08		0.63	0.50	>10000	30	0.32	1.88	0.03	0.02	2.49	0.8	40	0.22
K293698		0.77	0.118		0.03	9.43	338	470	1.93	0.21	1.75	0.06	30.7	26.2	17	1.74
K293699		0.81	0.060		0.02	6.24	229	570	1.22	0.14	0.61	0.03	45.0	12.6	105	1.28
K293700		1.63	2.57		0.17	5.42	>10000	140	0.99	5.90	0.32	0.02	34.9	34.7	63	0.50
S052409		2.16	4.12		0.29	4.64	>10000	110	1.31	11.00	1.07	0.02	23.3	44.5	48	0.48
S052410		1.74	>10.0	20.3	1.39	0.41	4780	120	0.13	1.08	0.06	0.03	1.75	1.3	30	0.14
S052411		1.78	0.052		0.02	3.11	240	320	0.49	0.20	0.63	0.02	12.55	6.8	40	0.92
S052412		1.67	0.007		0.10	8.77	57.9	960	2.06	0.09	0.84	0.09	64.7	21.2	150	1.83
S052413		1.16	0.032		0.01	9.13	175.5	960	1.40	0.14	3.02	0.04	37.4	24.9	49	5.21
S052414		1.84	0.113		0.09	8.64	677	1010	1.73	0.35	0.83	0.04	57.4	11.7	142	0.87
S052415		1.84	0.088		0.01	8.53	979	220	2.43	0.35	2.63	0.03	33.9	14.4	49	0.71
S052416		1.17	0.190		0.05	8.06	1335	660	1.94	0.51	1.06	0.06	51.0	14.9	121	0.73
S052417		1.88	1.205		0.09	7.59	9160	220	1.95	2.39	0.93	0.02	47.6	15.0	95	0.77
S052418		1.31	6.97		0.46	6.33	>10000	160	1.53	14.05	0.86	0.03	38.4	27.0	44	0.58
S052419		0.75	1.200		0.10	7.70	>10000	330	2.13	1.81	1.73	0.03	27.9	20.5	54	0.91
S052420		2.87	1.865		0.15	4.19	7600	440	0.66	5.50	0.78	0.02	27.8	15.4	84	1.48
S052421		1.32	0.010		0.03	8.61	184.5	840	1.75	0.15	1.30	0.10	52.4	22.2	119	1.62
S052422		1.20	0.122		0.06	8.47	2110	1040	1.40	0.49	1.13	0.06	55.8	11.6	127	2.18



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Project: Kluane

CERTIFICATE OF ANALYSIS WH20187898

Sample Description	Method Analyte Units LOD	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
K293691		3.0	2.49	2.00	0.05	<0.1	0.016	0.15	3.3	3.7	0.13	175	1.01	0.42	1.1	7.3
K293692		3.7	3.19	6.09	0.06	<0.1	0.023	0.41	10.2	11.7	0.62	274	0.63	0.80	2.7	25.5
K293693		25.9	6.33	7.35	0.11	<0.1	0.115	0.78	10.6	9.0	0.38	189	0.94	0.53	2.2	15.0
K293694		19.6	4.33	12.05	0.10	0.1	0.249	1.16	17.5	17.5	0.83	403	1.21	1.24	4.5	22.0
K293695		20.4	2.82	18.10	0.08	0.4	0.014	2.09	6.8	15.7	0.74	253	0.21	2.99	4.4	1.5
K293696		1.6	2.52	1.89	0.05	<0.1	0.012	0.12	3.6	5.8	0.20	161	4.98	0.07	0.7	7.9
K293697		5.8	1.74	1.05	<0.05	<0.1	0.008	0.10	1.3	3.1	0.04	110	0.47	0.17	0.5	1.6
K293698		6.0	5.32	23.4	0.10	0.1	0.047	1.31	12.8	80.2	2.04	504	0.34	1.92	11.2	29.5
K293699		4.3	4.08	15.00	0.10	0.1	0.027	1.16	22.7	28.6	1.27	527	0.84	1.43	7.4	47.8
K293700		0.9	6.85	12.85	0.09	<0.1	0.031	0.54	17.5	26.4	1.60	558	1.77	1.34	3.0	57.4
S052409		2.3	6.38	10.90	0.09	<0.1	0.035	0.45	10.5	17.1	1.16	530	2.00	1.06	3.3	52.5
S052410		1.5	1.12	1.03	<0.05	<0.1	0.005	0.11	0.9	3.8	0.09	100	0.65	0.05	0.3	2.0
S052411		1.5	2.16	6.56	0.06	<0.1	0.015	0.53	5.3	12.3	0.62	265	0.67	0.89	3.2	18.6
S052412		39.1	6.46	22.4	0.12	0.1	0.074	1.87	30.5	39.8	1.83	924	1.54	1.42	11.9	68.5
S052413		3.3	5.15	23.4	0.11	<0.1	0.041	2.17	16.4	36.8	2.11	625	0.28	2.41	13.6	44.8
S052414		38.4	6.05	21.9	0.12	0.1	0.064	1.57	27.9	28.5	1.73	824	1.64	1.50	9.4	39.1
S052415		3.5	4.72	19.90	0.12	0.1	0.025	0.57	13.4	26.8	1.86	880	0.31	2.14	9.0	33.0
S052416		17.8	4.92	18.05	0.11	0.1	0.043	1.10	24.6	28.1	1.52	786	0.81	1.93	8.6	52.0
S052417		2.9	5.08	15.95	0.11	0.1	0.023	0.79	22.6	29.5	1.73	680	0.66	2.20	6.0	42.5
S052418		1.9	8.47	14.10	0.12	<0.1	0.044	0.59	18.0	25.9	1.59	560	2.76	1.53	3.4	46.6
S052419		2.6	6.03	17.55	0.10	0.1	0.029	1.00	12.6	33.9	1.96	910	1.07	1.18	5.9	38.6
S052420		6.1	3.82	9.28	0.08	<0.1	0.030	0.71	13.8	22.6	1.01	458	1.75	0.85	4.9	39.3
S052421		29.2	5.90	19.25	0.11	0.1	0.065	1.49	25.8	33.9	1.76	914	1.36	1.54	9.8	62.7
S052422		28.8	5.42	19.50	0.11	0.1	0.060	1.84	27.0	27.6	1.62	802	1.20	1.70	10.7	47.7



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CERTIFICATE OF ANALYSIS WH20187898

Sample Description	Method Analyte Units LOD	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	Tl
		ppm 10	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02
K293691		120	11.6	5.7	0.003	0.59	6.82	1.7	3	0.2	55.3	0.06	1.00	0.68	0.048	0.05
K293692		50	10.3	18.9	<0.002	0.59	3.36	6.5	4	0.2	91.8	0.17	16.55	2.12	0.159	0.08
K293693		480	45.8	28.1	0.002	2.23	50.1	5.7	8	1.1	71.9	0.13	0.99	2.34	0.103	0.09
K293694		540	121.5	42.5	<0.002	0.73	15.20	10.3	3	1.2	157.0	0.25	0.50	3.90	0.219	0.17
K293695		3140	4.4	65.0	<0.002	0.06	0.50	5.3	1	0.9	596	0.55	0.72	0.87	0.222	0.29
K293696		10	20.4	3.6	0.005	0.67	3.83	1.8	2	0.2	7.2	<0.05	1.97	0.23	0.043	<0.02
K293697		50	4.5	3.7	<0.002	0.25	2.06	0.8	3	0.2	29.1	<0.05	2.59	0.21	0.024	0.02
K293698		4070	5.9	43.3	<0.002	0.01	0.61	19.7	1	0.8	321	0.57	0.08	1.04	0.692	0.34
K293699		530	5.6	53.3	<0.002	0.02	0.63	15.0	<1	0.4	198.0	0.40	0.05	5.20	0.380	0.24
K293700		570	6.4	24.8	0.002	1.26	8.03	12.7	6	<0.2	168.5	0.20	4.53	2.59	0.172	0.10
S052409		1870	9.6	21.0	<0.002	1.44	9.89	9.7	7	<0.2	198.0	0.19	6.37	1.52	0.196	0.12
S052410		100	2.8	4.8	<0.002	0.13	2.44	0.8	1	<0.2	19.2	<0.05	0.34	0.16	0.022	0.02
S052411		700	3.9	24.7	<0.002	0.01	0.26	5.7	<1	0.3	125.0	0.19	<0.05	0.94	0.204	0.13
S052412		810	9.7	63.3	0.002	0.03	0.70	21.8	1	0.6	236	0.54	0.09	7.76	0.595	0.32
S052413		3670	9.6	73.2	<0.002	0.01	0.26	19.3	<1	0.8	429	0.68	<0.05	2.96	0.716	0.62
S052414		770	10.3	52.1	<0.002	0.19	0.51	21.5	1	0.7	245	0.46	0.06	7.23	0.493	0.23
S052415		2620	7.4	14.5	<0.002	0.03	0.47	15.8	1	0.2	423	0.51	0.09	2.50	0.548	0.15
S052416		1050	9.5	37.3	<0.002	0.05	0.50	19.4	<1	0.5	317	0.44	0.17	6.50	0.427	0.18
S052417		1190	6.5	31.3	<0.002	0.16	2.08	17.0	1	0.2	317	0.34	0.93	4.96	0.321	0.19
S052418		2330	8.6	28.1	<0.002	0.97	13.35	13.5	6	<0.2	270	0.18	7.57	2.09	0.205	0.13
S052419		2780	4.6	34.1	<0.002	0.46	3.54	17.0	2	<0.2	263	0.27	1.70	1.28	0.401	0.24
S052420		710	3.9	33.8	0.002	0.26	1.63	10.6	3	0.4	142.5	0.26	4.07	2.88	0.321	0.20
S052421		870	8.3	57.4	<0.002	0.05	0.76	21.4	<1	0.4	303	0.53	0.07	6.02	0.557	0.29
S052422		950	9.4	57.1	<0.002	0.06	0.70	20.9	1	0.9	251	0.49	0.24	7.07	0.531	0.29



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CERTIFICATE OF ANALYSIS WH20187898

Sample Description	Method Analyte Units LOD	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
K293691		0.2	18	229	2.1	9	1.0
K293692		0.4	79	3.3	2.7	42	1.4
K293693		0.5	66	11.1	4.6	43	1.3
K293694		0.8	110	13.4	7.2	71	2.1
K293695		2.0	56	4.3	15.6	33	11.6
K293696		0.1	25	3.3	0.7	12	<0.5
K293697		0.1	12	8.6	1.1	5	0.5
K293698		1.1	110	7.4	25.0	88	1.3
K293699		1.0	151	0.7	7.9	80	2.2
K293700		0.5	135	7.6	6.5	85	1.4
S052409		0.5	103	1.8	10.6	61	1.1
S052410		0.1	10	3.3	0.8	5	0.7
S052411		0.3	66	0.4	4.3	34	0.7
S052412		1.6	238	0.5	10.5	156	3.9
S052413		1.3	168	0.8	21.1	110	1.6
S052414		1.4	229	2.5	9.7	111	2.9
S052415		0.9	143	2.8	18.6	94	1.8
S052416		1.3	181	2.6	12.1	108	3.2
S052417		1.0	163	3.4	12.4	87	3.1
S052418		1.0	121	2.1	15.0	82	1.0
S052419		0.6	145	2.3	14.5	98	2.1
S052420		0.9	108	0.9	7.3	59	1.4
S052421		1.3	194	1.0	13.0	134	2.8
S052422		1.6	210	2.9	10.7	104	2.4



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CERTIFICATE OF ANALYSIS WH20187898

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
BAG-01 CRU-31 CRU-QC LOG-21
PUL-32 PUL-QC SPL-21 WEI-21

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

APPENDIX IV

SOIL SAMPLE DESCRIPTIONS AND ASSAYS

Sample	UTM Zone	Easting	Northing	Elevation	Type	Target	Date	Depth	Comments
CC102531	8	357493	6787098	1231	Soil	Kluane	21-Aug-20	25	Brown
CC102532	8	357444	6787098	1230	Soil	Kluane	21-Aug-20	65	Brown, very wet
CC102533	8	357396	6787097	1245	Soil	Kluane	21-Aug-20	30	Brown
CC102534	8	357343	6787098	1255	Soil	Kluane	21-Aug-20	45	Grey, shiny
CC102535	8	357289	6787098	1268	Soil	Kluane	21-Aug-20	50	Grey,shiny,damp
CC102536	8	357243	6787099	1275	Soil	Kluane	21-Aug-20	55	Black,shiny
CC102537	8	357193	6787097	1300	Soil	Kluane	21-Aug-20	55	Grey,shiny,sandy,quartz
CC102538	8	357141	6787101	1322	Soil	Kluane	21-Aug-20	20	Brown, moss cover boulders
CC102539	8	357088	6787103	1346	Soil	Kluane	21-Aug-20	15	Brown,moss cover boulders
CC102540	8	357044	6787098	1353	Soil	Kluane	21-Aug-20	45	Brown,moss cover rocks
CC113951	8	356838	6786298	1291	Soil	Kluane	22-Aug-20	15	Grey,rocky
CC113952	8	356886	6786300	1292	Soil	Kluane	22-Aug-20	30	Brown,rocky
CC113953	8	356933	6786299	1286	Soil	Kluane	22-Aug-20	25	Brown,sandy
CC113954	8	356982	6786302	1281	Soil	Kluane	22-Aug-20	40	Brown
CC113955	8	355667	6786081	1439	Soil	Kluane	23-Aug-20	10	Brown,quartz,shiny,Rocky hillside
CC113956	8	355708	6786110	1432	Soil	Kluane	23-Aug-20	15	Rocky hillside, brown
CC113957	8	355750	6786141	1426	Soil	Kluane	23-Aug-20	15	Brown,Rocky hillside
CC113958	8	355788	6786169	1424	Soil	Kluane	23-Aug-20	25	Rocky hillside,brown
CC113959	8	355830	6786193	1428	Soil	Kluane	23-Aug-20	25	Rocky hillside, brown
CC113960	8	355871	6786228	1429	Soil	Kluane	23-Aug-20	15	Rocky hillside,brown
CC113961	8	355910	6786248	1421	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
CC113962	8	355957	6786276	1414	Soil	Kluane	23-Aug-20	15	Rocky hillside,brown
CC113963	8	355993	6786307	1399	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
CC113964	8	356083	6786361	1373	Soil	Kluane	23-Aug-20	30	Rocky hillside,Black,sandy
CC113965	8	356122	6786384	1362	Soil	Kluane	23-Aug-20	30	Rocky hillside,Black,sandy
CC113966	8	356163	6786412	1361	Soil	Kluane	23-Aug-20	30	Rocky hillside,black,shiny
CC113967	8	356208	6786439	1359	Soil	Kluane	23-Aug-20	30	Rocky hillside,Black,sandy
CC113968	8	356249	6786469	1356	Soil	Kluane	23-Aug-20	20	Rocky hillside,Black
YY09831	8	356291	6786130	1252	Soil	Kluane	24-Aug-20	40	rocky ground,brown,sandy
YY09832	8	356246	6786109	1257	Soil	Kluane	24-Aug-20	30	rocky ground,Brown,sandy
YY09833	8	356206	6786082	1256	Soil	Kluane	24-Aug-20	25	rocky groundBrown,sandy
YY09834	8	356163	6786049	1261	Soil	Kluane	24-Aug-20	70	rocky ground,Brown,sandy
YY09835	8	356122	6786026	1256	Soil	Kluane	24-Aug-20	45	rocky ground,Brown,sandy
YY09836	8	356080	6785998	1252	Soil	Kluane	24-Aug-20	20	rocky ground,Brown,sandy
YY09837	8	356039	6785971	1250	Soil	Kluane	24-Aug-20	30	rocky ground,brown
YY09838	8	355996	6785939	1249	Soil	Kluane	24-Aug-20	25	rocky ground,grey
YY09839	8	355953	6785908	1249	Soil	Kluane	24-Aug-20	25	rocky ground,Brown,sandy

YY09840	8	355913	6785883	1250	Soil	Kluane	24-Aug-20	60	rocky ground,grey
YY09841	8	355876	6785857	1250	Soil	Kluane	24-Aug-20	60	rocky ground,brown
YY09842	8	355829	6785830	1255	Soil	Kluane	24-Aug-20	55	rocky ground,Brown,sandy
YY09843	8	355789	6785800	1256	Soil	Kluane	24-Aug-20	45	rocky ground,grey,sandy
YY09844	8	355782	6785910	1293	Soil	Kluane	24-Aug-20	30	rocky ground,Brown,sandy
YY09845	8	355820	6785942	1291	Soil	Kluane	24-Aug-20	30	rocky ground,brown
YY09846	8	355865	6785966	1281	Soil	Kluane	24-Aug-20	45	rocky ground,brown,organic
YY09847	8	355906	6785994	1283	Soil	Kluane	24-Aug-20	45	rocky ground,Brown,sandy
YY09848	8	355948	6786024	1282	Soil	Kluane	24-Aug-20	40	rocky ground,Brown,sandy
YY09849	8	355989	6786053	1283	Soil	Kluane	24-Aug-20	40	rocky ground,Brown,sandy
YY09850	8	356026	6786073	1288	Soil	Kluane	24-Aug-20	30	rocky ground,Brown
YY09851	8	356074	6786101	1291	Soil	Kluane	24-Aug-20	30	rocky ground,brown
YY09852	8	356112	6786128	1288	Soil	Kluane	24-Aug-20	20	rocky ground,light Brown,sandy
YY09853	8	356154	6786160	1286	Soil	Kluane	24-Aug-20	20	rocky ground,light Brown,sandy
YY09854	8	356199	6786189	1281	Soil	Kluane	24-Aug-20	20	rocky ground,light Brown,sandy
YY09855	8	356238	6786213	1280	Soil	Kluane	24-Aug-20	20	rocky ground,grey,damp
YY09856	8	356282	6786242	1275	Soil	Kluane	24-Aug-20	45	rocky ground,grey,shiny
YY09857	8	356322	6786269	1276	Soil	Kluane	24-Aug-20	30	rocky ground,Brown,sandy
YY09858	8	356364	6786296	1278	Soil	Kluane	24-Aug-20	40	rocky ground,grey
YY09859	8	356405	6786327	1288	Soil	Kluane	24-Aug-20	30	rocky ground,Brown,sandy
YY09860	8	356446	6786355	1294	Soil	Kluane	24-Aug-20	30	rocky ground,brown,quartz
YY09861	8	356490	6786384	1296	Soil	Kluane	24-Aug-20	40	rocky ground,grey,wet
YY09862	8	356533	6786408	1300	Soil	Kluane	24-Aug-20	30	rocky ground,grey
YY09863	8	357136	6786296	1276	Soil	Kluane	25-Aug-20	30	Brown,sandy
YY09864	8	357186	6786301	1280	Soil	Kluane	25-Aug-20	65	Brown,sandy
YY09865	8	357236	6786299	1280	Soil	Kluane	25-Aug-20	25	Brown/grey,,rocky ground
YY09866	8	357287	6786303	1270	Soil	Kluane	25-Aug-20	40	Brown,,rocky ground
YY09867	8	357337	6786300	1260	Soil	Kluane	25-Aug-20	20	Brown,,rocky ground
YY09868	8	357388	6786304	1261	Soil	Kluane	25-Aug-20	25	Brown
YY09869	8	357440	6786302	1258	Soil	Kluane	25-Aug-20	35	Grey,shiny
YY09870	8	357493	6786303	1258	Soil	Kluane	25-Aug-20	40	Brown,sandy
YY09871	8	357544	6786298	1255	Soil	Kluane	25-Aug-20	45	Brown
YY09872	8	357588	6786296	1250	Soil	Kluane	25-Aug-20	30	Brown/grey,sandy
YY09873	8	357638	6786299	1252	Soil	Kluane	25-Aug-20	20	Brown,sandy,,rocky ground
YY09874	8	357692	6786303	1255	Soil	Kluane	25-Aug-20	30	Brown,,rocky ground
YY09875	8	357739	6786303	1260	Soil	Kluane	25-Aug-20	20	brown,,rocky ground
YY09876	8	357797	6786301	1260	Soil	Kluane	25-Aug-20	25	Grey,damp,,rocky ground

YY09877	8	357841	6786296	1252	Soil	Kluane	25-Aug-20	30	Brown/grey,,rocky ground
YY09878	8	357895	6786305	1247	Soil	Kluane	25-Aug-20	30	Brown,,rocky ground
YY09879	8	357938	6786301	1250	Soil	Kluane	25-Aug-20	45	Brown,,rocky ground
YY09880	8	357991	6786300	1249	Soil	Kluane	25-Aug-20	20	Brown,,rocky ground
YY09881	8	358042	6786300	1243	Soil	Kluane	25-Aug-20	30	Brown,sandy,,rocky ground
YY09882	8	358089	6786302	1244	Soil	Kluane	25-Aug-20	20	Brown,sandy,,rocky ground
YY09883	8	358094	6786498	1208	Soil	Kluane	25-Aug-20	60	Black,sandy,,rocky ground
YY09884	8	358010	6786499	1203	Soil	Kluane	25-Aug-20	75	Brown,sandy,moss covered boulders
YY09885	8	357954	6786499	1197	Soil	Kluane	25-Aug-20	60	Black,wet
YY09886	8	357853	6786498	1205	Soil	Kluane	25-Aug-20	60	Black,lots of organic
YY09887	8	357754	6786501	1214	Soil	Kluane	25-Aug-20	65	Brown,shiny
YY09888	8	357657	6786498	1239	Soil	Kluane	25-Aug-20	60	Brown
YY09889	8	357605	6786498	1236	Soil	Kluane	25-Aug-20	20	Brown,rocky ground
YY09890	8	357556	6786499	1239	Soil	Kluane	25-Aug-20	45	Brown,rocky ground
YY09891	8	357504	6786500	1242	Soil	Kluane	25-Aug-20	35	Brown,rocky ground
YY09892	8	357461	6786500	1249	Soil	Kluane	25-Aug-20	50	Brown
YY09893	8	357405	6786501	1257	Soil	Kluane	25-Aug-20	65	Brown,sandy
YY09894	8	357351	6786502	1263	Soil	Kluane	25-Aug-20	50	Brown,sandy
YY09895	8	357304	6786501	1270	Soil	Kluane	25-Aug-20	35	Brown,sandy,shiny
YY09896	8	357248	6786500	1280	Soil	Kluane	25-Aug-20	45	Brown,sandy,shiny
YY09897	8	357206	6786500	1284	Soil	Kluane	25-Aug-20	45	Brown,sandy
YY09898	8	357149	6786495	1297	Soil	Kluane	25-Aug-20	25	Brown ,rocky ground
YY09899	8	357104	6786503	1300	Soil	Kluane	25-Aug-20	25	Brown,rocky ground
YY09900	8	357058	6786497	1299	Soil	Kluane	25-Aug-20	20	Brown,rocky ground
ZZ106214	8	358003	6786900	1177	Soil	Kluane	22-Aug-20	30	Grey,sandy
ZZ106215	8	357950	6786898	1185	Soil	Kluane	22-Aug-20	55	Black,sandy
ZZ106216	8	357899	6786897	1206	Soil	Kluane	22-Aug-20	50	Light brown,sand
ZZ106217	8	357860	6786900	1218	Soil	Kluane	22-Aug-20	65	Grey,shiny
ZZ106218	8	357804	6786905	1236	Soil	Kluane	22-Aug-20	55	Redish brown,quartz
ZZ106219	8	357741	6786905	1242	Soil	Kluane	22-Aug-20	20	Light brown
ZZ106220	8	357707	6786898	1246	Soil	Kluane	22-Aug-20	55	light brown,sandy
ZZ106221	8	357651	6786903	1242	Soil	Kluane	22-Aug-20	45	Black,sandy
ZZ106222	8	357602	6786901	1250	Soil	Kluane	22-Aug-20	70	Brown,sandy
ZZ106223	8	357552	6786899	1254	Soil	Kluane	22-Aug-20	65	Black,wet
ZZ106224	8	357501	6786901	1272	Soil	Kluane	22-Aug-20	40	Grey
ZZ106225	8	357452	6786901	1282	Soil	Kluane	22-Aug-20	45	Light brown,damp
ZZ106226	8	357398	6786901	1268	Soil	Kluane	22-Aug-20	30	Black,moss covered boulders
ZZ106227	8	357347	6786901	1272	Soil	Kluane	22-Aug-20	70	Black,shiny
ZZ106228	8	357305	6786897	1282	Soil	Kluane	22-Aug-20	70	Grey,shiny,wet
ZZ106229	8	357254	6786902	1296	Soil	Kluane	22-Aug-20	55	Dark grey,sandy
ZZ106230	8	357199	6786900	1317	Soil	Kluane	22-Aug-20	30	Brown
ZZ106231	8	357149	6786901	1329	Soil	Kluane	22-Aug-20	25	Brown
ZZ106232	8	357099	6786900	1331	Soil	Kluane	22-Aug-20	30	Brown
ZZ106233	8	357049	6786896	1324	Soil	Kluane	22-Aug-20	60	Grey,very shiny,rust
ZZ106234	8	357004	6786901	1323	Soil	Kluane	22-Aug-20	45	Black,wet,sandy
ZZ106235	8	356953	6786897	1324	Soil	Kluane	22-Aug-20	50	Grey,sandy

ZZ106236	8	356906	6786902	1327	Soil	Kluane	22-Aug-20	15	Brown,quartz
ZZ106237	8	356849	6786900	1331	Soil	Kluane	22-Aug-20	45	Grey,sandy
ZZ106238	8	356806	6786898	1327	Soil	Kluane	22-Aug-20	50	Grey,shiny,rust
ZZ106239	8	356744	6786891	1326	Soil	Kluane	22-Aug-20	30	Blueish grey,rust
ZZ106240	8	356698	6786900	1328	Soil	Kluane	22-Aug-20	25	Grey,wet
ZZ106241	8	356650	6786897	1331	Soil	Kluane	22-Aug-20	50	Dark brown,sandy
ZZ106242	8	356598	6786900	1341	Soil	Kluane	22-Aug-20	25	Brown, moss covered rock
ZZ106243	8	356551	6786902	1346	Soil	Kluane	22-Aug-20	30	Light brown,moss covered rocks
ZZ106244	8	356501	6786905	1351	Soil	Kluane	22-Aug-20	60	Black/grey,shiny
ZZ106245	8	356592	6786291	1285	Soil	Kluane	22-Aug-20	30	Grey
ZZ106246	8	356638	6786302	1282	Soil	Kluane	22-Aug-20	20	Grey
ZZ106247	8	356688	6786300	1281	Soil	Kluane	22-Aug-20	15	Grey,rust
ZZ106248	8	356733	6786301	1288	Soil	Kluane	22-Aug-20	45	Redish brown
ZZ106249	8	356780	6786300	1291	Soil	Kluane	22-Aug-20	30	grey
ZZ109731	8	356294	6786496	1347	Soil	Kluane	23-Aug-20	20	Rocky hillside,Black
ZZ109732	8	356376	6786554	1342	Soil	Kluane	23-Aug-20	20	Rocky hillside,dark grey,damp
ZZ109733	8	356418	6786581	1338	Soil	Kluane	23-Aug-20	55	Rocky hillside,black,wet
ZZ109734	8	356459	6786604	1339	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109735	8	356406	6786690	1355	Soil	Kluane	23-Aug-20	30	Rocky hillside,black
ZZ109736	8	356359	6786655	1362	Soil	Kluane	23-Aug-20	20	Rocky hillside,Grey,wet
ZZ109737	8	356321	6786632	1367	Soil	Kluane	23-Aug-20	40	Rocky hillside,black
ZZ109738	8	356281	6786605	1377	Soil	Kluane	23-Aug-20	50	Rocky hillside,dark brown
ZZ109739	8	356235	6786574	1400	Soil	Kluane	23-Aug-20	25	Rocky hillside,brown
ZZ109740	8	356191	6786547	1404	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109741	8	356152	6786521	1413	Soil	Kluane	23-Aug-20	15	Rocky hillside,brown
ZZ109742	8	356111	6786497	1417	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109743	8	356067	6786463	1431	Soil	Kluane	23-Aug-20	15	Rocky hillside,brown
ZZ109744	8	356029	6786437	1442	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109745	8	355985	6786409	1453	Soil	Kluane	23-Aug-20	15	Rocky hillside,brown
ZZ109746	8	355949	6786375	1464	Soil	Kluane	23-Aug-20	30	Rocky hillside,brown
ZZ109747	8	355900	6786350	1487	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109748	8	355859	6786326	1500	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109749	8	355819	6786303	1506	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109750	8	355777	6786270	1519	Soil	Kluane	23-Aug-20	15	Rocky hillside,brown
ZZ109751	8	355735	6786250	1514	Soil	Kluane	23-Aug-20	30	Rocky hillside,brown
ZZ109752	8	355653	6786187	1519	Soil	Kluane	23-Aug-20	10	Rocky hillside,brown
ZZ109753	8	355614	6786165	1523	Soil	Kluane	23-Aug-20	10	Rocky hillside,brown
ZZ109754	8	355570	6786132	1525	Soil	Kluane	23-Aug-20	20	Rocky hillside,brown
ZZ109755	8	356543	6786303	1278	Soil	Kluane	24-Aug-20	55	rocky ground,grey,sandy
ZZ109756	8	356494	6786273	1270	Soil	Kluane	24-Aug-20	30	rocky ground,dark grey
ZZ109757	8	356455	6786245	1265	Soil	Kluane	24-Aug-20	30	rocky ground,grey
ZZ109758	8	356413	6786218	1262	Soil	Kluane	24-Aug-20	25	rocky ground,grey
ZZ109759	8	356373	6786191	1254	Soil	Kluane	24-Aug-20	25	rocky ground,grey,sandy
ZZ109760	8	356330	6786165	1251	Soil	Kluane	24-Aug-20	30	rocky ground,Brown,sandy
ZZ122694	8	358220	6787302	1122	Soil	Kluane	20-Aug-20	30	Grey,damp
ZZ122695	8	358169	6787302	1130	Soil	Kluane	20-Aug-20	80	Grey
ZZ122696	8	358113	6787299	1138	Soil	Kluane	20-Aug-20	55	Grey, shiny

ZZ122697	8	358069	6787300	1146	Soil	Kluane	20-Aug-20	45	Grey,shiny, very wet
ZZ122698	8	358019	6787302	1157	Soil	Kluane	20-Aug-20	50	Grey,brownish, lots of organics
ZZ122699	8	357964	6787301	1173	Soil	Kluane	20-Aug-20	20	light brown
ZZ122700	8	357915	6787305	1177	Soil	Kluane	20-Aug-20	30	Grey,shiny,sandy
ZZ122701	8	357865	6787302	1188	Soil	Kluane	20-Aug-20	30	Light brown,sandy
ZZ122702	8	357814	6787305	1191	Soil	Kluane	20-Aug-20	30	Grey
ZZ122703	8	357765	6787304	1197	Soil	Kluane	20-Aug-20	40	Light brown
ZZ122704	8	357706	6787303	1198	Soil	Kluane	20-Aug-20	45	Grey,damp
ZZ122705	8	357665	6787302	1202	Soil	Kluane	20-Aug-20	70	Grey,shiny,very wet
ZZ122706	8	357615	6787304	1208	Soil	Kluane	20-Aug-20	65	Grey,sandy,very wet
ZZ122707	8	357562	6787303	1221	Soil	Kluane	20-Aug-20	45	Black, very wet
ZZ122708	8	357517	6787303	1233	Soil	Kluane	20-Aug-20	60	Grey,quartz,sandy
ZZ122709	8	357466	6787301	1247	Soil	Kluane	20-Aug-20	30	Brownish grey, sandy
ZZ122710	8	357416	6787304	1252	Soil	Kluane	20-Aug-20	20	Brownish grey,sandy
ZZ122711	8	357365	6787304	1255	Soil	Kluane	20-Aug-20	20	Brownish grey,sandy
ZZ122712	8	357314	6787301	1258	Soil	Kluane	20-Aug-20	50	Black,shiny,very wet
ZZ122713	8	357264	6787306	1266	Soil	Kluane	20-Aug-20	25	Black with white sand
ZZ122714	8	357211	6787301	1274	Soil	Kluane	20-Aug-20	55	Dark brown,very wet
ZZ122715	8	357163	6787303	1274	Soil	Kluane	20-Aug-20	55	Black, partially frozen
ZZ122716	8	357112	6787304	1289	Soil	Kluane	20-Aug-20	50	Black and grey,sandy
ZZ122717	8	357062	6787302	1305	Soil	Kluane	20-Aug-20	60	Dark brown, lots of organic,sandy
ZZ122718	8	357014	6787298	1315	Soil	Kluane	20-Aug-20	55	Dark grey, moss covered boulders
ZZ122719	8	356962	6787302	1317	Soil	Kluane	20-Aug-20	30	Dark grey,sandy,shiny
ZZ122720	8	356910	6787303	1315	Soil	Kluane	20-Aug-20	30	Dark brown,partially frozen
ZZ122721	8	356863	6787298	1315	Soil	Kluane	20-Aug-20	30	Grey,partially frozen
ZZ122722	8	356813	6787299	1323	Soil	Kluane	20-Aug-20	35	Grey, sandy
ZZ122723	8	356762	6787300	1328	Soil	Kluane	20-Aug-20	20	Grey,damp
ZZ122724	8	356711	6787302	1332	Soil	Kluane	20-Aug-20	50	Grey,damp
ZZ122725	8	356658	6787301	1335	Soil	Kluane	20-Aug-20	45	Grey,partially frozen
ZZ122726	8	356610	6787300	1334	Soil	Kluane	20-Aug-20	40	Grey,damp,sandy
ZZ122727	8	356562	6787299	1339	Soil	Kluane	20-Aug-20	60	Grey,very wet
ZZ122728	8	356510	6787301	1335	Soil	Kluane	20-Aug-20	30	Grey,shiny,very wet
ZZ122729	8	356460	6787302	1342	Soil	Kluane	20-Aug-20	60	Grey,partially frozen
ZZ122730	8	356412	6787304	1350	Soil	Kluane	20-Aug-20	60	Black,partially frozen
ZZ122731	8	356358	6787301	1358	Soil	Kluane	20-Aug-20	45	Brown, moss covered boulder,damp
ZZ122732	8	356311	6787303	1367	Soil	Kluane	20-Aug-20	50	Grey,moss covered boulders, sandy
ZZ122733	8	356260	6787301	1379	Soil	Kluane	20-Aug-20	60	Dark grey,moss covered boulders,very wet
ZZ122734	8	356208	6787298	1389	Soil	Kluane	20-Aug-20	70	Dark grey,moss covered boulders,very wet
ZZ122735	8	358241	6787099	1122	Soil	Kluane	21-Aug-20	60	Black,very wet,lots of organic
ZZ122736	8	358196	6787097	1126	Soil	Kluane	21-Aug-20	60	Black,moss cover boulders
ZZ122737	8	358141	6787101	1136	Soil	Kluane	21-Aug-20	30	Black,moss cover boulder

ZZ122738	8	358096	6787100	1148	Soil	Kluane	21-Aug-20	45	Black,sandy
ZZ122739	8	358047	6787100	1158	Soil	Kluane	21-Aug-20	50	Dark grey,sandy
ZZ122740	8	357992	6787099	1167	Soil	Kluane	21-Aug-20	50	Black with white sand
ZZ122741	8	357940	6787099	1172	Soil	Kluane	21-Aug-20	30	Black/grey,damp
ZZ122742	8	357895	6787099	1182	Soil	Kluane	21-Aug-20	30	Grey
ZZ122743	8	357838	6787101	1180	Soil	Kluane	21-Aug-20	30	Black/grey,shiny
ZZ122744	8	357797	6787100	1178	Soil	Kluane	21-Aug-20	30	Black with white sand
ZZ122745	8	357745	6787099	1184	Soil	Kluane	21-Aug-20	50	Black,shiny
ZZ122746	8	357698	6787099	1187	Soil	Kluane	21-Aug-20	25	Grey,shiny
ZZ122747	8	357646	6787101	1192	Soil	Kluane	21-Aug-20	50	Black,very wet
ZZ122748	8	357590	6787096	1204	Soil	Kluane	21-Aug-20	65	Grey,shiny
ZZ122749	8	357545	6787098	1219	Soil	Kluane	21-Aug-20	40	Grey,shiny,sandy
ZZ122947	8	358170	6786697	1131	Soil	Kluane	22-Aug-20	60	Greyish blue, swampy valley, Glacial till?
ZZ122948	8	358069	6786693	1135	Soil	Kluane	22-Aug-20	70	Brown, seampy valley, frozen
ZZ122949	8	358020	6786696	1146	Soil	Kluane	22-Aug-20	80	Brown, mossy forest frozen
ZZ122950	8	357968	6786707	1160	Soil	Kluane	22-Aug-20	45	Brown, mossy forest, out crop
ZZ122951	8	357924	6786698	1166	Soil	Kluane	22-Aug-20	50	Brwon, mossy forest, out crop
ZZ122952	8	357871	6786695	1170	Soil	Kluane	22-Aug-20	50	Brown, dirt patch close to out crop, at treeline
ZZ122953	8	357815	6786696	1187	Soil	Kluane	22-Aug-20	50	Brown, alder forest
ZZ122954	8	357769	6786697	1198	Soil	Kluane	22-Aug-20	40	Brown, dirt slope, out crop
ZZ122955	8	357719	6786696	1206	Soil	Kluane	22-Aug-20	50	Brown, brushy slope
ZZ122956	8	357670	6786698	1230	Soil	Kluane	22-Aug-20	40	Brown, dirt patch, out crop
ZZ122957	8	357621	6786703	1235	Soil	Kluane	22-Aug-20	40	Brown, dirt patch, out crop
ZZ122958	8	357565	6786697	1250	Soil	Kluane	22-Aug-20	50	Brown, dirt patch, out crop
ZZ122959	8	357502	6786691	1260	Soil	Kluane	22-Aug-20	70	Brown, brushy ridge, muddy
ZZ122960	8	357421	6786689	1267	Soil	Kluane	22-Aug-20	50	Brown, brushy rideg, on top of out crop
ZZ122961	8	357369	6786693	1281	Soil	Kluane	22-Aug-20	50	Brown, ridge, brushy
ZZ122962	8	357316	6786696	1287	Soil	Kluane	22-Aug-20	50	Brown, brushy
ZZ122963	8	357261	6786702	1294	Soil	Kluane	22-Aug-20	50	Brown, ridge, brushy
ZZ122964	8	357218	6786697	1294	Soil	Kluane	22-Aug-20	50	Brown, Brushy
ZZ122965	8	357169	6786698	1309	Soil	Kluane	22-Aug-20	50	Brown, brushy
ZZ122966	8	357117	6786709	1326	Soil	Kluane	22-Aug-20	50	Brown, brushy
ZZ122967	8	357074	6786698	1318	Soil	Kluane	22-Aug-20	50	Brown, brushy
ZZ122968	8	357018	6786701	1315	Soil	Kluane	22-Aug-20	50	Brown, swampy, brushy
ZZ122969	8	356971	6786699	1321	Soil	Kluane	22-Aug-20	50	Brown, brushy, thick ground cover
ZZ122970	8	356920	6786698	1327	Soil	Kluane	22-Aug-20	50	Brown, shrubby forest
ZZ122971	8	356870	6786697	1319	Soil	Kluane	22-Aug-20	50	Brown, shrubby
ZZ122972	8	356821	6786700	1314	Soil	Kluane	22-Aug-20	50	Brown, shrubby forest

ZZ122973	8	356771	6786701	1311	Soil	Kluane	22-Aug-20	60	Greyish blue, swampy forest, glacial till?
ZZ122974	8	356714	6786700	1315	Soil	Kluane	22-Aug-20	50	Brown, forest
ZZ122975	8	356671	6786702	1318	Soil	Kluane	22-Aug-20	50	Brown, forest
ZZ122976	8	356626	6786698	1321	Soil	Kluane	22-Aug-20	50	grey, clayish, swampy
ZZ122977	8	356569	6786703	1332	Soil	Kluane	22-Aug-20	50	Brown, rocky
ZZ122978	8	356521	6786706	1337	Soil	Kluane	22-Aug-20	50	Brown, outcrop
ZZ122979	8	356452	6786697	1347	Soil	Kluane	22-Aug-20	50	Brown, outcrop
ZZ122980	8	356540	6786499	1318	Soil	Kluane	22-Aug-20	40	Brown, out crop, boulders
ZZ122981	8	356598	6786501	1315	Soil	Kluane	22-Aug-20	50	Brown, outcrop, dirt patch
ZZ122982	8	356651	6786499	1308	Soil	Kluane	22-Aug-20	50	Brown, dirt patch in forest
ZZ122983	8	356699	6786497	1303	Soil	Kluane	22-Aug-20	50	Brown, dirt patch in forest
ZZ122984	8	356753	6786502	1293	Soil	Kluane	22-Aug-20	50	Brown, forest floor
ZZ122985	8	356793	6786496	1288	Soil	Kluane	22-Aug-20	50	Brown, forest floor
ZZ122986	8	356897	6786500	1289	Soil	Kluane	22-Aug-20	50	Brown, forest floor
ZZ122987	8	356957	6786506	1302	Soil	Kluane	22-Aug-20	50	Brown, ridge, out cfp brushy
ZZ122988	8	357002	6786498	1302	Soil	Kluane	22-Aug-20	40	Brown, out crop, ridge, brushy
ZZ122989	8	357047	6786303	1277	Soil	Kluane	25-Aug-20	75	Grey,wet
ZZ122990	8	357086	6786298	1278	Soil	Kluane	25-Aug-20	25	Brown,sandy,rocky ground
ZZ91141	8	356240	6787099	1419	Soil	Kluane	21-Aug-20	20	Grey,sandy,shiny
ZZ91142	8	356291	6787099	1401	Soil	Kluane	21-Aug-20	35	Grey,damp
ZZ91143	8	356339	6787104	1385	Soil	Kluane	21-Aug-20	20	Black
ZZ91144	8	358195	6786904	1147	Soil	Kluane	22-Aug-20	20	Grey and orangy
ZZ91145	8	358154	6786902	1149	Soil	Kluane	22-Aug-20	60	Grey/brown,sandy
ZZ91146	8	358101	6786903	1161	Soil	Kluane	22-Aug-20	45	black,partially frozen
ZZ91147	8	358050	6786897	1165	Soil	Kluane	22-Aug-20	35	Grey,shiny
ZZ93488	8	356993	6787100	1340	Soil	Kluane	21-Aug-20	20	Brown,moss cover rocks
ZZ93489	8	356940	6787098	1330	Soil	Kluane	21-Aug-20	20	Brown,moss cover rocks
ZZ93490	8	356891	6787100	1330	Soil	Kluane	21-Aug-20	20	Brown,moss cover rocks
ZZ93491	8	356841	6787097	1328	Soil	Kluane	21-Aug-20	20	Brown,moss cover rocks,sandy
ZZ93492	8	356785	6787097	1331	Soil	Kluane	21-Aug-20	25	Brown,moss cover rocks
ZZ93493	8	356743	6787100	1335	Soil	Kluane	21-Aug-20	20	Brown,moss cover rocks
ZZ93494	8	356689	6787097	1345	Soil	Kluane	21-Aug-20	30	Brown
ZZ93495	8	356641	6787103	1353	Soil	Kluane	21-Aug-20	45	Grey,wet
ZZ93496	8	356590	6787102	1358	Soil	Kluane	21-Aug-20	60	Grey,partially frozen
ZZ93497	8	356538	6787100	1365	Soil	Kluane	21-Aug-20	30	Grey
ZZ93498	8	356492	6787098	1368	Soil	Kluane	21-Aug-20	30	Grey,shiny
ZZ93499	8	356439	6787100	1373	Soil	Kluane	21-Aug-20	45	Grey,clay,wet
ZZ93500	8	356391	6787103	1375	Soil	Kluane	21-Aug-20	45	Black



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CERTIFICATE WH20187902

Project: Kluane

This report is for 300 Soil samples submitted to our lab in Whitehorse, YT, Canada on 28-AUG-2020.

The following have access to data associated with this certificate:

HEATHER BURRELL
JACK MORTON

MATT DUMALA
SCOTT NEWMAN

STEVE ISRAEL
LIZ SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

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:

Saa Traxler, General Manager, North Vancouver



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
CC102531		0.29	0.004	0.2	1.54	55	<10	110	<0.5	<2	0.26	<0.5	10	44	21	2.85
CC102532		0.25	0.012	0.3	1.67	114	<10	300	<0.5	<2	1.99	<0.5	15	43	53	2.18
CC102533		0.36	0.026	<0.2	2.21	157	<10	230	<0.5	<2	0.46	<0.5	14	57	31	3.26
CC102534		0.43	0.028	<0.2	2.06	101	<10	310	<0.5	<2	0.90	<0.5	14	56	27	2.99
CC102535		0.43	0.080	<0.2	2.43	218	<10	270	<0.5	<2	0.58	<0.5	17	63	47	3.21
CC102536		0.24	0.011	0.2	1.51	194	<10	260	<0.5	<2	1.98	<0.5	13	39	37	2.19
CC102537		0.34	0.014	0.2	2.31	136	<10	260	<0.5	2	0.82	<0.5	16	59	54	2.92
CC102538		0.27	0.017	<0.2	2.11	161	<10	140	<0.5	<2	0.46	<0.5	11	49	37	2.74
CC102539		0.36	0.015	<0.2	2.31	234	<10	140	<0.5	<2	0.34	<0.5	14	58	25	3.01
CC102540		0.43	0.013	<0.2	2.65	113	<10	210	0.5	<2	0.33	<0.5	15	72	32	3.68
CC113951		0.34	0.010	<0.2	2.14	116	<10	130	<0.5	<2	0.35	<0.5	13	57	22	3.17
CC113952		0.38	0.013	0.2	2.27	129	<10	180	<0.5	<2	0.42	<0.5	14	61	34	3.19
CC113953		0.39	0.009	0.2	2.43	89	<10	250	0.5	<2	0.38	<0.5	21	61	39	3.55
CC113954		0.35	0.025	0.3	2.51	604	<10	100	0.7	<2	0.37	<0.5	15	59	39	4.09
CC113955		0.28	0.553	0.3	2.64	1630	<10	270	0.7	<2	1.00	<0.5	30	82	97	4.67
CC113956		0.32	0.449	0.3	2.28	1320	10	240	0.6	<2	1.19	<0.5	33	77	84	4.06
CC113957		0.28	0.127	0.2	2.35	431	<10	350	0.5	<2	1.48	0.5	32	64	80	3.98
CC113958		0.15	0.023	0.2	0.99	169	10	280	<0.5	<2	2.15	<0.5	14	31	45	1.55
CC113959		0.39	0.382	0.2	2.40	568	<10	250	0.6	<2	0.89	<0.5	26	77	68	3.87
CC113960		0.34	0.163	0.2	2.93	544	<10	340	0.6	<2	1.19	<0.5	37	65	87	4.20
CC113961		0.32	0.106	0.3	3.08	924	<10	260	0.5	<2	0.98	<0.5	32	108	101	4.27
CC113962		0.30	0.069	<0.2	3.18	593	<10	320	0.6	<2	0.93	<0.5	28	103	75	4.48
CC113963		0.28	0.030	0.2	2.08	244	<10	280	<0.5	<2	1.58	0.5	20	64	54	3.19
CC113964		0.24	0.005	<0.2	1.03	76	<10	120	<0.5	<2	0.48	<0.5	13	31	32	1.97
CC113965		0.26	0.025	0.3	1.83	157	<10	230	<0.5	<2	1.29	<0.5	21	56	79	3.12
CC113966		0.29	0.053	0.2	2.05	172	<10	210	<0.5	<2	1.14	<0.5	21	59	74	3.36
CC113967		0.40	0.038	0.2	2.68	230	<10	230	0.5	<2	0.78	<0.5	18	79	112	4.08
CC113968		0.26	0.050	0.2	2.24	335	<10	230	<0.5	<2	0.85	<0.5	18	66	76	3.55
YY09831		0.36	0.111	0.2	1.86	124	<10	180	<0.5	<2	0.57	<0.5	13	55	39	2.92
YY09832		0.37	0.009	<0.2	1.18	80	<10	170	<0.5	<2	1.19	<0.5	11	37	59	2.16
YY09833		0.32	0.025	<0.2	1.80	117	<10	220	<0.5	<2	0.97	<0.5	14	55	48	2.85
YY09834		0.42	0.023	0.2	1.92	114	<10	220	<0.5	<2	1.28	<0.5	16	57	47	3.04
YY09835		0.41	0.010	0.2	2.34	116	<10	260	<0.5	<2	0.76	<0.5	18	72	44	3.58
YY09836		0.34	0.013	<0.2	2.25	115	<10	230	<0.5	<2	0.51	<0.5	16	63	52	3.42
YY09837		0.39	0.007	0.4	2.16	94	<10	190	<0.5	<2	0.48	<0.5	24	63	40	3.88
YY09838		0.42	0.010	<0.2	2.31	99	<10	160	<0.5	<2	0.30	<0.5	16	62	27	3.55
YY09839		0.38	0.045	0.2	2.76	187	<10	400	0.6	<2	0.77	<0.5	24	90	55	4.04
YY09840		0.30	0.031	0.3	2.23	645	<10	240	0.6	<2	1.19	<0.5	24	63	88	3.40
YY09841		0.29	0.008	0.2	1.94	342	<10	150	0.5	<2	0.62	<0.5	13	59	50	3.22
YY09842		0.36	0.078	0.2	3.14	737	<10	290	0.6	<2	0.69	<0.5	21	109	83	4.54



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Sample Description	Method Analyte Units LOD	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 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
CC102531		10	<1	0.12	10	0.55	178	1	0.02	22	400	6	0.02	<2	3
CC102532		10	1	0.16	10	0.55	993	1	0.03	33	1020	4	0.13	<2	3
CC102533		10	<1	0.14	10	0.82	284	1	0.02	33	620	5	0.01	2	5
CC102534		10	<1	0.26	10	0.88	326	1	0.03	29	1180	4	0.02	<2	5
CC102535		10	<1	0.28	10	0.95	329	1	0.03	40	1120	3	0.02	<2	6
CC102536		10	1	0.15	10	0.58	484	2	0.03	25	1200	4	0.15	2	2
CC102537		10	<1	0.20	10	0.82	397	3	0.03	38	1000	4	0.04	<2	5
CC102538		10	<1	0.16	10	0.70	213	3	0.03	30	560	3	0.05	<2	4
CC102539		10	1	0.19	10	0.82	266	1	0.03	42	730	4	0.01	2	6
CC102540		10	<1	0.21	10	1.02	332	1	0.02	42	300	5	0.02	<2	7
CC113951		10	<1	0.46	10	0.88	251	1	0.02	34	610	5	0.02	<2	6
CC113952		10	1	0.38	10	0.88	298	1	0.02	40	590	4	0.04	<2	5
CC113953		10	<1	0.16	10	0.86	758	1	0.02	37	630	7	0.01	<2	6
CC113954		10	<1	0.16	10	0.80	349	2	0.02	42	350	7	0.02	<2	5
CC113955		10	<1	0.62	10	1.08	568	1	0.03	81	1040	7	0.13	2	7
CC113956		10	1	0.59	10	1.02	806	1	0.02	78	1250	7	0.13	2	6
CC113957		10	<1	0.73	10	1.20	728	1	0.04	74	1500	3	0.10	<2	7
CC113958		<10	1	0.37	<10	0.55	358	1	0.02	35	840	2	0.14	<2	3
CC113959		10	1	0.60	10	1.01	660	1	0.04	64	1020	6	0.11	<2	6
CC113960		10	1	0.52	10	1.26	998	1	0.07	72	880	4	0.09	2	7
CC113961		10	1	0.72	10	1.42	625	1	0.05	99	1160	5	0.05	<2	8
CC113962		10	1	0.80	10	1.42	674	2	0.04	82	940	5	0.08	4	9
CC113963		10	<1	0.52	10	0.96	585	1	0.04	49	1080	4	0.09	<2	5
CC113964		<10	<1	0.26	<10	0.48	387	1	0.02	22	730	2	0.03	<2	3
CC113965		10	1	0.48	10	0.80	615	1	0.03	54	850	5	0.06	<2	4
CC113966		10	1	0.52	10	0.94	641	1	0.03	52	930	6	0.07	<2	5
CC113967		10	1	0.50	10	1.28	479	2	0.03	64	1140	6	0.03	2	9
CC113968		10	<1	0.48	10	1.01	538	1	0.03	54	920	5	0.05	2	6
YY09831		10	<1	0.53	10	0.87	351	1	0.03	37	800	4	0.02	2	6
YY09832		<10	1	0.41	<10	0.61	307	1	0.03	30	780	2	0.05	<2	3
YY09833		10	1	0.59	10	0.90	379	1	0.03	41	1010	3	0.03	<2	6
YY09834		10	1	0.68	10	0.99	442	1	0.03	44	980	2	0.05	<2	6
YY09835		10	<1	0.89	10	1.08	414	<1	0.03	52	640	5	0.02	2	8
YY09836		10	1	0.77	10	0.98	404	1	0.03	50	700	4	0.03	2	7
YY09837		10	<1	0.56	10	0.99	641	1	0.02	48	530	8	0.02	<2	6
YY09838		10	1	0.68	10	1.01	334	1	0.02	42	560	5	0.02	<2	7
YY09839		10	<1	0.92	<10	1.06	724	1	0.04	60	940	5	0.03	3	10
YY09840		10	1	0.51	10	0.93	748	2	0.03	65	1140	5	0.11	<2	4
YY09841		10	1	0.48	10	0.90	328	1	0.02	44	690	5	0.06	<2	4
YY09842		10	1	0.88	10	1.36	488	1	0.04	82	700	6	0.04	2	10



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC102531		<20	0.11	<10	<10	73	<10
CC102532		<20	0.07	<10	<10	54	<10
CC102533		<20	0.14	<10	<10	85	<10
CC102534		<20	0.15	<10	<10	76	<10
CC102535		<20	0.15	<10	<10	81	<10
CC102536		<20	0.07	<10	<10	51	<10
CC102537		<20	0.12	<10	<10	78	<10
CC102538		<20	0.13	<10	<10	73	<10
CC102539		<20	0.14	<10	<10	81	<10
CC102540		<20	0.17	<10	<10	101	<10
CC113951		<20	0.14	<10	<10	84	<10
CC113952		<20	0.13	<10	<10	86	<10
CC113953		<20	0.13	<10	<10	88	<10
CC113954		<20	0.14	<10	<10	99	<10
CC113955		<20	0.15	<10	<10	108	<10
CC113956		<20	0.13	<10	<10	97	10
CC113957		<20	0.14	<10	<10	91	<10
CC113958		<20	0.07	<10	<10	41	<10
CC113959		<20	0.15	<10	<10	98	<10
CC113960		<20	0.13	<10	<10	106	<10
CC113961		<20	0.18	<10	<10	112	<10
CC113962		<20	0.21	<10	<10	126	<10
CC113963		<20	0.13	<10	<10	85	<10
CC113964		<20	0.10	<10	<10	56	<10
CC113965		<20	0.11	<10	<10	77	<10
CC113966		<20	0.12	<10	<10	83	<10
CC113967		<20	0.20	<10	<10	116	<10
CC113968		<20	0.14	<10	<10	94	<10
YY09831		<20	0.13	<10	<10	80	<10
YY09832		<20	0.09	<10	<10	61	<10
YY09833		<20	0.13	<10	<10	78	<10
YY09834		<20	0.13	<10	<10	81	<10
YY09835		<20	0.19	<10	<10	102	<10
YY09836		<20	0.16	<10	<10	89	<10
YY09837		<20	0.15	<10	<10	91	<10
YY09838		<20	0.15	<10	<10	91	<10
YY09839		<20	0.23	<10	<10	125	10
YY09840		<20	0.10	<10	<10	86	<10
YY09841		<20	0.13	<10	<10	82	<10
YY09842		<20	0.23	<10	<10	133	<10



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY09843		0.33	0.015	0.4	2.32	394	<10	260	0.5	<2	1.09	<0.5	23	57	137	3.54
YY09844		0.30	0.012	0.5	1.01	69	<10	220	<0.5	<2	0.75	1.2	15	30	57	1.86
YY09845		0.29	0.021	0.3	2.19	474	<10	280	0.5	<2	1.58	0.7	28	65	94	3.51
YY09846		0.28	0.109	0.4	3.45	841	<10	330	1.2	<2	1.25	<0.5	45	97	228	4.80
YY09847		0.32	0.070	0.3	2.25	304	<10	310	0.6	<2	1.54	0.8	26	73	79	3.33
YY09848		0.39	0.028	<0.2	2.07	134	<10	180	<0.5	<2	0.54	<0.5	15	60	39	3.32
YY09849		0.34	0.040	0.2	1.86	87	<10	180	<0.5	<2	0.49	<0.5	17	53	47	3.10
YY09850		0.35	0.027	<0.2	2.04	310	<10	180	<0.5	<2	0.92	<0.5	21	62	58	3.43
YY09851		0.42	0.025	0.2	2.09	89	<10	170	<0.5	<2	0.60	<0.5	17	59	31	3.38
YY09852		0.38	0.021	<0.2	2.15	128	<10	150	<0.5	<2	0.32	<0.5	19	59	34	3.60
YY09853		0.31	0.051	<0.2	2.04	189	<10	130	<0.5	<2	0.52	<0.5	15	65	25	3.29
YY09854		0.40	0.009	0.2	1.96	84	<10	160	<0.5	<2	0.48	<0.5	19	56	31	3.62
YY09855		0.47	0.092	<0.2	2.01	83	<10	190	<0.5	<2	0.73	<0.5	14	59	33	3.17
YY09856		0.47	0.012	<0.2	1.99	138	<10	170	<0.5	<2	0.65	<0.5	17	59	52	3.39
YY09857		0.30	0.009	<0.2	1.58	114	<10	200	<0.5	<2	0.91	<0.5	16	49	26	3.04
YY09858		0.43	0.023	<0.2	2.03	90	<10	210	<0.5	<2	0.91	<0.5	14	61	39	3.24
YY09859		0.36	0.016	<0.2	1.77	91	<10	160	<0.5	<2	0.69	<0.5	14	52	31	2.74
YY09860		0.38	0.128	0.2	2.06	177	<10	180	<0.5	<2	0.67	<0.5	17	60	59	3.19
YY09861		0.42	0.027	<0.2	1.97	234	<10	160	<0.5	<2	0.45	<0.5	13	65	37	3.13
YY09862		0.38	0.018	0.2	2.19	333	<10	210	0.5	<2	0.89	<0.5	16	63	95	3.33
YY09863		0.41	0.021	<0.2	3.17	159	<10	250	<0.5	<2	1.07	<0.5	24	61	61	4.01
YY09864		0.32	0.007	0.2	1.47	205	<10	190	<0.5	<2	0.60	<0.5	13	37	50	2.51
YY09865		0.44	0.010	<0.2	2.26	143	<10	110	<0.5	<2	0.33	<0.5	15	56	26	3.31
YY09866		0.35	0.012	<0.2	2.55	131	<10	60	0.6	<2	0.30	<0.5	19	56	36	3.39
YY09867		0.37	0.017	<0.2	2.12	77	<10	90	<0.5	<2	0.32	<0.5	14	57	23	3.13
YY09868		0.48	0.015	0.2	2.08	254	<10	240	<0.5	<2	0.65	<0.5	16	65	45	2.90
YY09869		0.48	0.012	<0.2	1.99	120	<10	210	<0.5	<2	0.56	<0.5	14	57	44	2.91
YY09870		0.35	0.006	0.2	2.10	55	<10	250	<0.5	<2	0.40	<0.5	18	53	36	3.24
YY09871		0.41	0.017	<0.2	2.12	89	<10	170	<0.5	<2	0.46	<0.5	14	54	32	2.94
YY09872		0.42	0.007	<0.2	2.16	73	<10	150	<0.5	<2	0.44	<0.5	15	54	38	3.31
YY09873		0.37	0.010	<0.2	2.06	85	<10	60	<0.5	<2	0.22	<0.5	11	54	21	3.19
YY09874		0.33	0.011	<0.2	2.69	87	<10	80	0.5	<2	0.34	<0.5	11	55	39	2.90
YY09875		0.44	0.012	<0.2	1.94	90	<10	100	<0.5	<2	0.41	<0.5	13	49	30	2.61
YY09876		0.49	0.025	<0.2	2.28	106	<10	130	<0.5	<2	0.40	<0.5	13	55	37	2.65
YY09877		0.39	0.007	0.3	2.03	41	<10	300	<0.5	<2	0.45	<0.5	22	49	50	3.33
YY09878		0.51	0.005	<0.2	2.00	30	<10	110	<0.5	<2	0.25	<0.5	11	47	40	2.54
YY09879		0.43	0.008	<0.2	2.25	99	<10	180	<0.5	<2	0.43	<0.5	14	57	37	3.14
YY09880		0.47	0.011	<0.2	2.63	82	<10	200	<0.5	<2	0.30	<0.5	15	62	44	3.26
YY09881		0.40	0.005	<0.2	1.77	58	<10	110	<0.5	<2	0.33	<0.5	12	48	21	2.82
YY09882		0.30	0.002	<0.2	0.73	9	<10	50	<0.5	<2	0.23	<0.5	6	19	18	1.71



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	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 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
YY09843		10	<1	0.51	10	0.92	669	1	0.03	68	580	6	0.06	2	6
YY09844		<10	<1	0.23	<10	0.41	536	1	0.03	42	640	3	0.05	<2	2
YY09845		10	1	0.31	10	0.93	856	2	0.03	69	1130	5	0.10	<2	5
YY09846		10	1	0.64	10	1.22	919	2	0.04	129	1340	8	0.11	2	9
YY09847		10	<1	0.75	10	0.94	778	1	0.04	71	1080	4	0.08	2	6
YY09848		10	1	0.62	10	0.91	407	1	0.03	42	690	4	0.02	2	6
YY09849		10	<1	0.41	10	0.82	493	1	0.02	39	690	5	0.02	2	5
YY09850		10	<1	0.43	10	0.97	507	1	0.02	47	800	6	0.05	2	5
YY09851		10	<1	0.46	10	0.96	434	1	0.02	41	600	5	0.02	<2	6
YY09852		10	1	0.29	10	0.94	465	1	0.02	41	680	5	0.01	<2	6
YY09853		10	1	0.35	10	0.95	400	1	0.02	36	530	5	0.02	<2	6
YY09854		10	<1	0.24	10	0.87	445	2	0.02	36	390	7	0.02	<2	5
YY09855		10	<1	0.46	10	0.98	448	1	0.03	42	900	4	0.02	2	7
YY09856		10	<1	0.35	10	0.97	472	1	0.02	42	730	7	0.04	<2	5
YY09857		10	<1	0.23	10	0.77	643	2	0.03	24	680	7	0.07	<2	4
YY09858		10	<1	0.45	10	0.98	408	1	0.03	39	860	3	0.03	<2	7
YY09859		10	<1	0.43	10	0.81	355	1	0.03	35	650	3	0.03	<2	5
YY09860		10	1	0.51	10	0.93	483	1	0.03	54	680	7	0.06	<2	5
YY09861		10	<1	0.46	10	1.02	328	1	0.03	40	250	5	0.02	<2	6
YY09862		10	1	0.37	10	0.96	394	1	0.03	56	890	6	0.07	<2	5
YY09863		10	1	0.42	10	1.50	290	1	0.07	45	2850	4	0.03	2	8
YY09864		10	1	0.06	10	0.46	472	1	0.03	32	650	5	0.05	<2	3
YY09865		10	<1	0.10	10	0.78	222	1	0.02	36	340	6	0.02	<2	5
YY09866		10	1	0.19	10	0.83	258	1	0.01	47	560	7	0.03	<2	5
YY09867		10	1	0.17	10	0.80	214	1	0.02	32	370	5	0.02	<2	5
YY09868		10	<1	0.32	10	0.92	273	1	0.04	43	830	4	0.04	<2	6
YY09869		10	<1	0.25	10	0.87	322	1	0.03	43	820	4	0.02	2	6
YY09870		10	1	0.10	10	0.74	591	1	0.02	33	560	6	0.02	2	5
YY09871		10	1	0.18	10	0.82	390	1	0.03	33	840	4	0.02	<2	6
YY09872		10	<1	0.17	10	0.77	379	1	0.03	35	700	5	0.02	2	5
YY09873		10	1	0.16	<10	0.76	212	1	0.02	32	330	5	0.02	<2	4
YY09874		10	1	0.13	10	0.82	246	1	0.02	42	360	4	0.04	<2	5
YY09875		10	<1	0.22	10	0.75	229	1	0.03	37	500	4	0.02	<2	5
YY09876		10	<1	0.21	10	0.80	259	<1	0.03	39	790	3	0.02	<2	6
YY09877		10	1	0.08	10	0.66	981	2	0.02	32	610	7	0.02	<2	5
YY09878		10	<1	0.12	10	0.71	206	1	0.02	27	140	4	0.01	<2	5
YY09879		10	<1	0.23	10	0.85	232	1	0.02	37	440	4	0.02	2	6
YY09880		10	<1	0.38	10	0.97	319	1	0.02	49	510	4	0.01	<2	7
YY09881		10	<1	0.20	10	0.72	213	1	0.01	31	350	3	0.01	<2	5
YY09882		<10	<1	0.07	<10	0.28	101	1	0.01	11	530	3	0.01	<2	2



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
YY09843		<20	0.12	<10	<10	87	<10
YY09844		<20	0.08	<10	<10	49	<10
YY09845		<20	0.12	<10	<10	91	<10
YY09846		<20	0.17	<10	<10	123	<10
YY09847		<20	0.16	<10	<10	94	<10
YY09848		<20	0.15	<10	<10	89	<10
YY09849		<20	0.13	<10	<10	78	<10
YY09850		<20	0.12	<10	<10	87	<10
YY09851		<20	0.13	<10	<10	84	<10
YY09852		<20	0.14	<10	<10	88	<10
YY09853		<20	0.14	<10	<10	82	<10
YY09854		<20	0.14	<10	<10	86	<10
YY09855		<20	0.15	<10	<10	87	<10
YY09856		<20	0.13	<10	<10	85	<10
YY09857		<20	0.12	<10	<10	80	<10
YY09858		<20	0.15	<10	<10	87	<10
YY09859		<20	0.12	<10	<10	75	<10
YY09860		<20	0.12	<10	<10	82	<10
YY09861		<20	0.15	<10	<10	86	<10
YY09862		<20	0.11	<10	<10	85	<10
YY09863		<20	0.25	<10	<10	116	<10
YY09864		<20	0.08	<10	<10	60	<10
YY09865		<20	0.13	<10	<10	86	<10
YY09866		<20	0.13	<10	<10	80	<10
YY09867		<20	0.14	<10	<10	91	<10
YY09868		<20	0.15	<10	<10	80	<10
YY09869		<20	0.14	<10	<10	78	<10
YY09870		<20	0.13	<10	<10	82	<10
YY09871		<20	0.13	<10	<10	78	<10
YY09872		<20	0.13	<10	<10	84	<10
YY09873		<20	0.14	<10	<10	88	<10
YY09874		<20	0.13	<10	<10	77	<10
YY09875		<20	0.12	<10	<10	70	<10
YY09876		<20	0.13	<10	<10	74	<10
YY09877		<20	0.10	<10	<10	77	<10
YY09878		<20	0.13	<10	<10	68	<10
YY09879		<20	0.16	<10	<10	87	<10
YY09880		<20	0.16	<10	<10	90	<10
YY09881		<20	0.14	<10	<10	79	<10
YY09882		<20	0.08	<10	<10	47	<10



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
YY09883		0.25	0.004	0.2	1.20	40	<10	360	<0.5	<2	1.55	<0.5	12	29	49	2.00
YY09884		0.31	0.013	0.2	1.46	50	<10	310	<0.5	<2	0.61	0.6	17	34	39	2.47
YY09885		0.32	0.012	0.2	1.48	129	<10	180	<0.5	<2	1.06	<0.5	14	42	39	2.39
YY09886		0.33	0.009	<0.2	1.24	67	<10	160	<0.5	<2	0.58	<0.5	9	35	30	2.30
YY09887		0.38	0.019	0.2	1.68	70	<10	270	<0.5	<2	0.64	<0.5	15	41	37	2.64
YY09888		0.43	0.029	<0.2	2.03	267	<10	250	<0.5	<2	0.60	<0.5	16	60	46	2.94
YY09889		0.40	0.029	<0.2	2.34	160	<10	80	<0.5	<2	0.28	<0.5	14	57	41	2.87
YY09890		0.28	0.008	<0.2	2.23	80	<10	90	<0.5	<2	0.39	<0.5	18	54	49	3.20
YY09891		0.40	0.014	0.2	1.96	356	<10	90	0.5	<2	0.48	<0.5	19	49	51	3.11
YY09892		0.34	0.032	0.6	2.18	1440	<10	120	1.1	<2	0.74	<0.5	26	54	167	3.44
YY09893		0.29	0.007	0.4	1.36	269	<10	150	<0.5	<2	1.64	0.5	11	31	100	1.81
YY09894		0.27	0.007	0.2	1.09	477	<10	120	<0.5	<2	1.58	<0.5	7	24	88	1.94
YY09895		0.46	0.014	<0.2	2.00	62	<10	110	<0.5	<2	0.45	<0.5	14	75	21	2.73
YY09896		0.39	0.011	<0.2	1.98	75	<10	110	<0.5	<2	0.39	<0.5	13	57	25	2.98
YY09897		0.26	0.012	0.3	1.94	766	<10	140	0.8	2	0.81	<0.5	25	42	125	3.01
YY09898		0.41	0.284	<0.2	2.23	104	<10	140	<0.5	<2	0.42	<0.5	16	61	33	3.18
YY09899		0.38	0.029	0.3	3.01	199	<10	110	0.8	<2	0.31	<0.5	16	62	47	3.10
YY09900		0.36	0.019	<0.2	2.13	167	<10	160	<0.5	<2	0.65	<0.5	15	57	33	2.86
YY09901		0.38	0.010	<0.2	2.05	227	<10	150	<0.5	<2	0.51	<0.5	16	64	38	3.27
YY09902		0.22	0.018	0.2	1.19	148	<10	170	<0.5	<2	2.14	<0.5	9	30	135	1.76
YY09903		0.37	0.010	<0.2	2.09	112	<10	140	<0.5	<2	0.45	<0.5	15	68	25	3.30
YY09904		0.41	0.030	<0.2	1.92	298	<10	160	<0.5	<2	0.57	<0.5	12	58	55	2.91
YY09905		0.35	0.041	0.2	2.08	240	<10	220	<0.5	<2	1.18	<0.5	17	62	84	3.29
YY09906		0.27	0.012	0.3	1.54	122	<10	180	<0.5	<2	0.74	<0.5	15	44	110	2.58
YY09907		0.38	0.022	0.3	1.98	139	<10	180	<0.5	2	0.41	<0.5	17	59	39	3.60
YY09908		0.39	0.010	<0.2	2.13	172	<10	180	<0.5	<2	0.49	<0.5	17	59	35	3.51
YY09909		0.36	0.336	0.2	2.40	140	<10	130	0.5	<2	0.73	<0.5	18	67	46	3.65
YY09910		0.40	0.022	<0.2	2.53	164	<10	160	0.5	<2	0.73	<0.5	19	63	67	3.50
YY09911		0.31	0.016	0.3	2.20	253	<10	190	0.5	2	0.86	<0.5	25	67	78	3.50
YY09912		0.26	0.007	0.2	0.95	41	<10	160	<0.5	<2	1.23	0.6	14	31	47	1.82
YY09913		0.24	0.017	<0.2	1.29	170	<10	150	<0.5	<2	1.32	<0.5	17	38	58	2.14
YY09914		0.41	0.177	0.4	3.29	482	<10	380	0.7	<2	0.66	<0.5	31	98	77	4.62
YY09915		0.42	0.183	<0.2	2.90	630	<10	260	0.7	<2	0.74	<0.5	30	92	72	4.37
YY09916		0.25	0.146	0.4	2.34	1030	10	210	0.5	<2	1.77	0.6	33	73	117	3.97
ZZ106214		0.46	0.004	<0.2	1.97	66	<10	160	<0.5	<2	0.37	<0.5	12	49	20	2.75
ZZ106215		0.30	0.003	<0.2	0.61	274	<10	130	<0.5	<2	2.75	<0.5	6	16	28	1.15
ZZ106216		0.25	0.008	<0.2	1.12	124	<10	50	<0.5	<2	0.24	<0.5	9	30	47	2.20
ZZ106217		0.42	0.007	<0.2	2.13	124	<10	160	<0.5	<2	0.54	<0.5	16	52	25	3.10
ZZ106218		0.39	0.005	<0.2	2.60	80	<10	170	0.5	<2	0.30	<0.5	19	54	28	4.27
ZZ106219		0.36	0.014	<0.2	2.54	155	<10	130	<0.5	<2	0.24	<0.5	14	61	33	3.23



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Sample Description	Method Analyte Units LOD	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
YY09883		<10	<1	0.05	10	0.34	252	1	0.02	26	1020	3	0.12	2	2	63
YY09884		10	<1	0.11	10	0.45	543	1	0.02	27	620	4	0.03	<2	3	36
YY09885		10	1	0.18	10	0.63	276	1	0.02	27	920	4	0.10	<2	4	46
YY09886		10	<1	0.15	10	0.45	252	1	0.02	18	760	5	0.05	<2	2	34
YY09887		10	<1	0.10	10	0.57	506	1	0.02	26	570	5	0.03	<2	4	46
YY09888		10	<1	0.37	10	0.88	326	1	0.03	43	1130	3	0.02	<2	5	32
YY09889		10	1	0.26	10	0.80	208	1	0.02	45	330	3	0.02	<2	6	20
YY09890		10	1	0.12	10	0.81	241	1	0.03	38	420	5	0.03	<2	5	36
YY09891		10	<1	0.12	10	0.69	356	2	0.02	42	350	6	0.02	<2	5	26
YY09892		10	<1	0.22	10	0.75	431	1	0.02	79	670	8	0.04	3	5	50
YY09893		<10	1	0.08	10	0.43	278	1	0.02	59	910	4	0.13	<2	2	66
YY09894		<10	<1	0.06	10	0.35	173	1	0.02	37	1250	3	0.23	<2	1	51
YY09895		10	1	0.52	<10	1.12	318	1	0.04	31	360	3	0.01	<2	5	33
YY09896		10	<1	0.21	10	0.79	215	1	0.03	31	240	3	0.01	<2	5	28
YY09897		10	<1	0.08	10	0.60	395	3	0.03	73	920	5	0.10	<2	4	41
YY09898		10	<1	0.29	10	0.90	300	1	0.03	40	380	5	0.02	<2	5	31
YY09899		10	<1	0.23	10	0.89	246	1	0.02	55	580	3	0.03	<2	6	22
YY09900		10	<1	0.35	10	0.86	304	1	0.03	40	710	4	0.04	<2	5	38
YY09901		10	<1	0.54	10	1.00	368	1	0.03	44	340	6	0.02	<2	6	39
YY09902		<10	<1	0.17	10	0.47	263	1	0.03	67	1270	3	0.22	<2	2	104
YY09903		10	<1	0.62	10	1.11	323	1	0.03	38	230	4	0.02	<2	7	30
YY09904		10	<1	0.47	10	0.95	315	<1	0.04	51	970	3	0.01	<2	7	35
YY09905		10	<1	0.43	10	1.00	446	1	0.03	50	800	4	0.05	<2	5	57
YY09906		<10	<1	0.46	10	0.72	455	1	0.03	47	710	4	0.04	<2	4	40
YY09907		10	<1	0.41	10	0.93	444	2	0.02	37	360	7	0.03	<2	6	29
YY09908		10	<1	0.32	10	0.99	435	1	0.02	43	710	6	0.01	<2	6	33
YY09909		10	<1	0.56	10	1.11	412	1	0.03	46	620	5	0.04	2	6	41
YY09910		10	<1	0.48	10	1.04	388	1	0.03	57	660	4	0.06	<2	6	43
YY09911		10	<1	0.58	10	1.02	722	1	0.03	54	900	6	0.05	<2	5	54
YY09912		<10	<1	0.29	<10	0.49	402	1	0.02	35	720	2	0.09	<2	3	61
YY09913		<10	<1	0.31	10	0.58	416	1	0.03	40	950	4	0.08	<2	3	70
YY09914		10	<1	0.84	10	1.29	696	<1	0.05	82	1160	6	0.02	<2	11	73
YY09915		10	<1	0.80	10	1.18	737	1	0.03	70	1400	8	0.05	<2	9	97
YY09916		10	<1	0.61	10	1.07	714	1	0.03	86	1280	6	0.12	<2	6	122
ZZ106214		10	<1	0.24	10	0.83	255	1	0.03	29	380	4	<0.01	<2	5	28
ZZ106215		<10	1	0.05	10	0.22	217	1	0.03	11	870	3	0.23	<2	1	96
ZZ106216		10	<1	0.07	<10	0.44	123	1	0.03	20	200	4	<0.01	<2	3	16
ZZ106217		10	<1	0.16	10	0.83	346	2	0.03	37	400	6	0.01	<2	5	35
ZZ106218		10	<1	0.13	10	0.87	319	4	0.02	36	280	9	0.01	<2	5	21
ZZ106219		10	1	0.15	10	0.91	243	1	0.02	38	230	6	0.01	<2	6	19



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
YY09883		<20	0.05	<10	<10	39	<10
YY09884		<20	0.09	<10	<10	60	<10
YY09885		<20	0.09	<10	<10	61	<10
YY09886		<20	0.09	<10	<10	60	<10
YY09887		<20	0.10	<10	<10	67	<10
YY09888		<20	0.15	<10	<10	78	<10
YY09889		<20	0.14	<10	<10	79	<10
YY09890		<20	0.14	<10	<10	85	<10
YY09891		<20	0.11	<10	<10	80	<10
YY09892		<20	0.11	<10	<10	73	<10
YY09893		<20	0.06	<10	<10	44	<10
YY09894		<20	0.04	<10	<10	48	<10
YY09895		<20	0.18	<10	<10	80	<10
YY09896		<20	0.15	<10	<10	86	<10
YY09897		<20	0.08	<10	<10	67	<10
YY09898		<20	0.15	<10	<10	86	<10
YY09899		<20	0.14	<10	<10	85	<10
YY09900		<20	0.13	<10	<10	80	<10
YY09901		<20	0.16	<10	<10	88	<10
YY09902		<20	0.05	<10	<10	40	<10
YY09903		<20	0.18	<10	<10	95	<10
YY09904		<20	0.14	<10	<10	78	<10
YY09905		<20	0.12	<10	<10	82	<10
YY09906		<20	0.11	<10	<10	69	<10
YY09907		<20	0.16	<10	<10	90	<10
YY09908		<20	0.15	<10	<10	87	<10
YY09909		<20	0.15	<10	<10	95	<10
YY09910		<20	0.14	<10	<10	94	<10
YY09911		<20	0.13	<10	<10	87	<10
YY09912		<20	0.08	<10	<10	48	<10
YY09913		<20	0.08	<10	<10	55	<10
YY09914		<20	0.23	<10	<10	132	10
YY09915		<20	0.18	<10	<10	118	<10
YY09916		<20	0.10	<10	<10	88	<10
ZZ106214		<20	0.15	<10	<10	73	<10
ZZ106215		<20	0.05	<10	<10	31	<10
ZZ106216		<20	0.12	<10	<10	60	<10
ZZ106217		<20	0.13	<10	<10	71	<10
ZZ106218		<20	0.16	<10	<10	97	<10
ZZ106219		<20	0.16	<10	<10	87	<10



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ZZ106220		0.32	0.006	<0.2	1.86	86	<10	130	<0.5	<2	0.29	<0.5	11	47	18	3.47
ZZ106221		0.28	0.006	0.3	1.49	355	<10	220	<0.5	2	0.69	<0.5	15	36	55	2.39
ZZ106222		0.33	0.004	0.2	1.98	81	<10	330	<0.5	2	0.37	<0.5	14	53	29	3.26
ZZ106223		0.25	0.021	0.3	1.30	284	<10	270	<0.5	<2	1.98	<0.5	13	37	50	2.06
ZZ106224		0.35	0.024	<0.2	2.36	148	<10	240	<0.5	<2	0.42	<0.5	15	68	31	3.08
ZZ106225		0.39	0.007	<0.2	2.52	93	<10	250	0.6	<2	0.33	<0.5	17	52	44	3.78
ZZ106226		0.28	0.010	<0.2	1.51	593	<10	240	<0.5	<2	1.15	<0.5	13	40	51	2.64
ZZ106227		0.29	0.027	0.2	1.51	900	<10	140	<0.5	<2	2.31	<0.5	13	37	88	2.39
ZZ106228		0.41	0.019	0.2	1.89	374	<10	230	<0.5	<2	1.05	<0.5	14	48	77	2.65
ZZ106229		0.29	0.015	0.3	2.12	321	<10	310	0.5	<2	1.28	<0.5	17	46	106	2.70
ZZ106230		0.41	0.016	<0.2	2.62	163	<10	170	<0.5	<2	0.34	<0.5	14	67	41	3.37
ZZ106231		0.28	0.012	<0.2	2.49	174	<10	160	0.5	<2	0.39	<0.5	11	63	20	3.28
ZZ106232		0.34	0.018	<0.2	2.01	83	<10	160	<0.5	2	0.44	<0.5	10	50	24	3.02
ZZ106233		0.38	0.020	0.4	2.00	590	<10	230	<0.5	<2	1.15	<0.5	21	51	71	3.15
ZZ106234		0.25	0.014	0.3	1.02	159	<10	270	<0.5	<2	1.56	<0.5	5	27	123	1.53
ZZ106235		0.38	0.007	0.2	2.31	43	<10	210	<0.5	<2	0.72	<0.5	14	91	28	3.18
ZZ106236		0.38	0.007	<0.2	2.12	112	<10	140	<0.5	<2	0.37	<0.5	14	54	35	3.16
ZZ106237		0.51	0.028	<0.2	2.13	92	<10	220	<0.5	<2	0.36	<0.5	11	58	30	2.69
ZZ106238		0.45	0.017	<0.2	2.14	114	<10	230	<0.5	<2	0.59	<0.5	12	63	41	2.92
ZZ106239		0.44	0.017	<0.2	2.50	269	<10	230	<0.5	<2	0.49	<0.5	15	69	68	3.75
ZZ106240		0.46	0.051	<0.2	2.37	102	<10	270	<0.5	<2	0.39	<0.5	13	76	29	3.46
ZZ106241		0.32	0.008	0.2	1.56	212	<10	190	<0.5	2	0.94	<0.5	14	43	41	3.01
ZZ106242		0.33	0.016	0.2	1.62	346	<10	80	<0.5	<2	0.29	<0.5	13	49	36	3.16
ZZ106243		0.30	0.018	<0.2	2.33	129	<10	80	0.5	<2	0.31	<0.5	15	62	34	3.46
ZZ106244		0.44	0.027	0.3	1.94	100	<10	180	<0.5	<2	0.77	<0.5	10	57	37	2.88
ZZ106245		0.42	0.017	<0.2	1.94	70	<10	190	<0.5	<2	0.51	<0.5	12	54	35	3.00
ZZ106246		0.45	0.025	0.2	2.10	409	<10	240	<0.5	<2	0.56	<0.5	13	63	47	2.98
ZZ106247		0.42	0.063	<0.2	2.11	135	<10	250	<0.5	<2	0.50	<0.5	13	65	33	3.05
ZZ106248		0.36	0.022	<0.2	2.03	62	<10	160	<0.5	<2	0.50	<0.5	15	56	33	3.35
ZZ106249		0.41	0.006	0.2	1.95	60	<10	150	<0.5	<2	0.44	<0.5	13	52	22	3.28
ZZ109731		0.29	0.027	0.2	2.12	164	<10	210	<0.5	<2	1.10	<0.5	17	58	66	3.33
ZZ109732		0.46	0.213	<0.2	1.97	208	<10	80	0.5	<2	0.26	<0.5	11	57	40	2.94
ZZ109733		0.33	0.026	0.4	1.99	151	<10	220	<0.5	<2	0.91	<0.5	9	52	99	2.85
ZZ109734		0.39	0.304	<0.2	1.95	103	<10	140	<0.5	<2	0.41	<0.5	12	53	28	2.98
ZZ109735		0.27	0.030	0.5	2.22	351	<10	260	0.5	<2	1.04	<0.5	17	60	92	3.50
ZZ109736		0.35	0.019	0.3	1.98	148	<10	170	<0.5	<2	0.49	<0.5	13	59	45	3.49
ZZ109737		0.36	0.024	0.4	2.23	259	<10	210	<0.5	<2	0.63	<0.5	17	59	68	3.39
ZZ109738		0.35	0.018	0.2	1.53	181	<10	140	<0.5	<2	0.50	<0.5	14	45	52	2.70
ZZ109739		0.32	0.014	0.4	1.85	162	<10	170	<0.5	<2	0.78	<0.5	14	53	55	3.07
ZZ109740		0.29	0.019	0.3	1.71	207	<10	180	<0.5	<2	0.85	<0.5	17	49	49	2.84



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Sample Description	Method Analyte Units LOD	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 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
ZZ106220		10	1	0.11	10	0.67	256	7	0.02	24	200	8	0.01	<2	4
ZZ106221		<10	1	0.06	10	0.45	684	2	0.02	29	1120	4	0.06	<2	3
ZZ106222		10	1	0.13	10	0.68	603	2	0.02	27	530	8	0.01	<2	4
ZZ106223		<10	1	0.14	<10	0.51	434	2	0.02	26	860	3	0.15	2	3
ZZ106224		10	1	0.27	10	0.93	342	1	0.03	40	670	5	0.01	<2	6
ZZ106225		10	1	0.06	10	0.73	363	3	0.02	35	290	8	0.01	<2	5
ZZ106226		10	1	0.14	10	0.61	341	1	0.02	24	1000	4	0.09	<2	3
ZZ106227		<10	<1	0.16	10	0.57	410	1	0.02	29	1410	5	0.18	2	2
ZZ106228		10	1	0.26	10	0.77	329	1	0.02	36	1050	4	0.06	2	4
ZZ106229		10	1	0.08	10	0.66	345	2	0.02	38	1070	6	0.07	<2	4
ZZ106230		10	1	0.21	10	0.94	293	2	0.02	37	300	6	0.01	<2	6
ZZ106231		10	<1	0.30	10	0.92	269	1	0.02	34	430	5	0.03	<2	6
ZZ106232		10	<1	0.16	10	0.79	245	1	0.02	29	520	5	0.02	<2	5
ZZ106233		10	1	0.21	10	0.83	903	2	0.02	35	890	6	0.05	<2	5
ZZ106234		<10	1	0.11	10	0.41	94	3	0.02	27	880	2	0.44	2	2
ZZ106235		10	1	0.37	10	1.39	353	1	0.04	51	1170	4	0.02	<2	4
ZZ106236		10	<1	0.19	10	0.86	338	1	0.02	40	370	6	0.01	<2	5
ZZ106237		10	1	0.27	10	0.88	325	<1	0.03	33	570	3	<0.01	<2	6
ZZ106238		10	1	0.36	10	0.89	257	1	0.03	41	880	4	0.05	<2	6
ZZ106239		10	1	0.56	10	1.07	357	1	0.03	53	940	4	0.01	<2	9
ZZ106240		10	1	0.74	10	1.15	373	<1	0.03	38	760	3	0.01	<2	8
ZZ106241		10	1	0.30	10	0.62	526	2	0.03	26	1040	4	0.07	<2	4
ZZ106242		10	<1	0.12	10	0.64	211	1	0.02	35	330	7	0.02	<2	4
ZZ106243		10	<1	0.17	10	0.91	254	1	0.01	41	270	6	0.01	<2	6
ZZ106244		10	<1	0.30	<10	0.87	263	1	0.02	33	770	4	0.06	2	5
ZZ106245		10	1	0.27	10	0.92	373	<1	0.02	34	970	5	<0.01	<2	6
ZZ106246		10	1	0.46	10	0.92	311	1	0.03	45	940	4	0.03	<2	7
ZZ106247		10	1	0.58	10	1.00	390	1	0.03	36	1090	3	<0.01	<2	7
ZZ106248		10	1	0.18	10	0.79	294	1	0.02	33	470	8	0.01	2	5
ZZ106249		10	<1	0.16	10	0.85	353	1	0.01	26	400	7	0.01	<2	5
ZZ109731		10	1	0.51	10	0.94	564	1	0.02	48	820	5	0.07	<2	5
ZZ109732		10	1	0.20	10	0.92	266	1	0.01	52	150	5	0.01	<2	6
ZZ109733		10	<1	0.21	10	0.92	259	1	0.02	46	1500	6	0.12	<2	4
ZZ109734		10	1	0.23	10	0.85	311	1	0.02	33	450	4	0.02	<2	5
ZZ109735		10	1	0.38	10	1.00	469	1	0.02	61	1310	6	0.11	<2	4
ZZ109736		10	<1	0.42	10	0.99	353	1	0.02	44	290	8	0.03	<2	6
ZZ109737		10	<1	0.45	10	0.95	461	1	0.02	57	710	5	0.05	<2	6
ZZ109738		10	1	0.30	10	0.68	359	1	0.02	36	620	4	0.03	<2	4
ZZ109739		10	1	0.46	10	0.83	389	1	0.02	45	810	5	0.08	2	4
ZZ109740		10	<1	0.45	10	0.75	464	1	0.02	41	870	4	0.07	<2	4



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ106220		<20	0.15	<10	<10	91	<10
ZZ106221		<20	0.07	<10	<10	62	<10
ZZ106222		<20	0.14	<10	<10	80	<10
ZZ106223		<20	0.07	<10	<10	52	<10
ZZ106224		<20	0.16	<10	<10	87	<10
ZZ106225		<20	0.13	<10	<10	83	<10
ZZ106226		<20	0.09	<10	<10	58	<10
ZZ106227		<20	0.06	<10	<10	46	<10
ZZ106228		<20	0.10	<10	<10	60	<10
ZZ106229		<20	0.07	<10	<10	57	<10
ZZ106230		<20	0.16	<10	<10	90	<10
ZZ106231		<20	0.15	<10	<10	92	<10
ZZ106232		<20	0.12	<10	<10	76	<10
ZZ106233		<20	0.10	<10	<10	64	<10
ZZ106234		<20	0.06	<10	<10	49	<10
ZZ106235		<20	0.16	<10	<10	77	<10
ZZ106236		<20	0.14	<10	<10	78	<10
ZZ106237		<20	0.14	<10	<10	77	<10
ZZ106238		<20	0.15	<10	<10	85	<10
ZZ106239		<20	0.16	<10	<10	96	<10
ZZ106240		<20	0.17	<10	<10	102	<10
ZZ106241		<20	0.11	<10	<10	75	<10
ZZ106242		<20	0.12	<10	<10	77	<10
ZZ106243		<20	0.15	<10	<10	91	<10
ZZ106244		<20	0.11	<10	<10	76	<10
ZZ106245		<20	0.13	<10	<10	76	<10
ZZ106246		<20	0.14	<10	<10	82	<10
ZZ106247		<20	0.15	<10	<10	88	<10
ZZ106248		<20	0.13	<10	<10	80	<10
ZZ106249		<20	0.12	<10	<10	81	<10
ZZ109731		<20	0.11	<10	<10	84	<10
ZZ109732		<20	0.15	<10	<10	81	<10
ZZ109733		<20	0.09	<10	<10	67	<10
ZZ109734		<20	0.12	<10	<10	78	<10
ZZ109735		<20	0.09	<10	<10	83	<10
ZZ109736		<20	0.15	<10	<10	89	<10
ZZ109737		<20	0.13	<10	<10	84	<10
ZZ109738		<20	0.12	<10	<10	74	<10
ZZ109739		<20	0.10	<10	<10	76	<10
ZZ109740		<20	0.11	<10	<10	75	<10



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ZZ109741		0.30	0.031	0.2	2.24	377	<10	140	0.6	<2	0.70	<0.5	21	67	60	3.61
ZZ109742		0.33	0.042	0.3	1.75	240	<10	190	<0.5	<2	1.16	<0.5	18	54	52	2.78
ZZ109743		0.27	1.530	0.3	2.30	514	<10	160	0.5	<2	0.98	<0.5	19	98	69	3.43
ZZ109744		0.33	0.035	0.3	2.17	424	<10	210	0.5	<2	0.93	<0.5	20	65	59	3.36
ZZ109745		0.29	0.132	<0.2	2.01	367	10	200	<0.5	<2	1.32	<0.5	21	70	58	3.20
ZZ109746		0.30	0.048	<0.2	2.49	473	10	250	0.6	<2	1.16	<0.5	30	78	68	3.81
ZZ109747		0.30	0.180	0.3	2.40	697	<10	220	0.5	<2	1.25	<0.5	30	80	86	3.71
ZZ109748		0.37	0.690	<0.2	2.95	1080	<10	230	0.7	2	0.54	<0.5	30	82	70	4.54
ZZ109749		0.29	1.245	0.2	2.31	1020	<10	220	0.5	<2	1.17	0.5	26	65	83	3.92
ZZ109750		0.28	0.414	0.2	2.62	473	<10	200	0.8	3	0.59	<0.5	34	71	73	4.05
ZZ109751		0.28	0.118	<0.2	2.65	451	10	320	0.6	<2	0.87	<0.5	27	88	64	3.77
ZZ109752		0.30	0.090	0.2	2.64	215	<10	250	0.7	<2	0.83	<0.5	33	79	68	3.94
ZZ109753		0.30	0.051	0.3	2.54	116	10	300	0.7	<2	1.10	<0.5	21	73	59	3.60
ZZ109754		0.25	0.017	0.2	1.79	102	<10	240	0.5	<2	1.10	0.5	21	54	47	2.84
ZZ109755		0.42	0.023	0.3	1.81	180	<10	160	<0.5	<2	0.60	<0.5	12	55	40	2.76
ZZ109756		0.37	0.023	0.5	2.21	400	<10	170	0.5	<2	0.68	<0.5	10	63	122	3.19
ZZ109757		0.31	0.023	0.3	1.73	316	<10	150	<0.5	<2	1.00	<0.5	12	54	48	2.64
ZZ109758		0.37	0.016	0.2	2.12	158	<10	190	<0.5	<2	0.58	<0.5	12	61	28	3.23
ZZ109759		0.40	0.019	0.2	1.27	73	<10	120	<0.5	<2	0.46	<0.5	7	37	18	2.02
ZZ109760		0.27	0.005	0.3	0.97	32	<10	110	<0.5	<2	0.47	<0.5	9	28	30	1.97
ZZ122694		0.46	0.009	0.2	1.45	237	<10	160	<0.5	<2	0.63	<0.5	10	39	24	2.37
ZZ122695		0.43	0.009	0.2	1.61	656	<10	140	<0.5	<2	1.11	<0.5	13	41	39	2.59
ZZ122696		0.49	0.017	0.3	1.37	199	<10	220	<0.5	<2	1.26	<0.5	9	34	45	2.16
ZZ122697		0.55	0.015	0.2	1.46	172	<10	230	<0.5	<2	0.73	<0.5	10	37	26	2.31
ZZ122698		0.35	0.007	0.2	1.74	243	<10	230	<0.5	<2	0.90	<0.5	12	46	41	2.74
ZZ122699		0.36	0.005	0.2	1.87	90	<10	130	<0.5	<2	0.34	<0.5	11	44	26	2.68
ZZ122700		0.45	0.010	<0.2	1.83	770	<10	200	<0.5	2	0.56	<0.5	13	45	75	2.88
ZZ122701		0.41	0.005	0.2	1.90	238	<10	100	<0.5	<2	0.35	<0.5	13	46	24	3.01
ZZ122702		0.42	0.009	0.2	2.23	441	<10	180	<0.5	<2	0.52	<0.5	17	50	45	3.17
ZZ122703		0.49	0.006	0.3	2.27	71	<10	160	<0.5	2	0.29	<0.5	14	52	27	3.36
ZZ122704		0.52	0.025	0.3	3.11	238	<10	400	0.5	<2	0.76	<0.5	20	81	82	4.52
ZZ122705		0.49	0.008	0.2	1.60	187	<10	260	<0.5	<2	1.57	<0.5	12	43	45	2.52
ZZ122706		0.44	0.022	0.2	2.05	252	<10	260	<0.5	<2	0.80	<0.5	13	53	40	2.88
ZZ122707		0.38	0.014	0.4	2.10	297	<10	210	0.5	<2	1.19	0.6	14	50	92	2.82
ZZ122708		0.44	0.018	<0.2	2.36	116	<10	250	<0.5	<2	0.44	<0.5	17	59	26	3.14
ZZ122709		0.43	0.019	<0.2	2.53	79	<10	390	<0.5	<2	0.58	<0.5	15	67	33	3.43
ZZ122710		0.45	0.015	<0.2	2.51	116	<10	200	<0.5	<2	0.47	<0.5	21	63	41	3.34
ZZ122711		0.42	0.028	<0.2	2.66	143	<10	180	0.5	<2	0.37	<0.5	17	69	28	3.36
ZZ122712		0.31	0.018	0.3	2.06	152	<10	210	<0.5	<2	0.63	<0.5	14	52	70	2.30
ZZ122713		0.32	0.008	0.3	1.15	166	<10	130	<0.5	<2	0.57	<0.5	9	29	44	2.14



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Sample Description	Method Analyte Units LOD	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 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
ZZ109741		10	<1	0.32	10	0.92	542	1	0.02	62	1030	6	0.10	<2	5
ZZ109742		10	1	0.45	10	0.79	529	1	0.02	47	790	3	0.09	<2	4
ZZ109743		10	1	0.59	10	1.20	479	1	0.04	63	760	4	0.08	<2	5
ZZ109744		10	1	0.63	10	0.95	477	1	0.02	55	950	5	0.13	<2	5
ZZ109745		10	<1	0.53	10	1.08	531	1	0.04	53	1080	5	0.07	<2	6
ZZ109746		10	<1	0.46	10	1.11	741	1	0.03	65	1140	4	0.08	<2	6
ZZ109747		10	<1	0.30	10	1.12	600	1	0.05	77	1090	6	0.16	<2	5
ZZ109748		10	<1	0.28	10	1.20	599	1	0.03	86	950	8	0.07	<2	7
ZZ109749		10	<1	0.64	10	1.06	644	1	0.03	64	1320	6	0.12	<2	6
ZZ109750		10	<1	0.23	10	1.00	885	2	0.03	73	1270	7	0.12	<2	4
ZZ109751		10	<1	0.82	10	1.09	629	1	0.04	60	1100	3	0.06	<2	8
ZZ109752		10	<1	0.63	10	1.05	715	1	0.03	71	1120	6	0.10	<2	7
ZZ109753		10	1	0.76	<10	1.01	624	1	0.03	61	1090	4	0.10	<2	8
ZZ109754		10	<1	0.52	10	0.80	730	1	0.02	44	1400	4	0.12	<2	4
ZZ109755		10	1	0.44	10	0.90	297	<1	0.03	41	960	3	0.03	<2	6
ZZ109756		10	<1	0.42	10	0.96	240	1	0.02	62	780	5	0.07	<2	5
ZZ109757		10	1	0.41	10	0.88	274	<1	0.03	40	860	3	0.10	<2	5
ZZ109758		10	<1	0.53	10	0.99	278	1	0.02	40	260	3	0.04	<2	6
ZZ109759		<10	1	0.34	<10	0.63	212	<1	0.02	24	950	3	0.02	<2	4
ZZ109760		<10	<1	0.23	<10	0.46	329	<1	0.02	22	440	3	0.03	<2	3
ZZ122694		10	<1	0.36	10	0.73	273	1	0.03	26	1060	3	0.02	<2	4
ZZ122695		10	<1	0.33	10	0.72	450	<1	0.03	32	710	5	0.04	2	4
ZZ122696		<10	1	0.30	10	0.66	318	<1	0.03	25	1040	5	0.07	<2	4
ZZ122697		<10	<1	0.38	10	0.71	228	<1	0.03	24	1050	3	0.03	<2	4
ZZ122698		10	<1	0.36	10	0.78	290	<1	0.03	30	550	2	0.04	<2	5
ZZ122699		10	1	0.27	10	0.75	223	1	0.01	34	420	3	0.02	<2	5
ZZ122700		10	<1	0.23	10	0.69	236	<1	0.02	36	670	5	0.03	<2	5
ZZ122701		10	<1	0.24	10	0.77	231	1	0.01	31	280	5	0.02	<2	4
ZZ122702		10	<1	0.30	10	0.86	311	1	0.02	40	640	4	0.03	<2	5
ZZ122703		10	1	0.26	10	0.86	242	1	0.02	34	280	6	0.02	<2	5
ZZ122704		10	1	0.71	10	1.28	562	1	0.03	60	660	9	0.02	<2	9
ZZ122705		10	1	0.33	10	0.73	398	1	0.03	33	820	4	0.09	<2	4
ZZ122706		10	<1	0.44	10	0.86	356	1	0.04	34	1050	3	0.03	<2	5
ZZ122707		10	1	0.30	10	0.74	452	1	0.03	44	1030	5	0.11	<2	3
ZZ122708		10	<1	0.27	10	0.98	323	1	0.03	37	640	4	0.03	<2	6
ZZ122709		10	1	0.42	10	1.16	360	1	0.03	36	1090	5	0.02	<2	7
ZZ122710		10	1	0.16	10	0.94	302	1	0.03	44	690	6	0.03	<2	5
ZZ122711		10	<1	0.20	10	0.90	286	1	0.03	43	470	5	0.03	<2	6
ZZ122712		10	1	0.22	10	0.72	225	1	0.02	37	1000	3	0.10	<2	4
ZZ122713		<10	1	0.08	10	0.38	415	2	0.02	22	1160	3	0.11	<2	1



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ109741		<20	0.11	<10	<10	92	<10
ZZ109742		<20	0.11	<10	<10	74	<10
ZZ109743		<20	0.11	<10	<10	87	<10
ZZ109744		<20	0.12	<10	<10	88	<10
ZZ109745		<20	0.13	<10	<10	87	<10
ZZ109746		<20	0.15	<10	<10	100	<10
ZZ109747		<20	0.08	<10	<10	86	<10
ZZ109748		<20	0.15	<10	<10	110	<10
ZZ109749		<20	0.14	<10	<10	97	<10
ZZ109750		<20	0.10	<10	<10	97	<10
ZZ109751		<20	0.19	<10	<10	107	20
ZZ109752		<20	0.16	<10	<10	107	10
ZZ109753		<20	0.19	<10	<10	104	<10
ZZ109754		<20	0.10	<10	<10	72	<10
ZZ109755		<20	0.12	<10	<10	74	<10
ZZ109756		<20	0.11	<10	<10	79	<10
ZZ109757		<20	0.11	<10	<10	66	<10
ZZ109758		<20	0.14	<10	<10	85	<10
ZZ109759		<20	0.09	<10	<10	53	<10
ZZ109760		<20	0.09	<10	<10	54	<10
ZZ122694		<20	0.11	<10	<10	56	<10
ZZ122695		<20	0.09	<10	<10	58	<10
ZZ122696		<20	0.09	<10	<10	51	<10
ZZ122697		<20	0.11	<10	<10	56	<10
ZZ122698		<20	0.12	<10	<10	65	<10
ZZ122699		<20	0.13	<10	<10	68	<10
ZZ122700		<20	0.09	<10	<10	63	<10
ZZ122701		<20	0.13	<10	<10	72	<10
ZZ122702		<20	0.12	<10	<10	71	<10
ZZ122703		<20	0.15	<10	<10	81	<10
ZZ122704		<20	0.18	<10	<10	116	<10
ZZ122705		<20	0.10	<10	<10	63	<10
ZZ122706		<20	0.12	<10	<10	73	<10
ZZ122707		<20	0.08	<10	<10	68	<10
ZZ122708		<20	0.17	<10	<10	82	<10
ZZ122709		<20	0.20	<10	<10	92	<10
ZZ122710		<20	0.16	<10	<10	86	<10
ZZ122711		<20	0.15	<10	<10	84	<10
ZZ122712		<20	0.09	<10	<10	64	<10
ZZ122713		<20	0.06	<10	<10	57	<10



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ZZ122714		0.49	0.017	<0.2	1.79	95	<10	210	<0.5	<2	0.46	<0.5	7	46	26	1.95
ZZ122715		0.25	0.019	0.5	1.14	444	<10	430	<0.5	<2	1.33	1.6	99	21	55	2.91
ZZ122716		0.26	0.004	<0.2	0.60	14	<10	110	<0.5	<2	0.44	<0.5	6	14	19	1.77
ZZ122717		0.26	0.009	0.3	1.47	179	<10	210	<0.5	<2	0.47	2.0	13	41	41	2.68
ZZ122718		0.46	0.020	0.2	2.13	229	<10	280	<0.5	<2	0.67	<0.5	16	62	55	3.04
ZZ122719		0.34	0.031	0.2	2.56	355	<10	280	<0.5	<2	0.47	<0.5	18	69	56	3.52
ZZ122720		0.22	0.009	0.3	1.49	218	<10	250	<0.5	<2	1.10	<0.5	13	39	66	2.27
ZZ122721		0.54	0.039	<0.2	2.18	118	<10	240	<0.5	<2	0.42	<0.5	12	68	26	3.21
ZZ122722		0.43	0.025	0.3	2.92	197	<10	340	0.5	<2	0.61	<0.5	17	79	60	3.90
ZZ122723		0.44	0.024	<0.2	2.09	129	<10	220	<0.5	<2	0.49	<0.5	11	66	29	2.81
ZZ122724		0.55	0.026	<0.2	2.43	111	<10	280	<0.5	<2	0.46	<0.5	14	73	40	3.48
ZZ122725		0.59	0.026	0.2	2.38	120	<10	260	<0.5	<2	0.49	<0.5	14	75	36	3.52
ZZ122726		0.49	0.025	<0.2	2.44	151	<10	290	<0.5	<2	0.54	<0.5	14	77	35	3.63
ZZ122727		0.40	0.038	0.2	2.78	215	<10	300	<0.5	2	0.57	<0.5	17	82	42	3.98
ZZ122728		0.43	0.023	<0.2	2.73	120	<10	290	0.5	<2	0.40	<0.5	15	81	45	3.66
ZZ122729		0.53	0.059	<0.2	2.65	120	<10	320	<0.5	<2	0.43	<0.5	13	85	32	3.66
ZZ122730		0.36	0.037	0.5	3.09	375	<10	360	0.7	2	0.94	<0.5	22	76	92	4.29
ZZ122731		0.42	0.038	0.2	2.48	276	<10	240	<0.5	<2	0.53	<0.5	16	75	44	3.81
ZZ122732		0.35	0.063	<0.2	1.84	178	<10	160	<0.5	<2	0.31	<0.5	14	58	42	2.97
ZZ122733		0.34	0.034	0.3	2.68	198	<10	320	0.5	<2	0.60	<0.5	29	70	71	3.94
ZZ122734		0.46	0.028	0.2	2.60	186	<10	210	<0.5	<2	0.48	<0.5	20	74	43	3.97
ZZ122735		0.21	0.019	0.4	0.81	541	10	170	<0.5	<2	3.13	0.6	6	21	83	1.12
ZZ122736		0.23	0.001	<0.2	0.82	57	<10	300	<0.5	<2	2.91	<0.5	7	17	51	1.22
ZZ122737		0.32	0.012	0.3	1.65	341	<10	270	<0.5	2	1.68	<0.5	12	44	57	2.20
ZZ122738		0.25	0.001	<0.2	0.60	73	<10	160	<0.5	<2	0.75	<0.5	6	13	29	1.43
ZZ122739		0.41	0.006	<0.2	1.78	269	<10	180	<0.5	<2	0.81	<0.5	15	44	65	2.88
ZZ122740		0.26	<0.001	0.2	0.61	23	<10	120	<0.5	<2	0.94	<0.5	3	18	30	1.37
ZZ122741		0.31	0.017	0.3	1.83	487	<10	270	<0.5	<2	0.93	<0.5	17	45	56	2.85
ZZ122742		0.48	0.020	<0.2	2.35	404	<10	230	<0.5	<2	0.53	<0.5	15	62	42	3.27
ZZ122743		0.32	0.028	0.3	1.94	376	<10	320	<0.5	2	1.20	<0.5	17	50	55	2.88
ZZ122744		0.26	<0.001	<0.2	0.26	11	<10	70	<0.5	<2	0.65	<0.5	3	9	9	1.34
ZZ122745		0.36	0.013	<0.2	1.95	144	<10	500	<0.5	<2	0.94	<0.5	10	47	26	2.69
ZZ122746		0.49	0.016	0.2	2.07	216	<10	260	<0.5	<2	0.57	<0.5	12	56	39	2.64
ZZ122747		0.47	0.017	0.4	1.92	422	<10	170	0.6	<2	1.26	<0.5	13	46	62	2.72
ZZ122748		0.38	0.015	0.2	2.48	189	<10	310	0.5	<2	0.70	<0.5	19	64	72	3.39
ZZ122749		0.47	0.017	<0.2	1.87	156	<10	230	<0.5	<2	0.58	<0.5	11	60	29	2.71
ZZ122947		0.21	0.006	<0.2	1.63	259	<10	160	<0.5	<2	0.69	<0.5	12	58	36	2.31
ZZ122948		0.43	0.013	0.2	2.31	862	<10	200	<0.5	<2	0.85	<0.5	17	63	133	3.39
ZZ122949		0.24	0.018	0.2	1.89	868	<10	170	<0.5	<2	0.84	<0.5	15	50	62	2.97
ZZ122950		0.39	0.007	<0.2	2.46	220	<10	100	<0.5	<2	0.26	<0.5	17	55	47	3.56



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CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
ZZ122714		10	1	0.24	<10	0.66	194	<1	0.03	26	950	3	0.12	<2	4	28
ZZ122715		<10	1	0.06	10	0.20	10250	7	0.02	26	1560	4	0.30	<2	1	72
ZZ122716		<10	1	0.05	<10	0.20	207	<1	0.02	9	690	2	0.04	<2	1	25
ZZ122717		10	<1	0.09	10	0.52	605	1	0.02	28	610	6	0.05	<2	3	33
ZZ122718		10	<1	0.34	10	0.88	397	1	0.03	43	1120	5	0.04	<2	6	40
ZZ122719		10	1	0.41	10	1.03	336	1	0.03	49	1010	5	0.03	<2	7	30
ZZ122720		10	1	0.14	10	0.55	341	1	0.02	31	1050	4	0.11	<2	3	60
ZZ122721		10	1	0.61	10	1.12	379	<1	0.03	32	820	4	0.03	<2	7	29
ZZ122722		10	1	0.51	10	1.12	397	1	0.04	54	760	5	0.03	3	9	38
ZZ122723		10	1	0.40	10	0.95	308	<1	0.03	36	940	4	0.03	<2	6	27
ZZ122724		10	<1	0.57	10	1.11	399	<1	0.03	38	940	5	0.02	<2	8	27
ZZ122725		10	1	0.57	10	1.17	389	1	0.03	37	940	3	0.03	<2	8	31
ZZ122726		10	1	0.68	10	1.17	433	1	0.03	40	980	4	0.03	<2	8	34
ZZ122727		10	<1	0.56	10	1.21	515	1	0.03	45	790	5	0.04	<2	9	39
ZZ122728		10	1	0.53	10	1.17	326	<1	0.02	43	710	4	0.03	<2	9	26
ZZ122729		10	1	0.76	10	1.21	427	<1	0.03	41	1190	3	0.02	2	9	27
ZZ122730		10	1	0.51	10	1.00	460	1	0.02	65	1000	7	0.08	<2	8	52
ZZ122731		10	1	0.42	10	1.15	454	1	0.02	48	680	5	0.05	2	7	38
ZZ122732		10	<1	0.25	10	0.81	369	1	0.02	41	540	6	0.03	<2	5	27
ZZ122733		10	1	0.33	10	1.06	1260	1	0.03	57	940	7	0.07	<2	7	42
ZZ122734		10	1	0.37	10	1.16	507	1	0.02	44	710	7	0.04	<2	8	33
ZZ122735		<10	1	0.08	10	0.29	89	5	0.02	29	1060	<2	0.66	3	3	94
ZZ122736		<10	1	0.05	10	0.25	439	<1	0.02	23	1010	2	0.15	<2	1	107
ZZ122737		10	1	0.17	10	0.61	342	1	0.02	31	1190	5	0.14	<2	3	74
ZZ122738		<10	<1	0.03	<10	0.15	235	<1	0.02	11	680	2	0.08	<2	1	38
ZZ122739		10	1	0.14	10	0.74	262	1	0.02	33	910	5	0.05	<2	4	43
ZZ122740		<10	1	0.05	<10	0.23	86	1	0.02	13	530	8	0.08	<2	1	46
ZZ122741		10	1	0.15	10	0.67	379	1	0.02	33	1180	6	0.05	<2	4	45
ZZ122742		10	1	0.31	10	1.00	368	1	0.02	40	970	5	0.01	<2	6	31
ZZ122743		10	1	0.28	10	0.80	461	1	0.03	36	1010	5	0.06	<2	5	56
ZZ122744		<10	<1	0.03	<10	0.09	58	<1	0.02	5	460	<2	0.07	<2	1	30
ZZ122745		10	1	0.38	10	0.84	225	1	0.02	21	1450	4	0.05	2	4	78
ZZ122746		10	1	0.37	10	0.87	266	1	0.03	33	930	5	0.03	<2	6	38
ZZ122747		10	1	0.20	10	0.63	428	2	0.02	28	1080	5	0.10	<2	3	63
ZZ122748		10	1	0.26	10	0.86	597	1	0.03	48	780	6	0.02	<2	6	37
ZZ122749		10	1	0.36	10	0.91	298	1	0.03	30	1070	2	0.01	<2	5	37
ZZ122947		10	1	0.26	10	0.77	296	1	0.03	30	1010	3	0.09	<2	5	32
ZZ122948		10	1	0.55	10	0.96	356	1	0.03	54	700	4	0.02	<2	7	39
ZZ122949		10	1	0.38	10	0.89	355	1	0.03	40	1000	5	0.02	2	5	47
ZZ122950		10	<1	0.32	10	0.95	243	2	0.02	42	190	7	0.01	<2	5	19



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Project: Kluane

CERTIFICATE OF ANALYSIS WH20187902

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ122714		<20	0.10	<10	<10	52	<10
ZZ122715		<20	0.03	<10	<10	40	<10
ZZ122716		<20	0.07	<10	<10	52	<10
ZZ122717		<20	0.10	<10	<10	63	<10
ZZ122718		<20	0.14	<10	<10	84	<10
ZZ122719		<20	0.17	<10	<10	93	<10
ZZ122720		<20	0.07	<10	<10	52	<10
ZZ122721		<20	0.16	<10	<10	92	<10
ZZ122722		<20	0.19	<10	<10	111	<10
ZZ122723		<20	0.14	<10	<10	86	<10
ZZ122724		<20	0.17	<10	<10	99	<10
ZZ122725		<20	0.18	<10	<10	101	<10
ZZ122726		<20	0.19	<10	<10	107	<10
ZZ122727		<20	0.19	<10	<10	114	<10
ZZ122728		<20	0.19	<10	<10	114	<10
ZZ122729		<20	0.21	<10	<10	114	<10
ZZ122730		<20	0.15	<10	<10	113	<10
ZZ122731		<20	0.17	<10	<10	105	<10
ZZ122732		<20	0.14	<10	<10	84	<10
ZZ122733		<20	0.15	<10	<10	101	<10
ZZ122734		<20	0.17	<10	<10	103	<10
ZZ122735		<20	0.03	<10	<10	44	<10
ZZ122736		<20	0.03	<10	<10	29	<10
ZZ122737		<20	0.07	<10	<10	56	<10
ZZ122738		<20	0.05	<10	<10	39	<10
ZZ122739		<20	0.09	<10	<10	60	<10
ZZ122740		<20	0.06	<10	<10	35	<10
ZZ122741		<20	0.09	<10	<10	64	<10
ZZ122742		<20	0.15	<10	<10	83	<10
ZZ122743		<20	0.12	<10	<10	70	<10
ZZ122744		<20	0.05	<10	<10	40	<10
ZZ122745		<20	0.13	<10	<10	64	<10
ZZ122746		<20	0.13	<10	<10	72	<10
ZZ122747		<20	0.07	<10	<10	63	<10
ZZ122748		<20	0.14	<10	<10	91	<10
ZZ122749		<20	0.14	<10	<10	72	<10
ZZ122947		<20	0.11	<10	<10	66	<10
ZZ122948		<20	0.14	<10	<10	84	<10
ZZ122949		<20	0.12	<10	<10	69	<10
ZZ122950		<20	0.19	<10	<10	84	<10



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ZZ122951		0.27	0.005	0.2	2.35	205	<10	110	0.5	<2	0.36	<0.5	19	55	44	3.57
ZZ122952		0.45	0.005	<0.2	2.58	129	<10	180	<0.5	<2	0.43	<0.5	15	54	36	3.28
ZZ122953		0.40	0.007	<0.2	2.14	159	<10	110	<0.5	<2	0.34	<0.5	14	55	26	3.23
ZZ122954		0.40	0.008	<0.2	2.25	227	<10	120	<0.5	2	0.40	<0.5	14	56	39	3.25
ZZ122955		0.34	0.031	<0.2	1.79	626	<10	140	<0.5	<2	0.35	<0.5	13	46	34	3.32
ZZ122956		0.43	0.040	<0.2	2.53	668	<10	390	<0.5	<2	0.51	<0.5	20	54	69	4.13
ZZ122957		0.38	0.013	<0.2	2.40	204	<10	110	<0.5	<2	0.37	<0.5	18	52	42	3.27
ZZ122958		0.43	0.031	0.2	2.39	230	<10	170	<0.5	<2	0.53	<0.5	18	66	52	3.52
ZZ122959		0.32	0.010	<0.2	1.92	358	<10	130	<0.5	<2	0.52	<0.5	16	59	36	2.88
ZZ122960		0.35	0.050	<0.2	2.51	245	<10	120	0.5	<2	0.28	<0.5	14	66	32	3.60
ZZ122961		0.39	0.019	<0.2	2.17	104	<10	300	<0.5	<2	0.56	<0.5	13	63	37	2.84
ZZ122962		0.35	0.009	<0.2	3.02	166	<10	150	0.6	<2	0.33	<0.5	18	73	34	3.57
ZZ122963		0.30	0.008	<0.2	2.45	90	<10	110	<0.5	<2	0.43	<0.5	15	61	23	3.04
ZZ122964		0.37	0.022	<0.2	2.46	385	<10	210	<0.5	<2	0.42	<0.5	15	64	45	3.21
ZZ122965		0.41	0.011	<0.2	2.32	116	<10	160	<0.5	<2	0.33	<0.5	13	58	26	2.99
ZZ122966		0.39	0.016	<0.2	2.37	111	<10	220	<0.5	<2	0.34	<0.5	14	68	47	3.19
ZZ122967		0.41	0.019	<0.2	2.40	121	<10	120	0.5	<2	0.33	<0.5	16	60	43	3.16
ZZ122968		0.56	0.056	<0.2	2.37	514	<10	190	0.6	<2	0.50	<0.5	14	66	63	3.09
ZZ122969		0.34	0.041	<0.2	2.26	130	<10	180	<0.5	<2	0.34	<0.5	15	58	31	3.13
ZZ122970		0.35	0.039	<0.2	2.92	153	<10	190	0.5	<2	0.32	<0.5	14	80	26	3.61
ZZ122971		0.38	0.020	<0.2	1.94	105	<10	200	<0.5	<2	0.48	<0.5	11	64	33	2.74
ZZ122972		0.49	0.013	0.2	1.91	117	<10	140	<0.5	<2	0.36	<0.5	12	53	33	2.87
ZZ122973		0.56	0.033	<0.2	2.73	97	<10	350	<0.5	<2	0.47	<0.5	15	82	53	3.84
ZZ122974		0.44	0.018	<0.2	2.01	125	<10	200	<0.5	<2	0.43	<0.5	11	55	33	2.75
ZZ122975		0.38	0.012	<0.2	2.04	98	<10	200	<0.5	<2	0.40	<0.5	11	56	33	2.78
ZZ122976		0.31	0.014	<0.2	1.76	126	<10	180	<0.5	<2	0.41	<0.5	12	52	30	2.68
ZZ122977		0.36	0.027	<0.2	2.89	141	<10	80	0.5	<2	0.27	<0.5	17	61	44	3.34
ZZ122978		0.36	0.068	0.2	2.51	271	<10	70	0.6	<2	0.25	<0.5	15	66	39	3.89
ZZ122979		0.33	0.021	<0.2	2.42	218	<10	120	0.5	2	0.29	<0.5	15	64	44	3.49
ZZ122980		0.33	0.007	<0.2	1.72	462	<10	50	<0.5	<2	0.30	<0.5	12	45	21	3.12
ZZ122981		0.30	0.037	0.2	3.47	171	<10	110	0.7	<2	0.48	<0.5	14	75	50	3.54
ZZ122982		0.28	0.016	0.2	2.45	211	<10	120	<0.5	2	0.34	<0.5	13	64	31	2.92
ZZ122983		0.42	0.044	<0.2	1.97	177	<10	100	<0.5	<2	0.23	<0.5	11	46	33	2.33
ZZ122984		0.47	0.038	0.2	1.72	228	<10	160	<0.5	<2	0.50	<0.5	10	53	37	2.48
ZZ122985		0.36	0.085	<0.2	2.72	164	<10	100	0.5	<2	0.32	<0.5	17	81	34	3.74
ZZ122986		0.35	0.027	<0.2	2.31	1010	<10	220	<0.5	<2	0.61	<0.5	14	70	75	3.14
ZZ122987		0.31	0.014	0.2	2.41	177	<10	110	<0.5	<2	0.35	<0.5	11	59	23	3.01
ZZ122988		0.33	0.017	0.2	2.66	200	<10	150	<0.5	<2	0.27	<0.5	14	67	37	3.18
ZZ122989		0.38	0.021	0.3	2.17	176	<10	200	0.5	<2	1.05	0.5	11	66	96	2.39
ZZ122990		0.39	0.003	<0.2	1.72	286	<10	130	<0.5	<2	0.36	<0.5	10	50	30	2.89



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Sample Description	Method Analyte Units LOD	ME-ICP41 Ga ppm 10	ME-ICP41 Hg ppm 1	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1
ZZ122951		10	<1	0.32	10	0.91	259	1	0.02	46	410	8	0.01	<2	5	24
ZZ122952		10	<1	0.36	10	0.92	298	1	0.02	38	550	5	0.02	<2	5	30
ZZ122953		10	1	0.43	10	0.87	277	1	0.02	33	380	5	0.01	<2	6	23
ZZ122954		10	1	0.32	10	0.87	277	2	0.02	39	310	5	0.01	<2	5	26
ZZ122955		10	1	0.32	<10	0.81	217	1	0.02	27	420	6	0.01	<2	4	26
ZZ122956		10	1	0.27	10	1.01	574	2	0.03	41	580	9	0.03	<2	7	35
ZZ122957		10	1	0.33	10	0.88	268	1	0.02	47	540	6	0.02	<2	5	27
ZZ122958		10	1	0.43	10	1.01	370	1	0.03	47	520	6	0.02	<2	7	36
ZZ122959		10	<1	0.30	10	0.82	265	1	0.02	37	420	4	0.02	<2	6	23
ZZ122960		10	1	0.17	10	0.92	242	1	0.02	44	590	6	0.01	<2	7	19
ZZ122961		10	1	0.30	10	0.90	341	1	0.04	36	1010	4	<0.01	<2	6	56
ZZ122962		10	1	0.40	10	1.01	298	1	0.03	55	470	4	0.01	<2	8	22
ZZ122963		10	1	0.27	10	0.86	257	1	0.03	38	480	5	0.02	<2	5	31
ZZ122964		10	1	0.28	10	0.91	385	1	0.03	49	850	4	0.01	<2	7	28
ZZ122965		10	<1	0.33	10	0.84	311	1	0.03	40	650	5	0.01	<2	6	21
ZZ122966		10	1	0.33	10	0.92	371	<1	0.04	42	280	3	0.01	<2	7	27
ZZ122967		10	<1	0.27	10	0.88	316	1	0.02	56	450	5	0.01	<2	6	21
ZZ122968		10	1	0.38	10	0.95	349	1	0.03	60	1080	4	0.01	<2	7	30
ZZ122969		10	<1	0.24	10	0.86	393	1	0.02	38	640	4	0.01	<2	6	24
ZZ122970		10	1	0.33	10	1.13	313	1	0.02	45	320	5	0.02	<2	7	22
ZZ122971		10	<1	0.33	10	0.88	315	<1	0.03	35	1030	4	0.01	<2	6	28
ZZ122972		10	1	0.37	10	0.78	284	1	0.02	35	710	5	0.01	<2	5	25
ZZ122973		10	1	0.87	10	1.21	409	1	0.03	50	820	6	<0.01	<2	9	30
ZZ122974		10	1	0.28	10	0.86	339	<1	0.02	34	990	3	<0.01	<2	6	25
ZZ122975		10	1	0.29	10	0.87	331	<1	0.02	36	900	3	<0.01	<2	6	23
ZZ122976		10	<1	0.34	10	0.83	297	<1	0.02	33	970	4	<0.01	<2	6	24
ZZ122977		10	<1	0.14	10	0.90	314	1	0.01	42	380	7	0.01	<2	6	17
ZZ122978		10	1	0.22	10	0.90	262	1	0.01	45	330	8	0.01	<2	6	21
ZZ122979		10	<1	0.21	10	0.94	315	1	0.01	44	300	5	0.01	2	6	22
ZZ122980		10	<1	0.13	<10	0.75	289	1	<0.01	29	270	7	0.02	<2	3	20
ZZ122981		10	1	0.20	10	1.01	292	1	0.02	47	500	7	0.03	<2	8	28
ZZ122982		10	<1	0.24	10	0.85	265	1	0.02	49	500	5	0.02	<2	6	18
ZZ122983		10	1	0.21	10	0.68	232	<1	0.02	37	470	2	0.01	<2	5	16
ZZ122984		10	<1	0.30	10	0.79	301	1	0.02	40	1160	2	0.01	<2	5	27
ZZ122985		10	1	0.32	10	1.07	278	1	0.02	51	520	7	0.01	<2	6	20
ZZ122986		10	<1	0.41	10	1.05	409	1	0.04	57	1050	4	0.01	<2	7	38
ZZ122987		10	1	0.33	10	0.87	252	1	0.02	33	530	4	0.02	<2	6	19
ZZ122988		10	1	0.35	10	0.94	279	1	0.02	44	330	5	0.01	<2	7	21
ZZ122989		10	1	0.36	10	0.88	199	1	0.03	58	900	5	0.25	2	4	53
ZZ122990		10	<1	0.14	10	0.69	264	1	0.01	24	330	6	0.02	<2	4	21



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ122951		<20	0.16	<10	<10	83	<10
ZZ122952		<20	0.16	<10	<10	81	<10
ZZ122953		<20	0.15	<10	<10	80	<10
ZZ122954		<20	0.15	<10	<10	81	<10
ZZ122955		<20	0.16	<10	<10	78	<10
ZZ122956		<20	0.20	<10	<10	82	<10
ZZ122957		<20	0.15	<10	<10	78	<10
ZZ122958		<20	0.17	<10	<10	91	<10
ZZ122959		<20	0.14	<10	<10	77	<10
ZZ122960		<20	0.16	<10	<10	93	<10
ZZ122961		<20	0.17	<10	<10	81	<10
ZZ122962		<20	0.18	<10	<10	97	<10
ZZ122963		<20	0.14	<10	<10	83	<10
ZZ122964		<20	0.15	<10	<10	86	<10
ZZ122965		<20	0.13	<10	<10	80	<10
ZZ122966		<20	0.16	<10	<10	93	<10
ZZ122967		<20	0.14	<10	<10	81	<10
ZZ122968		<20	0.15	<10	<10	86	<10
ZZ122969		<20	0.14	<10	<10	81	<10
ZZ122970		<20	0.18	<10	<10	103	<10
ZZ122971		<20	0.14	<10	<10	77	<10
ZZ122972		<20	0.13	<10	<10	75	<10
ZZ122973		<20	0.17	<10	<10	109	<10
ZZ122974		<20	0.13	<10	<10	75	<10
ZZ122975		<20	0.13	<10	<10	76	<10
ZZ122976		<20	0.12	<10	<10	70	<10
ZZ122977		<20	0.15	<10	<10	87	<10
ZZ122978		<20	0.17	<10	<10	101	<10
ZZ122979		<20	0.16	<10	<10	93	<10
ZZ122980		<20	0.11	<10	<10	73	<10
ZZ122981		<20	0.17	<10	<10	104	<10
ZZ122982		<20	0.13	<10	<10	79	<10
ZZ122983		<20	0.11	<10	<10	64	<10
ZZ122984		<20	0.11	<10	<10	66	<10
ZZ122985		<20	0.17	<10	<10	101	<10
ZZ122986		<20	0.14	<10	<10	85	<10
ZZ122987		<20	0.13	<10	<10	81	<10
ZZ122988		<20	0.15	<10	<10	88	<10
ZZ122989		<20	0.11	<10	<10	77	<10
ZZ122990		<20	0.11	<10	<10	80	<10



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-ICP41 Ag ppm 0.2	ME-ICP41 Al % 0.01	ME-ICP41 As ppm 2	ME-ICP41 B ppm 10	ME-ICP41 Ba ppm 10	ME-ICP41 Be ppm 0.5	ME-ICP41 Bi ppm 2	ME-ICP41 Ca % 0.01	ME-ICP41 Cd ppm 0.5	ME-ICP41 Co ppm 1	ME-ICP41 Cr ppm 1	ME-ICP41 Cu ppm 1	ME-ICP41 Fe % 0.01
ZZ91141		0.34	0.059	<0.2	2.50	207	<10	280	<0.5	<2	0.36	<0.5	14	78	47	3.77
ZZ91142		0.50	0.019	<0.2	2.29	105	<10	230	<0.5	<2	0.57	<0.5	15	68	42	3.54
ZZ91143		0.33	0.012	0.2	1.97	132	<10	140	<0.5	<2	0.37	<0.5	15	56	31	3.39
ZZ91144		0.34	0.003	0.2	2.08	54	<10	190	0.5	<2	0.55	<0.5	17	46	34	3.23
ZZ91145		0.42	0.003	0.2	1.98	59	<10	110	<0.5	<2	0.46	<0.5	13	60	29	2.92
ZZ91146		0.31	0.018	0.4	1.59	583	<10	210	<0.5	<2	1.78	<0.5	12	41	204	2.35
ZZ91147		0.47	0.006	<0.2	2.00	64	<10	170	<0.5	<2	0.39	<0.5	16	50	24	3.04
ZZ93488		0.34	0.018	<0.2	1.88	377	<10	120	<0.5	<2	0.35	<0.5	12	55	21	2.84
ZZ93489		0.34	0.039	<0.2	2.65	161	<10	220	<0.5	<2	0.38	<0.5	15	68	37	3.25
ZZ93490		0.30	0.009	0.2	2.87	87	<10	140	0.5	<2	0.33	<0.5	15	65	29	3.42
ZZ93491		0.30	0.012	<0.2	1.14	117	<10	100	<0.5	<2	0.29	<0.5	9	29	22	2.27
ZZ93492		0.35	0.009	0.2	1.85	69	<10	120	<0.5	<2	0.53	<0.5	18	47	31	4.07
ZZ93493		0.31	0.021	0.2	2.33	182	<10	200	<0.5	<2	0.48	<0.5	16	64	43	3.67
ZZ93494		0.45	0.020	<0.2	2.33	147	<10	210	<0.5	<2	0.40	<0.5	13	74	33	3.22
ZZ93495		0.52	0.029	0.2	2.36	215	<10	220	<0.5	<2	0.50	<0.5	18	69	51	3.50
ZZ93496		0.54	0.049	0.2	2.98	193	<10	410	<0.5	<2	0.53	<0.5	20	94	59	4.35
ZZ93497		0.44	0.085	<0.2	2.45	184	<10	280	<0.5	<2	0.31	<0.5	15	72	42	3.43
ZZ93498		0.43	0.039	<0.2	2.66	156	<10	260	<0.5	<2	0.34	<0.5	16	80	46	3.84
ZZ93499		0.48	0.026	0.3	2.45	148	<10	250	<0.5	<2	0.50	<0.5	14	74	40	3.52
ZZ93500		0.24	0.019	0.4	2.24	144	<10	240	0.6	<2	1.09	<0.5	19	50	129	3.43



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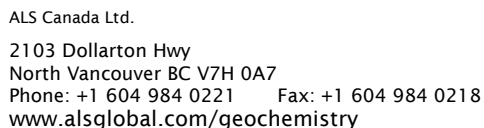
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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm 10	ppm 1	% 0.01	ppm 10	% 0.01	ppm 5	ppm 1	% 0.01	ppm 1	ppm 10	ppm 2	% 0.01	ppm 2	ppm 1
ZZ91141		10	1	0.55	10	1.17	428	1	0.02	47	710	3	0.01	<2	8
ZZ91142		10	<1	0.42	10	1.17	478	1	0.02	43	810	4	0.01	<2	7
ZZ91143		10	1	0.34	<10	0.91	299	1	0.02	38	460	6	0.02	<2	5
ZZ91144		10	<1	0.07	10	0.54	548	2	0.02	30	460	8	0.02	2	4
ZZ91145		10	1	0.21	10	0.80	250	1	0.02	33	410	5	0.01	<2	5
ZZ91146		<10	1	0.21	20	0.57	298	1	0.02	42	920	4	0.09	2	4
ZZ91147		10	<1	0.20	10	0.80	411	1	0.02	32	510	6	<0.01	<2	5
ZZ93488		10	<1	0.24	10	0.85	306	1	0.01	30	350	6	0.02	<2	5
ZZ93489		10	1	0.33	10	0.96	329	1	0.02	51	510	4	0.02	<2	7
ZZ93490		10	1	0.22	10	0.95	282	1	0.02	40	440	5	0.01	<2	7
ZZ93491		10	<1	0.07	<10	0.44	251	1	0.01	16	520	3	0.01	<2	2
ZZ93492		10	1	0.21	10	0.69	449	2	0.01	27	250	8	0.01	<2	5
ZZ93493		10	1	0.54	10	0.96	361	1	0.02	45	430	7	0.01	<2	6
ZZ93494		10	1	0.51	10	1.11	360	<1	0.03	41	740	4	<0.01	<2	7
ZZ93495		10	1	0.49	10	1.09	408	1	0.02	46	570	5	0.01	<2	7
ZZ93496		10	1	1.01	10	1.39	578	1	0.04	58	1070	6	<0.01	<2	11
ZZ93497		10	1	0.45	10	1.07	411	1	0.02	46	630	4	<0.01	<2	8
ZZ93498		10	1	0.64	10	1.16	393	1	0.02	45	450	5	0.01	<2	9
ZZ93499		10	1	0.56	10	1.13	421	1	0.02	43	520	6	0.03	<2	8
ZZ93500		10	<1	0.08	10	0.71	472	1	0.02	52	1370	7	0.07	<2	4



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CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
	LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
	Au-ICP21 ME-ICP41