

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 – 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

ASSESSMENT REPORT

describing

PROSPECTING AND SOIL GEOCHEMICAL SAMPLING

Field work performed between August 20 to 27, 2020

at the

BIX PROPERTY

Bix 1-48 YE94601-YE94648

NTS 115P/15

Latitude 63°50'N; Longitude 136°37'W

located in the

Mayo Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

by

H. Burrell, P.Geol

January 2021

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INTRODUCTION

The Bix property was staked in March 2020 to cover a tin breccia and skarn occurrence (Bix Occurrence (MINFILE 115P 031)). The property also hosts potential for skarn- and/or intrusion-related gold, silver, copper, and tungsten mineralization. The Bix property is wholly owned by Archer, Cathro & Associates (1981) Limited.

This report describes prospecting and geochemical sampling conducted by Archer Cathro from August 20 to 27, 2020. The author interpreted all the data in this report and her Statement of Qualifications is provided in Appendix I. A Statement of Expenditures appears in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The property is located 45 km northwest of Mayo in central Yukon, at latitude 63°50'00"N and longitude 136°37'44"W on NTS map sheet 115P/15 (Figure 1). The property comprises 48 contiguous claims, which cover 972 hectares (9.7 km²). The claims are registered with the Mayo Mining Recorder in the name of Archer Cathro. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2. The Bix property lies within the traditional territory of the Na-cho Nyak Dun First Nation.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Bix 1-48	YE94601-YE94648	April 7, 2026

* Expiry date includes 2020 work, which has been filed for assessment credit.

The Bix property can be accessed by helicopter from a base in Mayo or alternatively Dawson City. In 2020, a two person crew camped on the property. Helicopter support was provided by a Bell 206 LR helicopter operated by Fireweed Helicopters Ltd., from a seasonal base at the Mayo Airport, located 45 km southeast of the property.

HISTORY AND PREVIOUS WORK

The McQuesten Mineral Belt is a well-known, but often overlooked district hosting over 185 documented mineral occurrences. The belt's importance was recognized in the 1940s when wood tin and crystal cassiterite were discovered in black sands from placer gold workings (Bostock, 1942 and 1964).

In 1979, Cominco Ltd. conducted a diamond drill program in the Sunshine Creek area of what is now the Bix property. Five diamond drill holes were completed to test two breccia zones (Zones A and B) collectively known as the Bix Occurrence. The drill core was only analyzed for tin, silver, copper, lead and zinc. Core from the program was stored at 4200' elevation above Sunshine Creek; however, the mineralized core intervals have reportedly been removed. The drilling was documented in two assessment reports (Butrenchuk, 1979 and 1980). Results from this drill program are discussed in Historical Diamond Drilling section below.

FIGURE 1




PROPERTY LOCATION

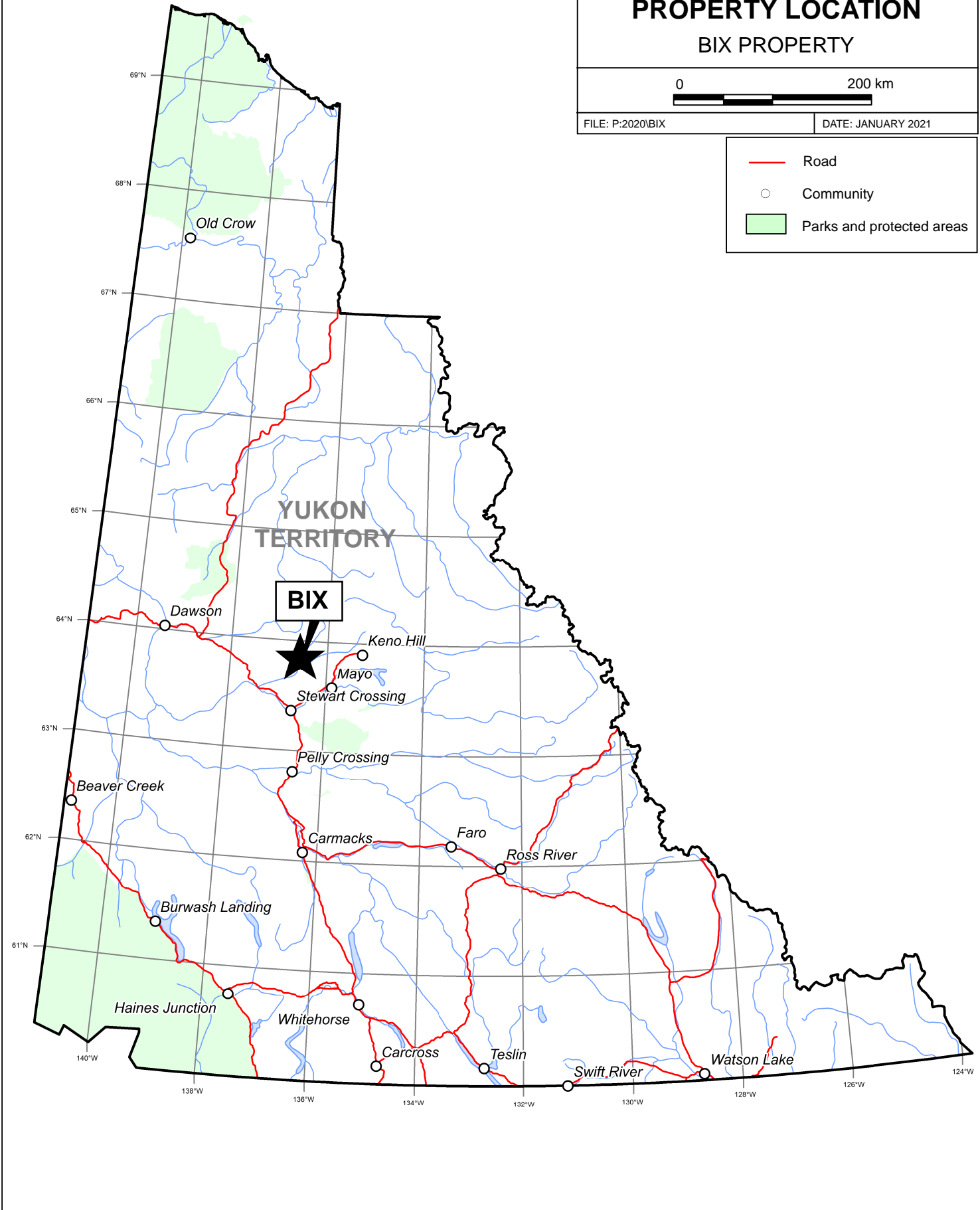
BIX PROPERTY

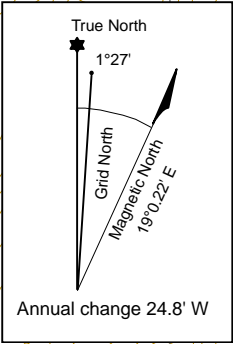
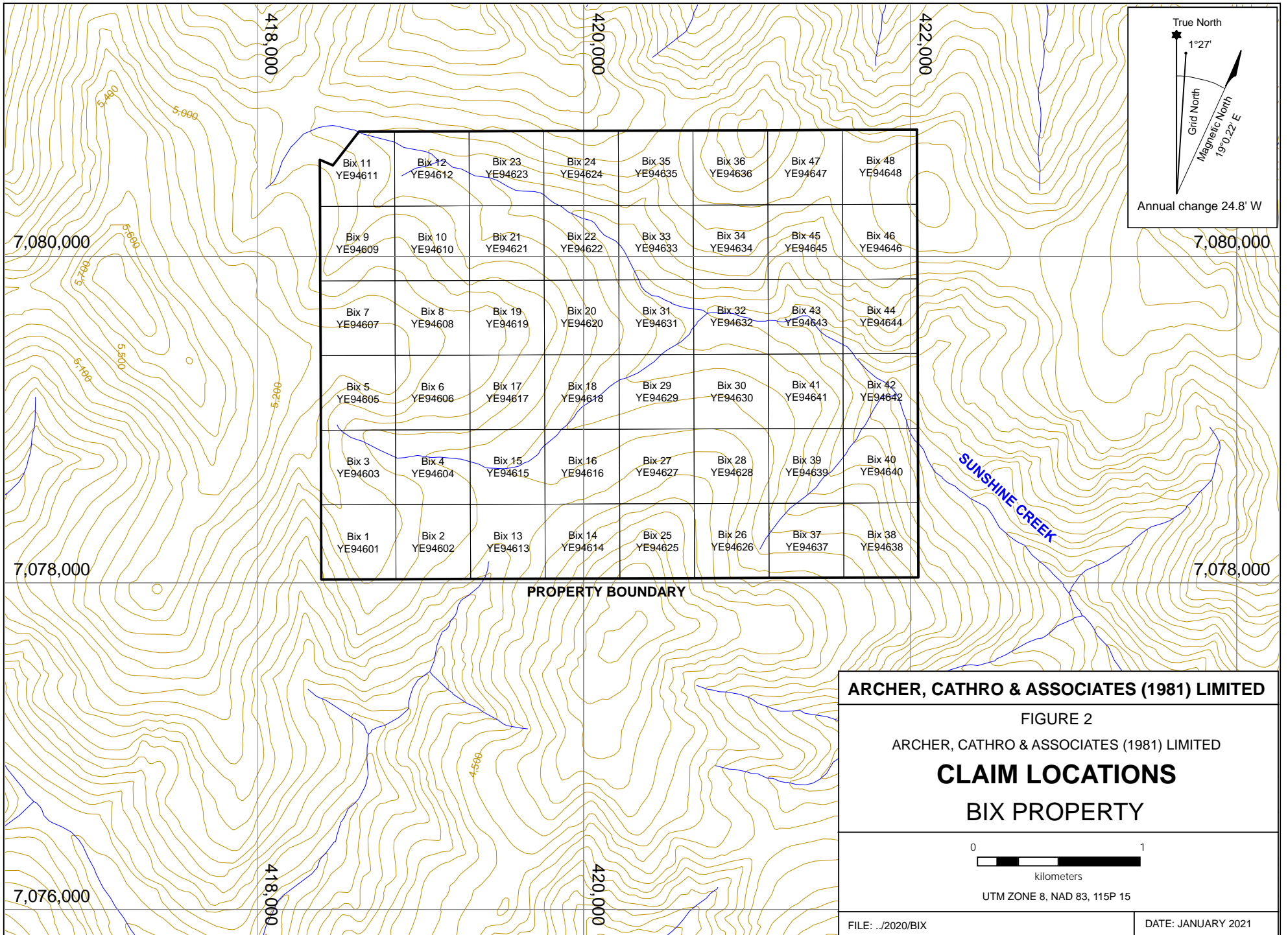


FILE: P:2020\BIX

DATE: JANUARY 2021

-  Road
-  Community
-  Parks and protected areas



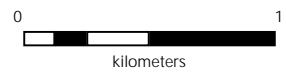


PROPERTY BOUNDARY

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS
BIX PROPERTY



UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX

DATE: JANUARY 2021

The year after the drill program a 1:10,000 scale mapping and heavy pan concentrate sampling program was conducted (Hawkins, 1981).

In September, 1980, exploration was conducted in the Bix Occurrence area on behalf of Pacific Ridge Resources Corporation (Hawkins, 1981). Thirty-three heavy pan concentrates were collected from the Sunshine Creek area and a 1:10,000 scale geological map was completed. Results from the heavy pan concentrate sampling in Sunshine Creek were positive. Samples collected from ground underlain by the Sunshine Creek Stock returned 0.26%, 0.16% and 0.12% tin and 0.01 oz/ton (342 ppb) gold and 0.007 oz/ton (239 ppb) gold. Pacific Ridge subsequently dropped its option and none of the anomalous heavy pan concentrates were followed up.

In 1993, the Yukon Geological Survey conducted regional mapping in the Sunshine Creek area. During this work a sample (93DH-26d) was collected from the Sunshine Creek stock in the Bix Occurrence area. The sample was described as limonite breccia with quartz and sulphide coated fractures spatially associated with the stock. This sample returned 28 ppb gold, 48 ppm silver, 727 ppm copper, 2.1% lead, 2408 ppm zinc, 200 ppm tin, 16 ppm antimony, 11 ppm molybdenum, 47 ppm bismuth, 90 ppm tungsten and 52 ppm barium.

In 1997, the YGS published a bulletin on the Geology of the McQuesten River region that included much of the data collected in 1993 (Murphy, 1997).

In 2011, Goldspike Exploration Inc. conducted soil, silt and rock geochemical surveys along with prospecting on claims that overlap the current Bix property (Koffyberg, 2012). The focus of this exploration program was intrusion-related gold mineralization, so no analyses were done for tin. Ridge and spur soil lines resulted in only four anomalous gold-in-soil sample locations, one of which falls within the current Bix property. No further work was completed by Goldstrike and the claims were allowed to lapse.

GEOMORPHOLOGY

The Bix property is located northeast of the Tintina Trench within the Stewart Plateau. Local creeks drain either northward into the North McQuesten River or southeast into the main McQuesten River, both of which are part of the Yukon River drainage system. The Stewart Plateau consists of a series of tablelands incised by broad, deeply-cut valleys. Most of the drainages were affected by Pleistocene glaciation, but at higher elevations, thin layers of weathered and mass-wasted bedrock partially blanket bedrock.

Elevations on the property range from approximately 600 to 1500m. The entire property lies below treeline and is vegetated by a boreal forest of shrub birch, pine, white spruce, and subalpine fir. Valley glaciers in the area topped at about 1350m.

The climate at the Bix property is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively warm, snowfall can occur in any month. The property is mostly snow free from late May to early October.

REGIONAL GEOLOGY

Neoproterozoic to late Paleozoic slope-to-basin facies strata of the Selwyn Basin dominate the region around the Bix property (Figure 3). The Selwyn Basin developed along a divergent margin during Neoproterozoic rifting along the northwestern flank of Laurentia (Mair et al., 2006). Neoproterozoic to Early Cambrian clastic deposits are the oldest exposed strata and are overlain by a thin succession of Early Cambrian to Early Devonian basinal strata and minor volcanic rocks (Mair et al., 2006).

In the region surrounding the Bix property Selwyn Basin stratigraphy is disrupted by three main north- to northwest-directed thrust faults. These are from north to south, the Dawson, Tombstone and Robert Service thrusts (Figure 3; Murphy, 1997; Mair et al., 2006). Proterozoic strata of the Mackenzie Platform underlie the area north of the Dawson Thrust. The hanging wall of the Tombstone Thrust is comprised of a thick and aerially extensive package of highly deformed rocks referred to as the Tombstone Strain Zone (Murphy, 1997). This zone is several kilometres thick and extends upwards from the Tombstone Thrust and into the lower part of the overlying Robert Service Thrust sheet (Murphy, 1997). The strain zone is mostly comprised of Devonian to Mississippian rocks of the Earn Group including a thick package of the Keno Hill Quartzite (Figure 3). Neoproterozoic to Paleozoic slope-to-basin facies strata of the Hyland Group underlie the area south of the Robert Service Thrust. The major thrust faults developed during Early Jurassic to Early Cretaceous collisional orogeny are gently dipping. The regionally developed McQuesten Antiform was developed synchronous with the latter stages of thrusting and defines a northeast trending structural culmination that runs through the immediate area of the Bix property (Figure 3).

Deformation related to thrusting waned by the mid-Cretaceous and was followed by the emplacement of a northward-younging series of orogen-parallel, felsic to intermediate postcollisional plutonic suites from ca. 112 to 90 Ma (Mortensen et al., 2000; Mair et al., 2006). This belt of intrusive rocks is referred to as the Tombstone-Tungsten Belt, which is subdivided into the Tombstone, Mayo and Tungsten suites (Mortensen et al., 2000; Baker and Lang, 2001; Hart et al., 2004; Mair et al., 2006). Collectively, these suites form a narrow, west-northwest-trending group of plutons that extends for 550 km, from the Northwest Territories across central Yukon, continuing through east-central Alaska.

Younger intrusions of the McQuesten Suite occur within an east-northeast trending belt, mostly found within the hanging wall of the Robert Service Thrust; however, small plugs of the suite occur within the footwall of the Dawson Thrust. One small plug of McQuesten suite is thought to be associated with the Tiger gold deposit. The age of the McQuesten Suite is ca. 67- 64 Ma and is generally comprised of two mica granite to monzonite. The belt of McQuesten Suite rocks has been offset along the Tintina Fault system with the continuation of the belt occurring in central Alaska where they host significant porphyry copper-gold mineralization (McCoy et al., 1997; Woodman, 2018). This suite's radiogenic, peraluminous nature suggests melting of old crustal material, but the geodynamic setting of melting at this time is essentially unconstrained (Murphy, 1997).

Regional lithologies surrounding the Bix property are described in Table I below.

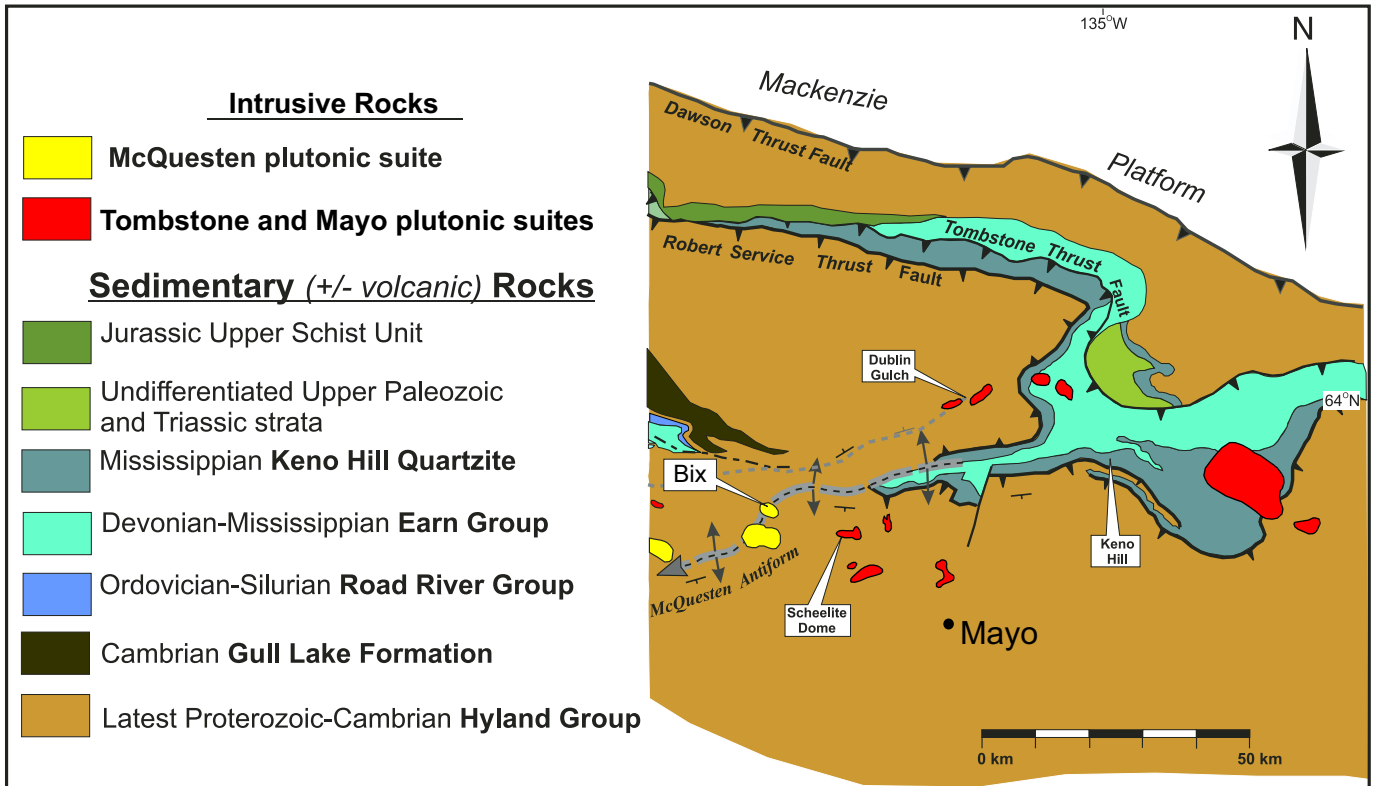


Figure 3. Regional geology surrounding the Bix Property.

Table I - Regional Lithological Units (After YGS, 2020)

Name	Age	Unit	Description
McQuesten Suite	Late Cretaceous	LKqM	Medium to coarse-grained, locally porphyritic and K-feldspar megacrystic biotite-muscovite granite and quartz monzonite.
Tombstone Suite	Mid Cretaceous	MKT	Plutonic suite dominated by felsic (q) to syenitic (y) and minor intermediate (g) compositions q: medium to coarse-grained, locally porphyritic biotite hornblende, clinopyroxene granite g: quartz monzonite, granodiorite, quartz diorite y: medium to coarse-grained biotite-hornblende-clinopyroxene syenite, quartz syenite; tourmaline orbicular granite; hornblende biotite alkali-feldspar syenite; hornblende biotite monzogranite; clinopyroxenite, diorite, and pseudoleucite tinguaitite.
Mayo Suite	Mid Cretaceous	MKqM	Medium-grained, equigranular biotite granite; K-feldspar porphyritic granite; aplite-pegmatite dykes.
Tungsten Suite	Mid Cretaceous	MKTu	Fine-grained equigranular, medium to coarse-grained and K-feldspar porphyritic or megacrystic, ilmenite and monazite-bearing biotite monzogranite and leucogranite; locally miarolitic, aplite ± pegmatic ± quartz-feldspar-(biotite) porphyry dykes
Keno Hill Quartzite	Mississippian	CT1,2	Massive to thick-bedded quartz arenite, quartzite interlayered with black shale or carbonaceous phyllite; black to silvery shale or carbonaceous phyllite with minor quartzite interlayers
Earn Group	Devonian to Mississippian	DME1 DEM3	1, thin-bedded laminated slate with interbedded fine to medium-grained chert-quartz arenite and wacke; local chert pebble conglomerate; 2, massive felsic to intermediate volcanic flows, tuffs and subvolcanic plugs; locally highly altered; greenish chert and minor black slate; quartz-sericite schist
Hyland Group	Neoproterozoic to Ediacaran	PCH6	Brown to pale green shale, quartz-rich sandstone, grit, pebble conglomerate.

REGIONAL METALLOGENY

The Bix property lies within the McQuesten River area and is part of the Tintina Gold Province (Figure 4). The Tintina Gold Province is a 2,000-km-long belt across the central Yukon and interior Alaska containing numerous gold deposits and districts that formed during Jurassic to Cretaceous orogenesis. Significant developed and undeveloped gold deposits include Donlin Creek (24.3 million ounces (Moz)), Pogo (5.8 Moz), Fort Knox (5.4 Moz), Eagle/ Dublin Gulch (4.1 Moz), Brewery Creek (0.85 Moz) and True North (0.79 Moz) (Figure 4). It has been postulated that many deposits of the Tintina Gold Province are best classified as intrusion-related gold systems due to the spatial and temporal association of many of the gold deposits with felsic to intermediate plutonic rocks (Thompson et al., 1999; Thompson and Newberry, 2000; Mair et al., 2006; Hart, 2007).

The region surrounding the Bix property is host to most of the intrusion-related gold systems associated with the Tombstone-Tungsten Belt, including Brewery Creek, Clear Creek, Scheelite Dome and Eagle/ Dublin Gulch (Figures 3 and 4).

Deposits of the Tombstone Belt exhibit a variety of mineralization styles. Gold occurrences within the mid-Cretaceous intrusions are predominantly hosted in sheeted, low sulfide quartz veins in the cupolas of intrusions. Occurrences in adjacent hornfels are more variable in style, with sheeted tension veins, fault veins, reduced skarns, and disseminated ores (Hart et al., 2004; Mair et al., 2006). Gold is typically associated with variable enrichments of W, Bi, Te, As ± Sb, and Mo and typically occurs in four settings:

1. Intrusion-hosted deposits;
2. Proximal settings adjacent to intrusions and within contact aureoles;
3. Distal settings away from intrusions and their thermal aureoles; and,
4. Discrete quartz-sulphide veins within all settings.

Intrusion-hosted mineralization is often characterized by sheeted, low sulphide, quartz ± carbonate veins or disseminations of gold and accompanying sulphide minerals in weakly altered zones within the intrusions. The veins may be pegmatitic in part and they are generally concentrated in the roof or margin zones of the pluton. The best example of intrusion-hosted sheeted vein mineralization is the Fort Knox deposit in the Fairbanks District of Alaska. Noteworthy Yukon examples of the sheeted vein type mineralization are the Clear Creek occurrence and the Eagle Zone of the Dublin Gulch Deposit (Figure 4). The latter deposit contains 91.6 million tonnes of probable mineral reserves at a grade of 0.78 g/t gold. The best documented Yukon deposit of the disseminated intrusion-hosted type are some of the zones that comprise the Brewery Creek Mine, located ~50 km east of Dawson City. A total of 9.46 million tonnes of ore, at an average grade of 1.53 g/t gold, were heap leached from 1996 to 2000 (Diment and Simpson, 2003). The aggregate pre-mining mineral resource was estimated at 40 million tonnes grading 1.4 g/t gold (Hart, et al., 2000).

Proximal, country-rock hosted mineralization includes skarns, replacements and disseminations in thermally metamorphosed and metasomatized aureoles that surround Tombstone Suite plutons. Precious metal bearing skarns are locally developed within limy units and consist of

STRATEGIC METALS LTD.

FIGURE 4

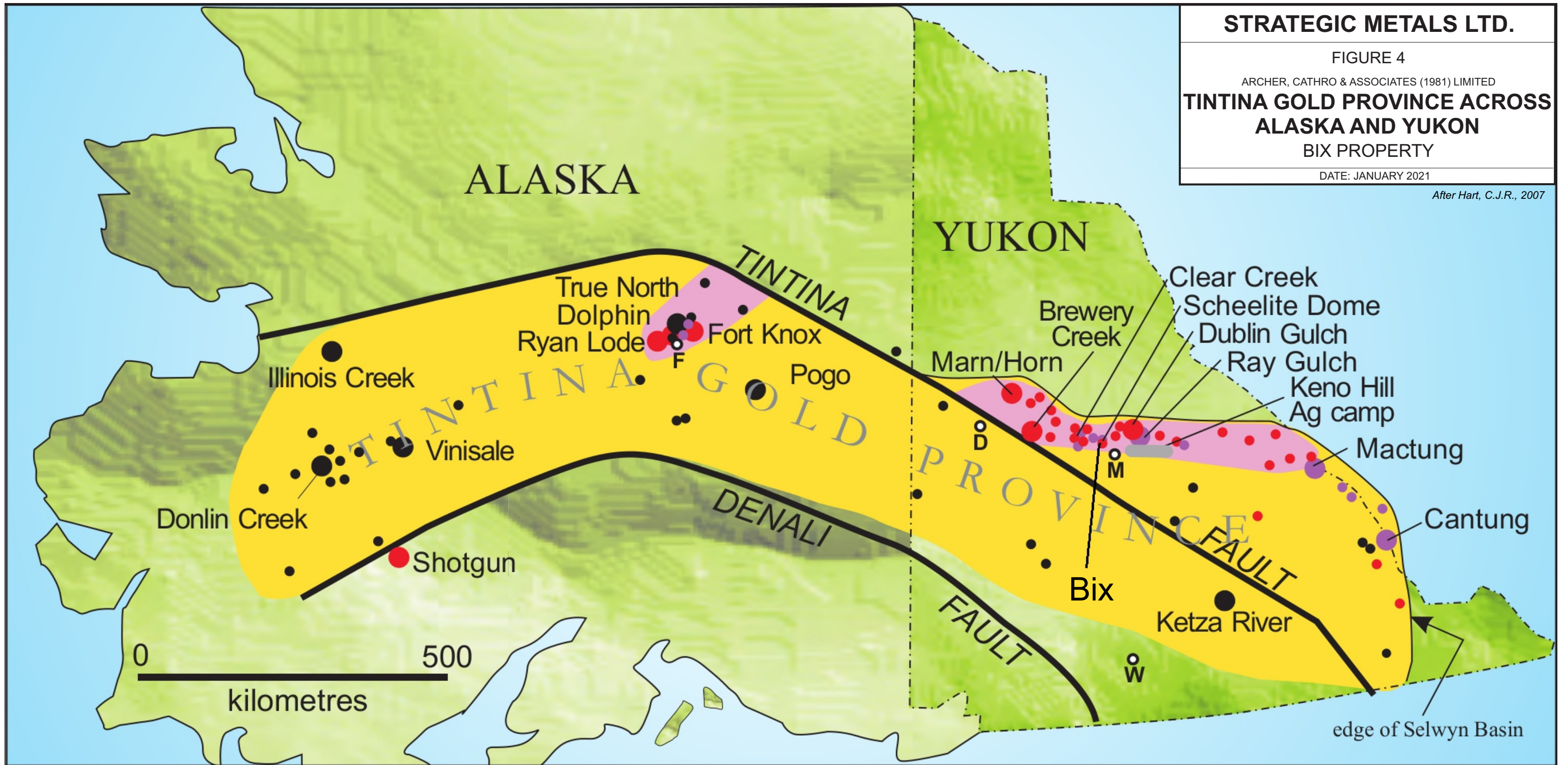
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**TINTINA GOLD PROVINCE ACROSS
ALASKA AND YUKON**

BIX PROPERTY

DATE: JANUARY 2021

After Hart, C.J.R., 2007



coarse grained silicate assemblages dominated by pyroxene and garnet with lesser wollastonite, tremolite, and axinite. Sulphide assemblages include pyrrhotite and chalcopyrite with late pyrite, bismuthinite and gold or argentian gold overprints. The Marn, Horn and Mike Lake copper-gold skarn occurrences are the best documented Yukon examples of proximal skarns. Replacement and disseminated gold mineralization has been reported in reactive sedimentary rocks within hornfelsed aureoles of several intrusions but there are few well explored examples. Mineralogy within hornfels is typified by coarse grained pyrrhotite, arsenopyrite and pyrite as irregular blebs and replacements.

In the McQuesten River area, there are numerous tin \pm silver occurrences that are associated with two-mica granites, while tungsten \pm gold occurrences are associated with less evolved biotite-hornblende granite, quartz monzonite, and granodiorite (Emond and Lynch, 1992). Two styles of tin and tungsten mineralization are typical of the McQuesten River area, (1) skarns, and (2) veins and breccias (Emond and Lynch, 1992)

Skarn mineralization typically develops within the Hyland Group carbonates and other calcareous units within Selwyn Basin stratigraphy at or near contacts with mid- to Late Cretaceous intrusions. Tin skarn occurrences are found at the Bix, Boulder Creek (115P 048) and Snark (115P 008b) Minfile occurrences. Tungsten skarn occurs at Scheelite Dome (115P 004), Lugdush (115P 009), Rhosgobel (115P 012) and Ray Gulch (106D 027) (Emond and Lynch, 1992).

Veins, breccias and sheeted veins containing tin and tungsten can also occur near dyke and plutonic contacts within surrounding metasedimentary rocks. Sheeted veins in some cases extend from the pluton several hundred metres into the country rock. Most veins and breccias dip steeply and are fault or joint controlled (Emond and Lynch, 1992). Breccias typically consist of a combination of host rock fragments with vein material clasts in a fine-grained matrix of the same material. Vein material can either be quartz, tourmaline or chlorite (Emond and Lynch, 1992). Vein types can be subdivided into the same three dominant mineral assemblages:

- a) quartz \pm tourmaline, orthoclase, cassiterite, scheelite, topaz;
- b) tourmaline \pm sulphides, cassiterite; and
- c) chlorite \pm cassiterite, sulphides, biotite, muscovite.

The McQuesten River area has gold as well as tin-tungsten potential. Most skarns and several veins are gold-bearing, but there is no direct correlation between gold, tin and tungsten. However, skarns in this area often show a strong positive correlation between gold and bismuth (Emond and Lynch, 1992).

PROPERTY GEOLOGY

The Bix property has a mix of areas with little to no outcrop and creeks and some slopes where bedrock exposure is moderate. A generalized geological map of portions of the property was completed by Hawkins (1981) and provides the best detail to date (Figure 5). The property is mostly underlain by meta-siliciclastic rocks of the Yusezyu Formation, part of the regionally extensive Hyland Group. At the Bix property the Yusezyu Formation comprises foliated and

lineated quartzo-feldspathic and micaceous psammite, and interlayers of quartz-muscovite and quartz-biotite schist. Less common, but locally important, are gritty to pebbly psammite, metamorphosed pebble conglomerate, foliated phyllite, marble, and calc-silicate rocks (Hawkins, 1981; Murphy, 1997). Much of the eastern portion of the property is underlain by the Sunshine Creek stock, a McQuesten suite pluton. The stock is characterized by unfoliated but variably altered quartz monzonite and quartz-feldspar porphyry. Locally the stock has a greisen texture. A sample of the Sunshine Creek was analysed for U/Pb zircon geochronology and returned an age of 64.8 ± 1.0 Ma (Murphy, 1997). Several outcrops of aplite occur on the property intruding the metasedimentary rocks and apparently cut the Sunshine Creek stock (Koffyberg, 2012). The aplites are likely a younger phase of the McQuesten suite.

Foliations within the metasedimentary units generally strike south to southwest with moderate to steep west to northwest dips. A few northwest striking foliations suggest some folding exists and a cross-section through the property shows a north trending antiform developed within the metasedimentary rocks, centred on Sunshine Creek (Figure 6). North to northeast striking faults were identified in the northern part of the property as were several similarly orientated breccia bodies (Figure 5).

MINERALIZATION

The Bix Occurrence is a tin prospect in the McQuesten Mineral Belt. The original discovery was a tin and silver breccia zone hosted in the Yusezyu Formation near the Sunshine Creek stock. The two main historical targets (Zones A and B) on the Bix property are breccias characterized by quartzite fragments within a quartz-orthoclase-tourmaline-cassiterite matrix. The breccia at Zone A is 1 to 10 m wide and at least 200 m long, while the Zone B breccia is 1 to 5 m wide and extends for at least 10 m (Hawkins, 1981; Koffyberg, 2012). The breccias in both zones are developed within the hornfelsed country rock surrounding or above the Sunshine Creek stock (Figure 5). The breccias have been interpreted as zones of extension formed during intrusion of the Sunshine Creek stock and subsequent doming of the surrounding host rocks (Figure 6; Hawkins, 1981).

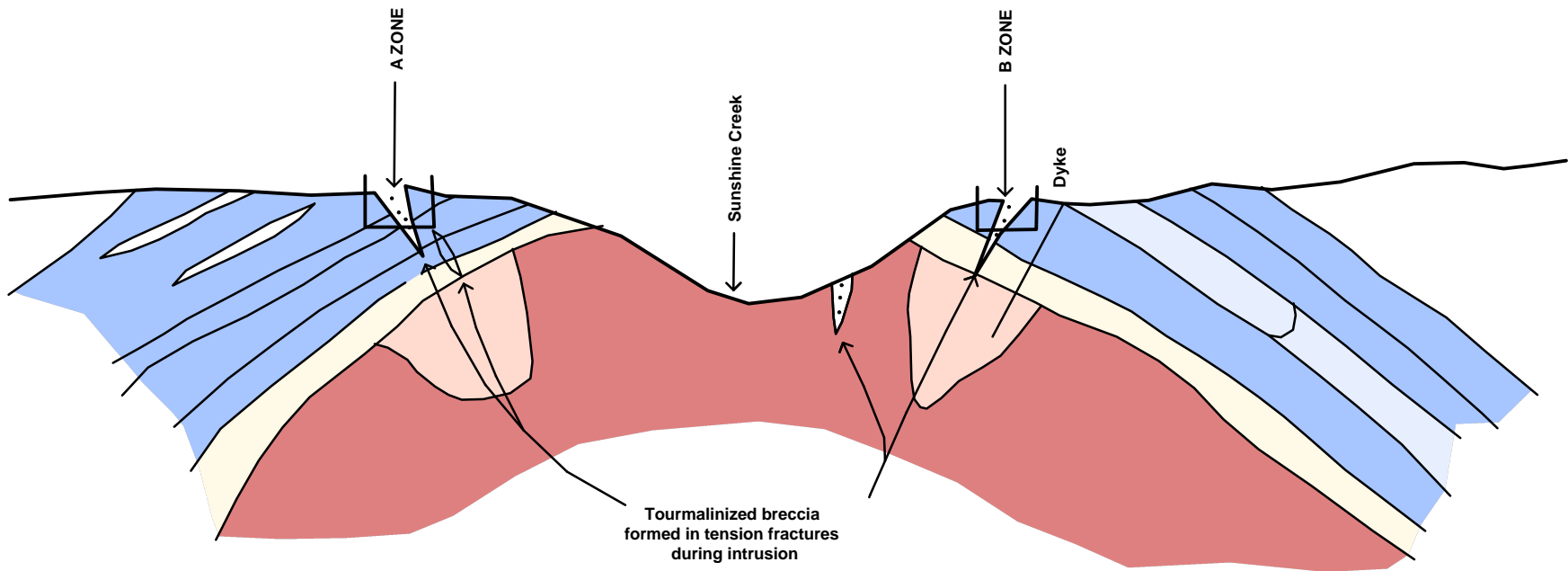
Historically tin was the primary element of interest at the Bix property; however, two heavy pan concentrates returned significant gold values of 239 ppb (0.007 oz/ton) from Zone A and 342 (0.01 oz/ton) from just south of Zone B (Figure 7). The potential for intrusion-related gold has not received much follow up work; however, based on the postulation that the gold deposits in the Tintina Gold Province are spatially and temporally associated with felsic to intermediate plutonic rocks (Hart, 2007) – the gold potential at the Bix property is also a viable exploration target.

HISTORICAL DIAMOND DRILLING

Diamond drilling was conducted on the Bix property in 1979 by Cominco Ltd. Five drill holes were completed for a total of 673 m (Table II). The drill program was designed to test the breccias at Zones A and B (Figure 7).

W

E



after Hawkins (1981)

- Quartz Monzonite
- Phyllite
- Quartz, quartz-feldspar porphyry
- Quartz-biotite-chlorite schist
- Limestone skarn
- Greisen

Possible targets:

- 1) Quartz-greisen veins SW-W (Pb, Zn Ag, Cu)
- 2) Greisenized granite SW-W
- 3) Skarn W-SW

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FIGURE 6

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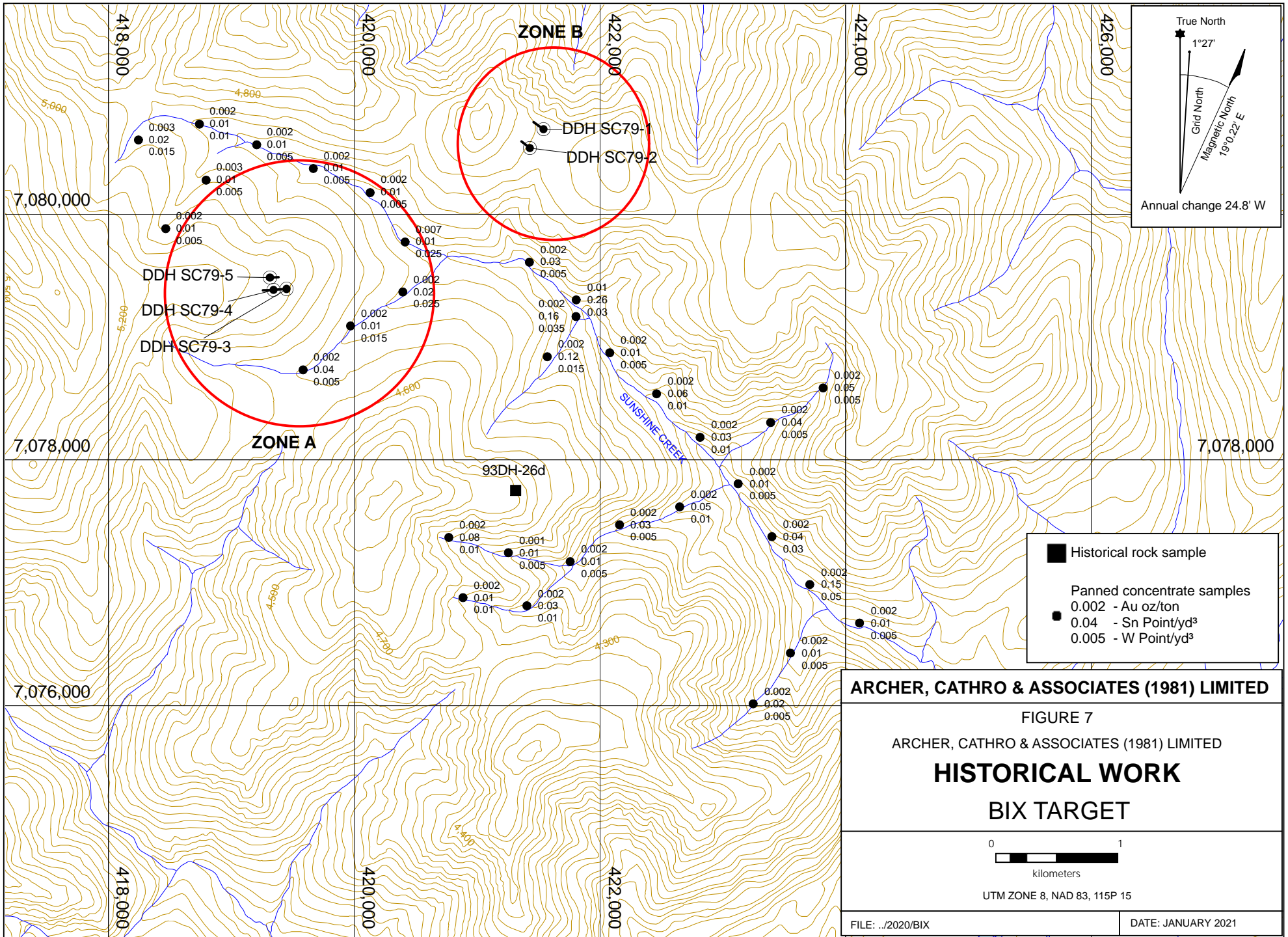
CROSS SECTION

BIX PROPERTY

UTM ZONE 8, NAD 83, 115P 15

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FIGURE 7

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HISTORICAL WORK

BIX TARGET

Table II – Historical Diamond Drilling

Hole	Zone	Azimuth (°)	Dip (°)	Depth (ft)
SC79-1	B	310	-50	427
SC79-2	B	310	-50	447
SC79-3	A	270	-65	437
SC79-4	A	295	-60	434
SC79-5	A	090	-60	463

Drill holes SC79-1 and SC79-2 tested Zone B, while drill holes SC79-3, -4 and -5 tested Zone A. Results from SC79-1, -2 and -3 were subdued. Results from SC79-4 and -5 are highlighted below. Only significant values are reported (from Butrenchuk, 1980).

The best results from SC79-4 were:

- 0.28% tin over 25' (7.62 m); and,
- 0.15% tin over 5' (1.52 m)

The best results from SC79-5 were:

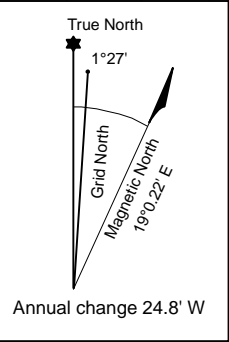
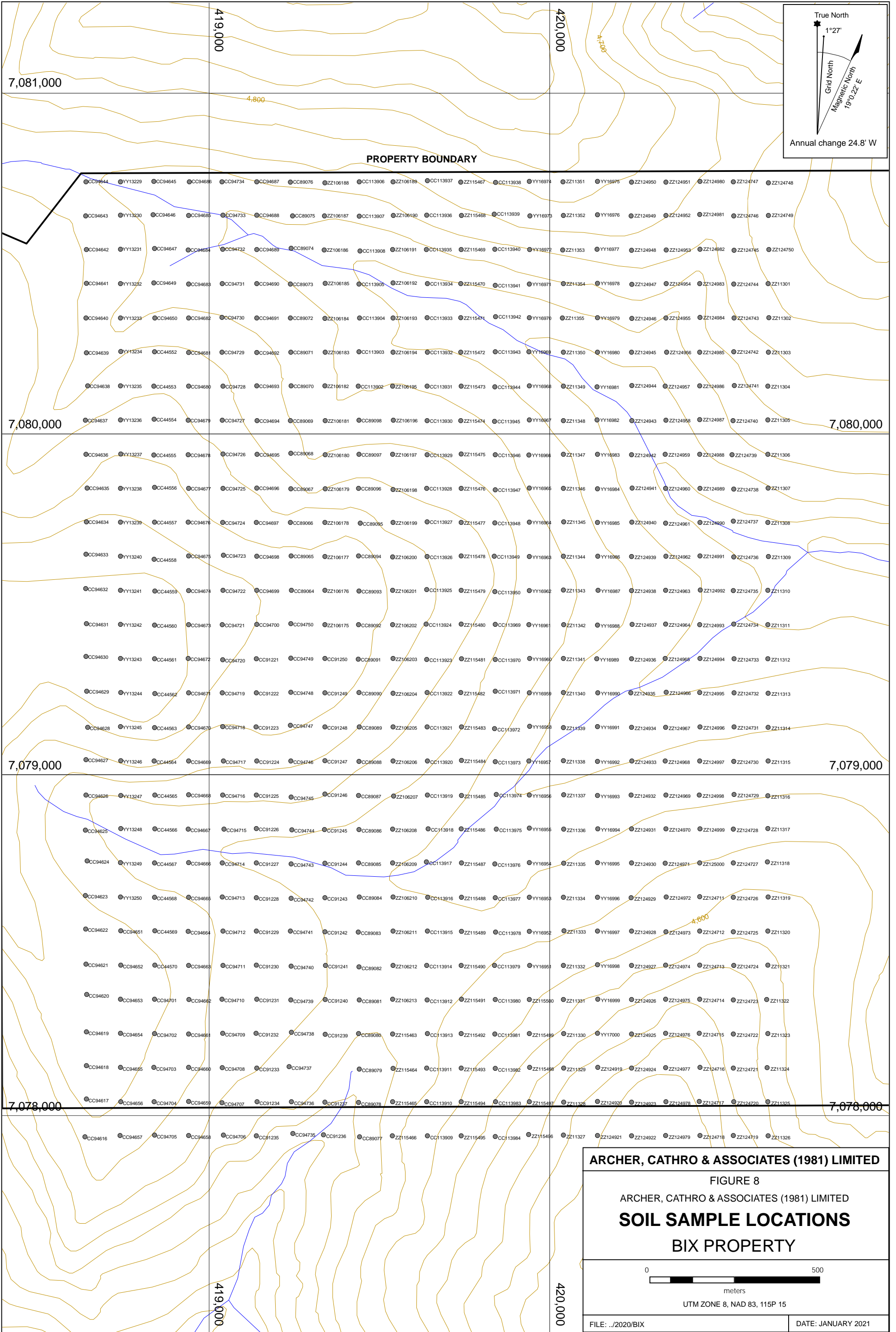
- 0.28% tin over 5' (1.53 m); and,
- 0.26% tin over 5' (1.53 m).

SOIL GEOCHEMISTRY

Before the 2020 field season, the only reported soil sampling on the property was ridge and spur sampling done by Goldstrike when it was exploring for intrusion-related gold (Koffyberg, 2012). Several samples from that program returned anomalous values of both gold and copper.

In 2020, Archer Cathro collected 609 grid soil samples covering just over half of the property. 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 driven into the ground. Soil samples were collected from 15 to 55 cm deep holes dug by hand-held auger and placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Global Ltd. (ALS) in Whitehorse, Yukon where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS in North Vancouver, British Columbia where they were analysed for 48 elements using a four-acid digestion, followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are provided in Appendix III.

The 2020 samples locations are shown on Figure 8, while thematic soil results for gold, silver, arsenic, copper, lead, tin, zinc and tungsten can be seen on Figures 9 to 16, respectively. Anomalous thresholds and peak values for soil results are listed in Table III below.



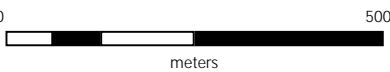
PROPERTY BOUNDARY

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

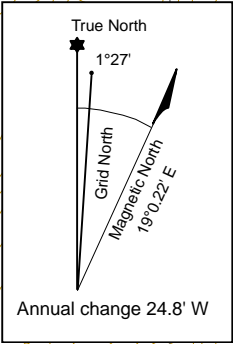
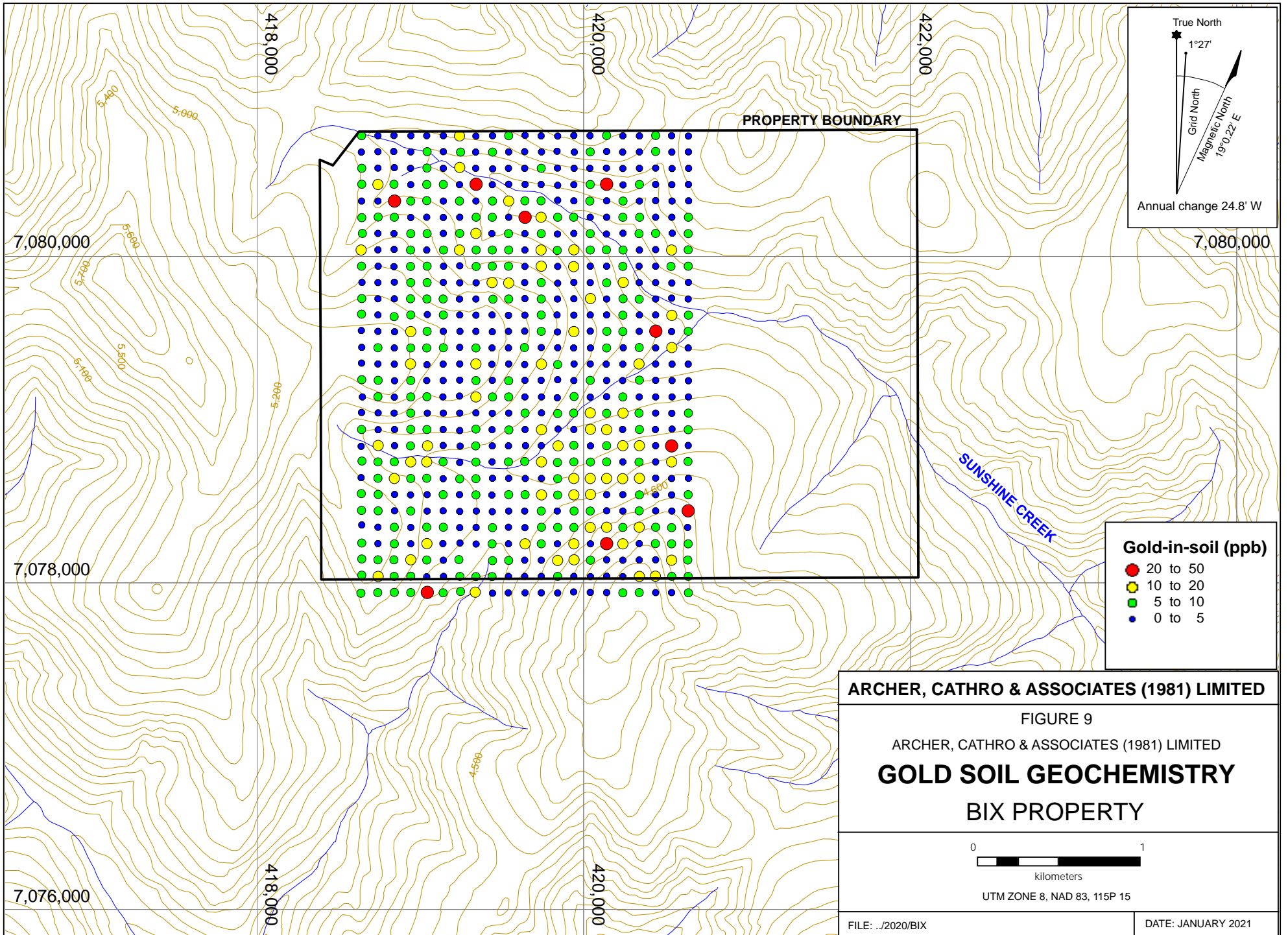
**SOIL SAMPLE LOCATIONS
 BIX PROPERTY**



UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX

DATE: JANUARY 2021



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 9

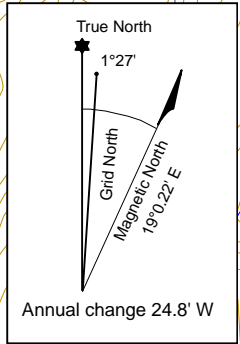
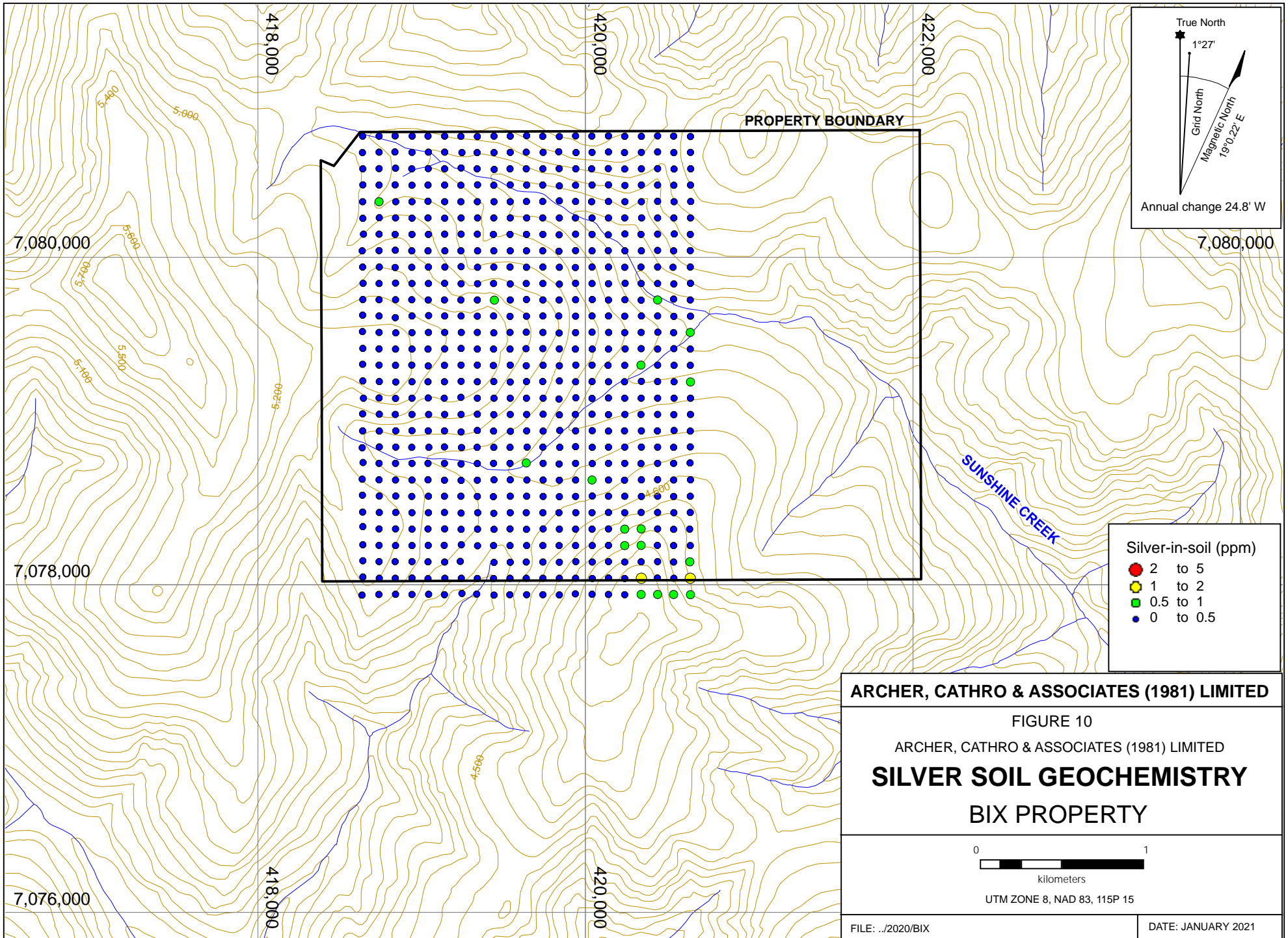
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL GEOCHEMISTRY

BIX PROPERTY

0 1
kilometers
UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX DATE: JANUARY 2021



Silver-in-soil (ppm)

- 2 to 5
- 1 to 2
- 0.5 to 1
- 0 to 0.5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 10

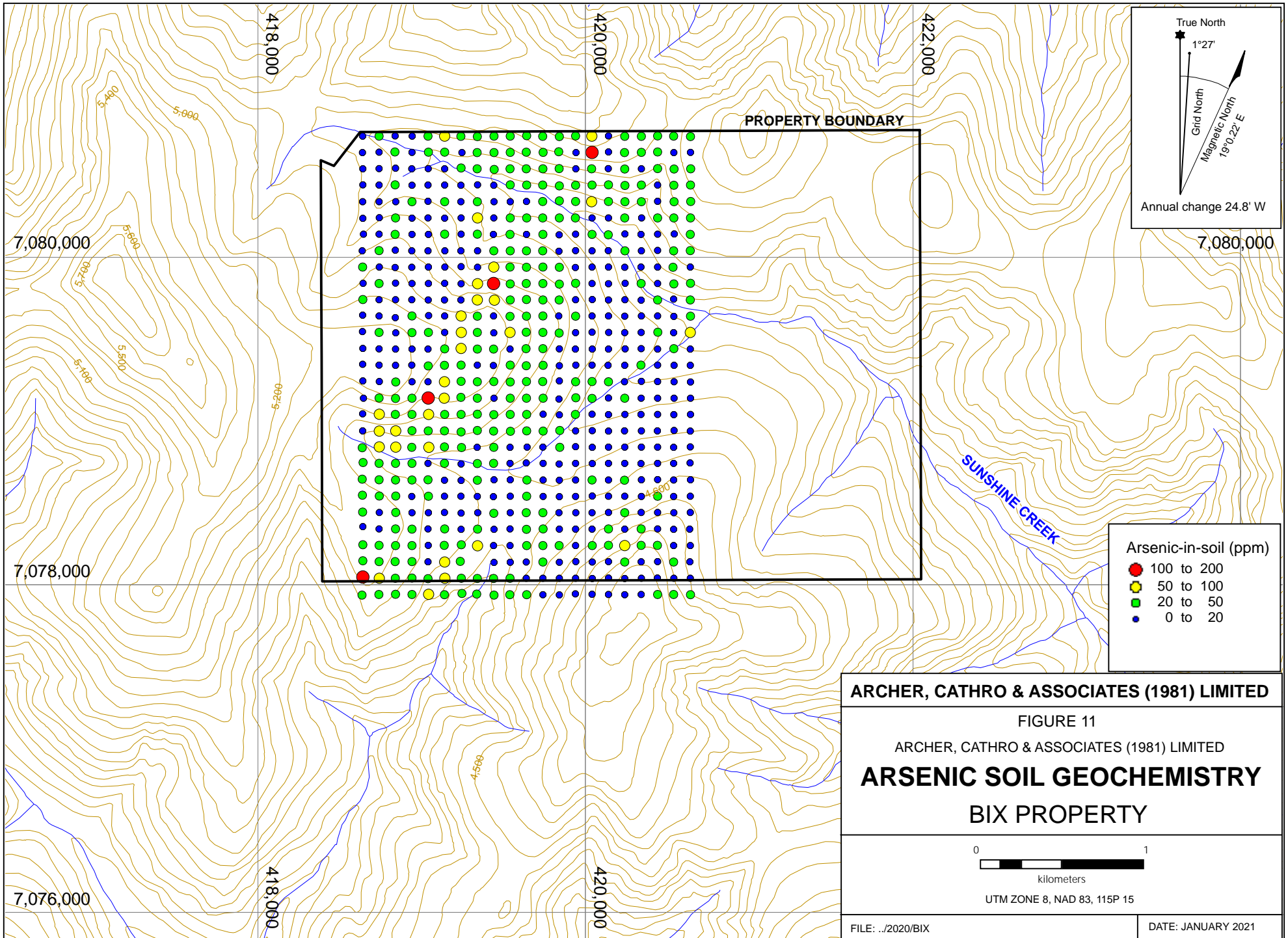
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

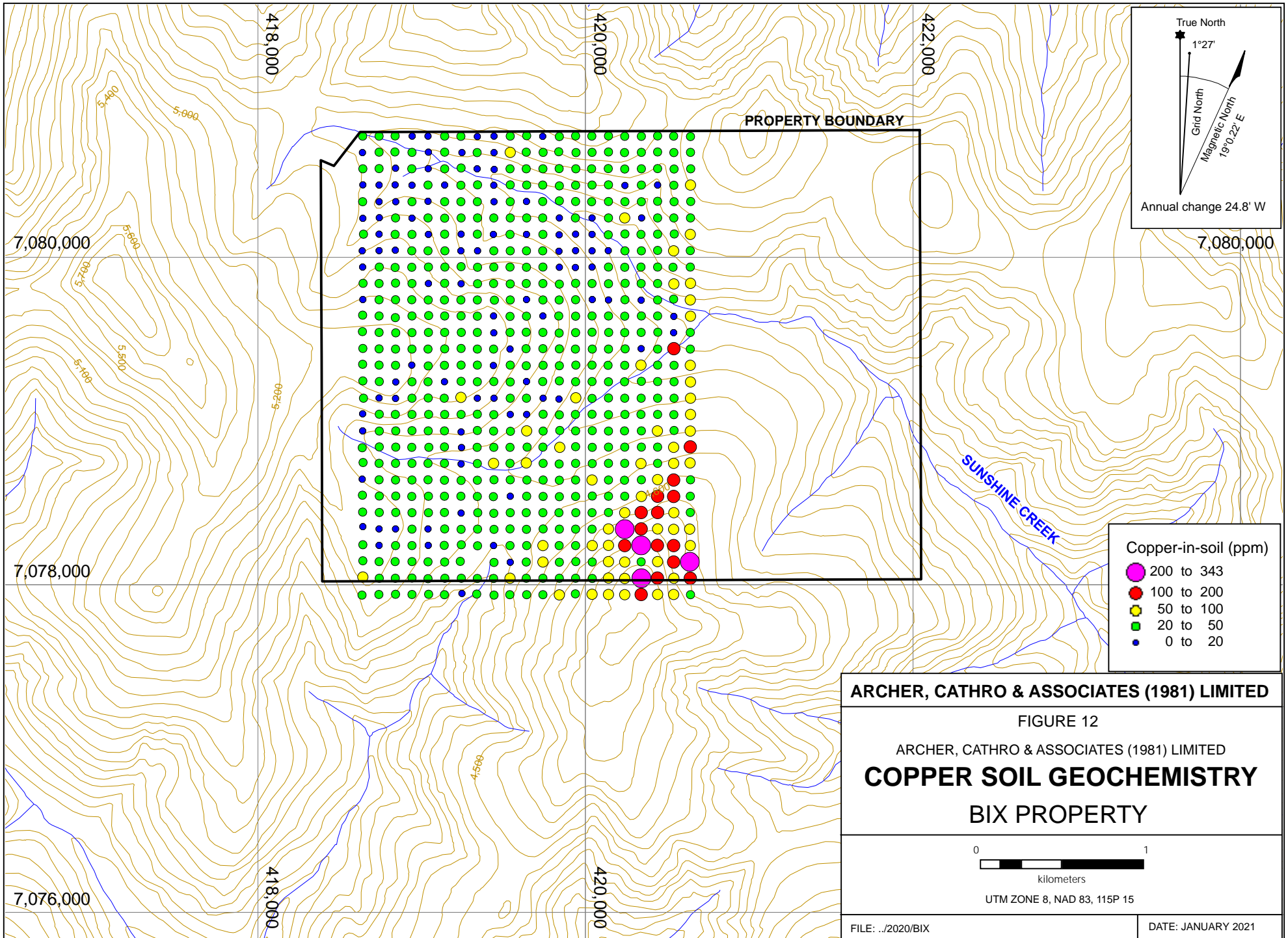
SILVER SOIL GEOCHEMISTRY

BIX PROPERTY

0 1
kilometers
UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX DATE: JANUARY 2021





ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY
 BIX PROPERTY

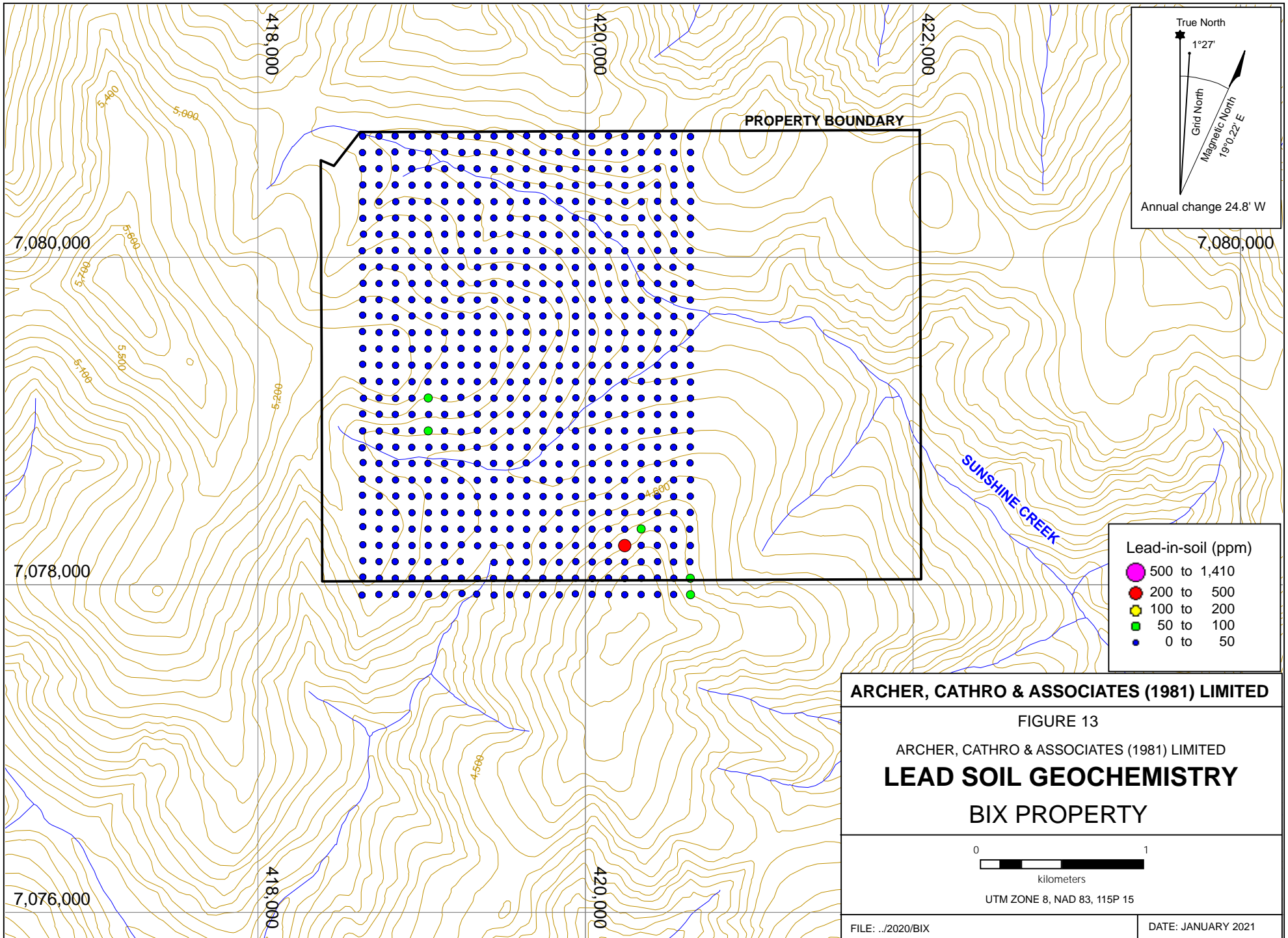


kilometers

UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX

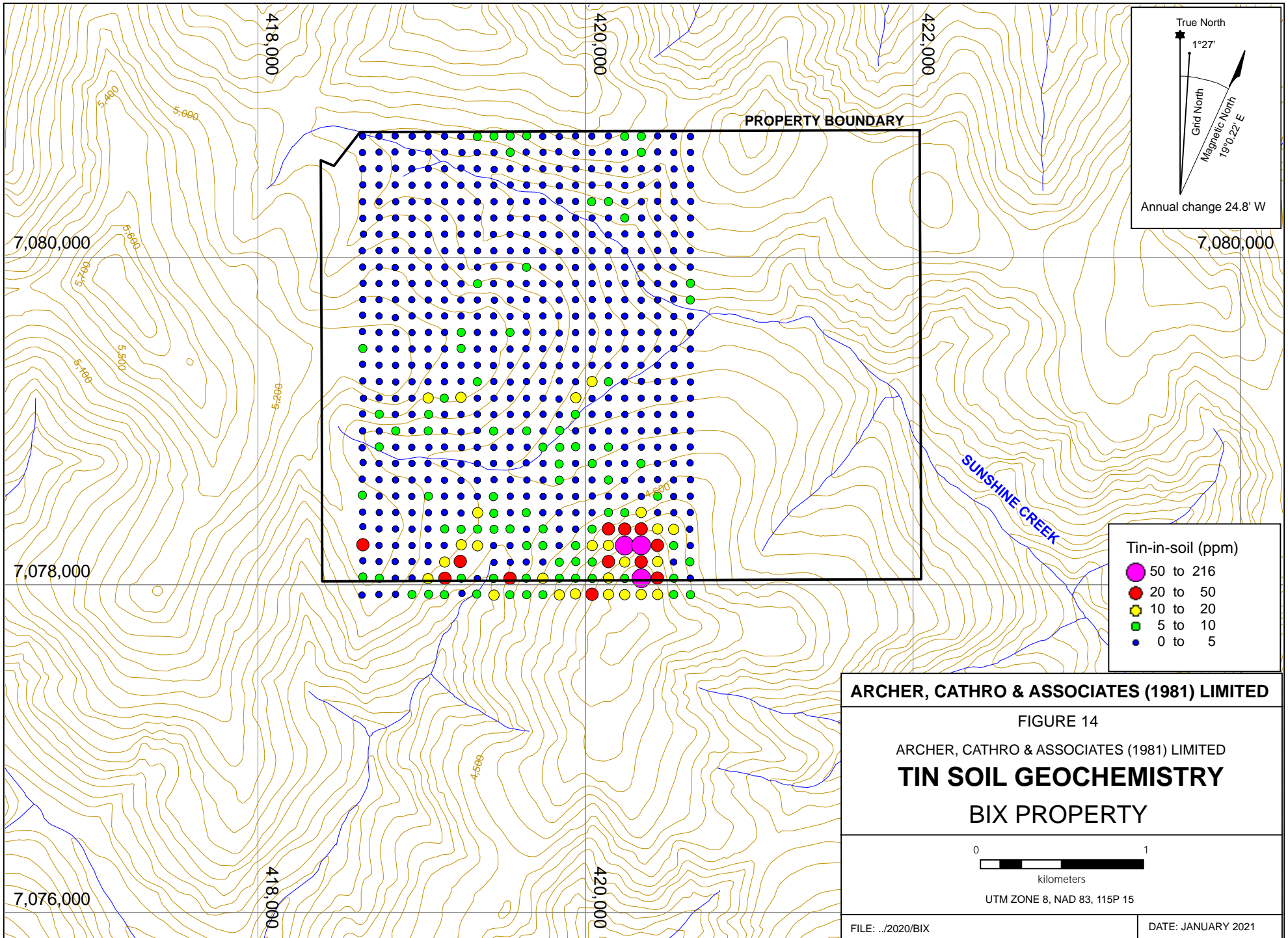
DATE: JANUARY 2021

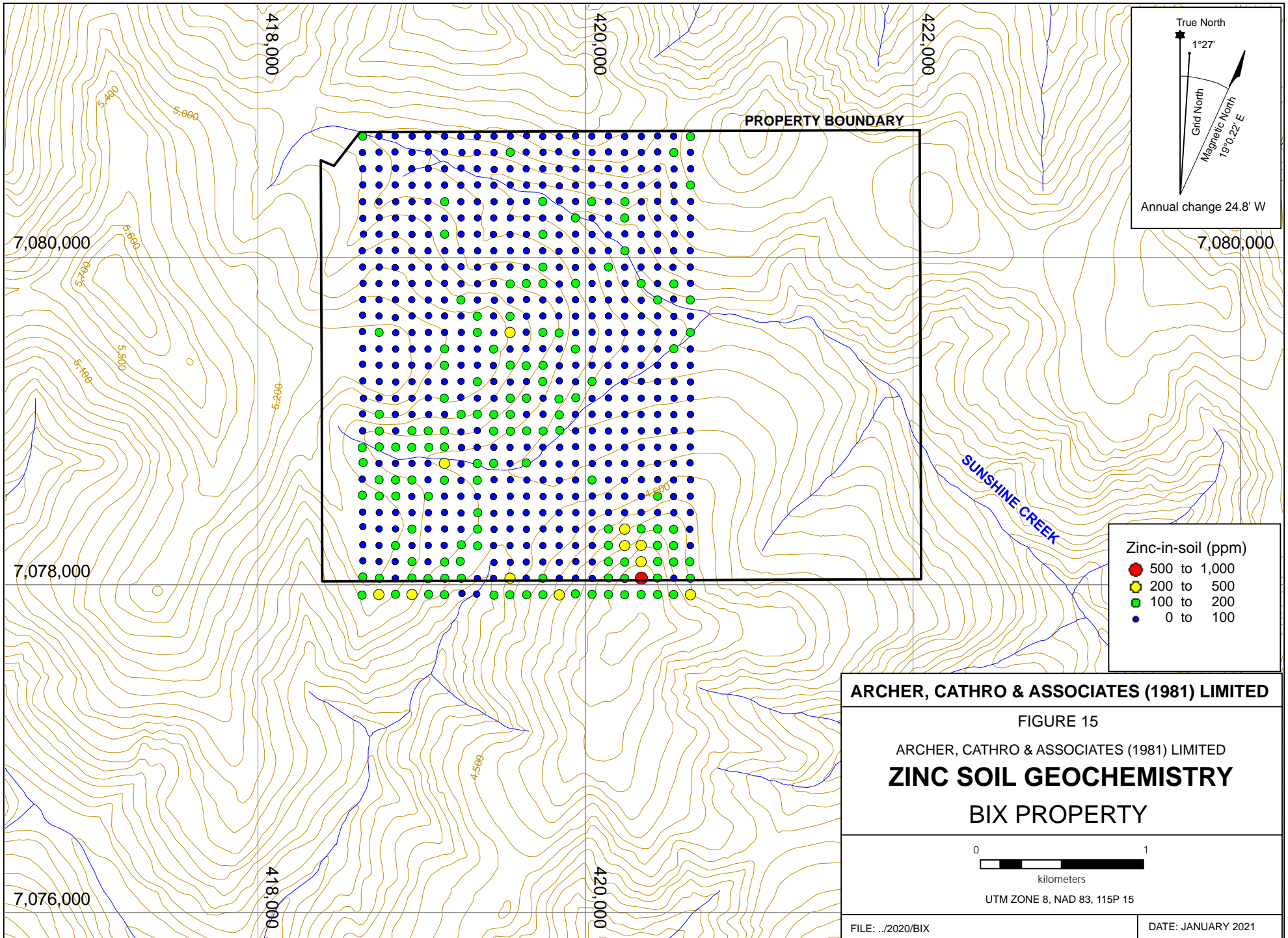


ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD SOIL GEOCHEMISTRY
BIX PROPERTY





ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC SOIL GEOCHEMISTRY

BIX PROPERTY

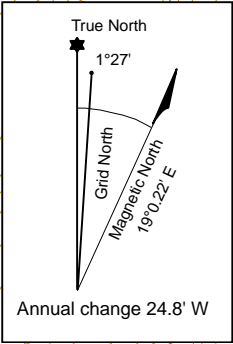
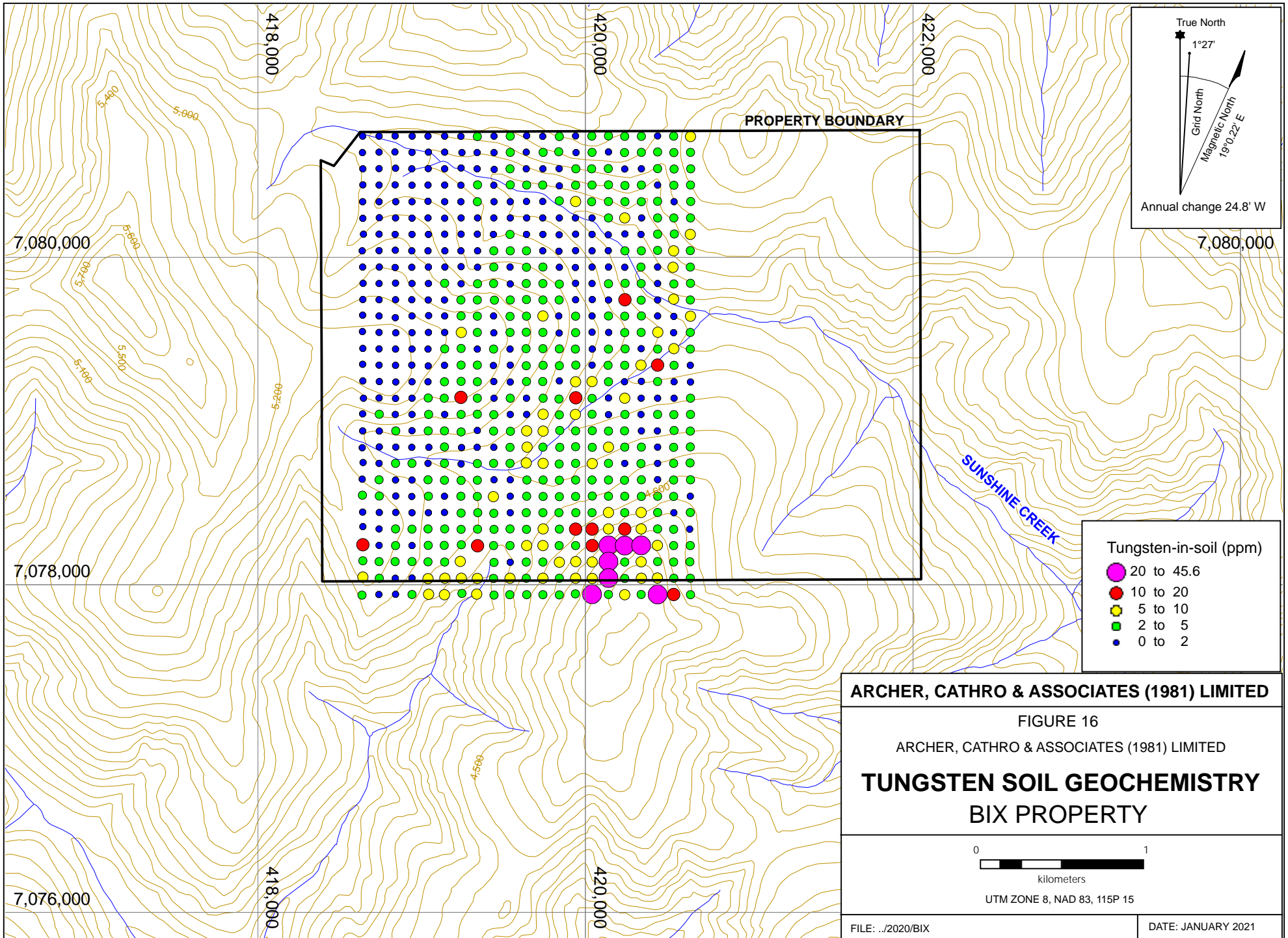


kilometers

UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX

DATE: JANUARY 2021



Tungsten-in-soil (ppm)	
●	20 to 45.6
●	10 to 20
●	5 to 10
●	2 to 5
●	0 to 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
TUNGSTEN SOIL GEOCHEMISTRY
BIX PROPERTY

0 1
kilometers
UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX DATE: JANUARY 2021

Table III – Anomalous Threshold Values for Soil Samples

Element	Weak	Moderate	Strong	2020 Peak
Gold (ppb)	$> 5 \leq 10$	$> 10 \leq 20$	$> 20 \leq 50$	50
Silver (ppm)	$> 0.5 \leq 1$	$> 1 \leq 2$	$> 2 \leq 5$	5
Arsenic (ppm)	$> 20 \leq 50$	$> 50 \leq 100$	$> 100 \leq 200$	200
Copper (ppm)	$> 20 \leq 50$	$> 50 \leq 100$	$> 100 \leq 343$	343
Lead (ppm)	$> 50 \leq 100$	$> 100 \leq 200$	$> 200 \leq 216$	216
Tin (ppm)	$> 10 \leq 20$	$> 20 \leq 50$	$> 50 \leq 216$	216
Zinc (ppm)	$> 100 \leq 200$	$> 200 \leq 500$	$< 500 \leq 1000$	1000
Tungsten (ppm)	$> 5 \leq 10$	$> 10 \leq 20$	$< 20 \leq 45.6$	45.6

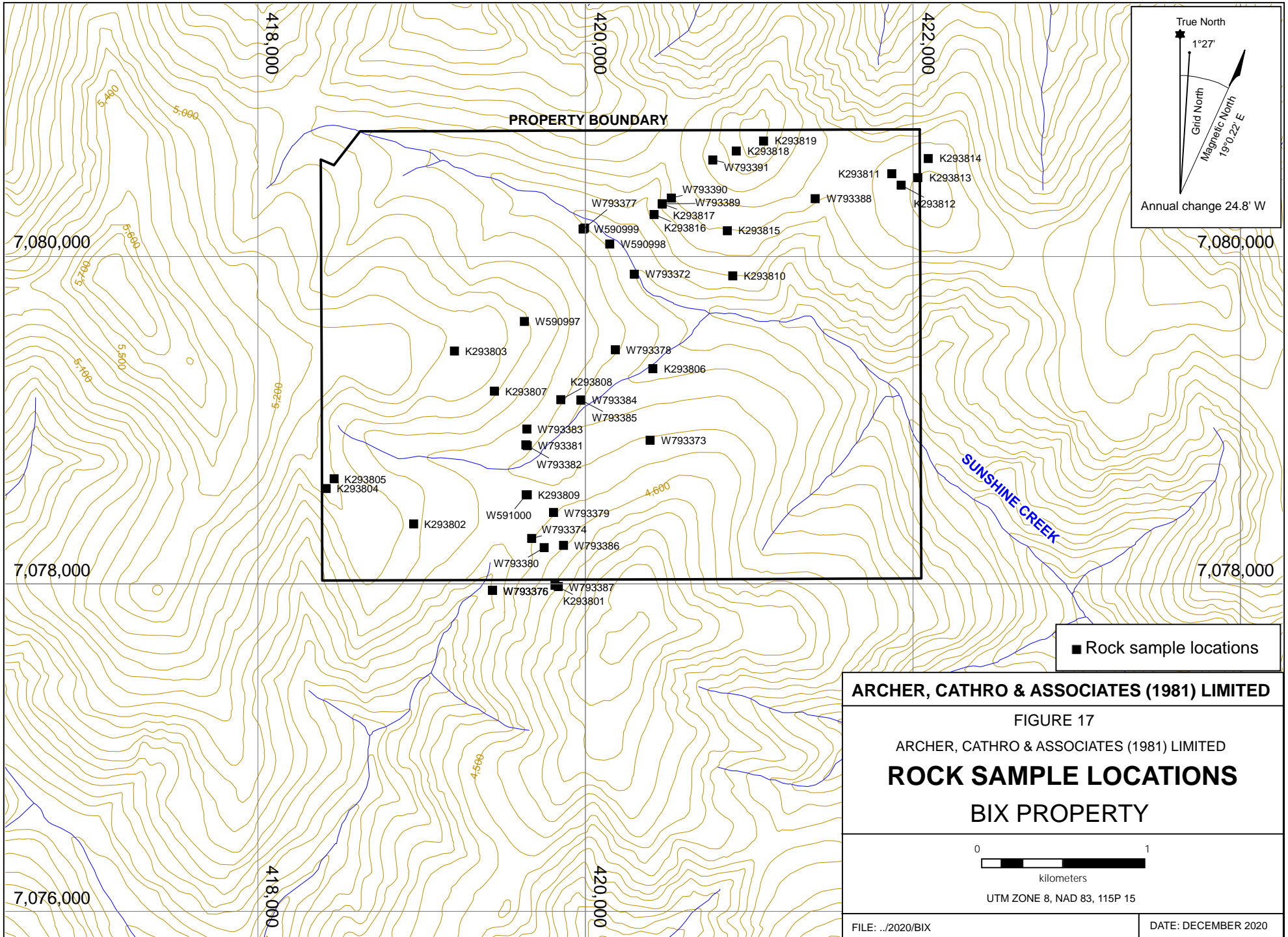
The soil geochemical survey identified a multi-element anomaly in the southern portion of the property that includes tin, copper and tungsten. Strong values of all these elements are found on a north facing slope that is underlain by hornfelsed Yusezyu Formation at the contact with the Sunshine Creek stock. The anomaly is open to extension to the south, off the property. Sporadic anomalous gold values are found throughout the soil grid. There is very little correlation between gold and other elements, including arsenic. Anomalous arsenic values follow a northwest trend that appears to overlap with the main breccia in Zone A (Figure 11).

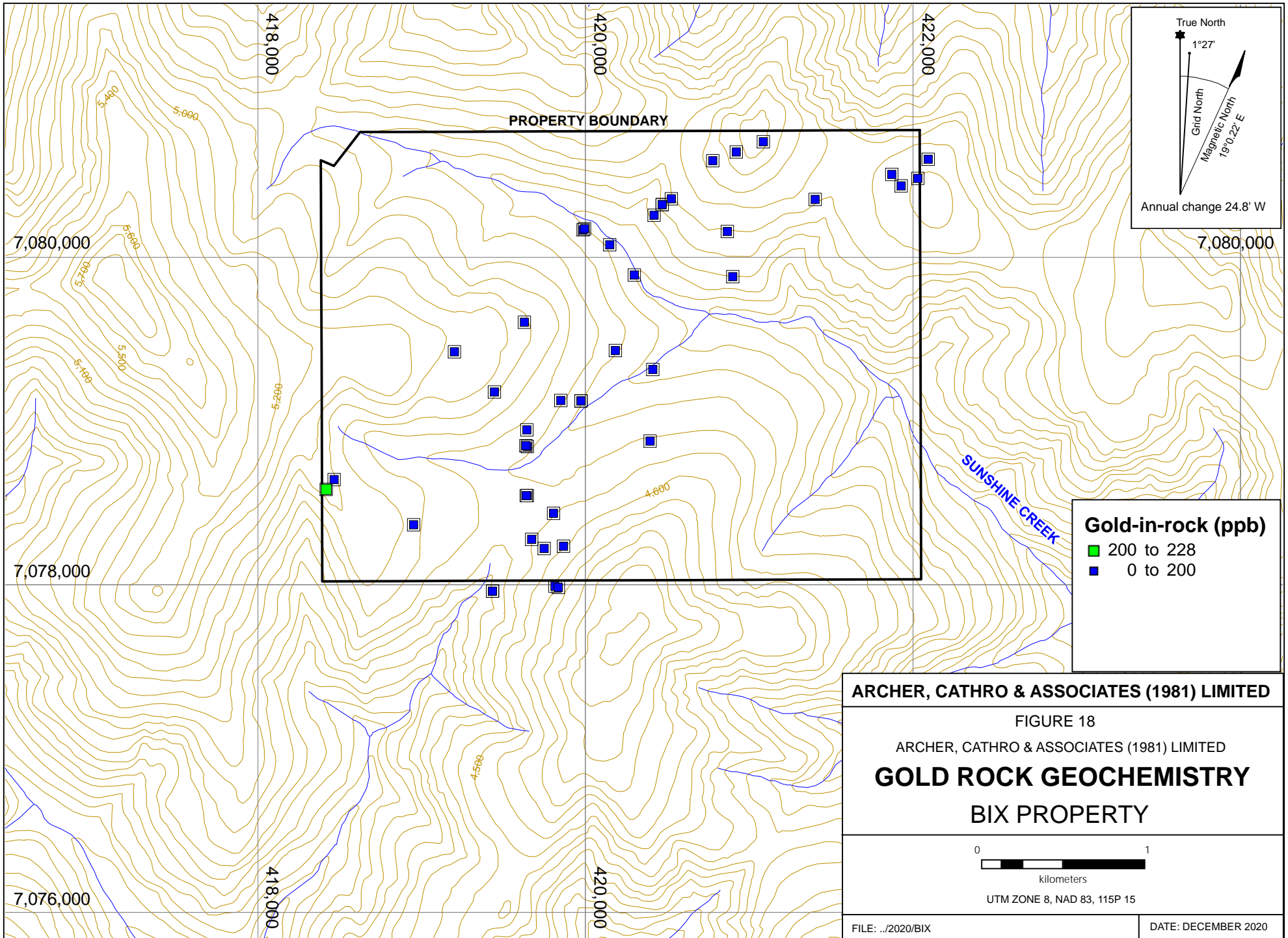
ROCK GEOCHEMISTRY

In 2020, a total of 42 rock samples were collected for analysis with sample locations shown on Figure 17. Values for gold, silver, arsenic, bismuth, copper, lead, zinc, tungsten and tin are illustrated thematically on Figures 18 to 26, respectively. Rock Sample Descriptions are provided in Appendix IV, and Certificates of Analysis are provided in Appendix III.

The 2020 rock 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 in Whitehorse, YT 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 35 elements using aqua-regia acid digestion followed by inductively coupled plasma (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Additional analysis for tin using a lithium borate fusion and ICP-MS finish (ME-MS85). Samples with overlimit values were further analyzed using a lithium borate 50:50 flux and XRF Spectroscopy for tin (Sn-XRF10).

In 2020, rock samples were collected mainly from the central portion of the property with a few from the south and northeast (Figure 16). The prospecting returned noteworthy results including several samples above 0.1% tin with a high value of 14.9% tin (Figure 25). The 14.9% sample was collected from a roughly 8 m wide by 15 m long topographic depression near the contact between the Sunshine Creek stock and the hornfelsed country rock. The sample is described as float of brownish, grey, green weathered, fine-grained, strongly altered schist that is cut by white





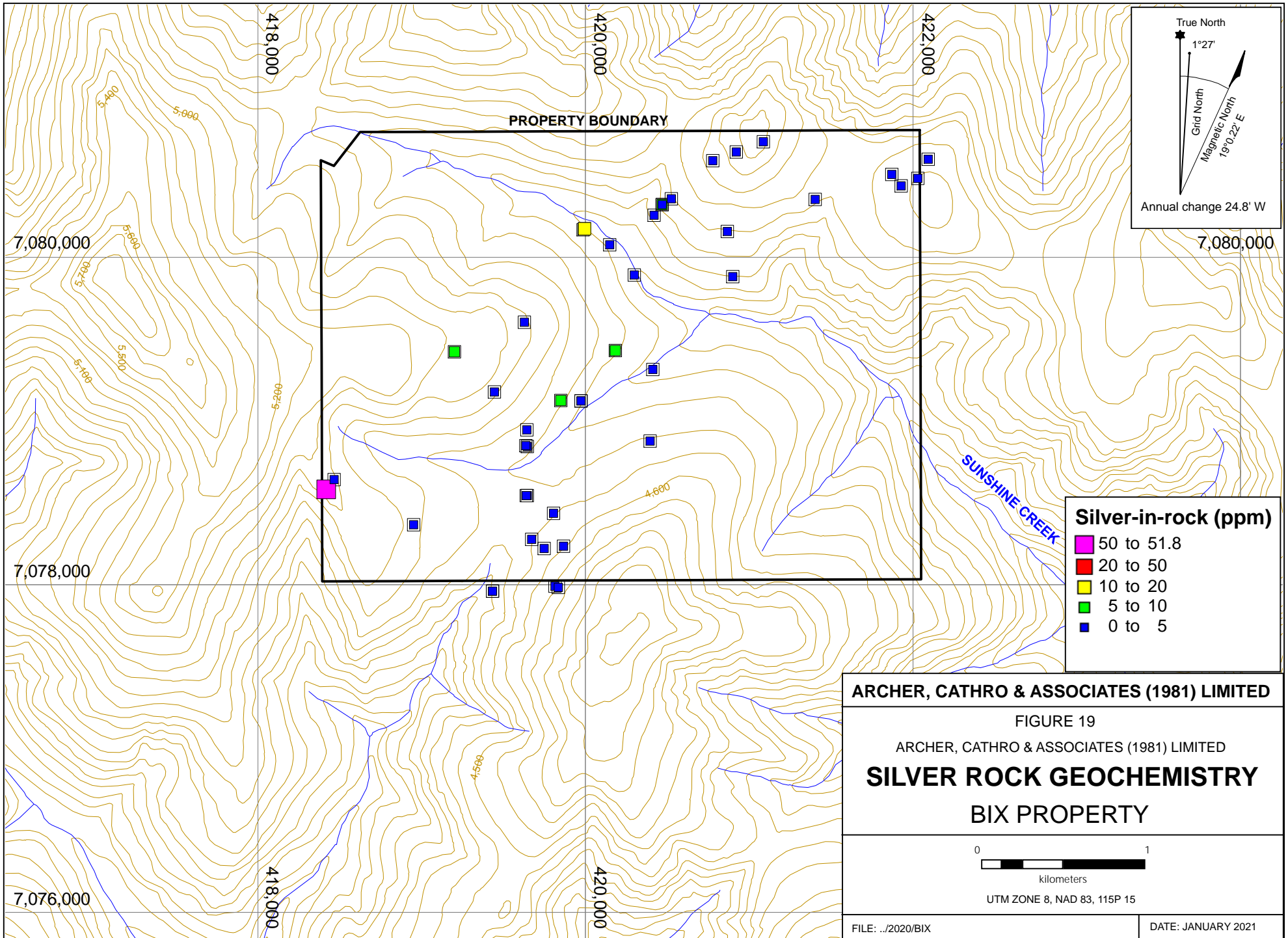
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD ROCK GEOCHEMISTRY

BIX PROPERTY



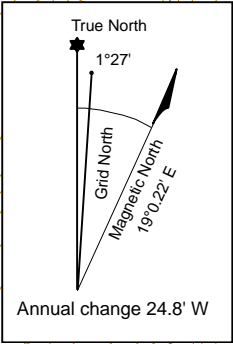
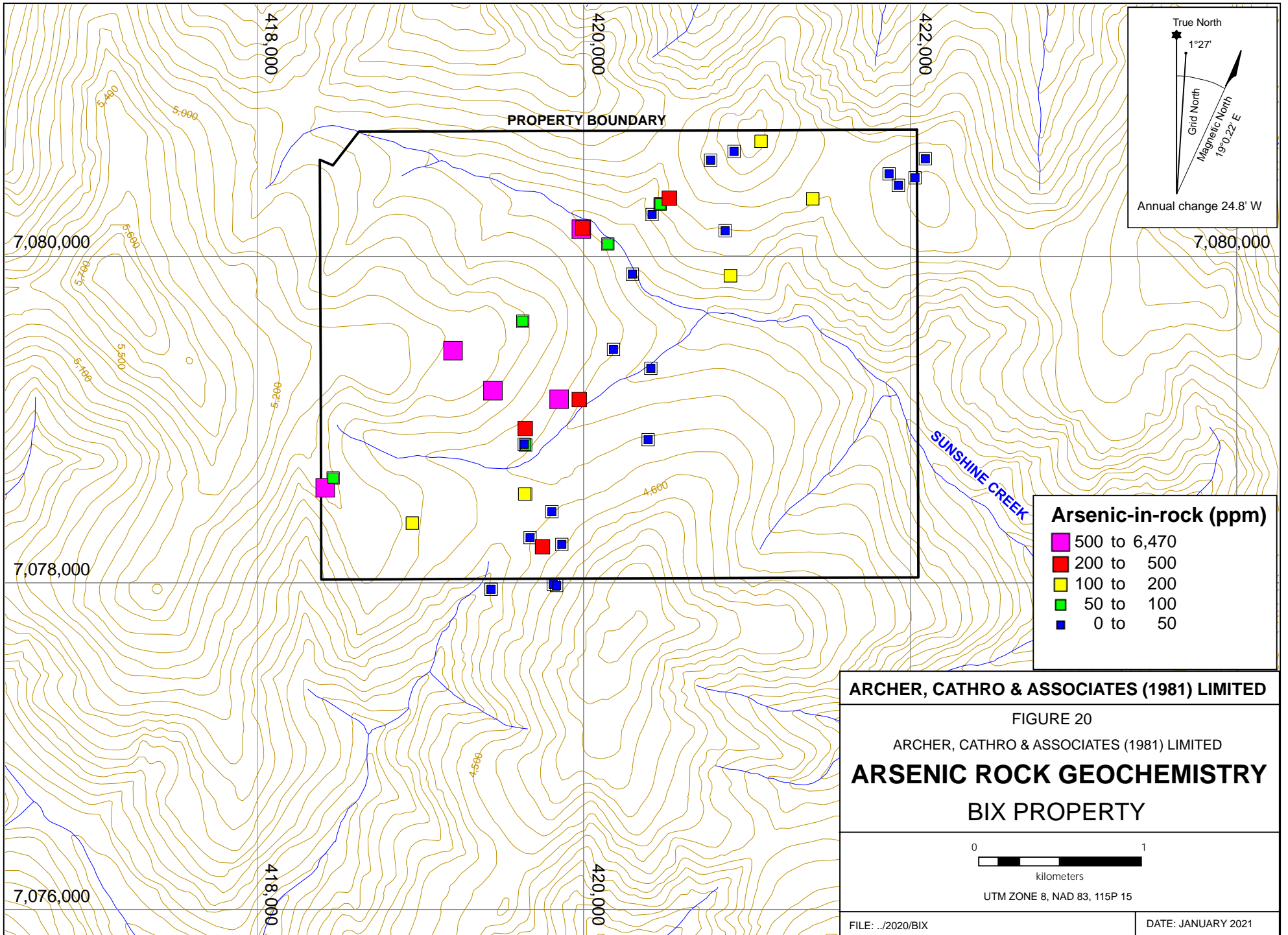
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 19

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER ROCK GEOCHEMISTRY

BIX PROPERTY



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 20

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC ROCK GEOCHEMISTRY

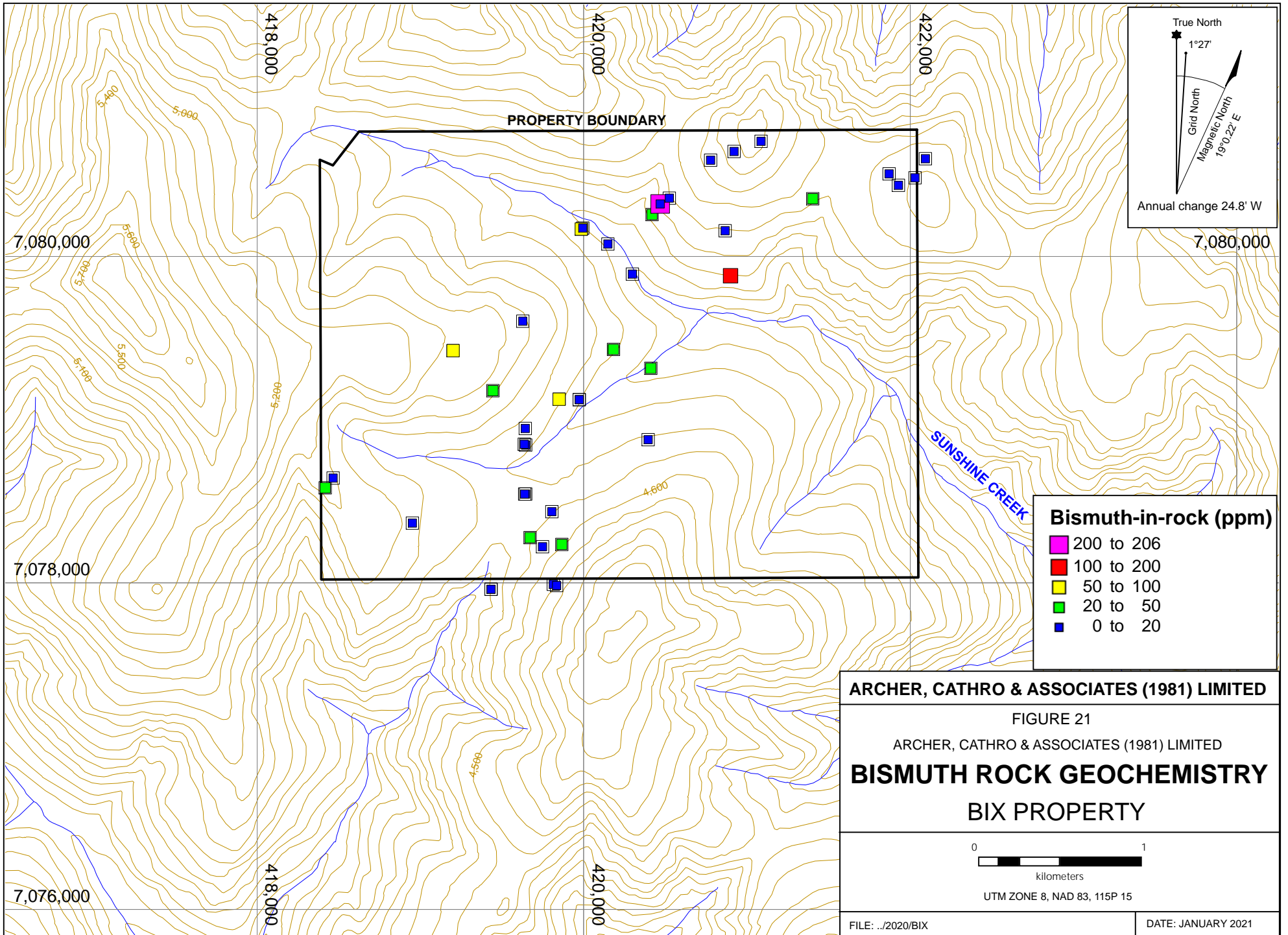
BIX PROPERTY



UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX

DATE: JANUARY 2021



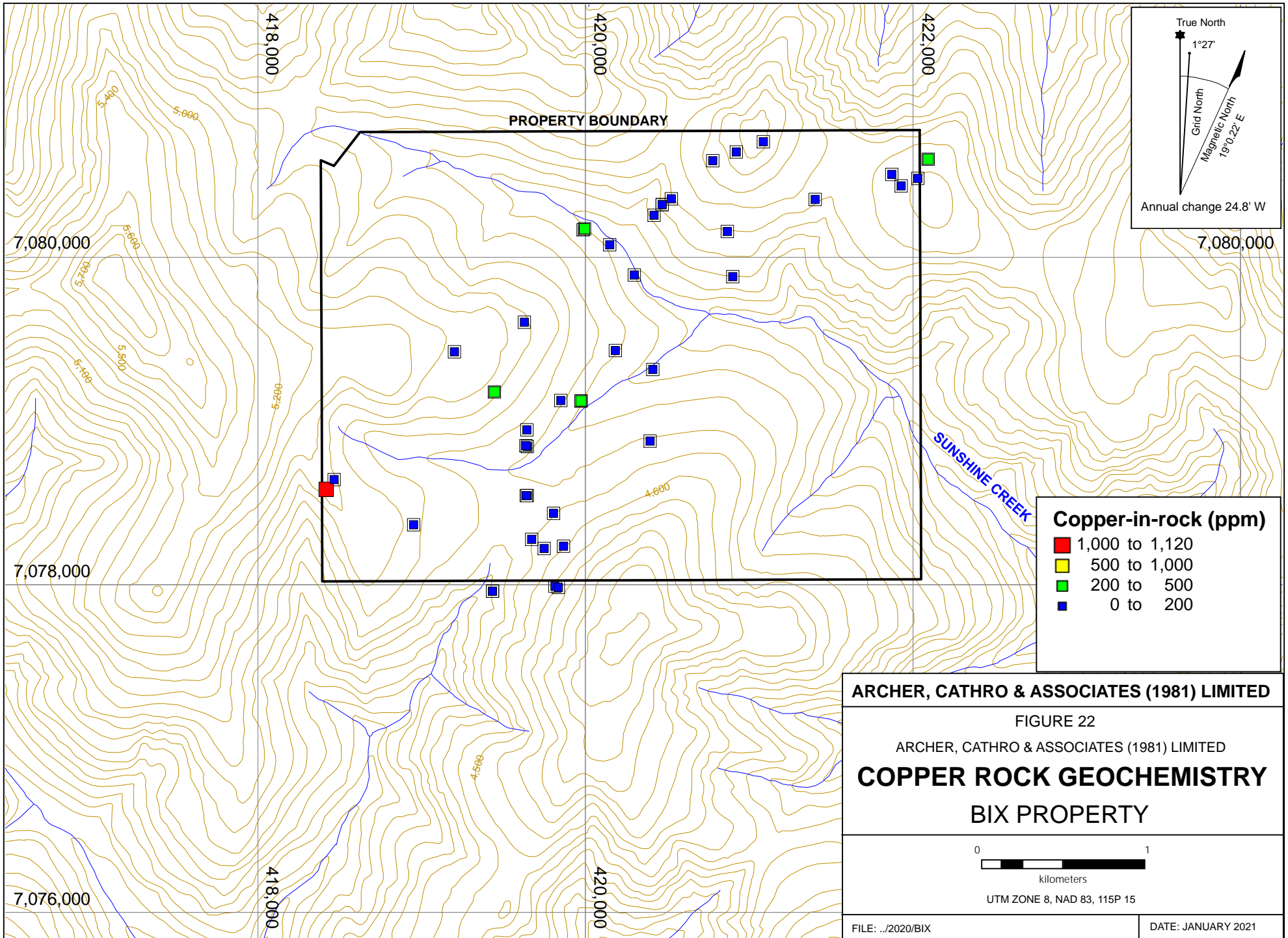
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

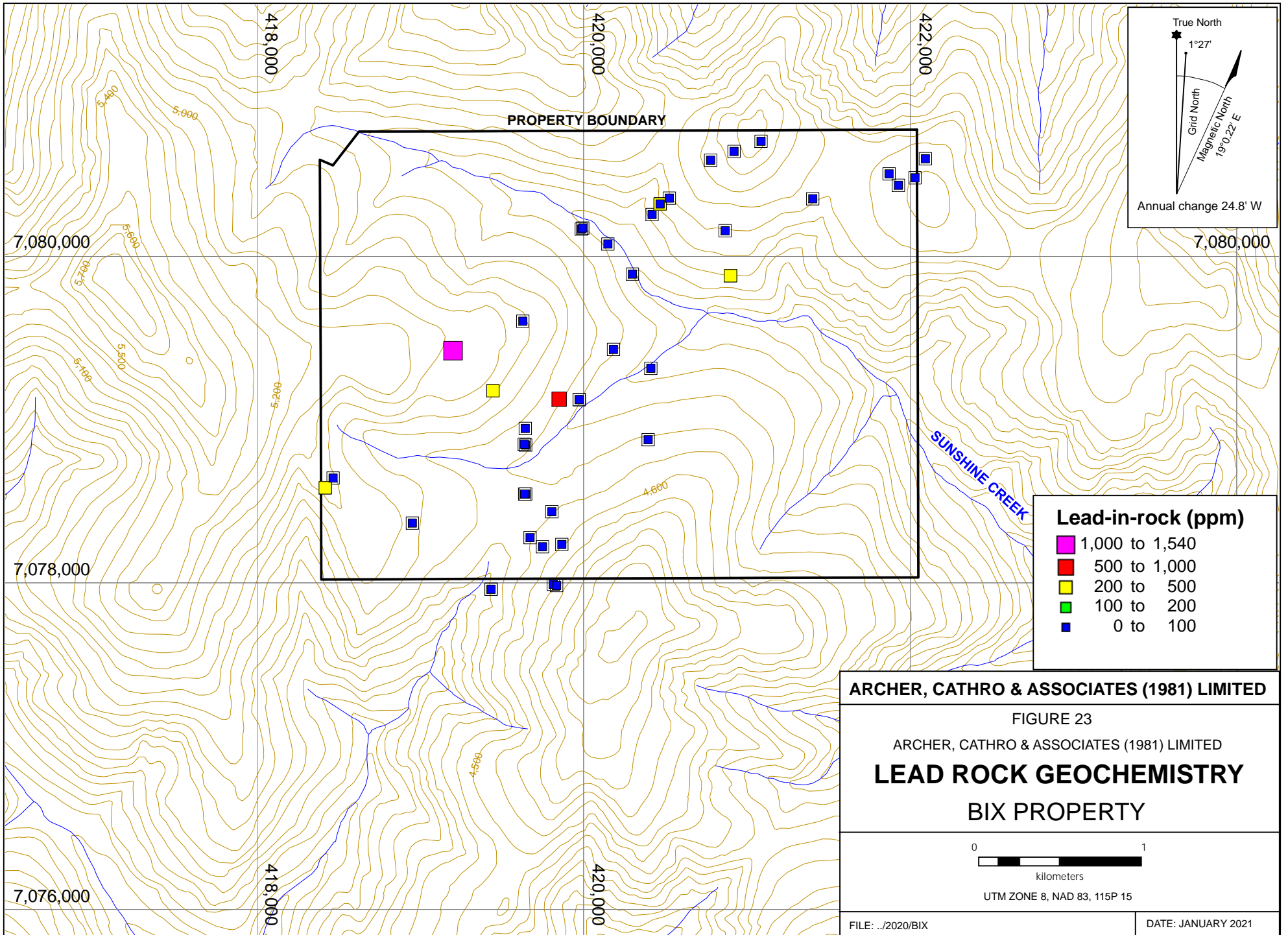
FIGURE 21

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

BISMUTH ROCK GEOCHEMISTRY

BIX PROPERTY





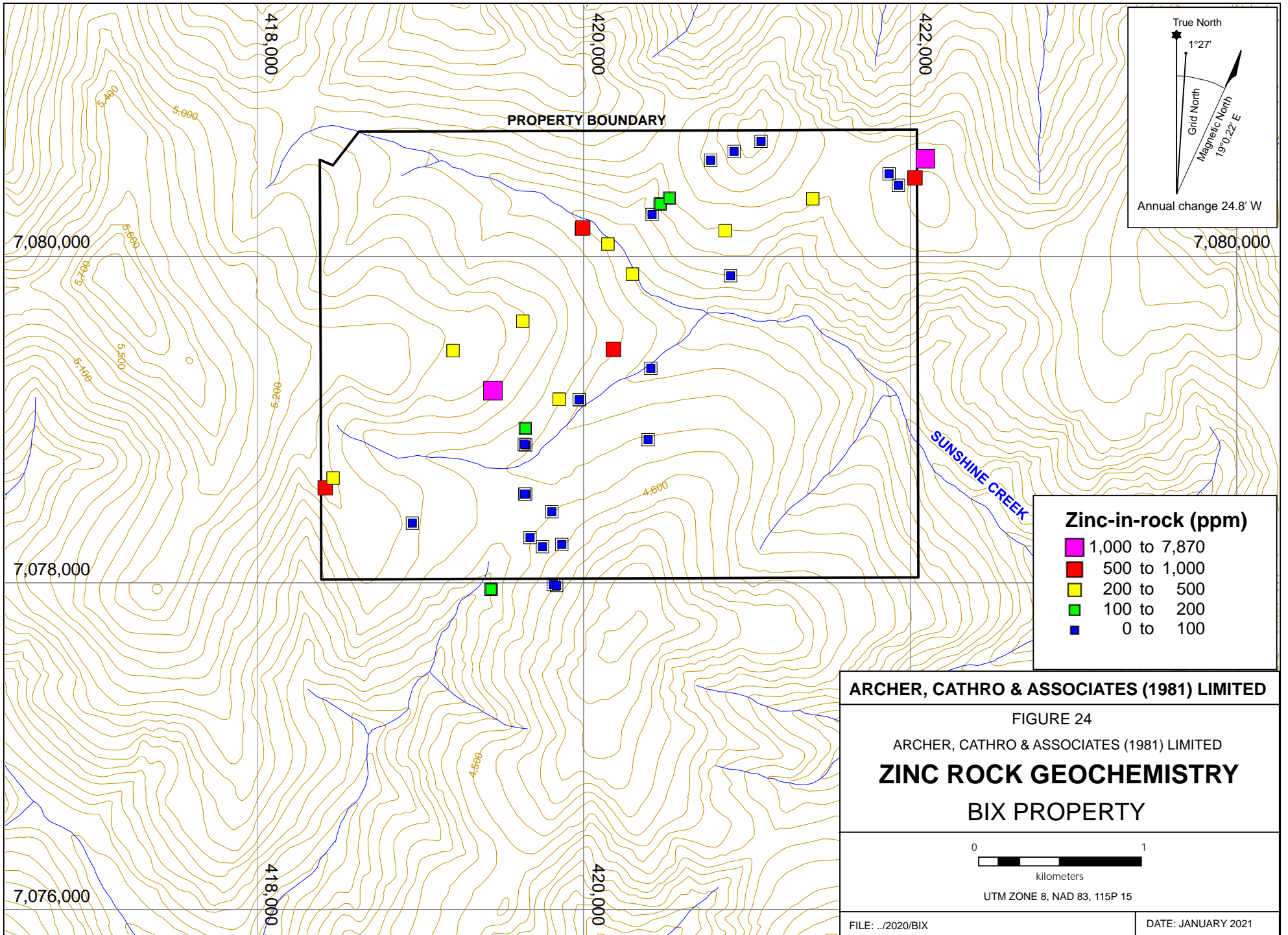
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 23

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD ROCK GEOCHEMISTRY

BIX PROPERTY



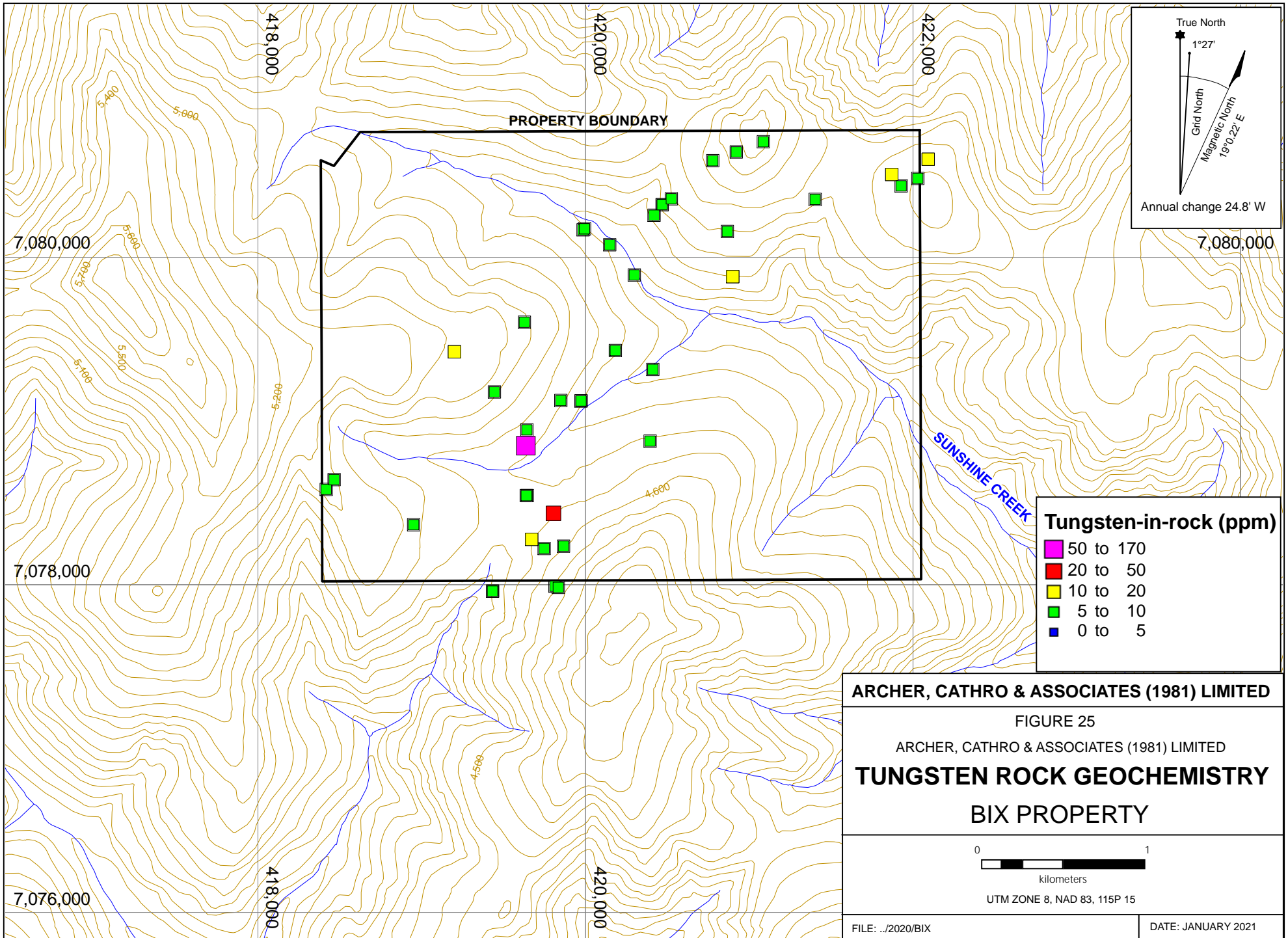
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 24

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC ROCK GEOCHEMISTRY

BIX PROPERTY



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

FIGURE 25

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TUNGSTEN ROCK GEOCHEMISTRY

BIX PROPERTY

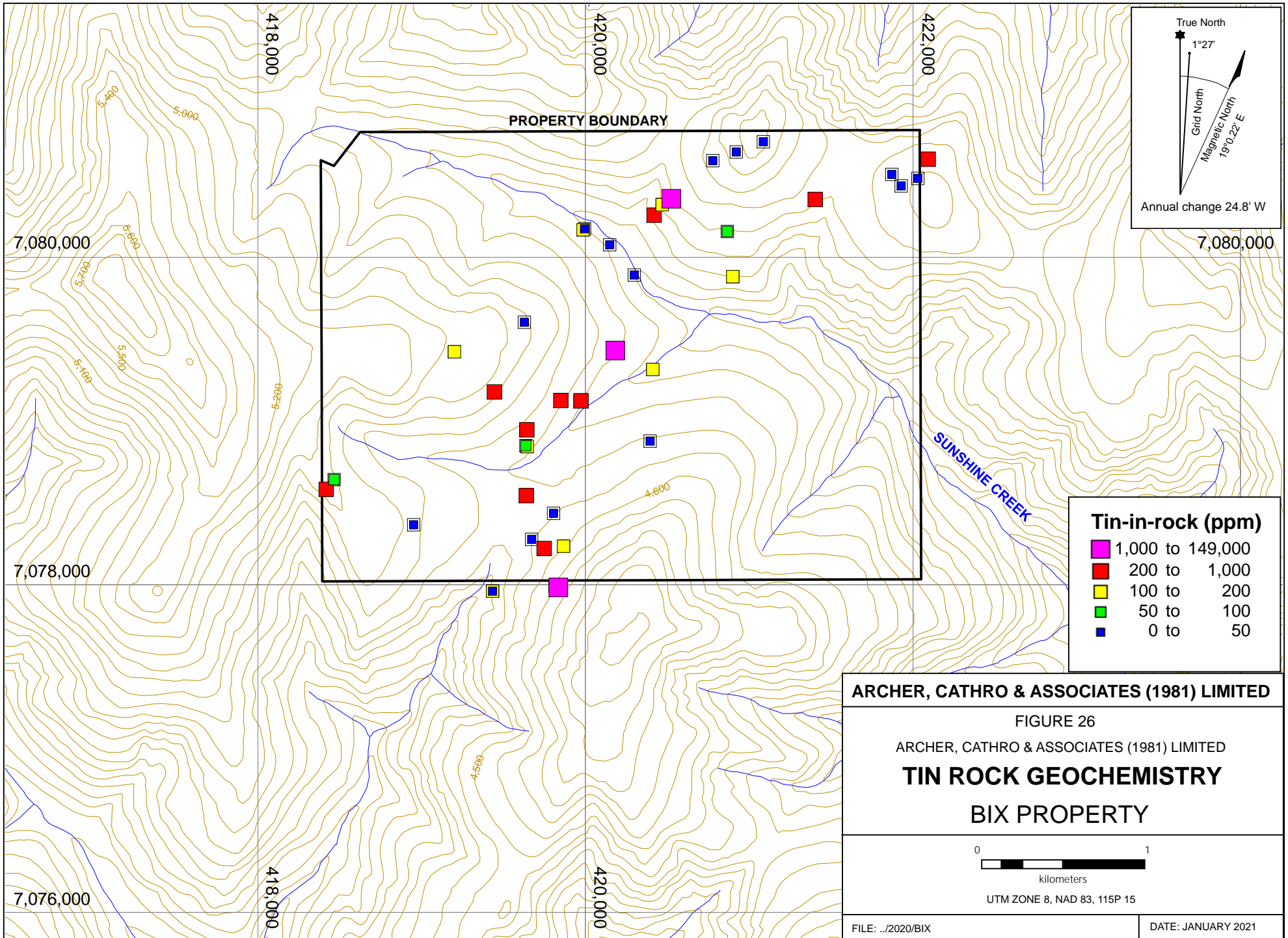


kilometers

UTM ZONE 8, NAD 83, 115P 15

FILE: ../2020/BIX

DATE: JANUARY 2021



to light pink quartz veins up to 1 cm wide. It is possible that the depression is a breccia zone similar to those observed in Zones A and B.

Numerous high values for arsenic were obtained from rocks throughout the property (Figure 20). Arsenic is not strongly correlated with other elements, but one sample that was collected along the western edge of the property returned high arsenic with strong values of silver (51.9 g/t) and copper (0.11%) plus moderate values of zinc (511 ppm), tin (314 ppm) gold (0.228 ppm).

DISCUSSION AND CONCLUSIONS

The Bix property hosts lightly explored tin breccia and skarn occurrences and promising tin, copper, gold and tungsten soil anomalies. The strength of the multi-element soil geochemical anomaly at the southern edge of the property and the extremely high tin value of 14.9% in rock not far away suggest that there is potential for a well-mineralized intrusion-related system and that system likely extends off the property. Sporadic gold values in soil samples were generally located in areas that were not prospected and rock samples were not collected at any of the anomalous soil sites. It may be possible that a gold-rich intrusion-related system similar to Dublin Gulch (Victoria Gold's Eagle deposit) exists under glacial overburden somewhere on the property.

The promising results obtained from prospecting and soil geochemical surveys on the Bix property definitely warrant follow up work, including:

- 1) staking additional claims;
- 2) drone or LiDAR imagery
- 3) geological mapping;
- 4) additional soil sampling;
- 5) ground-based magnetic and induced polarization geophysical surveying;
- 6) hand trenching; and
- 7) RAB, RC or diamond drilling.

Claim staking should take place as soon as possible in order to cover possible extensions of the multi-element soil geochemical anomaly in the southern portion of the property. At least two more rows of claims should be added (16 additional claims).

Drone imagery or LiDAR data acquisition should be flown over the entire property in order to identify subtle topographic features that may be associated with mineralized breccias and faults.

Detailed property-scale **geological mapping** with a focus on collecting structural measurements should be done, preferably after the drone images and/or Lidar data has been acquired. The mapping should test the hypothesis that the area is a large antiform cored by the Sunshine Creek stock. All faults and breccias should be accurately measured and a structural analysis of mineralized structures should be completed. Geological mapping is also required to determine the potential for additional breccia and skarn mineralization.

Soil sampling should be completed over the entirety of the property, especially in the south on the newly staked claims in order to expand the multi-element anomaly. The sampling should be done after mid-summer when seasonal frost is out of the soil. Interpretation of soil geochemical results has provided valuable insight regarding metal zoning and deposit types that can be expected on the property.

Hand trenching should be carried out across the newly discovered linear depression where the 14.9% tin sample was collected. This will help identify the style of mineralization this sample is associated with, and determine the width, grade and orientation of the mineralized in bedrock.

Magnetic and induced polarization geophysical surveying should be done over as much of the property as possible to help delineate mineralization, alteration, structures and the extent of the Sunshine Creek stock.

If results from the above mentioned work are favourable, **RAB, RC or diamond drilling** will be required to fully assess the targets.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



Heather Burrell, P.Geol.

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Yukon Geological Survey

2020 <https://mapservices.gov.yk.ca/GeoYukon/>

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

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



H. Burrell, B.Sc., P.Geo.

APPENDIX II
STATEMENT OF EXPENDITURES



**Statement of Expenditures
Bix Property**

Labour					
Employee	Job Discription	Hours	Time Period	Rate/Hr	Total
Ed Lepp	Expeditor	4	August 2020 - December 2020	\$ 75.00	\$ 300.00
Heather Burrell	Project oversight, geo, report writing	59	August 2020 - December 2020	\$ 115.00	\$ 6,785.00
Kieran Mcclenahan	Soil sampler, prospecting, labour	88	August 2020 - December 2020	\$ 54.00	\$ 4,752.00
Melissa Friend	Review rocks for sample submission, geo	20	August 2020 - December 2020	\$ 80.00	\$ 1,600.00
Sarah Shoniker	Soil sampler, prospecting, geo	104	August 2020 - December 2020	\$ 64.00	\$ 6,656.00
Scott Newman	Maps, report prep	25	August 2020 - December 2020	\$ 74.00	\$ 1,850.00
					<u>\$ 21,943.00</u>

Expenses

Fireweed Helicopters, as attached	\$ 5,778.00
ALS Minerals, as attached - 587 Soil, 38 Rock	<u>\$ 21,296.73</u>
	<u>\$ 27,074.73</u>

Total eligible expenditures submitted \$ 49,017.73



Elizabeth Smith
January 18, 2021

APPENDIX III
CERTIFICATES OF ANALYSIS



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

To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 1
 Total # Pages: 10 (A - D)
 Plus Appendix Pages
 Finalized Date: 18-OCT-2020
 Account: F

CERTIFICATE WH20190238

Project: BIX

This report is for 328 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31-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
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish 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



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Page: 2 - A
 Total # Pages: 10 (A - D)
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 Finalized Date: 18-OCT-2020
 Account: F

Project: BIX

CERTIFICATE OF ANALYSIS WH20190238

Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY13229		0.39	0.003	0.23	6.20	25.5	770	1.49	0.36	0.53	0.27	89.5	11.6	70	8.22	23.3
YY13230		0.45	0.004	0.09	5.79	13.7	830	1.27	0.26	0.80	0.26	77.1	8.2	68	4.10	21.2
YY13231		0.48	0.003	0.19	6.24	16.6	920	1.38	0.26	0.70	0.39	76.6	11.0	65	6.52	28.6
YY13232		0.46	0.010	0.07	5.36	19.1	750	1.17	0.26	0.68	0.30	65.4	11.8	63	3.48	19.9
YY13233		0.54	0.003	0.75	5.00	11.2	730	1.04	0.25	0.71	0.46	64.4	5.6	59	10.65	11.7
YY13234		0.43	0.008	0.17	5.25	17.5	780	1.07	0.24	0.74	0.17	62.5	9.4	67	2.78	16.5
YY13235		0.44	0.002	0.10	5.01	18.4	790	1.14	0.22	0.81	0.27	64.3	9.6	62	2.61	17.6
YY13236		0.50	0.003	0.22	6.32	21.7	860	1.40	0.38	0.58	0.17	76.6	6.4	69	5.04	19.9
YY13237		0.50	0.001	0.12	5.71	17.1	790	1.35	0.30	0.58	0.22	79.3	7.4	64	4.41	22.1
YY13238		0.51	0.003	0.09	6.03	24.4	790	1.51	0.29	0.51	0.25	87.8	9.2	65	4.64	21.6
YY13239		0.51	0.003	0.20	5.49	16.6	850	1.24	0.24	0.71	0.32	70.1	13.1	59	3.78	20.2
YY13240		0.51	0.003	0.14	6.78	16.7	950	1.52	0.32	0.70	0.24	88.5	9.3	75	5.52	27.7
YY13241		0.47	0.003	0.16	7.11	40.1	990	1.75	0.36	0.52	0.50	116.0	11.1	70	5.84	30.9
YY13242		0.49	0.005	0.04	5.37	15.8	760	1.27	0.23	0.60	0.21	69.9	11.5	59	4.05	22.8
YY13243		0.53	0.004	0.06	5.57	14.3	760	1.36	0.24	0.59	0.25	79.4	11.0	58	4.51	26.9
YY13244		0.47	0.005	0.05	5.92	19.5	740	1.43	0.26	0.53	0.24	76.4	10.4	64	6.10	22.3
YY13245		0.52	0.005	0.18	5.57	22.3	750	1.05	0.26	0.53	0.35	63.6	7.6	72	4.92	17.4
YY13246		0.51	0.003	0.19	6.00	67.2	780	1.36	0.52	0.51	0.40	77.4	9.3	65	6.02	29.3
YY13247		0.52	0.004	0.18	5.79	56.5	790	1.35	0.33	0.53	0.45	70.6	10.7	63	6.35	24.3
YY13248		0.44	0.015	0.39	6.12	88.4	790	1.38	1.17	0.63	0.69	71.7	15.2	65	7.76	32.4
YY13249		0.49	0.007	0.10	4.68	20.1	680	1.03	0.19	0.73	0.28	72.8	9.0	56	2.07	23.4
YY13250		0.54	0.009	0.15	6.76	36.6	950	1.42	0.36	0.71	0.37	76.7	11.0	91	8.71	26.7
CC94616		0.50	0.006	0.05	6.16	31.6	880	1.52	0.24	0.60	0.37	73.3	11.6	68	7.78	26.3
CC94617		0.48	0.006	0.25	8.49	123.5	1070	2.47	0.38	0.19	0.69	105.5	21.0	93	16.25	56.1
CC94618		0.58	0.005	0.09	6.42	41.0	830	1.55	0.28	0.51	0.31	74.1	11.0	82	6.06	23.4
CC94619		0.46	0.005	0.07	6.18	43.3	810	1.69	0.18	0.51	0.40	77.9	9.0	81	10.40	24.5
CC94620		0.42	0.004	0.04	6.13	17.7	850	1.25	0.21	0.70	0.21	63.5	10.8	78	3.97	18.6
CC94621		0.46	0.006	0.07	5.95	24.8	870	1.35	0.23	0.58	0.30	69.2	11.5	83	5.41	25.2
CC94622		0.61	0.008	0.13	6.24	37.2	970	1.54	0.33	0.78	0.43	78.8	9.9	81	5.77	30.1
CC94623		0.45	0.003	0.03	4.19	27.0	610	0.93	0.19	0.65	0.33	60.4	14.6	51	2.26	18.1
CC94624		0.49	0.005	0.11	5.62	40.4	730	1.16	0.27	0.69	0.40	70.7	17.8	67	4.25	39.2
CC94625		0.58	0.004	0.32	5.88	35.6	760	1.26	0.34	0.56	0.47	69.1	9.7	66	7.51	21.1
CC94626		0.46	0.009	0.09	4.71	16.5	670	1.15	0.17	0.63	0.28	70.7	10.1	54	3.08	19.0
CC94627		0.41	0.004	0.06	5.72	16.8	750	1.21	0.26	0.53	0.18	70.0	8.8	68	6.89	17.5
CC94628		0.47	0.004	0.08	5.90	19.7	760	1.30	0.27	0.48	0.24	78.8	7.0	67	9.06	24.1
CC94629		0.56	0.005	0.04	5.52	15.8	760	1.21	0.21	0.62	0.21	65.9	9.3	62	4.69	20.6
CC94630		0.50	0.004	0.01	5.29	12.8	760	1.19	0.18	0.66	0.21	68.8	9.0	59	3.63	20.0
CC94631		0.45	0.004	0.11	6.55	17.1	1010	1.69	0.27	0.55	0.32	95.8	11.6	68	5.43	21.9
CC94632		0.49	0.003	0.11	6.71	16.2	970	1.61	0.25	0.63	0.30	92.5	11.0	72	5.07	26.3
CC94633		0.54	0.005	0.14	4.83	13.9	770	1.17	0.16	0.78	0.38	77.7	9.5	57	2.49	26.1



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY13229		3.28	16.20	0.13	2.4	0.049	1.62	44.3	42.2	0.62	478	1.37	0.87	12.5	25.6	610
YY13230		3.13	14.20	0.13	2.1	0.068	1.44	38.0	25.5	0.70	386	1.16	1.03	12.2	23.6	810
YY13231		3.38	14.85	0.12	2.2	0.081	1.59	38.6	28.4	0.66	510	0.95	0.99	11.2	27.2	750
YY13232		3.07	13.25	0.11	1.9	0.052	1.21	32.1	24.7	0.66	562	1.10	0.93	11.5	24.1	890
YY13233		2.21	13.00	0.11	2.2	0.052	1.29	32.1	28.5	0.55	340	0.93	0.92	13.1	19.3	1020
YY13234		2.95	12.95	0.12	1.9	0.041	1.22	30.9	21.9	0.66	426	1.16	0.99	11.8	19.7	950
YY13235		3.07	12.45	0.11	2.0	0.043	1.23	32.3	22.8	0.68	454	1.12	0.96	11.4	22.9	740
YY13236		3.23	15.90	0.12	2.2	0.062	1.77	38.6	27.2	0.69	293	1.22	0.85	12.3	18.8	750
YY13237		3.29	14.65	0.13	2.1	0.069	1.53	38.8	25.9	0.65	334	1.16	0.90	12.1	22.2	670
YY13238		3.06	16.10	0.15	2.3	0.059	1.81	43.7	28.1	0.65	356	0.97	0.86	12.6	22.0	720
YY13239		3.15	13.30	0.13	1.8	0.049	1.36	34.3	24.1	0.68	597	1.12	1.01	10.9	23.5	950
YY13240		3.65	17.60	0.13	2.2	0.073	1.75	44.3	32.4	0.84	385	1.43	1.04	13.3	27.1	840
YY13241		4.05	17.85	0.14	3.0	0.097	1.93	59.5	39.5	0.82	384	1.16	1.18	13.4	27.1	710
YY13242		3.10	12.85	0.10	1.8	0.039	1.31	34.0	31.1	0.68	439	0.98	0.95	10.8	26.2	500
YY13243		3.10	13.70	0.11	1.9	0.044	1.42	39.6	28.5	0.68	397	0.92	0.95	11.6	26.7	550
YY13244		3.33	15.30	0.13	2.1	0.068	1.41	37.7	34.8	0.68	408	1.21	0.97	12.5	24.1	670
YY13245		3.49	15.50	0.11	2.1	0.062	1.32	32.5	26.4	0.59	436	1.45	0.80	12.9	18.7	1150
YY13246		3.44	15.15	0.12	2.0	0.303	1.59	36.8	30.8	0.58	360	1.05	0.87	11.8	20.9	600
YY13247		3.38	14.25	0.12	2.1	0.378	1.44	34.6	30.4	0.65	397	1.08	0.93	11.6	22.9	660
YY13248		3.30	15.05	0.12	1.9	0.607	1.48	35.6	30.4	0.63	478	1.19	0.92	12.0	25.7	910
YY13249		2.85	10.95	0.12	2.1	0.049	1.01	35.5	21.2	0.60	437	0.81	0.94	11.4	21.2	790
YY13250		3.83	15.80	0.08	2.0	0.100	1.68	38.1	47.7	0.86	519	1.19	1.01	17.4	28.1	830
CC94616		3.37	14.75	0.07	1.8	0.065	1.63	36.7	34.5	0.72	498	0.96	0.90	13.1	26.7	690
CC94617		4.23	22.2	0.13	2.1	0.090	3.03	50.8	56.8	0.77	698	0.58	0.69	19.1	37.3	530
CC94618		3.59	16.60	0.09	1.9	0.066	1.65	37.2	42.4	0.65	461	1.15	0.76	15.2	25.0	860
CC94619		2.99	15.90	0.11	1.8	0.114	1.84	37.5	28.0	0.61	486	0.73	0.75	15.3	22.8	700
CC94620		3.63	14.50	0.09	1.8	0.045	1.39	31.8	27.9	0.76	480	1.23	1.03	13.3	24.3	1130
CC94621		3.59	13.80	0.09	1.7	0.050	1.36	34.2	33.1	0.71	461	1.20	0.83	14.3	29.6	890
CC94622		3.62	15.20	0.08	2.0	0.135	1.53	38.6	35.0	0.75	463	1.31	1.00	15.8	27.9	870
CC94623		2.84	9.63	0.07	1.6	0.048	0.97	30.4	19.3	0.51	719	0.82	0.84	9.8	16.2	820
CC94624		3.42	12.90	0.08	1.9	0.831	1.32	35.1	28.4	0.69	1080	0.87	0.90	12.0	23.6	1090
CC94625		3.07	14.40	0.10	1.9	0.087	1.39	34.5	36.8	0.66	585	0.98	0.95	11.5	21.2	810
CC94626		2.92	11.10	0.09	1.9	0.042	1.08	35.3	23.8	0.56	547	0.87	0.88	10.5	19.5	780
CC94627		3.55	14.70	0.08	1.9	0.056	1.35	35.4	29.0	0.61	458	1.32	0.84	11.5	18.7	1060
CC94628		3.66	15.45	0.08	2.3	0.052	1.51	40.3	33.7	0.67	379	1.34	0.89	11.8	19.9	640
CC94629		3.24	12.55	0.08	1.8	0.042	1.33	34.4	27.8	0.68	426	0.98	0.97	10.3	21.1	670
CC94630		3.11	12.25	0.09	1.8	0.047	1.29	35.0	25.5	0.67	378	0.85	0.98	10.3	22.1	700
CC94631		3.27	17.10	0.13	2.4	0.095	1.85	48.3	30.3	0.73	334	1.04	0.90	12.2	22.1	710
CC94632		3.72	16.75	0.12	2.3	0.066	1.84	45.9	32.6	0.81	441	1.30	1.01	12.5	25.0	740
CC94633		2.89	11.35	0.11	2.0	0.041	1.24	38.7	21.8	0.64	438	0.83	0.98	10.5	22.3	850



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 VANCOUVER BC V6B 1L8

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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY13229		28.2	85.2	<0.002	0.02	1.47	12.1	1	2.0	133.0	0.76	0.10	11.65	0.397	0.59	3.1
YY13230		15.9	68.8	<0.002	0.02	1.16	11.6	1	1.8	154.5	0.78	0.06	10.25	0.425	0.48	2.5
YY13231		31.8	77.0	<0.002	0.01	1.36	12.7	1	2.8	155.0	0.76	<0.05	10.95	0.408	0.61	2.6
YY13232		15.6	61.7	<0.002	0.02	1.07	10.5	1	1.6	137.5	0.72	<0.05	9.25	0.385	0.45	2.3
YY13233		13.0	72.3	<0.002	0.04	0.78	9.3	1	1.8	140.0	0.89	<0.05	8.55	0.396	0.52	2.6
YY13234		13.5	60.4	<0.002	0.02	0.98	10.1	1	1.7	142.0	0.76	0.05	8.08	0.403	0.42	2.3
YY13235		15.2	59.9	<0.002	0.01	1.22	10.0	1	1.6	146.0	0.74	0.05	8.54	0.384	0.42	2.2
YY13236		20.5	88.2	<0.002	0.02	1.18	11.3	1	2.9	127.0	0.82	0.08	11.50	0.411	0.70	2.7
YY13237		20.2	77.9	<0.002	0.02	1.15	11.2	1	3.1	130.0	0.78	<0.05	12.90	0.389	0.57	2.7
YY13238		17.3	91.6	<0.002	0.02	0.98	11.8	<1	2.7	127.5	0.83	<0.05	13.15	0.399	0.64	2.8
YY13239		14.6	65.4	<0.002	0.02	1.08	10.4	1	2.0	150.0	0.71	<0.05	9.56	0.371	0.46	2.4
YY13240		20.1	88.1	<0.002	0.03	1.15	13.8	1	2.7	157.5	0.83	<0.05	12.30	0.416	0.61	3.2
YY13241		43.2	97.6	<0.002	0.04	1.13	12.6	1	3.9	149.0	0.90	<0.05	19.00	0.411	0.68	3.7
YY13242		14.2	61.7	<0.002	0.03	1.17	9.8	1	1.6	135.5	0.70	0.05	9.61	0.356	0.43	2.2
YY13243		14.1	67.2	<0.002	0.03	1.01	10.2	1	2.0	138.0	0.75	<0.05	10.35	0.371	0.49	2.4
YY13244		18.2	73.6	<0.002	0.04	1.24	11.3	1	2.8	131.0	0.79	<0.05	11.30	0.385	0.54	2.5
YY13245		19.7	70.6	<0.002	0.03	1.20	10.8	1	2.4	118.0	0.83	<0.05	9.25	0.420	0.58	2.4
YY13246		39.3	82.0	<0.002	0.02	1.15	10.9	1	6.7	128.0	0.77	0.06	10.60	0.373	0.68	2.6
YY13247		21.4	76.3	<0.002	0.02	1.18	10.7	1	2.9	131.0	0.75	<0.05	10.45	0.382	0.55	2.6
YY13248		42.3	81.7	<0.002	0.02	1.36	11.7	1	7.2	139.0	0.81	<0.05	9.98	0.392	0.68	3.0
YY13249		12.3	47.8	<0.002	0.01	1.01	9.4	1	1.5	136.5	0.87	<0.05	8.77	0.408	0.37	2.4
YY13250		20.7	83.8	<0.002	0.02	1.41	11.8	1	3.4	146.5	1.12	0.10	11.65	0.541	0.78	2.7
CC94616		14.2	84.9	<0.002	0.02	1.17	9.8	1	3.1	122.5	0.90	0.05	12.45	0.414	0.69	2.3
CC94617		14.0	165.0	0.002	0.03	1.02	12.9	1	6.2	91.3	1.27	<0.05	18.70	0.534	1.75	2.9
CC94618		15.0	84.7	<0.002	0.03	1.59	11.1	1	2.9	114.0	1.01	0.05	11.55	0.452	0.75	2.4
CC94619		10.9	131.0	<0.002	0.01	1.65	10.8	1	38.0	110.5	0.96	<0.05	12.65	0.435	1.44	2.2
CC94620		15.9	63.9	<0.002	0.03	1.17	10.5	1	2.0	133.5	0.89	0.06	9.71	0.449	0.55	2.1
CC94621		14.9	66.2	0.002	0.02	1.28	10.6	1	2.3	119.5	0.91	0.05	10.15	0.429	0.54	2.4
CC94622		18.7	79.6	0.002	0.02	1.54	12.2	1	5.0	154.0	0.98	<0.05	10.90	0.490	0.67	2.8
CC94623		12.5	45.6	<0.002	0.02	1.04	7.2	1	1.6	116.5	0.72	<0.05	8.83	0.366	0.34	1.9
CC94624		15.9	63.9	<0.002	0.02	1.13	9.2	1	2.4	131.5	0.83	<0.05	11.35	0.421	0.52	2.2
CC94625		15.3	72.1	<0.002	0.02	0.88	9.6	1	2.7	129.0	0.83	<0.05	11.30	0.386	0.54	2.5
CC94626		14.3	54.9	<0.002	0.02	1.16	8.6	1	1.4	122.0	0.75	<0.05	10.50	0.384	0.36	2.3
CC94627		18.8	74.1	<0.002	0.03	1.13	10.1	1	2.0	119.0	0.78	<0.05	11.35	0.381	0.55	2.6
CC94628		19.0	80.8	<0.002	0.04	1.44	10.0	<1	2.1	121.5	0.86	<0.05	14.40	0.405	0.56	2.7
CC94629		14.1	61.1	<0.002	0.03	1.27	8.8	1	1.5	128.0	0.74	<0.05	10.55	0.385	0.45	2.2
CC94630		12.7	59.6	<0.002	0.02	1.07	8.8	1	1.6	137.0	0.75	<0.05	10.35	0.367	0.41	2.1
CC94631		47.1	93.5	<0.002	0.02	1.12	11.4	1	5.2	132.5	0.87	<0.05	14.45	0.404	0.73	2.9
CC94632		31.0	94.0	<0.002	0.03	1.24	11.4	1	2.7	141.0	0.86	0.05	15.15	0.405	0.62	3.1
CC94633		13.0	58.3	<0.002	0.01	1.16	8.8	1	1.5	140.0	0.75	<0.05	11.45	0.388	0.39	2.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY13229		104	1.3	14.8	81	92.6
YY13230		110	1.6	15.5	80	78.7
YY13231		107	1.2	17.2	98	92.7
YY13232		101	1.2	13.7	87	70.0
YY13233		95	1.3	12.8	69	78.5
YY13234		108	1.3	12.6	66	70.5
YY13235		104	1.3	13.6	79	72.2
YY13236		110	1.4	12.7	74	83.1
YY13237		100	1.3	13.7	77	78.9
YY13238		100	1.4	14.6	78	85.1
YY13239		99	1.2	14.2	86	68.5
YY13240		119	1.3	15.3	91	85.4
YY13241		104	1.3	15.5	111	108.5
YY13242		97	1.0	11.9	68	69.0
YY13243		96	1.1	12.5	72	69.2
YY13244		103	1.2	11.8	89	77.5
YY13245		119	1.4	11.5	72	76.2
YY13246		100	2.0	11.9	105	73.4
YY13247		101	1.3	13.4	101	76.6
YY13248		101	1.9	13.2	150	69.9
YY13249		92	1.4	15.0	76	69.5
YY13250		125	2.9	14.4	127	71.5
CC94616		102	2.2	12.1	106	67.3
CC94617		94	6.5	12.0	145	78.6
CC94618		113	3.9	11.5	87	69.2
CC94619		104	11.6	13.4	92	68.0
CC94620		119	1.3	11.0	77	65.7
CC94621		114	1.6	13.8	97	64.6
CC94622		124	2.3	16.2	139	74.2
CC94623		81	1.2	11.0	75	56.2
CC94624		94	1.2	11.7	152	65.7
CC94625		98	1.2	11.6	133	66.3
CC94626		88	1.4	12.0	73	70.5
CC94627		109	1.3	11.4	71	71.5
CC94628		110	1.2	11.9	75	79.5
CC94629		102	1.1	10.0	71	65.0
CC94630		96	1.0	11.0	69	65.3
CC94631		106	1.5	13.3	90	89.5
CC94632		118	1.4	13.8	97	85.0
CC94633		93	1.1	14.8	77	73.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC94634		0.50	0.006	0.08	5.88	37.5	820	1.31	0.23	0.62	0.18	69.9	7.6	69	5.61	18.8
CC94635		0.51	0.004	0.14	5.64	17.5	820	1.32	0.19	0.74	0.27	87.0	10.4	61	3.89	29.4
CC94636		0.51	0.005	0.13	6.21	40.5	850	1.33	0.36	0.63	0.21	77.3	6.6	69	5.54	19.5
CC94637		0.51	0.014	0.07	5.24	14.2	750	1.07	0.23	0.63	0.12	71.0	5.8	64	3.69	17.0
CC94638		0.48	0.007	0.14	5.24	13.8	790	1.14	0.19	0.81	0.20	76.1	9.3	66	3.01	20.8
CC94639		0.45	0.006	0.11	5.54	15.9	780	1.23	0.19	0.76	0.28	68.8	10.0	70	3.68	17.5
CC94640		0.46	0.004	0.08	5.27	11.8	800	1.13	0.17	0.79	0.25	68.4	9.6	63	2.85	21.6
CC94641		0.39	0.005	0.04	5.51	13.7	760	1.12	0.22	0.68	0.11	62.9	7.3	70	3.70	15.2
CC94642		0.44	0.005	0.06	5.70	13.4	810	1.29	0.19	0.64	0.21	78.5	7.9	63	5.91	22.6
CC94643		0.42	0.004	0.06	5.19	11.3	780	0.92	0.20	0.74	0.11	56.0	6.2	66	3.56	15.6
CC94644		0.47	0.007	0.09	6.29	13.4	950	1.51	0.22	0.84	0.37	77.8	12.5	73	5.34	24.3
CC94645		0.38	0.004	0.46	5.79	18.8	790	1.42	0.22	0.65	0.31	75.3	10.3	63	9.80	22.5
CC94646		0.51	0.004	0.12	6.41	31.5	850	1.31	0.24	0.71	0.18	81.5	9.9	76	5.10	20.4
CC94647		0.46	0.004	0.03	5.10	16.8	710	1.07	0.18	0.66	0.13	59.7	7.1	63	3.12	16.4
CC94649		0.40	0.008	0.06	6.04	20.4	800	1.22	0.22	0.70	0.23	65.9	10.0	72	4.62	19.1
CC94650		0.46	0.022	0.10	4.73	14.8	690	0.99	0.18	0.72	0.16	79.4	7.4	61	2.33	19.6
CC94651		0.51	0.006	0.05	6.21	31.2	880	1.48	0.25	0.57	0.29	81.1	10.2	83	7.99	21.3
CC94652		0.48	0.009	0.05	5.13	18.1	840	1.20	0.16	0.71	0.33	80.3	10.3	57	3.73	26.5
CC94653		0.45	0.004	0.04	4.65	15.6	710	1.02	0.16	0.59	0.33	53.9	9.8	52	5.11	18.3
CC94654		0.49	0.004	0.07	4.97	21.5	710	1.15	0.22	0.58	0.32	64.7	8.3	64	5.55	19.3
CC94655		0.44	0.007	0.07	5.84	25.9	790	1.38	0.27	0.66	0.40	67.6	11.6	69	5.76	23.9
CC94656		0.48	0.013	0.09	7.29	72.5	980	1.94	0.42	0.44	0.64	92.7	14.1	75	15.30	39.8
CC94657		0.48	0.005	0.04	6.07	20.5	880	1.52	0.30	0.65	0.70	79.2	11.8	67	7.93	32.7
CC94658		0.47	0.005	0.10	6.47	40.0	910	1.95	0.40	0.78	0.70	89.3	12.8	87	19.55	34.9
CC94659		0.49	0.009	0.10	5.91	27.5	770	1.48	0.43	0.56	0.32	62.0	10.3	66	11.80	21.6
CC94660		0.51	0.011	0.09	5.92	30.1	870	1.56	0.47	0.62	0.37	74.2	11.3	62	7.37	39.4
CC94661		0.51	0.004	0.06	5.25	24.6	760	1.19	0.25	0.59	0.20	66.2	8.4	63	5.02	20.1
CC94662		0.49	0.004	0.05	7.30	24.2	1060	2.01	0.27	0.48	0.27	86.2	11.9	72	11.80	27.9
CC94663		0.47	0.008	0.03	6.30	18.3	860	1.72	0.20	0.48	0.18	84.0	8.4	65	10.50	27.1
CC94664		0.53	0.004	0.06	6.23	18.7	910	1.62	0.27	0.67	0.24	82.7	12.0	68	7.58	33.3
CC94665		0.48	0.007	0.13	6.34	22.1	900	1.45	0.24	0.77	0.31	65.7	10.5	78	8.59	29.4
CC94666		0.47	0.014	0.10	4.78	23.0	780	1.23	0.23	0.83	0.45	99.0	10.8	71	5.40	30.0
CC94667		0.51	0.005	0.23	5.65	46.0	800	1.39	0.29	0.72	0.70	72.9	10.5	65	4.42	28.7
CC94668		0.49	0.005	0.11	5.63	42.1	740	1.30	0.29	0.63	0.60	68.5	12.5	62	6.05	30.2
CC94669		0.46	0.006	0.07	5.85	31.9	870	1.35	1.57	0.86	0.35	73.2	8.4	70	5.02	22.5
CC94670		0.53	0.007	0.15	5.93	39.5	800	1.38	0.36	0.58	0.37	78.8	11.7	68	8.08	24.7
CC94671		0.49	0.005	0.07	5.46	15.9	720	1.27	0.25	0.53	0.17	81.6	7.4	64	6.31	25.2
CC94672		0.46	0.011	0.05	4.81	18.3	700	1.24	0.18	0.67	0.21	68.4	10.3	55	3.11	19.9
CC94673		0.52	0.009	0.07	5.47	15.4	720	1.27	0.23	0.65	0.20	80.0	7.5	69	4.25	24.1
CC94674		0.49	0.016	0.10	6.13	21.9	800	1.52	0.25	0.71	0.33	90.7	9.8	69	5.95	28.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	
CC94634	3.37	14.50	0.08	2.0	0.051	1.53	36.0	26.7	0.70	344	1.30	0.92	11.4	19.4	1060	
CC94635	3.20	13.30	0.09	2.2	0.048	1.44	41.1	25.7	0.71	423	0.92	1.04	11.2	24.3	820	
CC94636	3.25	14.65	0.09	2.2	0.078	1.68	39.0	28.2	0.70	310	1.17	0.98	11.1	19.4	770	
CC94637	2.93	12.80	0.11	2.0	0.048	1.24	34.6	23.0	0.64	281	1.13	0.91	11.6	15.8	740	
CC94638	3.15	11.90	0.08	2.1	0.043	1.28	37.9	21.9	0.67	471	1.10	1.00	11.9	19.8	990	
CC94639	3.35	13.25	0.08	2.0	0.046	1.29	35.1	32.2	0.75	483	1.08	1.03	11.3	27.0	930	
CC94640	3.03	11.55	0.07	2.0	0.037	1.29	34.3	22.6	0.64	547	1.04	0.96	10.4	20.7	860	
CC94641	3.22	13.80	0.07	2.1	0.062	1.24	31.8	23.5	0.68	329	1.31	0.93	11.1	17.0	830	
CC94642	2.99	14.45	0.11	2.1	0.079	1.46	38.9	29.6	0.64	333	0.95	0.95	12.4	20.4	580	
CC94643	2.82	12.10	0.08	1.8	0.039	1.21	28.0	21.1	0.65	323	1.09	0.98	10.9	16.6	910	
CC94644	3.38	14.25	0.10	2.2	0.046	1.57	38.7	31.9	0.74	694	1.02	1.08	12.7	23.2	840	
CC94645	2.87	14.70	0.12	2.1	0.056	1.49	40.6	35.0	0.60	516	1.15	0.90	10.7	21.0	840	
CC94646	3.52	15.65	0.10	3.0	0.070	1.56	40.4	33.7	0.75	440	1.22	0.98	13.9	21.6	830	
CC94647	2.94	12.25	0.07	1.8	0.047	1.12	30.3	23.4	0.65	319	0.99	0.96	10.6	17.5	640	
CC94649	3.70	14.85	0.08	2.0	0.061	1.33	33.0	28.8	0.76	480	1.23	1.02	12.2	21.7	830	
CC94650	2.77	10.80	0.12	2.1	0.035	1.09	39.6	20.3	0.60	390	0.84	0.95	10.9	17.4	840	
CC94651	3.67	16.00	0.08	1.8	0.067	1.60	40.4	36.4	0.71	425	0.91	0.86	16.7	26.1	750	
CC94652	3.07	12.35	0.13	1.8	0.046	1.33	37.3	23.5	0.64	502	1.06	0.93	11.6	28.0	700	
CC94653	2.72	10.70	0.08	1.4	0.044	1.05	26.3	24.2	0.58	445	0.83	0.88	9.4	23.0	580	
CC94654	3.21	12.75	0.12	1.8	0.063	1.11	31.6	27.7	0.62	406	1.14	0.83	11.6	22.4	820	
CC94655	3.51	14.70	0.10	1.9	0.068	1.31	32.4	28.3	0.74	521	1.26	0.95	11.8	24.0	850	
CC94656	3.89	19.30	0.14	2.0	0.101	2.06	44.3	52.3	0.91	628	0.91	0.83	15.2	35.3	580	
CC94657	3.52	15.75	0.09	1.8	0.085	1.34	38.5	37.9	0.94	552	1.13	0.91	12.1	30.4	630	
CC94658	3.65	16.65	0.11	1.9	0.430	1.65	41.9	64.4	0.82	615	1.21	1.03	14.1	39.6	360	
CC94659	3.45	15.65	0.08	1.6	0.091	1.38	30.0	40.5	0.70	473	1.25	0.86	11.2	25.8	810	
CC94660	3.32	14.95	0.07	1.7	0.080	1.34	35.5	40.0	0.74	528	0.92	0.93	11.4	31.3	690	
CC94661	2.96	13.95	0.10	1.8	0.074	1.25	32.7	31.6	0.64	376	1.05	0.87	12.2	21.9	670	
CC94662	3.99	19.20	0.09	2.1	0.087	2.06	42.1	51.5	0.84	575	1.21	0.91	14.6	31.5	670	
CC94663	3.47	16.25	0.10	1.9	0.066	1.75	40.5	41.8	0.71	392	0.85	0.84	13.2	27.8	570	
CC94664	3.43	16.25	0.13	1.9	0.063	1.52	40.5	37.6	0.73	517	1.11	1.06	13.4	29.6	780	
CC94665	3.63	16.20	0.11	1.9	0.082	1.45	31.5	40.6	0.86	429	1.28	1.06	13.7	27.7	850	
CC94666	3.37	11.80	0.10	2.3	0.054	1.12	45.2	31.7	0.63	624	1.08	0.91	13.9	25.0	910	
CC94667	3.30	13.80	0.08	2.0	0.115	1.31	35.0	30.2	0.68	513	1.08	0.95	12.0	25.5	800	
CC94668	3.32	13.50	0.09	1.9	0.170	1.28	32.5	29.4	0.66	525	1.11	0.92	10.8	24.6	760	
CC94669	3.42	14.25	0.07	2.1	0.150	1.55	36.0	29.0	0.72	445	1.30	1.00	12.2	22.4	770	
CC94670	3.58	15.50	0.11	2.0	0.075	1.41	37.8	35.0	0.70	502	1.23	0.92	12.0	25.4	780	
CC94671	3.47	14.70	0.09	2.1	0.053	1.31	39.5	30.1	0.65	405	1.33	0.83	11.9	21.2	910	
CC94672	2.95	12.05	0.07	1.9	0.044	1.11	31.8	26.8	0.63	447	1.05	0.93	10.7	22.3	550	
CC94673	3.37	14.20	0.09	2.3	0.054	1.32	39.2	29.9	0.72	400	1.48	0.89	12.2	21.7	780	
CC94674	3.69	15.75	0.12	2.3	0.066	1.44	41.4	38.2	0.76	462	1.53	1.03	12.4	26.7	970	



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
CC94634		19.1	75.9	<0.002	0.04	1.23	10.0	1	1.9	124.5	0.78	0.06	11.55	0.403	0.55	2.7
CC94635		14.8	67.1	<0.002	0.01	1.21	10.8	1	1.7	144.5	0.82	0.05	12.40	0.417	0.47	3.3
CC94636		21.8	82.8	<0.002	0.02	1.09	9.7	1	4.1	128.0	0.79	<0.05	13.55	0.399	0.65	2.8
CC94637		14.6	61.8	<0.002	0.02	0.97	9.6	1	1.9	122.0	0.79	<0.05	11.55	0.407	0.50	2.4
CC94638		12.5	58.4	<0.002	0.03	1.09	9.0	2	1.6	144.0	0.82	0.05	11.20	0.442	0.38	2.6
CC94639		14.6	64.3	<0.002	0.02	1.03	10.0	1	1.6	145.5	0.78	0.05	10.90	0.408	0.43	2.4
CC94640		13.0	59.7	<0.002	0.02	1.02	9.1	1	1.3	138.0	0.74	<0.05	9.87	0.399	0.40	2.3
CC94641		16.3	60.2	<0.002	0.02	1.14	10.1	1	1.8	130.5	0.77	<0.05	9.63	0.411	0.54	2.3
CC94642		17.4	72.6	<0.002	0.01	1.83	11.1	1	2.1	139.0	0.86	<0.05	11.85	0.399	0.57	2.6
CC94643		14.5	57.4	<0.002	0.02	0.97	9.1	1	1.5	137.0	0.89	0.05	8.66	0.392	0.43	2.7
CC94644		17.0	74.7	<0.002	0.02	1.79	10.6	1	1.8	165.5	0.82	<0.05	12.85	0.432	0.52	2.8
CC94645		29.0	79.1	<0.002	0.04	1.19	10.0	1	2.2	139.0	0.72	0.05	10.65	0.358	0.59	2.9
CC94646		26.3	76.5	<0.002	0.02	1.78	11.4	1	2.3	149.0	0.95	<0.05	12.40	0.464	0.60	2.8
CC94647		14.1	55.1	<0.002	0.02	1.09	9.7	1	1.5	132.0	0.74	0.06	9.54	0.388	0.43	2.1
CC94649		15.4	66.1	<0.002	0.02	1.18	10.6	1	1.7	142.0	0.81	<0.05	10.40	0.446	0.51	2.4
CC94650		12.0	51.6	<0.002	0.01	1.00	8.7	1	1.3	133.5	0.82	<0.05	10.95	0.443	0.36	2.4
CC94651		14.9	82.5	<0.002	0.02	1.22	11.7	1	3.7	120.0	1.04	<0.05	12.05	0.507	0.70	2.4
CC94652		15.1	65.2	<0.002	0.01	1.28	9.3	<1	2.0	134.5	0.84	<0.05	10.60	0.398	0.50	2.6
CC94653		12.5	52.2	<0.002	0.02	0.98	8.1	<1	1.6	121.0	0.66	0.05	7.79	0.320	0.47	1.9
CC94654		14.1	57.9	<0.002	0.02	1.17	9.4	1	2.0	115.5	0.85	0.05	8.86	0.391	0.51	2.2
CC94655		14.9	69.9	<0.002	0.03	1.18	10.5	<1	2.4	134.0	0.82	<0.05	15.10	0.403	0.67	2.7
CC94656		16.9	122.0	<0.002	0.02	1.14	12.7	<1	5.4	109.5	1.08	<0.05	14.45	0.436	1.23	2.8
CC94657		19.3	72.8	<0.002	0.02	1.06	11.1	<1	3.5	129.0	0.84	<0.05	11.90	0.398	0.73	2.8
CC94658		18.4	91.0	<0.002	0.01	1.10	11.4	<1	9.8	153.0	1.08	<0.05	12.80	0.458	0.79	2.6
CC94659		16.7	81.3	<0.002	0.02	0.96	10.1	1	3.3	123.5	0.77	<0.05	10.00	0.359	0.65	2.2
CC94660		15.4	72.1	0.002	0.02	1.03	10.7	1	4.1	127.5	0.80	<0.05	11.35	0.377	0.63	2.5
CC94661		13.0	68.3	<0.002	0.01	1.04	9.9	1	2.6	123.0	0.85	<0.05	9.10	0.398	0.59	2.2
CC94662		17.5	119.5	<0.002	0.02	1.04	12.5	1	3.9	121.0	1.07	<0.05	13.40	0.447	1.02	2.9
CC94663		14.7	95.5	0.002	0.02	0.87	10.8	1	3.2	115.0	0.92	<0.05	12.80	0.402	0.81	2.6
CC94664		16.7	79.7	<0.002	0.02	1.09	11.9	1	2.6	146.0	0.93	<0.05	11.45	0.415	0.64	2.7
CC94665		15.7	78.0	<0.002	0.02	1.10	11.9	1	2.5	152.0	0.94	<0.05	9.39	0.450	0.69	2.5
CC94666		12.6	55.4	<0.002	0.01	1.25	9.7	<1	2.0	138.5	1.06	<0.05	11.70	0.537	0.48	2.8
CC94667		17.4	70.1	<0.002	0.02	1.14	10.3	1	2.6	135.5	0.84	0.05	10.80	0.416	0.60	2.6
CC94668		23.9	69.5	<0.002	0.02	1.11	10.3	1	3.6	130.5	0.77	<0.05	9.79	0.386	0.67	2.4
CC94669		23.7	74.4	0.002	0.03	1.30	10.2	1	4.0	150.5	0.92	0.05	10.65	0.422	0.61	2.7
CC94670		19.2	77.8	<0.002	0.03	1.29	10.9	1	3.0	128.5	0.85	0.09	11.45	0.397	0.71	2.8
CC94671		15.6	73.7	<0.002	0.04	1.23	10.2	<1	2.1	119.5	0.87	<0.05	12.30	0.398	0.54	2.6
CC94672		15.0	55.7	0.002	0.02	1.19	9.3	<1	1.7	134.5	0.75	<0.05	9.29	0.365	0.45	2.3
CC94673		15.8	66.8	<0.002	0.04	1.13	10.3	1	1.9	136.0	0.91	<0.05	12.90	0.429	0.52	2.9
CC94674		19.9	75.2	<0.002	0.03	1.43	11.2	1	3.2	144.0	0.88	0.05	13.60	0.418	0.71	3.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
CC94634		113	1.3	11.2	74	74.3
CC94635		103	1.4	18.8	87	79.0
CC94636		110	1.4	12.6	81	78.2
CC94637		104	1.3	12.8	58	74.0
CC94638		106	1.3	13.6	74	78.3
CC94639		109	1.3	14.5	96	69.6
CC94640		107	1.1	13.4	79	70.4
CC94641		119	1.2	11.5	67	71.9
CC94642		106	1.3	14.0	75	75.7
CC94643		110	1.2	11.1	59	65.3
CC94644		117	1.3	14.2	102	86.0
CC94645		96	1.1	17.7	70	76.6
CC94646		122	1.8	14.6	84	87.7
CC94647		102	1.2	12.1	63	63.4
CC94649		118	1.3	12.6	85	75.7
CC94650		95	1.4	13.5	66	71.6
CC94651		112	2.6	13.4	106	68.9
CC94652		95	1.3	15.7	83	67.0
CC94653		84	1.0	9.9	72	49.6
CC94654		101	1.3	11.6	76	66.8
CC94655		108	2.0	12.3	97	70.2
CC94656		102	3.1	15.8	169	74.5
CC94657		112	1.5	15.5	226	70.4
CC94658		108	2.3	15.7	205	72.6
CC94659		102	1.8	10.4	129	59.9
CC94660		98	3.5	13.0	118	63.0
CC94661		101	1.4	11.7	74	65.2
CC94662		112	2.1	13.9	126	78.1
CC94663		92	1.7	12.9	87	71.3
CC94664		103	1.7	15.4	93	72.3
CC94665		123	1.5	13.6	117	83.5
CC94666		105	2.6	17.5	99	78.6
CC94667		103	1.7	12.8	110	71.6
CC94668		98	1.6	12.4	118	69.7
CC94669		113	1.6	12.6	95	78.0
CC94670		106	1.9	13.0	93	78.5
CC94671		102	1.3	11.2	69	75.8
CC94672		93	1.1	11.2	64	69.5
CC94673		104	1.6	12.3	70	85.0
CC94674		112	1.4	15.2	91	89.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC94675		0.48	0.007	0.14	6.12	24.7	860	1.46	0.27	0.74	0.29	84.9	10.5	70	4.22	25.4
CC94676		0.48	0.006	0.07	5.79	16.8	760	1.29	0.25	0.66	0.17	81.0	7.0	74	5.55	21.0
CC94677		0.45	0.009	0.09	5.66	15.3	760	1.39	0.22	0.57	0.20	83.3	8.4	65	4.15	27.9
CC94678		0.46	0.007	0.09	5.80	15.1	800	1.39	0.23	0.62	0.23	84.7	11.5	67	4.47	25.8
CC94679		0.46	0.005	0.06	5.27	15.9	820	1.36	0.19	0.77	0.23	80.0	10.4	61	3.61	23.8
CC94680		0.49	0.005	0.08	4.56	15.3	720	1.28	0.19	0.72	0.18	64.9	8.5	53	2.30	20.3
CC94681		0.44	0.003	0.20	5.40	14.4	790	1.42	0.20	0.69	0.17	80.6	6.1	61	3.77	18.1
CC94682		0.44	0.008	0.15	5.01	21.7	720	1.34	0.19	0.77	0.24	98.9	9.5	64	4.16	24.4
CC94683		0.44	0.002	0.10	5.41	15.8	800	1.28	0.20	0.75	0.17	69.7	8.1	66	4.30	19.7
CC94684		0.44	0.001	0.07	4.52	15.6	610	1.02	0.13	0.80	0.20	63.8	10.5	49	1.69	24.2
CC94685		0.41	0.003	0.11	5.01	16.6	810	1.27	0.16	0.85	0.25	72.0	11.1	55	2.38	29.2
CC94686		0.52	0.002	0.08	5.59	19.1	740	1.34	0.24	0.59	0.20	75.6	9.1	64	4.86	15.7
CC94687		0.45	0.002	0.10	5.97	72.0	820	1.67	0.23	0.73	0.51	88.1	16.0	65	5.00	25.5
CC94688		0.45	0.003	0.16	5.79	34.6	840	1.40	0.46	0.71	0.21	81.3	13.4	63	6.76	38.8
CC94689		0.44	0.003	0.07	5.00	17.9	780	1.15	0.20	0.83	0.26	69.1	13.1	59	2.72	23.5
CC94690		0.43	0.007	0.13	5.75	17.8	930	1.29	0.23	0.80	0.24	74.7	11.2	69	3.63	19.7
CC94691		0.49	0.002	0.14	6.89	26.8	1050	1.88	0.29	0.64	0.47	105.5	13.8	70	7.24	32.1
CC94692		0.47	0.003	0.05	6.20	16.8	880	1.41	0.28	0.67	0.14	76.7	8.2	70	5.74	24.5
CC94693		0.44	0.004	0.12	6.67	20.8	900	1.80	0.26	0.69	0.30	96.9	12.5	70	7.27	32.0
CC94694		0.42	0.007	0.04	5.46	16.9	740	1.19	0.26	0.65	0.17	74.2	10.4	63	4.42	22.8
CC94695		0.50	0.003	0.07	5.80	17.6	820	1.42	0.24	0.75	0.17	91.8	8.7	65	4.38	26.3
CC94696		0.49	0.003	0.03	5.70	17.9	760	1.27	0.26	0.64	0.15	68.1	9.9	64	4.93	22.6
CC94697		0.50	0.007	0.11	5.28	19.0	760	1.39	0.21	0.71	0.25	88.7	9.9	62	4.45	25.2
CC94698		0.52	0.006	0.11	6.68	13.8	990	1.58	0.25	0.80	0.25	88.9	9.6	73	4.90	30.0
CC94699		0.51	0.004	0.04	6.07	12.9	820	1.55	0.24	0.53	0.22	82.3	10.2	64	6.30	23.7
CC94700		0.47	0.007	0.10	6.60	21.8	840	1.71	0.46	0.56	0.27	82.1	12.4	69	8.83	37.4
CC94701		0.38	0.006	0.06	5.67	28.3	740	1.23	0.32	0.50	0.20	73.2	7.7	71	7.76	19.9
CC94702		0.46	0.007	0.03	6.38	39.6	820	1.56	0.36	0.43	0.20	78.5	8.9	69	12.70	26.4
CC94703		0.38	0.006	0.08	5.81	38.4	810	1.50	0.24	0.55	0.29	75.6	7.1	70	7.21	23.0
CC94704		0.39	0.005	0.06	5.48	28.9	810	1.37	0.32	0.65	0.26	64.6	7.8	65	5.51	21.1
CC94705		0.43	0.006	0.07	5.97	26.2	840	1.48	0.31	0.63	0.49	70.1	10.5	67	7.10	20.5
CC94706		0.48	0.026	0.07	6.40	58.4	900	2.03	0.65	0.71	0.42	82.2	12.2	64	22.0	38.2
CC94707		0.42	0.003	0.08	6.40	23.2	720	2.17	0.69	0.35	0.67	71.0	8.9	59	19.15	33.5
CC94708		0.42	0.009	0.04	5.53	15.6	770	1.49	0.86	0.60	0.23	66.4	8.9	63	10.15	27.1
CC94709		0.47	0.010	0.05	5.29	17.7	750	1.11	0.56	0.68	0.20	65.2	8.6	64	4.41	18.8
CC94710		0.41	0.005	0.03	5.05	13.8	740	1.07	0.22	0.65	0.12	63.1	6.2	61	4.37	14.2
CC94711		0.50	0.003	0.03	6.62	13.6	910	1.54	0.27	0.58	0.16	77.2	8.2	70	8.62	24.0
CC94712		0.49	0.004	0.07	7.11	23.1	1000	1.92	0.84	0.61	0.25	92.3	11.0	74	15.05	40.0
CC94713		0.41	0.005	0.19	6.40	22.5	920	1.45	0.40	0.72	0.20	69.4	10.9	74	10.25	29.2
CC94714		0.44	0.013	0.10	4.64	15.9	650	1.02	0.17	0.66	0.28	62.3	8.6	55	4.24	20.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	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	
	Analyte Units LOD	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
CC94675		3.54	15.10	0.10	2.1	0.076	1.42	39.4	31.5	0.80	500	1.40	1.09	11.5	25.2	860
CC94676		3.44	15.85	0.10	2.3	0.052	1.33	39.4	30.7	0.73	350	1.48	0.92	13.0	20.3	940
CC94677		3.38	14.60	0.09	2.0	0.050	1.34	39.9	29.6	0.69	377	1.24	0.90	11.3	24.0	720
CC94678		3.56	14.90	0.10	2.5	0.055	1.39	40.9	31.3	0.74	497	1.33	0.94	12.1	25.9	700
CC94679		3.32	13.05	0.11	1.9	0.045	1.25	38.6	27.1	0.68	477	1.17	0.97	11.4	24.2	750
CC94680		2.79	10.90	0.08	1.6	0.040	1.06	32.1	23.2	0.60	399	0.81	0.93	9.8	21.3	710
CC94681		2.89	13.65	0.11	2.1	0.055	1.37	39.0	27.3	0.64	284	0.98	0.88	11.6	17.7	730
CC94682		3.25	12.90	0.11	2.3	0.048	1.22	47.5	27.3	0.66	418	1.12	0.93	12.3	22.8	920
CC94683		3.03	14.45	0.09	2.0	0.044	1.28	33.5	29.6	0.68	343	1.28	0.97	12.1	20.4	840
CC94684		2.59	9.36	0.09	1.5	0.040	0.93	30.6	20.7	0.57	518	0.73	0.93	9.1	24.6	940
CC94685		2.97	11.65	0.10	1.8	0.063	1.17	34.7	23.8	0.65	535	0.96	1.06	9.9	28.5	810
CC94686		3.10	14.55	0.09	1.9	0.059	1.36	35.8	31.8	0.60	437	1.21	0.90	11.2	18.5	930
CC94687		3.31	14.75	0.10	2.2	0.069	1.61	41.9	35.4	0.65	878	1.20	0.94	11.8	26.8	920
CC94688		3.33	13.75	0.16	2.1	0.051	1.32	37.7	32.2	0.77	566	1.04	1.00	12.0	34.1	630
CC94689		3.15	11.60	0.15	2.0	0.042	1.12	34.5	22.1	0.66	717	1.05	1.01	11.1	24.2	980
CC94690		3.35	14.20	0.14	2.2	0.049	1.34	36.1	26.5	0.76	512	1.27	1.05	12.3	22.7	890
CC94691		3.54	18.55	0.17	2.7	0.069	2.01	50.6	39.2	0.81	565	1.12	1.03	14.8	31.1	690
CC94692		3.59	16.65	0.15	2.2	0.052	1.47	38.1	32.5	0.76	344	1.28	0.96	13.0	23.0	600
CC94693		3.67	16.50	0.18	2.5	0.059	1.69	46.4	43.6	0.77	448	1.11	0.98	13.1	29.6	860
CC94694		3.27	14.00	0.17	2.2	0.046	1.24	36.8	27.4	0.66	454	1.07	0.94	12.1	22.2	850
CC94695		3.23	15.10	0.18	2.4	0.061	1.46	44.8	31.0	0.70	394	1.13	0.97	13.4	22.1	680
CC94696		3.43	15.20	0.15	2.0	0.058	1.33	32.8	28.8	0.70	467	1.23	0.98	11.7	21.8	890
CC94697		3.12	13.20	0.18	2.3	0.044	1.29	43.7	33.0	0.66	422	0.89	0.91	12.4	24.0	760
CC94698		3.60	17.35	0.17	2.5	0.057	1.65	43.5	33.5	0.81	392	1.31	1.09	14.4	29.1	830
CC94699		3.34	14.95	0.11	2.2	0.050	1.49	40.9	38.0	0.68	353	1.47	0.91	13.4	28.0	640
CC94700		3.63	16.65	0.16	2.0	0.059	1.41	40.9	34.7	0.71	413	1.10	0.90	11.6	27.8	700
CC94701		3.30	17.00	0.14	2.2	0.053	1.38	34.9	31.2	0.63	403	1.38	0.83	13.9	22.0	950
CC94702		3.67	17.40	0.14	2.0	0.096	1.66	37.8	42.7	0.69	395	1.03	0.87	13.8	26.0	570
CC94703		3.09	15.30	0.13	2.0	0.079	1.54	38.0	35.3	0.64	379	1.03	0.80	14.9	21.1	820
CC94704		3.13	14.15	0.13	1.8	0.062	1.28	32.6	29.2	0.66	372	1.03	0.90	12.3	19.8	820
CC94705		3.43	15.35	0.15	1.8	0.070	1.41	34.9	40.8	0.67	489	1.07	0.92	12.5	23.9	680
CC94706		3.55	16.25	0.17	1.7	0.141	1.59	40.4	44.8	0.76	559	0.87	0.91	13.7	28.0	440
CC94707		3.53	16.05	0.12	1.6	0.215	1.63	31.0	35.3	0.56	448	0.72	0.72	12.0	18.0	520
CC94708		3.09	14.55	0.14	1.9	0.058	1.29	31.8	33.0	0.63	392	1.01	0.88	11.9	20.7	830
CC94709		3.00	13.65	0.15	1.8	0.062	1.16	32.8	26.1	0.65	399	1.08	0.95	11.5	18.8	1030
CC94710		2.85	13.15	0.16	2.0	0.047	1.17	31.6	27.9	0.64	277	0.82	0.90	12.0	17.4	700
CC94711		3.27	17.15	0.15	2.2	0.071	1.75	39.2	42.9	0.79	351	0.89	0.90	14.1	26.4	530
CC94712		3.68	18.40	0.16	2.2	0.128	2.00	46.3	50.3	0.85	474	0.93	0.92	15.4	30.4	630
CC94713		3.35	15.50	0.14	1.8	0.071	1.52	35.0	36.5	0.82	648	1.20	1.01	12.5	24.7	840
CC94714		2.82	11.05	0.13	1.8	0.044	1.04	31.3	24.0	0.56	481	0.90	0.89	10.4	17.6	1220



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
CC94675		28.8	70.7	<0.002	0.02	1.28	11.3	1	2.6	154.5	0.80	0.05	11.80	0.412	0.57	3.0
CC94676		15.9	67.7	<0.002	0.03	1.18	11.5	1	2.3	135.0	0.94	<0.05	11.90	0.452	0.59	3.0
CC94677		16.4	67.1	<0.002	0.03	1.07	11.0	1	1.9	130.5	0.85	<0.05	12.05	0.401	0.52	2.9
CC94678		18.1	72.2	<0.002	0.03	1.11	10.8	1	2.1	134.0	0.88	<0.05	13.15	0.418	0.62	3.0
CC94679		15.0	62.8	<0.002	0.02	1.18	10.3	1	2.0	144.0	0.82	0.05	10.85	0.404	0.51	2.6
CC94680		15.6	50.8	<0.002	0.01	1.09	8.5	<1	1.4	132.0	0.69	<0.05	8.86	0.360	0.43	2.1
CC94681		28.6	70.3	<0.002	0.01	1.14	9.8	<1	2.9	131.0	0.86	<0.05	11.25	0.392	0.58	2.4
CC94682		15.0	61.9	<0.002	0.02	1.17	9.8	1	1.9	146.0	0.91	<0.05	13.50	0.437	0.49	3.0
CC94683		15.0	64.9	0.002	0.02	1.08	10.3	1	1.9	145.5	0.87	<0.05	10.25	0.405	0.52	2.6
CC94684		11.2	43.2	<0.002	0.01	1.06	7.9	<1	1.2	137.0	0.65	<0.05	8.05	0.336	0.31	1.8
CC94685		14.4	53.9	<0.002	0.01	1.18	10.0	<1	1.5	161.0	0.71	0.06	9.01	0.361	0.44	2.8
CC94686		20.4	73.9	<0.002	0.02	1.05	9.8	1	2.1	128.0	0.81	<0.05	10.50	0.379	0.61	2.6
CC94687		21.9	80.1	<0.002	0.02	1.45	10.4	1	3.0	148.5	0.84	<0.05	12.25	0.391	0.66	2.9
CC94688		17.0	64.0	0.002	0.02	1.13	10.5	1	3.1	146.5	0.80	<0.05	10.90	0.385	0.72	2.9
CC94689		13.4	53.7	<0.002	0.01	1.26	9.4	1	1.5	149.0	0.76	0.05	10.30	0.401	0.39	2.5
CC94690		15.3	69.2	<0.002	0.01	1.13	10.5	1	1.9	151.5	0.88	0.05	11.05	0.424	0.49	2.6
CC94691		26.7	104.5	<0.002	0.02	1.35	13.0	<1	3.0	158.0	1.02	<0.05	17.85	0.458	0.73	3.4
CC94692		17.1	75.2	<0.002	0.01	1.11	11.5	1	2.3	142.5	0.89	0.06	12.70	0.423	0.62	2.7
CC94693		16.1	86.6	<0.002	0.02	1.20	12.1	1	2.4	150.0	0.88	0.07	14.45	0.430	0.68	3.1
CC94694		15.4	62.9	<0.002	0.02	0.98	9.9	1	2.1	132.0	0.90	0.09	11.85	0.431	0.45	2.5
CC94695		25.3	74.4	<0.002	0.01	1.07	11.7	1	2.9	145.5	0.92	<0.05	13.05	0.449	0.59	3.0
CC94696		18.0	67.4	<0.002	0.03	1.02	10.3	1	2.0	139.0	0.81	<0.05	11.20	0.406	0.54	2.4
CC94697		12.1	64.5	<0.002	0.01	1.05	10.1	1	1.9	134.5	0.88	0.05	12.65	0.430	0.51	2.9
CC94698		14.3	83.4	<0.002	0.02	1.19	12.7	1	2.4	162.0	0.96	<0.05	12.95	0.461	0.59	3.3
CC94699		17.9	72.7	<0.002	0.02	1.18	10.3	1	2.1	127.5	0.81	<0.05	10.10	0.401	0.59	2.5
CC94700		16.6	73.1	<0.002	0.02	1.27	12.5	1	2.5	131.0	0.79	0.06	13.60	0.385	0.88	3.1
CC94701		15.3	75.9	<0.002	0.03	1.02	10.9	1	3.0	114.0	0.98	0.05	11.70	0.443	0.64	2.5
CC94702		16.2	92.7	<0.002	0.01	1.04	11.0	1	4.4	108.5	0.91	<0.05	12.60	0.422	0.80	2.6
CC94703		13.5	83.7	<0.002	0.02	1.07	10.5	1	4.8	114.5	1.06	0.05	11.90	0.474	0.80	2.5
CC94704		13.5	69.1	<0.002	0.02	1.02	10.0	1	2.8	128.0	0.85	<0.05	10.05	0.412	0.59	2.4
CC94705		15.5	79.1	<0.002	0.02	0.94	10.1	1	3.8	128.0	0.81	0.05	10.85	0.394	0.62	2.3
CC94706		15.1	89.0	<0.002	0.02	1.04	10.6	1	8.3	130.0	0.93	<0.05	12.65	0.385	1.41	2.2
CC94707		43.4	104.5	<0.002	0.02	0.89	8.8	1	18.0	82.6	0.87	<0.05	14.50	0.372	1.59	2.3
CC94708		14.5	72.7	<0.002	0.02	0.98	10.1	1	3.7	126.0	0.81	0.06	10.00	0.392	0.70	2.2
CC94709		13.1	59.5	<0.002	0.02	0.92	10.0	1	3.5	133.5	0.79	<0.05	9.37	0.394	0.51	2.2
CC94710		12.3	62.8	<0.002	0.02	0.86	9.6	1	2.0	125.0	0.87	<0.05	9.48	0.398	0.49	2.1
CC94711		13.4	92.2	<0.002	0.01	0.79	11.5	1	3.6	126.5	1.00	<0.05	12.20	0.450	0.83	2.5
CC94712		13.5	119.5	<0.002	0.01	0.87	12.5	1	8.3	130.0	1.07	0.06	14.50	0.465	1.06	2.7
CC94713		13.7	79.3	<0.002	0.02	0.87	10.9	1	4.2	143.0	0.85	<0.05	10.25	0.425	0.72	2.5
CC94714		10.8	56.0	<0.002	0.02	1.66	8.1	1	1.6	126.5	0.75	<0.05	9.37	0.388	0.38	2.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
CC94675		113	1.2	14.8	95	78.6
CC94676		117	1.5	13.3	73	85.2
CC94677		103	1.3	14.5	76	75.1
CC94678		109	1.4	13.2	83	81.4
CC94679		103	1.3	14.6	77	70.2
CC94680		89	1.1	12.0	68	58.4
CC94681		100	1.3	12.6	71	77.3
CC94682		98	1.4	15.8	74	81.5
CC94683		111	1.4	13.9	66	74.0
CC94684		77	1.0	12.2	67	59.8
CC94685		94	1.1	16.8	85	60.7
CC94686		105	1.3	10.9	67	72.6
CC94687		102	1.4	14.1	89	79.2
CC94688		100	1.2	20.1	89	66.3
CC94689		100	1.3	13.6	87	70.6
CC94690		117	1.4	13.0	85	78.1
CC94691		119	1.7	17.1	113	96.8
CC94692		118	1.5	12.6	74	78.1
CC94693		111	1.9	16.8	100	88.5
CC94694		107	1.4	12.1	75	79.0
CC94695		112	1.6	16.2	76	87.5
CC94696		107	2.1	11.1	73	75.1
CC94697		98	1.4	15.7	77	82.2
CC94698		125	1.5	16.5	88	94.3
CC94699		105	1.3	12.7	82	80.7
CC94700		112	2.2	16.1	109	75.1
CC94701		110	2.0	10.7	72	80.7
CC94702		103	2.5	11.1	100	72.2
CC94703		104	3.1	11.6	91	75.3
CC94704		111	1.9	11.1	93	66.7
CC94705		106	1.6	11.4	106	67.5
CC94706		99	7.1	13.2	109	63.3
CC94707		81	8.1	9.6	195	57.0
CC94708		104	3.1	11.4	69	66.9
CC94709		105	2.0	11.1	66	66.2
CC94710		102	2.2	10.6	61	67.1
CC94711		107	1.9	11.8	89	75.0
CC94712		108	2.3	13.4	115	76.9
CC94713		114	2.4	12.5	98	68.6
CC94714		87	1.4	10.8	73	63.5



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC94715		0.40	0.014	0.34	6.20	51.1	810	1.63	0.46	0.47	0.51	73.2	7.9	67	13.55	24.3
CC94716		0.46	0.006	0.15	7.41	46.9	860	1.87	0.59	0.32	0.41	88.0	7.3	74	18.00	22.0
CC94717		0.40	0.003	0.22	6.28	79.4	810	1.30	0.96	0.46	0.36	67.3	5.1	71	9.36	21.9
CC94718		0.44	0.006	0.16	6.09	176.5	820	1.30	3.18	0.47	0.30	67.7	6.5	67	5.97	37.9
CC94719		0.46	0.004	0.08	5.76	18.8	800	1.41	0.25	0.71	0.28	88.0	9.2	71	5.60	24.0
CC94720		0.35	0.004	0.06	5.47	26.7	710	1.18	0.26	0.57	0.20	67.0	10.0	65	5.68	21.0
CC94721		0.45	0.007	0.05	5.30	17.1	730	1.29	0.22	0.68	0.17	75.5	8.2	61	3.48	20.4
CC94722		0.49	0.009	0.07	6.06	25.9	840	1.42	0.28	0.67	0.23	77.0	9.8	73	4.83	23.3
CC94723		0.52	0.004	0.12	6.65	12.4	870	1.50	0.26	0.64	0.23	84.8	8.4	74	4.96	29.2
CC94724		0.45	0.006	0.14	5.94	17.9	780	1.35	0.27	0.61	0.23	81.5	9.3	68	5.09	31.2
CC94725		0.44	0.005	0.07	4.95	13.8	670	0.96	0.21	0.65	0.13	68.4	7.6	62	3.27	17.0
CC94726		0.42	0.005	0.08	5.72	13.6	780	1.21	0.22	0.71	0.15	73.2	7.4	71	4.02	20.4
CC94727		0.53	0.004	0.07	6.39	15.5	840	1.48	0.25	0.71	0.24	102.5	12.4	76	5.22	27.6
CC94728		0.49	0.005	0.02	5.21	16.0	780	1.03	0.19	0.72	0.19	67.5	9.7	66	3.01	17.8
CC94729		0.48	0.004	0.13	6.09	17.4	840	1.33	0.24	0.61	0.20	82.6	8.6	64	5.91	23.2
CC94730		0.38	0.005	0.08	4.87	14.6	700	0.98	0.18	0.71	0.10	66.0	7.2	60	2.54	17.0
CC94731		0.40	0.008	0.05	5.27	15.1	810	1.17	0.20	0.77	0.15	79.9	7.6	64	3.37	22.3
CC94732		0.37	0.005	0.08	4.57	12.7	680	1.03	0.14	0.75	0.17	60.8	9.6	53	2.37	18.9
CC94733		0.43	0.006	0.14	5.04	21.5	760	1.11	0.21	0.74	0.33	67.7	8.9	59	5.03	17.7
CC94734		0.42	0.004	0.06	6.10	29.2	790	1.47	0.29	0.54	0.20	76.9	7.9	71	6.45	17.2
CC94735		0.43	0.006	0.06	5.73	39.6	780	1.48	0.47	0.56	0.30	64.9	9.1	67	21.1	16.6
CC94736		0.40	0.005	0.08	6.30	42.8	790	1.52	1.65	0.55	0.33	65.4	11.7	70	19.35	23.1
CC94737		0.48	0.005	0.11	7.59	41.8	900	2.85	2.25	0.48	0.47	98.4	9.4	73	28.1	48.3
CC94738		0.45	<0.001	0.05	6.25	20.9	850	1.81	0.88	0.54	0.47	78.6	9.2	65	21.5	32.0
CC94739		0.38	0.001	0.04	7.24	19.5	890	2.18	0.30	0.43	0.24	89.1	10.9	78	19.10	30.1
CC94740		0.38	0.001	0.06	5.85	16.9	840	1.39	0.34	0.69	0.21	67.9	8.6	70	5.57	19.4
CC94741		0.45	0.002	0.05	5.76	18.7	850	1.34	0.61	0.72	0.16	68.4	8.4	71	5.81	22.8
CC94742		0.48	0.005	0.07	5.77	19.6	830	1.37	0.92	0.78	0.22	73.2	8.1	71	5.66	29.4
CC94743		0.41	<0.001	0.05	4.57	14.9	660	0.97	0.19	0.70	0.20	57.2	7.3	54	2.65	16.1
CC94744		0.41	0.001	0.04	5.38	20.4	790	1.25	0.31	0.64	0.24	62.4	7.8	68	6.25	17.4
CC94745		0.40	0.003	0.09	4.93	26.4	730	1.08	0.33	0.57	0.54	60.8	10.4	65	5.45	18.4
CC94746		0.43	0.001	0.04	5.28	25.1	770	1.15	0.45	0.64	0.88	72.0	8.6	68	3.57	21.0
CC94747		0.42	0.001	0.09	5.89	20.5	740	1.59	5.01	0.51	0.25	65.8	6.2	65	8.97	50.3
CC94748		0.49	0.001	0.04	6.43	28.1	860	1.37	0.73	0.58	0.22	81.9	7.6	72	6.62	23.5
CC94749		0.53	0.001	0.10	5.71	30.2	840	1.36	0.37	0.66	0.52	78.9	8.1	63	3.52	24.9
CC94750		0.45	0.003	0.11	6.29	57.9	900	1.43	0.70	0.62	0.38	82.4	6.8	70	4.23	30.7
CC44552		0.46	0.005	0.28	6.64	21.2	990	1.64	0.29	0.71	0.27	102.5	7.8	71	4.56	25.2
CC44553		0.46	0.002	0.42	5.69	27.8	850	1.28	0.24	0.69	0.35	82.9	8.3	63	3.96	24.5
CC44554		0.44	0.003	0.15	5.63	17.4	760	1.18	0.25	0.61	0.15	76.5	6.2	66	3.80	17.4
CC44555		0.53	0.001	0.07	6.86	12.3	910	1.57	0.25	0.44	0.17	88.6	6.6	71	4.62	23.2



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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Sample Description	Method	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	
	Analyte Units LOD	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC94715		3.20	16.40	0.13	2.2	0.226	1.59	36.6	43.9	0.60	437	1.25	0.76	13.9	21.2	1100
CC94716		3.39	20.9	0.16	2.2	0.338	2.10	43.0	41.7	0.58	396	0.91	0.64	14.9	20.3	820
CC94717		2.97	17.45	0.12	2.3	0.387	1.70	34.1	31.1	0.54	271	1.31	0.74	13.7	15.7	1110
CC94718		3.28	15.35	0.13	2.1	0.881	1.72	33.8	25.5	0.59	342	1.10	0.71	11.2	17.4	560
CC94719		3.46	14.65	0.16	2.4	0.061	1.41	42.8	31.4	0.71	457	1.27	0.93	12.7	23.4	640
CC94720		3.38	13.80	0.13	2.1	0.060	1.23	32.7	29.4	0.64	511	1.12	0.87	11.0	20.8	770
CC94721		3.13	13.05	0.15	2.2	0.047	1.19	36.8	27.0	0.68	384	0.93	0.95	11.4	20.4	660
CC94722		3.76	15.80	0.15	2.2	0.228	1.41	36.9	31.5	0.80	453	1.41	0.97	12.9	23.6	940
CC94723		3.85	16.30	0.16	2.7	0.058	1.72	43.8	32.0	0.81	445	1.34	1.03	13.2	22.8	780
CC94724		3.50	15.30	0.17	2.4	0.063	1.44	42.5	31.3	0.73	444	1.86	0.97	12.2	25.1	700
CC94725		3.08	12.80	0.15	1.9	0.050	1.08	34.6	23.6	0.64	378	1.24	0.88	11.0	17.6	860
CC94726		3.38	14.80	0.16	2.0	0.052	1.23	36.9	26.9	0.73	341	1.43	0.98	11.9	21.0	940
CC94727		3.83	16.15	0.16	2.6	0.068	1.67	51.8	34.6	0.77	581	1.21	1.01	13.6	23.8	840
CC94728		3.26	13.10	0.15	1.9	0.045	1.13	33.6	25.7	0.68	464	1.00	0.98	11.4	20.3	760
CC94729		3.24	16.15	0.16	2.2	0.059	1.63	41.8	31.7	0.70	329	1.09	0.98	12.1	22.1	820
CC94730		2.83	12.35	0.14	1.9	0.038	1.07	33.3	22.4	0.61	347	0.97	0.96	11.8	16.1	950
CC94731		3.02	13.60	0.14	2.0	0.048	1.23	39.8	26.5	0.66	342	1.10	0.98	12.0	19.4	800
CC94732		2.65	11.10	0.15	1.7	0.038	0.98	30.6	21.4	0.57	498	0.88	0.96	9.8	18.9	910
CC94733		2.95	12.65	0.16	2.0	0.041	1.17	33.7	28.8	0.65	458	1.03	0.94	11.2	20.5	860
CC94734		3.42	18.15	0.16	2.3	0.067	1.60	38.0	35.6	0.62	328	1.58	0.88	13.3	18.8	670
CC94735		3.58	15.55	0.14	1.8	0.060	1.35	33.4	44.3	0.64	497	1.16	0.81	12.4	22.0	590
CC94736		3.53	16.20	0.14	1.8	0.146	1.39	34.6	40.1	0.65	623	1.18	0.82	11.7	20.0	1080
CC94737		4.01	20.8	0.18	2.0	0.378	2.07	48.0	59.4	0.71	575	0.74	0.70	17.0	25.4	700
CC94738		3.36	17.50	0.12	1.9	0.151	1.60	40.1	43.8	0.61	446	1.01	0.76	12.9	26.9	700
CC94739		3.87	19.90	0.16	1.9	0.074	1.89	45.9	52.2	0.81	385	0.92	0.84	14.8	26.2	640
CC94740		3.32	15.00	0.15	1.9	0.074	1.29	34.7	32.2	0.73	385	1.12	0.98	12.3	20.5	820
CC94741		3.29	15.20	0.15	1.9	0.058	1.30	34.3	31.7	0.74	373	1.18	1.00	12.3	20.5	840
CC94742		3.26	15.40	0.14	1.9	0.083	1.32	36.0	28.5	0.71	373	1.13	1.06	12.4	19.5	840
CC94743		2.82	10.90	0.13	1.6	0.036	1.02	29.1	21.7	0.58	405	0.85	0.96	9.5	16.1	840
CC94744		3.11	14.45	0.13	1.9	0.086	1.24	31.7	33.2	0.65	362	0.98	0.90	12.2	17.8	890
CC94745		3.70	13.40	0.12	1.6	0.169	1.19	30.3	26.4	0.60	680	1.44	0.82	11.6	19.5	780
CC94746		3.71	13.95	0.13	2.0	0.401	1.24	35.2	27.4	0.63	415	1.05	0.82	11.7	20.2	640
CC94747		3.25	16.45	0.13	1.9	0.156	1.44	33.0	33.0	0.60	288	0.91	0.71	12.3	17.8	700
CC94748		3.03	16.70	0.15	2.1	0.129	1.55	42.0	32.3	0.62	315	1.00	0.86	13.1	20.3	670
CC94749		2.92	14.20	0.16	2.0	0.125	1.41	39.5	26.4	0.63	337	0.84	0.92	11.6	20.4	640
CC94750		2.86	16.30	0.13	2.2	0.575	1.57	41.3	28.1	0.64	280	0.90	0.91	13.3	18.0	610
CC44552		3.57	17.60	0.17	2.7	0.073	1.82	50.9	31.6	0.76	347	1.26	0.96	13.6	21.2	750
CC44553		3.33	14.80	0.18	2.1	0.067	1.46	41.2	28.6	0.67	401	1.10	0.95	11.3	20.8	770
CC44554		3.20	14.95	0.13	2.2	0.053	1.38	39.9	29.0	0.64	290	1.12	0.85	12.0	17.2	830
CC44555		3.50	18.25	0.20	2.5	0.055	1.98	44.7	29.9	0.73	293	1.07	0.80	12.6	17.9	870



ALS Canada Ltd.
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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
CC94715		24.9	98.0	<0.002	0.02	0.91	10.6	1	4.4	113.0	0.82	0.05	9.96	0.393	0.74	2.3
CC94716		55.3	120.0	<0.002	0.02	0.86	11.9	1	7.3	91.5	1.01	0.05	14.00	0.440	1.10	2.6
CC94717		45.2	95.0	<0.002	0.04	1.31	10.6	1	8.8	119.0	0.79	<0.05	8.43	0.396	0.91	2.2
CC94718		94.3	96.1	<0.002	0.02	1.97	9.7	1	14.1	107.5	0.78	0.08	11.05	0.399	0.92	2.4
CC94719		14.8	72.7	<0.002	0.03	1.14	10.6	1	2.2	139.5	0.86	0.05	12.25	0.429	0.56	2.8
CC94720		14.8	63.4	<0.002	0.03	1.08	9.6	1	2.0	119.5	0.78	0.05	10.25	0.392	0.53	2.3
CC94721		13.7	57.7	<0.002	0.02	1.08	9.9	1	1.8	134.5	0.80	<0.05	11.15	0.395	0.47	2.5
CC94722		15.0	70.9	<0.002	0.04	1.24	11.5	1	2.2	137.0	0.89	<0.05	11.40	0.426	0.56	2.7
CC94723		16.0	82.1	<0.002	0.04	1.08	11.6	1	2.5	145.0	0.95	<0.05	14.55	0.457	0.56	3.2
CC94724		24.3	75.7	<0.002	0.03	1.62	11.1	<1	2.5	135.5	0.86	0.05	13.20	0.425	0.56	3.0
CC94725		14.7	56.3	<0.002	0.03	1.07	9.6	<1	1.8	125.5	0.75	<0.05	9.88	0.404	0.45	2.3
CC94726		15.2	65.9	<0.002	0.03	1.15	10.9	1	2.1	139.0	0.78	0.07	10.45	0.424	0.50	2.6
CC94727		18.2	83.7	<0.002	0.03	1.19	11.4	<1	2.8	148.5	0.94	0.05	14.45	0.479	0.58	3.1
CC94728		15.2	59.6	<0.002	0.02	1.27	10.4	1	1.6	138.5	0.75	<0.05	9.40	0.398	0.49	2.4
CC94729		21.1	85.7	<0.002	0.02	1.07	11.2	1	2.9	140.5	0.85	<0.05	12.50	0.403	0.69	2.8
CC94730		14.4	54.2	<0.002	0.02	1.01	9.8	1	1.6	136.0	0.81	<0.05	9.13	0.409	0.42	2.4
CC94731		14.1	65.0	<0.002	0.02	1.12	10.6	<1	1.8	143.0	0.82	0.05	10.60	0.416	0.56	2.6
CC94732		13.4	53.1	<0.002	0.02	1.02	8.7	<1	1.3	138.5	0.67	<0.05	8.05	0.354	0.36	1.9
CC94733		14.8	61.6	<0.002	0.02	1.03	9.3	<1	1.8	137.0	0.74	<0.05	9.45	0.382	0.47	2.3
CC94734		21.7	95.4	<0.002	0.02	1.32	11.6	<1	3.3	141.0	0.86	<0.05	11.05	0.410	0.76	2.7
CC94735		14.0	94.3	<0.002	0.02	1.02	10.1	<1	4.4	117.5	0.82	0.05	9.54	0.419	1.24	2.2
CC94736		30.1	86.1	<0.002	0.02	1.02	10.7	<1	8.4	115.5	0.76	0.05	10.50	0.378	0.84	2.4
CC94737		24.0	134.5	<0.002	0.02	0.83	12.0	1	31.3	90.5	1.13	<0.05	16.25	0.456	1.65	2.8
CC94738		23.6	95.0	<0.002	0.02	0.87	10.4	1	13.0	110.0	0.91	<0.05	12.95	0.408	1.15	2.5
CC94739		14.0	129.5	<0.002	0.02	0.82	13.7	<1	5.2	103.5	1.00	0.05	15.15	0.469	1.42	2.6
CC94740		16.6	73.8	<0.002	0.02	1.18	11.6	<1	3.0	137.0	0.84	<0.05	9.43	0.418	0.73	2.5
CC94741		15.7	74.1	<0.002	0.02	1.16	11.4	1	4.1	139.5	0.82	<0.05	10.25	0.411	0.64	2.5
CC94742		14.0	72.0	<0.002	0.02	1.06	11.1	<1	4.3	146.0	0.80	<0.05	10.05	0.426	0.66	2.5
CC94743		11.7	51.6	<0.002	0.02	0.87	8.3	1	1.5	134.0	0.66	<0.05	7.81	0.355	0.40	1.9
CC94744		13.1	78.9	<0.002	0.02	0.96	10.9	1	2.6	125.0	0.81	<0.05	9.11	0.403	0.63	2.3
CC94745		16.3	65.4	<0.002	0.03	1.19	9.2	<1	2.4	116.0	0.74	<0.05	8.48	0.397	0.57	2.0
CC94746		21.2	64.9	<0.002	0.02	1.38	10.0	<1	2.9	119.5	0.77	<0.05	10.20	0.417	0.61	2.3
CC94747		16.6	82.1	<0.002	0.02	0.98	10.1	<1	15.9	101.0	0.81	<0.05	10.45	0.388	0.82	2.3
CC94748		18.1	84.3	<0.002	0.01	1.53	11.5	<1	3.4	128.0	0.90	<0.05	11.55	0.422	0.82	2.6
CC94749		18.2	72.5	<0.002	0.01	1.20	10.9	1	3.7	134.0	0.81	<0.05	10.45	0.376	0.63	2.4
CC94750		40.4	82.8	<0.002	0.02	1.43	11.9	<1	6.6	138.5	0.92	<0.05	11.25	0.424	0.83	2.7
CC44552		22.4	95.3	<0.002	0.02	1.43	12.5	<1	3.5	149.5	0.95	<0.05	14.95	0.460	0.71	3.3
CC44553		27.3	74.3	<0.002	0.02	1.39	10.7	1	3.4	140.0	0.76	<0.05	12.25	0.395	0.64	2.8
CC44554		19.8	74.9	<0.002	0.02	1.26	10.5	<1	2.7	125.0	0.81	<0.05	12.05	0.409	0.63	2.6
CC44555		16.0	104.0	<0.002	0.03	1.08	12.2	<1	2.8	117.0	0.88	<0.05	14.55	0.430	0.72	3.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
CC94715		100	1.9	11.1	137	83.9
CC94716		101	3.0	9.9	160	80.9
CC94717		113	2.7	9.2	71	85.6
CC94718		103	3.3	9.9	91	75.4
CC94719		111	1.3	12.4	85	84.3
CC94720		104	1.3	10.0	77	68.5
CC94721		100	1.3	12.5	67	73.7
CC94722		121	1.4	12.5	83	77.3
CC94723		117	1.5	14.2	89	91.1
CC94724		107	1.3	13.8	84	84.5
CC94725		102	1.9	11.3	64	68.5
CC94726		118	1.2	12.6	74	72.9
CC94727		113	1.4	14.2	90	91.2
CC94728		109	1.2	12.7	73	67.4
CC94729		103	1.3	12.7	78	79.2
CC94730		100	1.2	12.5	56	69.2
CC94731		107	1.4	14.5	68	73.6
CC94732		87	1.0	11.8	57	61.0
CC94733		98	1.2	12.7	71	68.6
CC94734		120	1.6	11.9	64	81.2
CC94735		111	3.5	10.3	95	64.5
CC94736		109	7.0	11.3	124	64.6
CC94737		95	8.9	14.7	167	71.6
CC94738		96	4.0	13.4	149	64.5
CC94739		112	3.4	13.2	90	72.9
CC94740		119	2.4	12.8	81	69.8
CC94741		115	2.0	13.1	76	69.3
CC94742		113	2.7	13.0	80	71.8
CC94743		90	1.2	10.6	64	58.9
CC94744		110	1.8	11.6	73	68.3
CC94745		110	2.6	10.2	88	63.4
CC94746		112	2.0	11.8	100	73.8
CC94747		100	10.7	10.6	81	72.5
CC94748		110	2.0	12.2	78	76.1
CC94749		103	2.3	15.3	78	70.4
CC94750		111	4.0	14.0	67	78.5
CC44552		121	1.5	15.3	88	99.8
CC44553		106	1.4	13.2	83	75.8
CC44554		108	1.3	11.8	65	80.0
CC44555		110	1.4	11.8	74	90.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC44556		0.43	0.002	0.08	5.79	14.6	770	1.19	0.24	0.57	0.20	73.7	7.4	68	4.24	20.8
CC44557		0.33	<0.001	0.18	6.40	15.5	840	1.50	0.26	0.47	0.21	73.6	7.2	75	5.81	22.6
CC44558		0.51	0.005	0.14	5.63	18.9	870	1.41	0.21	0.77	0.47	104.0	9.2	59	3.73	30.3
CC44559		0.45	0.001	0.09	6.17	16.8	850	1.37	0.24	0.77	0.31	80.7	9.5	73	4.38	24.8
CC44560		0.46	0.001	0.06	6.25	19.3	760	1.47	0.25	0.54	0.17	102.5	9.2	65	5.02	26.7
CC44561		0.48	0.004	0.03	5.89	18.2	790	1.36	0.22	0.69	0.21	74.5	11.1	61	4.70	20.8
CC44562		0.47	0.001	0.06	5.80	20.8	760	1.26	0.25	0.60	0.22	66.8	8.8	64	4.14	19.8
CC44563		0.42	0.001	0.05	5.70	33.1	770	1.30	0.28	0.55	0.23	71.6	8.1	69	5.26	18.8
CC44564		0.37	0.001	0.15	6.03	30.4	780	1.43	0.30	0.52	0.25	83.7	10.3	67	8.06	22.3
CC44565		0.41	0.003	0.16	6.16	96.3	830	1.40	0.95	0.52	0.32	75.5	8.1	69	8.92	30.0
CC44566		0.41	0.002	0.44	5.71	65.7	770	1.40	0.36	0.63	0.41	72.0	10.7	68	6.34	23.4
CC44567		0.48	0.006	0.11	4.89	37.6	680	1.17	0.25	0.64	0.55	77.8	8.3	62	5.69	21.1
CC44568		0.51	0.014	0.13	6.34	28.1	920	1.51	0.33	0.72	0.28	71.0	11.0	76	9.47	33.9
CC44569		0.49	<0.001	0.06	6.24	30.1	810	1.75	0.22	0.48	0.42	87.0	26.6	91	17.45	32.3
CC44570		0.39	0.002	0.03	5.50	20.2	780	1.46	0.21	0.59	0.22	70.2	12.0	64	7.17	24.3
CC91221		0.43	0.001	0.06	6.79	48.1	860	1.65	0.40	0.48	0.27	89.5	9.5	70	12.15	25.0
CC91222		0.36	0.001	0.23	6.59	66.0	800	1.48	0.69	0.45	0.27	74.1	6.5	79	7.45	19.8
CC91223		0.46	0.002	0.23	6.86	55.2	920	1.97	0.82	0.48	0.76	96.6	9.4	67	6.99	36.3
CC91224		0.49	0.004	0.12	5.14	21.8	800	1.40	0.25	0.69	0.37	77.9	7.8	52	3.45	30.1
CC91225		0.42	0.002	0.11	6.27	31.0	830	1.60	0.53	0.48	0.41	70.4	13.8	70	7.95	23.6
CC91226		0.43	0.001	0.15	8.31	32.0	930	2.46	0.54	0.31	0.74	105.0	11.6	77	10.30	37.3
CC91227		0.42	0.007	0.11	5.68	31.6	870	1.58	0.33	0.94	0.60	90.2	16.1	76	7.19	30.8
CC91228		0.41	0.002	0.06	5.71	17.4	860	1.69	0.39	0.85	0.38	83.4	16.0	67	8.80	23.8
CC91229		0.55	0.006	0.07	5.83	18.0	870	1.79	0.29	0.68	0.27	79.4	13.3	60	9.29	32.7
CC91230		0.46	0.004	0.08	5.05	17.4	790	1.21	0.25	0.66	0.14	67.6	9.4	61	3.86	24.8
CC91231		0.43	0.008	0.05	5.75	32.8	750	1.64	1.04	0.55	0.27	69.3	11.5	57	7.54	37.0
CC91232		0.47	0.003	0.32	5.26	46.3	710	1.36	0.68	0.60	0.30	63.2	10.2	61	6.30	40.8
CC91233		0.40	0.004	0.10	5.49	62.4	750	1.62	1.72	0.56	0.41	70.2	10.5	58	12.20	33.6
CC91234		0.42	0.004	0.16	5.93	55.9	710	2.03	2.49	0.49	0.53	66.0	11.9	68	20.2	38.3
CC91235		0.47	0.005	0.08	5.94	38.0	740	2.11	1.14	0.59	0.35	68.7	12.3	66	23.3	22.0
CC91236		0.50	0.010	0.10	5.75	24.0	740	1.80	2.27	0.63	0.34	80.5	9.9	70	8.83	26.2
CC91237		0.41	0.006	0.12	5.20	35.1	700	1.49	1.33	0.58	0.30	63.4	7.4	60	11.95	21.5
CC91238		0.44	0.004	0.06	5.55	21.9	750	1.38	0.97	0.63	0.26	59.3	9.7	66	11.50	21.5
CC91239		0.48	0.002	0.22	6.09	60.1	780	1.89	2.80	0.59	0.35	78.5	13.1	65	16.50	33.9
CC91240		0.43	0.002	0.06	6.08	20.6	800	1.69	1.21	0.63	0.24	71.8	11.2	67	12.15	28.4
CC91241		0.43	0.002	0.05	6.28	15.8	860	1.85	0.89	0.66	0.32	72.4	13.9	68	11.90	36.4
CC91242		0.46	0.009	0.04	5.18	19.6	770	1.40	0.42	0.76	0.34	85.8	11.9	57	6.33	25.4
CC91243		0.53	0.005	0.09	6.50	30.2	860	1.75	0.64	0.80	0.21	69.0	10.0	78	10.55	27.6
CC91244		0.53	0.007	0.20	5.24	39.6	790	1.44	0.91	0.74	0.99	73.1	6.1	61	9.31	27.9
CC91245		0.41	0.008	0.05	4.95	19.4	700	1.21	0.28	0.66	0.30	66.7	9.3	57	3.99	23.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH20190238

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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
CC44556		3.28	14.75	0.15	2.0	0.053	1.49	37.9	28.7	0.67	351	1.19	0.86	11.7	18.2	950
CC44557		3.39	17.85	0.17	2.3	0.067	1.69	37.5	28.0	0.65	329	1.62	0.86	11.6	18.4	1660
CC44558		3.27	14.20	0.16	2.4	0.068	1.45	50.6	29.6	0.67	411	1.17	1.08	11.8	23.6	790
CC44559		3.60	16.05	0.16	2.3	0.050	1.41	41.2	32.3	0.82	422	1.40	1.05	12.4	23.9	980
CC44560		3.58	15.90	0.18	2.3	0.075	1.53	51.4	42.3	0.75	396	1.09	0.99	12.3	22.7	580
CC44561		3.40	14.60	0.07	2.0	0.065	1.35	38.2	28.2	0.73	448	1.05	1.08	11.6	24.2	680
CC44562		3.34	13.65	0.06	2.0	0.048	1.33	33.6	26.8	0.69	411	1.11	0.99	11.2	21.0	680
CC44563		3.50	15.90	0.08	2.1	0.071	1.34	35.8	27.7	0.63	430	1.44	0.83	12.3	20.3	1060
CC44564		3.49	16.10	0.10	2.2	0.069	1.54	41.5	30.5	0.64	464	1.31	0.89	12.8	23.1	800
CC44565		3.37	16.45	0.09	2.1	0.317	1.60	38.2	30.0	0.63	367	1.17	0.87	12.4	19.7	750
CC44566		3.49	14.70	0.11	2.2	0.136	1.35	35.7	30.0	0.66	526	1.09	0.92	13.9	22.5	730
CC44567		3.10	13.40	0.08	2.2	0.082	1.16	38.3	29.6	0.59	430	1.03	0.83	12.5	20.9	810
CC44568		3.68	16.10	0.09	2.0	0.091	1.60	35.5	40.9	0.82	418	1.22	1.00	14.0	30.4	810
CC44569		4.53	15.90	0.08	1.5	0.057	1.54	42.8	52.6	0.75	896	0.84	0.68	20.9	51.4	870
CC44570		3.25	13.90	0.09	1.7	0.047	1.35	34.9	31.5	0.67	542	0.97	0.89	12.0	24.6	640
CC91221		3.53	18.20	0.11	2.3	0.068	1.65	45.0	41.5	0.72	346	1.11	0.80	13.6	27.7	650
CC91222		3.61	20.4	0.06	2.3	0.133	1.63	38.5	31.0	0.62	286	1.40	0.64	13.8	18.9	1180
CC91223		3.02	18.50	0.11	2.4	0.231	1.94	47.4	34.5	0.62	346	0.80	0.81	14.3	24.2	500
CC91224		2.77	12.60	0.11	2.1	0.098	1.29	38.8	26.3	0.59	351	0.79	0.96	11.3	22.7	540
CC91225		3.51	17.90	0.10	2.1	0.178	1.67	35.9	29.1	0.62	705	1.47	0.76	13.5	18.4	1030
CC91226		3.75	22.4	0.12	2.5	0.247	2.32	52.7	44.2	0.62	538	0.99	0.57	16.8	26.1	760
CC91227		3.63	14.00	0.12	2.4	0.110	1.37	43.6	34.0	0.92	1090	1.33	0.88	13.5	31.2	1120
CC91228		3.56	15.00	0.09	1.9	0.072	1.45	41.3	42.6	0.97	1000	1.10	0.82	13.9	30.5	1210
CC91229		3.24	14.20	0.09	1.6	0.053	1.44	41.2	39.6	0.80	521	0.82	0.90	11.7	30.5	740
CC91230		3.04	14.10	0.09	2.1	0.049	1.16	33.1	26.9	0.65	432	1.07	0.92	12.0	22.9	660
CC91231		3.19	14.00	0.11	1.7	0.073	1.32	34.6	34.5	0.62	551	0.85	0.88	10.6	27.2	760
CC91232		3.12	14.50	0.09	1.8	0.193	1.16	32.0	31.2	0.62	396	2.99	0.84	11.6	35.0	830
CC91233		3.24	14.20	0.09	1.8	0.181	1.34	35.1	35.1	0.60	512	0.92	0.83	11.5	21.8	720
CC91234		3.46	16.05	0.09	1.7	0.281	1.36	33.4	33.3	0.60	825	1.08	0.72	12.4	19.9	940
CC91235		3.34	16.80	0.07	1.8	0.113	1.44	33.0	40.3	0.66	737	0.96	0.85	12.1	23.1	710
CC91236		3.30	15.30	0.11	1.9	0.080	1.28	40.6	33.1	0.63	426	1.11	0.82	12.9	21.3	800
CC91237		3.09	15.10	0.10	1.8	0.086	1.19	32.1	33.9	0.58	408	1.18	0.79	11.2	19.5	790
CC91238		3.52	14.75	0.07	1.7	0.132	1.29	29.8	32.3	0.65	700	1.29	0.87	11.1	19.1	700
CC91239		3.41	17.10	0.10	1.7	0.188	1.53	39.8	41.8	0.66	771	0.92	0.83	13.7	23.8	740
CC91240		3.40	16.30	0.08	1.7	0.103	1.35	35.2	42.5	0.69	598	0.95	0.97	12.9	25.9	870
CC91241		3.55	15.80	0.09	1.8	0.142	1.46	35.3	51.4	0.82	736	0.93	0.90	11.0	28.1	790
CC91242		3.15	13.05	0.10	1.8	0.060	1.26	42.5	35.3	0.65	637	0.93	0.93	11.3	26.4	960
CC91243		3.83	17.80	0.10	2.7	0.118	1.40	34.5	40.5	0.87	413	1.43	1.06	13.2	27.5	840
CC91244		3.05	13.75	0.08	1.9	0.146	1.27	36.6	35.5	0.64	343	1.25	0.82	12.5	20.2	810
CC91245		3.04	12.20	0.08	1.9	0.059	1.07	33.5	29.8	0.67	479	0.90	0.86	10.6	24.1	760



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
CC44556		15.1	76.4	<0.002	0.03	1.09	10.5	1	2.3	122.0	0.83	<0.05	11.10	0.399	0.62	2.6
CC44557		25.0	93.3	<0.002	0.08	1.23	12.2	1	2.8	123.0	0.82	0.05	12.15	0.392	0.69	3.2
CC44558		23.2	73.8	<0.002	0.02	1.58	10.8	<1	2.5	153.5	0.80	<0.05	14.60	0.412	0.48	3.4
CC44559		17.0	72.8	<0.002	0.04	1.38	12.0	1	2.2	151.5	0.83	<0.05	11.55	0.427	0.55	2.8
CC44560		18.4	79.9	<0.002	0.03	1.33	11.1	1	3.5	134.5	0.84	<0.05	14.00	0.401	0.58	2.8
CC44561		18.0	67.0	<0.002	0.03	1.23	10.6	1	2.1	152.5	0.77	0.05	11.45	0.389	0.48	2.6
CC44562		18.2	66.4	<0.002	0.03	1.22	10.0	1	1.9	130.5	0.78	<0.05	10.70	0.394	0.49	2.3
CC44563		24.6	76.5	<0.002	0.04	1.30	11.2	<1	2.3	125.0	0.80	0.05	10.75	0.393	0.58	2.6
CC44564		19.3	82.8	<0.002	0.03	1.19	10.6	<1	2.8	121.5	0.86	0.05	12.60	0.410	0.62	2.7
CC44565		45.6	90.9	<0.002	0.02	1.47	11.0	1	5.8	123.5	0.82	<0.05	11.75	0.419	0.67	2.6
CC44566		22.0	72.9	0.002	0.02	1.16	10.7	1	3.2	131.0	0.87	0.05	10.45	0.438	0.63	2.4
CC44567		14.4	63.2	<0.002	0.02	1.13	9.8	<1	2.5	121.5	0.86	<0.05	10.85	0.430	0.56	2.4
CC44568		16.4	83.5	<0.002	0.02	1.14	12.1	1	2.7	148.5	0.85	<0.05	10.30	0.444	0.68	2.6
CC44569		18.6	82.7	<0.002	0.03	0.93	12.0	1	3.1	113.0	1.23	0.05	10.20	0.622	0.54	1.9
CC44570		15.5	69.3	0.002	0.02	1.34	10.3	<1	2.2	127.5	0.76	0.05	10.50	0.391	0.53	2.3
CC91221		14.2	93.3	<0.002	0.02	1.09	12.4	1	2.8	117.5	0.86	0.07	12.40	0.400	0.88	2.9
CC91222		26.5	91.8	0.002	0.04	1.23	12.7	1	4.0	107.5	0.87	0.05	10.05	0.418	0.85	2.6
CC91223		32.3	108.5	<0.002	0.01	1.22	13.2	<1	5.2	125.5	0.91	<0.05	14.65	0.404	0.91	3.1
CC91224		12.6	62.8	<0.002	0.01	1.02	10.5	1	2.1	140.5	0.76	<0.05	10.25	0.377	0.45	2.6
CC91225		20.4	96.0	<0.002	0.02	1.00	11.1	1	3.7	110.5	0.86	<0.05	11.65	0.417	0.86	2.6
CC91226		23.3	128.0	<0.002	0.02	0.97	13.7	<1	4.7	90.5	1.14	0.06	17.70	0.452	1.15	3.0
CC91227		14.7	74.2	<0.002	0.02	1.08	10.6	1	4.4	142.0	0.88	<0.05	13.65	0.477	0.63	2.8
CC91228		14.9	81.7	<0.002	0.02	0.91	10.7	1	4.3	128.0	0.90	0.05	12.00	0.453	0.63	2.3
CC91229		12.2	83.6	<0.002	0.01	1.10	11.0	1	3.1	126.5	0.76	<0.05	10.70	0.386	0.69	2.2
CC91230		14.3	65.3	<0.002	0.01	1.22	10.8	<1	2.0	135.0	0.77	<0.05	10.30	0.392	0.51	2.4
CC91231		13.4	74.7	<0.002	0.02	0.87	9.6	1	5.0	113.0	0.76	<0.05	11.80	0.370	0.55	2.1
CC91232		37.4	66.1	<0.002	0.02	2.70	10.5	1	3.5	124.5	0.73	0.05	9.84	0.372	0.55	2.2
CC91233		17.3	77.3	<0.002	0.02	0.98	9.5	<1	11.4	111.5	0.76	<0.05	11.60	0.373	0.67	2.3
CC91234		18.9	88.0	<0.002	0.02	0.96	9.9	1	20.7	103.0	0.80	<0.05	11.65	0.367	1.11	2.3
CC91235		18.8	93.6	<0.002	0.02	0.85	10.4	<1	6.6	122.0	0.78	<0.05	10.25	0.390	0.85	2.2
CC91236		15.0	78.7	<0.002	0.02	1.14	10.8	<1	6.3	123.0	0.82	<0.05	11.60	0.424	0.93	3.5
CC91237		15.1	76.9	<0.002	0.03	0.93	9.6	1	4.7	119.5	0.76	0.06	10.05	0.369	0.61	2.2
CC91238		15.8	74.1	<0.002	0.02	0.90	9.2	<1	7.4	120.5	0.72	<0.05	9.12	0.400	0.60	2.0
CC91239		31.3	99.5	<0.002	0.02	1.05	11.1	1	11.4	118.5	0.89	<0.05	12.25	0.403	0.97	2.4
CC91240		14.8	85.0	<0.002	0.02	0.93	10.9	1	8.0	127.5	0.83	0.05	11.60	0.397	0.81	2.3
CC91241		14.2	93.6	<0.002	0.03	0.98	10.6	1	11.2	124.5	0.74	<0.05	11.55	0.381	0.83	2.3
CC91242		14.4	73.8	0.002	0.01	1.06	9.8	1	2.9	136.5	0.78	0.05	12.40	0.388	0.53	2.2
CC91243		21.5	85.7	<0.002	0.02	1.14	12.8	1	4.6	154.0	0.85	0.05	11.25	0.437	0.77	2.7
CC91244		14.9	76.2	<0.002	0.03	0.77	9.4	<1	3.6	125.0	0.80	<0.05	11.10	0.415	0.65	2.3
CC91245		13.6	58.7	<0.002	0.02	1.03	9.4	1	2.0	125.0	0.72	<0.05	9.39	0.372	0.44	2.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
CC44556		106	1.3	11.8	72	73.6
CC44557		116	1.4	11.1	76	85.9
CC44558		98	1.1	17.3	85	89.2
CC44559		117	1.3	14.3	84	80.4
CC44560		102	1.2	11.9	78	83.8
CC44561		102	1.1	12.9	71	73.7
CC44562		105	1.1	10.7	74	71.6
CC44563		116	1.3	11.8	74	74.4
CC44564		105	1.4	11.4	94	78.4
CC44565		112	2.5	10.7	84	75.0
CC44566		104	1.7	11.9	117	75.1
CC44567		94	2.1	12.9	98	73.2
CC44568		114	1.8	13.9	113	68.8
CC44569		97	1.4	12.0	138	52.7
CC44570		95	1.6	12.4	85	66.0
CC91221		107	1.7	13.3	106	83.2
CC91222		128	2.2	11.0	87	84.4
CC91223		99	2.8	14.7	140	84.8
CC91224		90	1.3	17.3	82	70.2
CC91225		110	2.3	10.7	103	77.0
CC91226		100	4.6	13.1	159	84.7
CC91227		121	2.6	15.8	201	79.4
CC91228		101	2.4	15.5	130	66.4
CC91229		95	1.9	14.1	90	64.8
CC91230		106	1.4	14.4	68	67.6
CC91231		86	3.3	11.1	96	58.3
CC91232		97	2.1	12.2	98	64.8
CC91233		90	4.1	12.1	117	61.1
CC91234		95	7.9	10.9	160	59.6
CC91235		101	6.5	10.5	110	63.8
CC91236		108	7.0	13.5	94	67.4
CC91237		101	6.1	10.2	87	61.2
CC91238		107	9.2	10.0	101	60.5
CC91239		95	13.4	13.4	123	60.5
CC91240		99	3.9	12.3	102	60.8
CC91241		96	3.5	13.1	116	62.5
CC91242		92	2.3	14.9	87	62.9
CC91243		127	2.4	13.9	103	77.1
CC91244		99	2.8	12.3	123	69.6
CC91245		93	1.4	12.2	81	65.9



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
 1016-510 W HASTINGS ST
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 Finalized Date: 18-OCT-2020
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CERTIFICATE OF ANALYSIS WH20190238

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC91246		0.42	0.007	0.07	4.81	21.8	720	1.20	0.30	0.71	0.47	66.3	11.5	56	3.55	23.3
CC91247		0.46	0.003	0.16	5.45	40.6	800	1.44	0.62	0.52	0.46	67.6	8.5	65	7.33	24.6
CC91248		0.44	0.017	0.08	4.89	24.2	670	1.29	0.54	0.49	0.37	67.2	6.8	61	6.16	18.6
CC91249		0.48	0.006	0.13	6.50	27.9	910	2.00	1.46	0.60	0.50	83.5	10.5	68	9.78	42.3
CC91250		0.45	0.012	0.07	5.89	18.8	850	1.62	0.37	0.63	0.29	75.8	12.1	65	9.12	29.5
ZZ106175		0.36	0.005	0.09	5.82	23.8	890	1.68	0.30	0.84	0.52	66.8	12.7	66	3.88	24.0
ZZ106176		0.53	0.004	0.09	5.97	30.4	820	1.88	0.70	0.58	0.78	89.7	10.5	64	6.30	30.1
ZZ106177		0.39	0.004	0.10	5.83	26.4	860	1.62	0.59	0.74	0.44	85.2	11.2	69	4.44	28.8
ZZ106178		0.39	0.003	0.21	4.65	60.3	680	1.19	3.52	0.63	0.52	66.9	6.7	57	2.97	20.1
ZZ106179		0.36	0.004	0.19	5.28	78.5	740	1.43	1.82	0.59	0.48	75.5	7.5	63	4.85	24.6
ZZ106180		0.38	0.005	0.09	5.35	18.1	890	1.59	0.28	0.69	0.17	94.9	12.2	60	4.72	28.7
ZZ106181		0.40	0.008	0.03	4.42	15.5	640	1.17	0.16	0.71	0.19	71.2	10.1	51	2.20	17.6
ZZ106182		0.41	0.010	0.12	6.22	20.0	830	1.66	0.25	0.71	0.21	87.9	11.1	68	5.13	23.1
ZZ106183		0.42	0.006	0.09	6.78	58.8	910	2.25	1.32	0.71	0.27	104.0	14.8	71	6.76	40.4
ZZ106184		0.44	0.003	0.07	6.39	28.9	770	1.77	0.34	0.54	0.24	91.6	9.0	65	9.82	26.5
ZZ106185		0.41	0.020	0.08	5.06	19.1	720	1.49	0.21	0.81	0.34	123.5	13.4	68	3.93	31.4
ZZ106186		0.40	0.002	0.09	5.70	28.3	800	1.42	0.29	0.65	0.24	83.1	14.5	68	4.96	17.0
ZZ106187		0.41	0.003	0.05	6.54	32.0	880	2.13	0.36	0.56	0.29	108.0	12.6	69	6.93	24.9
ZZ106188		0.39	0.001	0.07	6.18	37.8	790	1.47	0.36	0.49	0.07	90.0	4.7	70	6.53	10.9
ZZ106189		0.40	0.005	0.08	6.58	31.2	900	1.77	2.03	0.49	0.26	85.8	10.9	74	6.60	20.1
ZZ106190		0.42	0.002	0.10	7.93	40.2	910	2.24	2.21	0.51	0.32	115.0	16.2	77	7.23	50.4
ZZ106191		0.37	0.003	0.14	6.28	22.4	770	1.58	1.19	0.56	0.15	77.6	11.4	70	7.36	21.9
ZZ106192		0.40	0.001	0.16	5.53	23.6	750	1.42	1.30	0.61	0.25	82.9	9.9	61	5.89	28.7
ZZ106193		0.41	0.010	0.13	5.78	14.3	870	1.62	0.25	0.77	0.20	92.3	13.6	61	4.99	37.9
ZZ106194		0.50	0.003	0.29	5.17	36.3	730	1.55	0.38	0.65	0.35	85.0	11.6	62	10.45	21.4
ZZ106195		0.44	0.005	0.12	5.38	29.2	740	1.35	0.53	0.64	0.38	85.0	10.1	63	6.84	25.2
ZZ106196		0.40	0.007	0.09	5.34	28.9	760	1.28	0.47	0.65	0.45	77.4	8.1	65	6.22	20.8
ZZ106197		0.40	0.005	0.15	5.48	25.4	760	1.25	0.37	0.73	0.38	77.8	9.3	65	5.12	22.8
ZZ106198		0.44	0.010	0.25	5.74	24.8	890	1.33	0.42	0.80	0.88	84.4	10.7	69	4.96	28.6
ZZ106199		0.43	0.005	0.17	5.24	39.3	730	1.24	0.47	0.74	0.63	93.4	7.8	71	4.20	23.8
ZZ106200		0.36	0.002	0.23	6.28	37.2	850	1.54	0.69	0.76	0.79	68.2	8.3	74	5.32	28.6
ZZ106201		0.44	0.004	0.47	6.82	69.1	940	1.96	0.93	0.85	2.36	103.5	14.2	74	9.72	40.9
ZZ106202		0.39	0.002	0.08	5.24	18.6	710	1.31	0.34	0.60	0.31	59.4	9.5	63	4.19	17.7
ZZ106203		0.42	0.004	0.18	6.17	30.9	810	1.52	0.43	0.72	0.53	73.1	13.0	67	8.73	26.1
ZZ106204		0.39	0.005	0.06	5.55	25.6	710	1.31	0.33	0.60	0.56	72.0	12.4	61	3.94	22.4
ZZ106205		0.37	0.006	0.13	5.53	28.9	770	1.38	0.36	0.71	0.49	77.7	11.7	62	4.35	23.6
ZZ106206		0.42	0.002	0.09	5.48	20.2	790	1.34	0.45	0.71	0.56	80.0	11.2	67	5.29	19.8
ZZ106207		0.45	0.005	0.18	5.72	28.1	810	1.50	0.67	0.73	0.49	72.5	11.8	63	5.05	38.6
ZZ106208		0.42	0.002	0.10	5.18	19.7	760	1.31	1.08	0.60	0.32	61.1	6.8	62	5.46	24.5
ZZ106209		0.44	0.005	0.11	4.60	18.4	690	1.21	0.29	0.76	0.31	71.6	9.4	53	2.58	30.7



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CERTIFICATE OF ANALYSIS WH20190238

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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC91246		2.95	11.30	0.10	1.7	0.091	1.13	33.6	26.4	0.60	700	0.89	0.88	10.9	22.7	780
CC91247		3.19	15.35	0.12	2.1	0.136	1.38	33.9	28.9	0.61	420	1.91	0.80	12.2	21.2	840
CC91248		3.36	14.00	0.14	2.1	0.082	1.20	34.1	28.5	0.56	299	1.19	0.72	11.7	18.5	710
CC91249		3.37	17.20	0.18	2.3	0.159	1.73	42.5	39.0	0.72	422	1.07	0.88	13.6	27.3	610
CC91250		3.32	14.85	0.14	2.1	0.057	1.32	38.3	37.0	0.69	489	1.04	0.91	11.8	28.4	700
ZZ106175		3.17	14.20	0.15	2.0	0.052	1.28	34.3	27.8	0.73	545	1.11	1.15	10.8	23.4	1010
ZZ106176		3.06	15.95	0.15	2.3	0.078	1.45	45.6	32.6	0.64	377	1.10	0.86	12.5	25.1	650
ZZ106177		3.17	15.30	0.15	2.4	0.062	1.40	43.2	29.9	0.72	481	1.35	0.98	12.7	25.3	820
ZZ106178		2.86	12.30	0.15	2.2	0.206	1.08	33.9	21.4	0.55	340	1.19	0.85	12.2	17.7	880
ZZ106179		2.96	15.50	0.14	2.3	0.668	1.34	38.0	24.7	0.57	344	1.44	0.80	12.7	20.5	730
ZZ106180		2.90	14.35	0.17	2.1	0.055	1.30	46.5	29.4	0.62	448	1.04	0.92	11.9	23.9	670
ZZ106181		2.78	10.70	0.14	2.0	0.038	1.01	35.4	22.4	0.58	507	0.79	0.90	10.3	21.9	770
ZZ106182		3.34	17.10	0.18	2.6	0.067	1.51	44.9	33.3	0.74	479	1.27	1.02	13.9	23.2	890
ZZ106183		3.70	18.30	0.17	2.6	0.175	1.77	51.7	37.6	0.77	446	1.25	1.06	14.0	32.8	680
ZZ106184		3.39	16.70	0.14	2.6	0.059	1.68	46.9	39.4	0.70	359	1.07	0.97	13.1	27.4	600
ZZ106185		3.18	12.95	0.16	2.8	0.054	1.24	61.2	26.5	0.62	720	1.07	0.94	13.7	29.1	990
ZZ106186		3.23	15.60	0.14	2.4	0.050	1.40	41.1	30.5	0.65	615	1.38	0.93	12.6	19.9	820
ZZ106187		3.41	17.85	0.18	2.7	0.070	1.89	53.8	41.2	0.73	513	1.24	0.90	13.6	25.3	700
ZZ106188		2.90	19.60	0.14	2.5	0.088	1.70	45.6	29.8	0.57	227	1.31	0.77	15.6	14.4	670
ZZ106189		3.31	18.90	0.15	2.5	0.076	1.75	43.4	35.8	0.65	490	1.44	0.80	15.7	18.8	780
ZZ106190		3.88	20.2	0.18	2.8	0.105	2.18	54.7	38.0	0.68	602	1.47	0.83	15.0	25.4	730
ZZ106191		3.08	18.05	0.15	2.3	0.065	1.49	40.5	29.7	0.59	572	1.51	0.84	13.7	15.2	1140
ZZ106192		3.04	14.45	0.15	2.2	0.053	1.41	40.8	29.2	0.59	515	1.13	0.85	12.4	20.7	730
ZZ106193		3.10	15.20	0.15	2.2	0.050	1.42	45.1	32.2	0.71	521	1.15	1.01	12.2	32.8	650
ZZ106194		3.00	13.80	0.15	2.1	0.069	1.22	43.3	40.0	0.61	662	0.94	0.88	11.8	22.0	830
ZZ106195		3.14	14.40	0.17	2.2	0.067	1.26	42.7	29.7	0.62	441	1.10	0.92	12.5	20.5	840
ZZ106196		3.04	14.65	0.14	2.1	0.075	1.24	38.7	29.3	0.60	373	1.06	0.95	12.7	18.7	770
ZZ106197		3.06	13.55	0.15	2.3	0.077	1.22	39.5	26.2	0.67	401	1.09	1.00	11.6	20.0	870
ZZ106198		3.33	14.40	0.14	2.4	0.067	1.30	40.9	29.2	0.73	483	1.02	1.08	13.1	27.1	780
ZZ106199		3.26	14.05	0.15	2.5	0.075	1.17	46.1	24.2	0.66	358	1.28	0.92	12.7	22.2	900
ZZ106200		3.43	16.00	0.14	2.1	0.089	1.45	33.7	28.1	0.79	357	1.26	1.05	12.0	24.2	800
ZZ106201		3.70	18.45	0.15	2.6	0.123	1.81	53.1	37.0	0.71	630	1.18	0.97	14.8	35.9	760
ZZ106202		3.13	14.25	0.13	1.9	0.047	1.13	30.6	25.9	0.60	487	1.40	0.86	11.5	19.6	860
ZZ106203		3.47	15.85	0.15	2.2	0.094	1.47	36.4	31.3	0.77	583	1.26	0.98	11.8	27.0	930
ZZ106204		3.35	13.20	0.13	1.9	0.079	1.16	36.3	28.1	0.62	597	1.15	0.86	11.2	21.2	850
ZZ106205		3.10	13.35	0.12	2.0	0.078	1.23	38.6	27.1	0.66	584	1.15	0.93	11.8	22.2	860
ZZ106206		3.23	14.60	0.13	2.1	0.086	1.31	40.1	31.4	0.67	476	1.25	0.91	13.2	22.2	760
ZZ106207		3.22	13.15	0.13	1.8	0.108	1.35	34.9	33.0	0.71	617	0.97	0.95	12.5	26.5	800
ZZ106208		2.91	13.35	0.12	1.7	0.107	1.27	30.9	27.3	0.61	371	0.97	0.83	12.4	17.8	690
ZZ106209		2.72	10.55	0.13	1.6	0.051	1.04	36.3	20.8	0.60	510	0.74	0.97	11.3	23.6	840



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
CC91246		12.8	58.8	<0.002	0.02	1.06	8.7	1	2.1	128.0	0.75	0.05	9.79	0.385	0.42	2.1
CC91247		18.4	81.5	<0.002	0.03	1.54	10.4	1	3.6	112.0	0.84	<0.05	10.30	0.396	0.68	2.4
CC91248		16.7	64.5	<0.002	0.03	1.21	9.9	1	2.8	102.0	0.80	<0.05	10.75	0.380	0.57	2.4
CC91249		22.9	96.3	<0.002	0.02	1.17	12.1	1	6.7	128.5	0.98	<0.05	12.30	0.441	0.89	2.7
CC91250		15.2	69.7	0.002	0.02	1.29	11.5	2	2.4	132.0	0.89	0.05	11.25	0.386	0.61	2.5
ZZ106175		14.5	62.5	<0.002	0.02	1.24	11.6	1	1.8	162.0	0.78	0.06	9.37	0.371	0.57	2.6
ZZ106176		14.7	77.3	<0.002	0.02	1.16	11.7	1	3.4	120.5	0.85	<0.05	12.95	0.390	0.90	2.8
ZZ106177		14.6	73.2	<0.002	0.02	1.36	12.1	<1	2.7	143.0	0.84	<0.05	12.05	0.428	0.74	2.8
ZZ106178		27.0	55.5	<0.002	0.03	1.51	9.2	1	3.9	119.0	1.29	<0.05	9.63	0.401	0.50	2.3
ZZ106179		39.5	78.8	<0.002	0.03	1.85	10.5	1	7.8	122.5	0.97	<0.05	12.00	0.409	0.76	2.8
ZZ106180		13.4	67.5	<0.002	0.02	1.27	11.8	1	2.0	137.5	0.84	0.05	12.50	0.371	0.64	3.0
ZZ106181		12.4	47.2	<0.002	0.01	1.12	8.9	1	1.3	125.0	0.72	<0.05	10.05	0.372	0.35	2.2
ZZ106182		15.6	82.8	<0.002	0.02	1.19	12.7	1	2.4	148.5	0.97	<0.05	13.00	0.454	0.62	3.1
ZZ106183		19.5	94.7	<0.002	0.02	1.36	13.4	1	3.5	155.5	1.00	<0.05	15.70	0.434	0.70	3.3
ZZ106184		16.0	87.9	<0.002	0.03	1.08	11.4	1	2.7	131.0	0.95	<0.05	15.10	0.433	0.65	2.9
ZZ106185		13.7	62.1	<0.002	0.01	1.39	10.8	1	1.9	143.0	1.02	<0.05	16.35	0.505	0.52	3.4
ZZ106186		16.8	74.1	<0.002	0.02	1.17	11.1	1	3.0	136.0	0.86	<0.05	11.80	0.413	0.73	2.7
ZZ106187		19.1	100.5	<0.002	0.03	1.32	12.5	1	4.2	135.5	0.95	<0.05	16.40	0.412	0.92	3.3
ZZ106188		25.4	96.0	0.002	0.02	1.15	12.0	1	7.4	131.5	1.04	<0.05	11.65	0.445	0.86	2.6
ZZ106189		18.1	98.1	0.002	0.02	1.22	12.3	1	6.7	124.5	1.11	0.05	13.65	0.451	0.92	2.9
ZZ106190		17.0	110.5	0.002	0.02	1.37	13.5	1	7.1	134.0	1.04	<0.05	17.50	0.473	1.03	3.3
ZZ106191		17.7	85.0	<0.002	0.02	0.97	12.1	1	4.3	123.5	0.94	<0.05	11.35	0.434	0.74	2.7
ZZ106192		14.3	74.7	<0.002	0.02	1.01	10.0	1	3.5	124.5	0.85	<0.05	12.50	0.401	0.63	2.7
ZZ106193		13.8	73.8	<0.002	0.01	1.30	12.0	1	2.1	152.5	0.82	<0.05	12.65	0.388	0.61	2.6
ZZ106194		15.3	64.6	<0.002	0.03	1.00	10.4	1	2.2	126.5	0.81	<0.05	11.40	0.411	0.54	2.6
ZZ106195		15.4	67.7	<0.002	0.02	1.06	10.6	1	3.4	129.0	0.90	0.06	12.10	0.422	0.69	2.8
ZZ106196		15.8	65.3	<0.002	0.01	1.10	10.5	1	3.1	131.5	0.87	<0.05	11.15	0.425	0.68	2.7
ZZ106197		16.4	61.8	<0.002	0.02	1.16	10.5	1	2.7	139.5	0.79	0.05	10.70	0.429	0.54	2.6
ZZ106198		16.2	66.7	<0.002	0.01	1.24	12.0	2	2.2	155.5	0.88	<0.05	11.55	0.463	0.59	3.1
ZZ106199		23.3	58.4	<0.002	0.03	1.26	11.5	1	2.6	132.5	0.89	<0.05	13.30	0.466	0.66	3.0
ZZ106200		15.3	71.7	<0.002	0.04	1.24	12.1	2	3.1	150.0	0.81	<0.05	9.96	0.413	0.75	2.7
ZZ106201		20.5	103.0	<0.002	0.02	1.42	14.2	1	6.2	158.0	1.06	<0.05	14.25	0.464	1.09	3.7
ZZ106202		14.3	58.4	<0.002	0.03	1.18	10.1	1	1.9	118.5	0.76	<0.05	9.04	0.379	0.51	2.2
ZZ106203		20.7	79.0	<0.002	0.03	1.25	11.6	1	3.7	143.0	0.80	0.05	11.00	0.397	0.72	2.5
ZZ106204		17.6	61.5	<0.002	0.02	1.26	10.5	1	2.8	119.5	0.75	<0.05	11.50	0.375	0.48	2.4
ZZ106205		16.1	63.4	<0.002	0.02	1.18	10.6	1	3.0	134.0	0.84	<0.05	11.05	0.388	0.60	2.6
ZZ106206		14.8	72.7	<0.002	0.02	1.14	11.1	1	3.2	129.5	0.93	<0.05	11.30	0.448	0.63	2.5
ZZ106207		15.1	71.5	<0.002	0.01	1.01	10.2	2	3.3	135.5	1.02	<0.05	10.10	0.406	0.63	2.3
ZZ106208		14.0	74.8	<0.002	0.02	0.86	9.3	1	4.8	115.5	0.70	<0.05	8.50	0.395	0.59	1.9
ZZ106209		12.8	51.1	<0.002	0.01	0.96	8.8	1	1.8	137.5	0.64	<0.05	8.83	0.371	0.40	2.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
CC91246		89	1.5	12.1	92	58.3
CC91247		112	2.2	10.4	105	69.4
CC91248		98	2.0	10.2	76	68.0
CC91249		108	3.6	12.6	130	75.5
CC91250		106	2.0	12.4	85	70.9
ZZ106175		106	1.4	14.7	94	69.3
ZZ106176		102	3.2	14.8	115	75.2
ZZ106177		113	2.4	15.5	103	79.2
ZZ106178		98	2.3	10.9	67	67.1
ZZ106179		105	3.5	12.0	85	79.6
ZZ106180		97	1.7	17.1	79	73.3
ZZ106181		86	1.3	12.1	75	61.8
ZZ106182		113	1.5	15.6	80	89.9
ZZ106183		112	1.7	15.0	95	89.1
ZZ106184		97	2.0	11.4	82	87.2
ZZ106185		97	2.1	17.4	93	92.2
ZZ106186		107	1.5	13.0	66	80.3
ZZ106187		103	1.7	14.1	85	91.2
ZZ106188		115	2.1	11.4	44	86.2
ZZ106189		113	2.8	12.1	66	86.6
ZZ106190		118	3.7	13.6	100	95.2
ZZ106191		116	2.6	11.6	59	76.3
ZZ106192		98	2.0	12.2	68	71.4
ZZ106193		105	1.3	14.5	86	72.6
ZZ106194		96	1.6	14.3	94	74.4
ZZ106195		100	2.1	12.5	90	75.0
ZZ106196		105	2.0	11.9	92	73.4
ZZ106197		104	1.7	12.6	92	72.4
ZZ106198		109	1.8	16.3	113	78.3
ZZ106199		112	2.6	14.5	83	84.7
ZZ106200		118	2.0	12.7	102	72.6
ZZ106201		117	3.7	16.4	224	88.8
ZZ106202		109	1.4	10.3	86	67.2
ZZ106203		106	1.9	12.1	126	71.9
ZZ106204		96	1.7	12.0	96	65.1
ZZ106205		99	2.2	12.6	104	66.4
ZZ106206		104	1.9	13.1	116	74.6
ZZ106207		100	2.2	13.9	134	67.9
ZZ106208		103	3.0	11.3	88	65.6
ZZ106209		87	2.2	14.6	83	65.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ106210		0.39	0.002	0.13	4.80	14.7	710	1.08	0.14	0.76	0.20	61.8	9.8	49	1.80	24.2
ZZ106211		0.41	0.009	0.05	4.41	15.5	610	1.12	0.30	0.65	0.27	54.6	10.1	47	2.25	18.4
ZZ106212		0.44	0.003	0.12	5.64	12.7	1070	1.36	0.28	0.84	0.27	69.1	9.5	59	2.70	30.1
ZZ106213		0.48	0.004	0.07	5.80	15.9	890	1.69	0.92	0.63	0.32	75.8	9.9	61	6.31	42.5
CC89064		0.54	0.002	0.25	7.73	70.2	1030	2.00	1.00	0.46	0.83	124.0	9.4	76	8.32	40.1
CC89065		0.51	0.003	0.21	7.23	51.2	950	1.75	1.05	0.51	0.41	91.3	6.8	76	6.03	28.6
CC89066		0.44	0.002	0.11	7.62	14.2	970	1.78	0.30	0.52	0.23	78.8	9.2	82	10.35	20.9
CC89067		0.44	0.002	0.09	6.05	14.4	820	1.37	0.24	0.64	0.15	71.4	9.5	71	5.70	19.5
CC89068		0.42	0.001	0.18	5.80	16.9	750	1.84	0.26	0.64	0.23	68.9	13.8	67	10.10	22.5
CC89069		0.41	0.014	0.03	4.99	16.9	690	1.12	0.19	0.66	0.14	65.0	7.4	59	3.45	17.3
CC89070		0.39	0.008	0.06	5.53	17.7	750	1.26	0.21	0.70	0.18	69.7	10.7	67	3.96	18.6
CC89071		0.39	0.003	0.05	5.15	18.6	730	1.26	0.21	0.68	0.13	72.1	9.1	60	3.03	24.7
CC89072		0.48	0.007	0.08	5.51	18.7	820	1.29	0.22	0.68	0.22	77.3	10.0	63	3.66	28.5
CC89073		0.37	0.003	0.09	6.01	18.8	870	1.33	0.25	0.67	0.16	72.9	9.3	67	4.75	24.3
CC89074		0.43	0.010	0.37	5.60	25.7	770	1.57	0.21	0.58	0.32	94.8	10.8	61	6.70	24.1
CC89075		0.42	0.007	0.04	5.35	18.8	760	1.24	0.24	0.56	0.13	72.9	5.8	63	4.96	13.3
CC89076		0.41	0.012	0.07	6.42	26.3	880	1.71	0.27	0.56	0.20	85.4	9.8	68	5.45	22.1
CC89077		0.38	0.002	0.21	6.24	26.3	880	1.59	1.76	0.74	0.27	64.9	7.2	72	9.27	30.8
CC89078		0.52	0.007	0.06	6.28	23.0	850	1.72	1.12	0.67	0.25	70.6	9.7	69	13.05	26.0
CC89079		0.42	0.008	0.06	5.16	18.1	720	1.52	1.22	0.59	0.38	66.5	12.8	57	5.08	26.5
CC89080		0.37	0.007	0.16	5.46	13.3	770	1.32	0.49	0.53	0.25	63.1	21.3	62	6.05	17.8
CC89081		0.46	0.007	0.09	5.81	16.5	860	1.44	0.78	0.53	1.51	73.4	7.3	64	6.85	25.9
CC89082		0.48	0.003	0.07	6.17	21.9	820	1.85	1.53	0.55	0.19	66.5	8.9	67	8.18	41.2
CC89083		0.41	0.002	0.06	5.55	18.9	780	1.38	1.23	0.70	0.13	66.3	6.9	72	7.51	26.0
CC89084		0.39	0.004	0.05	4.81	16.6	710	1.12	0.22	0.82	0.18	66.8	9.6	58	2.38	20.4
CC89085		0.43	0.003	0.21	6.22	35.9	830	1.70	0.87	0.74	0.48	70.4	12.3	68	7.68	61.9
CC89086		0.37	0.002	0.07	4.80	20.6	720	1.20	0.30	0.65	0.64	59.9	21.7	62	3.65	20.4
CC89087		0.36	0.002	0.06	6.44	32.1	920	1.73	0.88	0.61	0.36	91.0	8.5	73	12.70	27.8
CC89088		0.42	0.003	0.06	6.05	33.6	850	1.46	0.79	0.60	0.32	66.4	8.8	71	9.09	26.0
CC89089		0.35	0.006	0.12	5.32	19.6	720	1.11	0.31	0.63	0.32	63.8	7.3	68	4.14	16.6
CC89090		0.44	0.004	0.13	5.99	21.2	830	1.42	0.45	0.64	0.50	66.6	11.5	72	4.68	22.1
CC89091		0.48	0.002	0.05	5.17	19.1	720	1.04	0.27	0.57	0.35	61.4	7.1	64	3.34	12.6
CC89092		0.44	0.003	0.10	6.74	25.7	860	1.94	0.71	0.54	0.48	83.1	14.9	72	20.6	32.7
CC89093		0.40	0.001	0.05	4.95	18.1	690	0.96	0.33	0.54	0.33	52.5	7.5	70	3.23	13.8
CC89094		0.40	0.001	0.03	4.42	16.2	610	0.98	0.20	0.58	0.24	55.1	6.5	52	2.09	12.0
CC89095		0.48	0.008	0.58	5.28	83.5	800	1.36	0.78	0.77	0.92	79.2	10.1	68	3.44	29.6
CC89096		0.47	0.012	0.42	5.49	120.5	780	1.23	0.99	0.66	0.85	69.2	9.0	68	4.12	33.0
CC89097		0.44	0.007	0.32	5.10	59.9	760	1.31	0.89	0.76	0.92	99.9	8.9	61	4.46	38.4
CC89098		0.45	0.006	0.10	5.22	29.7	720	1.25	0.52	0.62	0.38	77.9	9.1	62	4.40	22.8
CC113902		0.41	0.002	0.07	5.29	15.9	700	1.29	0.22	0.62	0.21	72.2	9.5	61	3.84	19.9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 VANCOUVER BC V6B 1L8

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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ106210		2.75	10.35	0.12	1.5	0.042	1.08	30.5	20.2	0.63	417	0.67	1.04	10.1	23.9	810
ZZ106211		2.51	9.31	0.13	1.4	0.053	0.94	27.4	20.1	0.53	617	0.73	0.85	9.8	21.4	910
ZZ106212		3.03	13.05	0.15	2.0	0.051	1.30	34.2	25.2	0.73	391	1.00	1.15	12.4	26.9	600
ZZ106213		3.18	13.55	0.12	1.8	0.103	1.35	36.5	33.1	0.68	451	0.98	0.91	11.7	27.8	760
CC89064		2.92	21.9	0.17	3.3	0.199	2.26	63.7	39.1	0.56	325	0.96	0.81	18.9	21.4	450
CC89065		3.00	18.70	0.15	2.7	0.115	1.89	46.5	31.2	0.61	266	1.09	0.84	15.8	20.6	610
CC89066		3.72	20.0	0.13	2.2	0.063	1.88	40.3	40.0	0.81	285	1.18	0.86	15.1	32.2	790
CC89067		3.36	15.30	0.14	2.2	0.048	1.46	35.6	33.7	0.74	394	1.11	0.96	13.4	23.1	770
CC89068		3.26	14.50	0.14	1.8	0.055	1.33	36.2	36.6	0.72	572	1.14	0.96	12.3	21.6	840
CC89069		2.93	12.65	0.13	1.8	0.045	1.13	33.0	23.3	0.60	356	1.04	0.95	12.3	18.4	820
CC89070		3.21	13.75	0.12	2.0	0.046	1.20	34.3	26.4	0.68	556	1.17	0.96	12.6	20.5	920
CC89071		2.95	12.70	0.13	1.9	0.049	1.14	36.1	24.0	0.65	399	0.98	0.99	11.9	21.1	730
CC89072		3.06	12.90	0.13	1.9	0.057	1.35	39.0	25.0	0.65	434	0.94	0.99	11.5	24.2	740
CC89073		3.19	14.65	0.13	2.1	0.056	1.51	37.5	27.6	0.71	451	1.04	1.02	13.3	21.2	850
CC89074		2.98	14.35	0.16	2.3	0.060	1.50	45.1	38.9	0.64	490	1.00	0.86	12.3	24.9	800
CC89075		3.01	14.80	0.13	1.9	0.055	1.37	37.4	27.9	0.60	275	1.17	0.87	12.6	16.1	660
CC89076		3.25	16.05	0.13	2.0	0.062	1.74	42.4	39.8	0.71	429	1.24	0.90	12.9	22.2	730
CC89077		3.55	17.65	0.13	1.9	0.157	1.56	32.6	34.0	0.69	362	1.75	1.07	12.9	21.7	590
CC89078		3.41	15.75	0.14	1.8	0.114	1.45	36.8	45.0	0.69	495	1.27	0.93	12.5	21.0	830
CC89079		3.14	12.40	0.13	1.7	0.077	1.18	32.4	29.1	0.60	801	1.00	0.86	11.5	22.5	880
CC89080		3.01	14.05	0.12	1.9	0.078	1.29	33.0	30.4	0.61	1320	1.25	0.79	12.6	18.6	1040
CC89081		3.00	14.65	0.12	2.0	0.097	1.42	37.7	35.3	0.65	334	1.06	0.82	14.3	22.5	550
CC89082		3.43	15.95	0.12	1.7	0.110	1.42	33.9	41.0	0.70	383	1.04	0.84	13.9	24.3	540
CC89083		3.14	15.70	0.13	1.9	0.095	1.27	33.7	30.1	0.67	318	0.83	0.93	13.7	22.6	700
CC89084		2.86	11.05	0.12	1.8	0.042	1.09	33.1	20.6	0.64	488	0.82	1.07	11.4	22.0	890
CC89085		3.35	14.55	0.13	1.6	0.141	1.37	35.5	35.1	0.77	523	1.09	0.99	11.8	24.8	1010
CC89086		3.36	11.55	0.11	1.7	0.080	1.15	30.3	25.1	0.62	1540	1.29	0.85	11.3	19.2	910
CC89087		3.31	17.45	0.14	2.0	0.269	1.79	46.8	49.5	0.84	386	0.93	0.80	17.5	27.2	680
CC89088		3.34	16.15	0.12	1.9	0.115	1.44	34.0	38.8	0.72	364	1.08	0.86	14.7	23.4	770
CC89089		3.29	14.40	0.10	2.0	0.068	1.16	32.0	24.5	0.65	387	1.17	0.89	12.6	17.6	1500
CC89090		3.63	15.10	0.11	1.9	0.074	1.32	33.5	32.2	0.73	550	1.39	0.92	13.5	21.5	940
CC89091		3.27	14.40	0.11	1.9	0.055	1.16	31.7	25.4	0.58	373	1.27	0.84	13.3	17.2	410
CC89092		3.62	16.75	0.13	2.3	0.096	1.70	42.9	52.6	0.68	611	0.98	0.84	14.7	29.4	670
CC89093		3.55	15.30	0.08	2.3	0.052	1.08	27.2	23.6	0.58	409	1.63	0.73	12.2	19.1	1030
CC89094		2.60	11.70	0.09	1.7	0.039	0.94	27.4	22.3	0.50	303	0.80	0.81	10.2	16.1	610
CC89095		3.42	13.70	0.13	2.5	0.231	1.18	40.1	25.9	0.64	498	1.31	0.92	12.4	26.5	790
CC89096		3.24	14.65	0.10	2.4	0.332	1.25	35.2	26.0	0.61	440	1.34	0.89	12.2	21.0	890
CC89097		2.90	13.95	0.15	2.5	0.203	1.31	50.0	27.4	0.55	432	1.03	0.85	13.8	23.8	790
CC89098		2.61	14.20	0.11	2.3	0.130	1.24	40.0	26.7	0.51	447	0.98	0.82	13.6	17.2	790
CC113902		2.97	13.55	0.13	2.1	0.042	1.17	36.5	29.2	0.61	550	1.14	0.89	12.6	19.5	840



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ106210		11.2	49.8	<0.002	0.01	1.08	8.6	1	1.2	147.5	0.57	<0.05	7.57	0.340	0.31	1.8
ZZ106211		11.2	48.7	<0.002	0.01	0.92	7.5	1	1.8	117.0	0.57	<0.05	7.10	0.323	0.33	1.6
ZZ106212		11.9	62.8	<0.002	0.01	1.29	11.3	1	2.6	170.0	0.72	<0.05	8.71	0.396	0.44	2.3
ZZ106213		12.6	78.5	<0.002	0.02	1.12	12.0	1	5.7	129.0	0.68	<0.05	10.45	0.378	0.71	2.6
CC89064		25.5	132.5	<0.002	0.01	1.64	15.2	1	6.2	132.5	1.10	<0.05	19.75	0.507	1.43	3.5
CC89065		17.9	99.2	<0.002	0.02	1.19	13.5	1	4.2	125.5	0.95	<0.05	14.45	0.466	0.91	3.0
CC89066		12.5	99.7	<0.002	0.03	0.87	13.4	<1	2.9	125.5	0.83	<0.05	12.75	0.429	0.86	2.8
CC89067		13.3	77.9	<0.002	0.03	0.90	12.0	1	2.1	137.0	0.78	<0.05	10.20	0.420	0.54	2.5
CC89068		15.8	73.4	<0.002	0.04	0.89	11.2	<1	2.1	134.5	0.70	<0.05	9.92	0.405	0.48	2.6
CC89069		13.2	58.0	<0.002	0.02	0.94	9.8	1	1.6	133.0	0.69	<0.05	8.62	0.400	0.41	2.2
CC89070		13.6	65.0	<0.002	0.02	1.15	10.7	1	1.9	134.5	0.70	<0.05	9.63	0.408	0.43	2.3
CC89071		15.7	59.1	<0.002	0.02	1.12	10.7	1	1.7	140.0	0.72	<0.05	9.44	0.390	0.46	2.4
CC89072		17.0	64.7	<0.002	0.01	1.07	11.4	1	1.9	139.5	0.73	<0.05	10.20	0.402	0.49	2.6
CC89073		18.4	74.0	<0.002	0.02	1.01	10.7	1	2.0	144.5	0.86	<0.05	11.15	0.421	0.52	2.7
CC89074		20.3	77.4	<0.002	0.04	1.15	11.2	1	2.4	126.0	0.75	<0.05	13.50	0.393	0.60	3.2
CC89075		13.3	76.9	<0.002	0.02	0.94	10.3	1	2.5	124.5	0.77	<0.05	9.77	0.398	0.61	2.2
CC89076		16.5	90.9	<0.002	0.02	1.29	12.6	<1	3.4	135.0	0.75	<0.05	13.20	0.382	0.76	3.1
CC89077		15.2	93.2	<0.002	0.03	0.87	10.6	1	10.6	147.0	0.71	0.05	9.74	0.393	0.76	2.2
CC89078		16.1	92.3	<0.002	0.02	1.09	11.6	1	7.3	130.0	0.79	0.05	10.45	0.403	0.96	2.5
CC89079		14.1	67.9	<0.002	0.02	1.01	9.5	1	3.4	119.5	0.66	<0.05	9.45	0.357	0.51	2.5
CC89080		12.9	73.3	<0.002	0.03	0.77	9.4	1	4.2	108.5	0.76	<0.05	8.52	0.399	0.55	2.1
CC89081		13.2	82.5	<0.002	0.01	0.90	10.2	1	6.3	112.5	0.83	<0.05	10.30	0.431	0.72	2.4
CC89082		15.4	90.8	<0.002	0.01	1.09	11.7	1	5.8	115.5	0.78	<0.05	10.25	0.396	0.81	2.7
CC89083		13.7	74.1	<0.002	0.01	0.87	10.6	<1	8.3	131.5	0.80	<0.05	8.90	0.431	0.68	2.2
CC89084		12.0	54.2	<0.002	0.01	1.05	9.2	1	1.7	153.5	0.65	<0.05	8.58	0.397	0.34	2.3
CC89085		14.4	81.5	<0.002	0.02	0.97	11.8	1	3.7	141.5	0.68	<0.05	9.70	0.379	0.71	2.3
CC89086		12.5	57.7	<0.002	0.02	0.96	8.6	1	2.1	120.0	0.69	<0.05	8.48	0.376	0.41	1.9
CC89087		14.5	104.5	<0.002	0.02	0.73	12.3	<1	8.3	110.5	1.00	<0.05	13.30	0.520	0.95	2.4
CC89088		15.4	82.5	<0.002	0.02	0.91	11.5	1	4.3	122.0	0.80	0.05	9.58	0.427	0.75	2.4
CC89089		15.1	65.4	<0.002	0.03	0.96	11.0	1	2.3	124.5	0.74	<0.05	8.67	0.421	0.52	2.2
CC89090		16.6	71.8	<0.002	0.03	1.23	11.9	1	2.5	129.5	0.75	0.05	9.77	0.432	0.57	2.4
CC89091		20.0	56.1	<0.002	0.02	1.13	9.3	1	2.2	115.0	0.75	<0.05	7.91	0.418	0.57	1.9
CC89092		15.4	94.6	<0.002	0.02	0.97	12.8	1	4.4	123.5	0.86	<0.05	11.30	0.432	0.97	2.8
CC89093		16.6	55.4	<0.002	0.03	1.32	10.2	2	1.8	106.0	0.82	0.08	8.88	0.410	0.53	2.2
CC89094		13.8	46.4	<0.002	0.02	0.93	8.5	1	1.4	115.0	0.70	<0.05	8.45	0.341	0.39	1.8
CC89095		46.6	66.3	0.002	0.02	1.96	10.6	1	2.8	140.0	0.82	<0.05	12.55	0.431	0.77	2.8
CC89096		44.4	70.0	<0.002	0.03	1.42	11.0	1	3.7	133.0	0.80	0.05	11.35	0.422	0.71	2.6
CC89097		27.8	70.2	<0.002	0.01	1.36	10.6	1	3.8	137.5	0.90	<0.05	14.10	0.471	0.73	2.9
CC89098		23.5	66.1	<0.002	0.01	1.04	10.4	1	2.7	121.0	0.96	<0.05	11.90	0.443	0.72	2.6
CC113902		13.9	64.2	<0.002	0.02	1.09	9.9	1	1.7	129.0	1.10	0.06	11.90	0.412	0.47	2.5

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



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

To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ106210		82	1.6	13.5	82	61.8
ZZ106211		77	1.6	11.3	84	54.8
ZZ106212		112	1.7	16.3	86	72.3
ZZ106213		106	3.0	14.8	93	66.4
CC89064		114	6.1	16.7	97	113.5
CC89065		119	3.9	18.4	90	102.5
CC89066		117	2.7	13.4	102	87.5
CC89067		112	1.4	13.1	78	81.4
CC89068		106	1.2	13.7	78	71.8
CC89069		98	1.2	12.1	62	73.2
CC89070		109	1.2	13.1	77	77.2
CC89071		99	1.2	13.9	63	71.2
CC89072		104	1.4	15.3	84	93.5
CC89073		113	1.4	12.9	80	80.2
CC89074		93	1.4	16.3	86	90.5
CC89075		107	1.5	11.9	55	72.4
CC89076		108	1.6	14.3	78	78.9
CC89077		116	3.2	12.0	104	72.8
CC89078		114	3.7	12.8	97	69.5
CC89079		92	2.3	12.9	92	64.0
CC89080		101	2.1	11.2	73	71.3
CC89081		104	3.6	13.1	88	77.4
CC89082		109	4.1	13.0	90	66.4
CC89083		108	6.5	12.7	76	80.3
CC89084		93	1.6	13.9	75	70.0
CC89085		107	3.1	13.5	139	62.8
CC89086		96	1.8	11.7	84	63.6
CC89087		112	4.1	13.0	142	77.5
CC89088		114	2.5	12.8	113	73.8
CC89089		114	1.7	12.1	76	76.8
CC89090		124	1.9	13.6	97	75.7
CC89091		118	1.5	11.1	62	73.0
CC89092		107	2.9	12.7	180	80.5
CC89093		127	1.4	9.8	68	68.6
CC89094		90	1.3	9.7	51	65.9
CC89095		113	2.8	14.1	99	78.8
CC89096		110	2.2	13.0	76	76.7
CC89097		100	2.5	15.6	93	84.4
CC89098		96	2.2	13.4	73	79.6
CC113902		98	1.7	12.6	71	70.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
CC113903		0.36	0.009	0.11	5.55	13.7	710	1.20	0.25	0.77	0.27	64.5	12.7	60	3.81	22.3
CC113904		0.34	0.009	0.03	5.15	16.8	730	1.08	0.39	0.69	0.11	61.3	6.2	63	4.62	15.3
CC113905		0.46	0.002	0.05	4.70	15.4	680	1.02	0.21	0.69	0.16	62.6	9.3	56	2.58	19.5
CC113906		0.37	0.001	0.06	6.01	23.0	840	1.57	0.92	0.54	0.13	70.1	7.0	66	4.96	16.5
CC113907		0.35	0.006	0.04	5.59	30.8	760	1.27	0.74	0.54	0.12	63.8	5.8	67	5.16	12.4
CC113908		0.40	0.004	0.05	5.43	27.8	700	1.11	0.54	0.51	0.17	62.8	5.8	62	4.16	10.7
CC113909		0.49	0.003	0.12	6.00	20.7	890	1.71	1.22	0.71	0.31	73.7	8.0	66	7.54	31.8
CC113910		0.42	0.002	0.04	5.26	15.9	810	1.54	1.11	0.71	0.27	73.4	7.4	64	7.02	23.5
CC113911		0.36	0.002	0.04	5.29	19.8	780	1.41	1.76	0.66	0.22	63.7	6.9	59	6.06	25.5
CC113912		0.41	0.001	0.05	5.40	23.7	890	1.51	1.04	0.77	0.18	72.8	7.4	66	5.65	33.6
CC113913		0.41	0.011	0.11	5.34	29.8	790	1.49	1.50	0.66	0.26	72.7	9.7	63	7.52	41.0
CC113914		0.44	0.002	0.04	6.09	21.0	940	1.55	1.18	0.73	0.17	78.5	7.5	71	6.99	37.8
CC113915		0.40	0.006	0.04	5.55	21.0	850	1.39	1.04	0.68	0.13	76.0	6.9	65	5.84	33.2
CC113916		0.44	0.004	0.25	5.40	33.4	890	1.63	1.00	0.78	0.38	79.2	12.7	59	3.96	48.0
CC113917		0.40	0.008	0.52	5.13	19.2	710	1.69	1.29	0.63	0.45	72.1	8.7	53	6.82	72.2
CC113918		0.40	0.002	0.19	5.65	16.2	760	1.33	1.24	0.63	0.32	66.8	9.0	62	6.12	38.2
CC113919		0.39	0.003	0.14	6.47	23.9	930	1.62	4.44	0.64	0.49	71.1	11.1	74	10.65	56.4
CC113920		0.41	0.005	0.05	4.77	22.8	670	1.04	0.52	0.63	0.39	59.2	19.4	61	4.04	17.8
CC113921		0.50	0.004	0.06	5.06	22.8	760	1.22	0.34	0.86	0.62	74.1	17.1	63	3.37	26.0
CC113922		0.41	0.001	0.07	4.99	23.2	720	1.11	0.44	0.68	0.43	71.8	9.6	67	4.62	19.1
CC113923		0.45	0.002	0.09	5.87	28.6	790	1.39	0.56	0.61	0.51	70.0	13.5	68	7.06	26.5
CC113924		0.45	0.008	0.06	5.92	26.3	810	1.42	0.45	0.72	0.41	86.5	11.9	74	6.26	28.4
CC113925		0.46	0.004	0.11	6.15	31.8	840	1.35	0.43	0.69	0.32	64.7	8.7	76	5.77	31.0
CC113926		0.51	0.002	0.08	6.06	35.9	830	1.36	0.42	0.65	0.31	72.7	8.0	73	5.72	23.1
CC113927		0.45	0.002	0.06	5.51	22.6	750	1.25	0.35	0.65	0.28	81.5	6.6	68	6.79	19.6
CC113928		0.49	0.004	0.10	6.47	34.4	880	1.55	0.84	0.67	0.50	76.2	8.5	75	10.45	32.1
CC113929		0.38	0.003	0.16	5.81	41.6	770	1.22	1.48	0.66	0.28	72.8	5.6	68	8.66	25.6
CC113930		0.49	0.004	0.16	5.05	28.4	740	1.15	0.41	0.69	0.45	72.2	7.4	61	5.73	24.8
CC113931		0.53	0.004	0.08	4.98	19.2	720	1.14	0.50	0.67	0.45	82.2	6.8	59	4.83	19.9
CC113932		0.43	0.022	0.06	5.03	21.2	810	1.15	0.71	0.76	0.54	94.1	8.3	67	9.79	21.6
CC113933		0.43	0.006	0.09	4.69	15.0	680	1.01	0.17	0.79	0.35	63.0	9.5	56	2.51	18.9
CC113934		0.48	0.003	0.05	6.73	21.4	840	1.44	24.2	0.47	0.16	93.2	10.1	70	10.50	33.5
CC113935		0.37	0.001	0.06	5.49	26.2	730	1.07	1.61	0.53	0.16	69.6	6.8	63	7.90	24.2
CC113936		0.42	0.001	0.05	5.53	25.4	810	1.22	1.46	0.65	0.16	74.4	10.4	64	5.81	21.1
CC113937		0.46	0.002	0.08	5.54	32.0	820	1.32	3.34	0.62	0.18	78.4	8.2	63	6.54	25.7
CC113938		0.48	0.001	0.04	5.53	48.4	830	1.26	2.05	0.64	0.19	84.6	7.6	63	6.07	30.7
CC113939		0.43	0.002	0.09	5.42	31.0	760	1.23	2.33	0.55	0.17	74.8	10.3	59	6.67	31.6
CC113940		0.42	0.002	0.06	5.34	31.1	710	1.08	2.21	0.52	0.23	70.4	7.3	63	8.63	25.5
CC113941		0.37	0.001	0.06	5.93	24.1	830	1.19	1.50	0.50	0.24	68.4	7.1	68	12.55	22.4
CC113942		0.47	0.003	0.09	5.90	26.2	840	1.35	2.95	0.44	0.57	77.3	10.3	66	12.90	34.1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	
CC113903	2.94	12.90	0.11	1.8	0.045	1.10	32.7	27.0	0.65	764	1.03	1.01	11.0	23.5	1070	
CC113904	2.76	14.35	0.10	2.2	0.045	1.16	31.4	26.0	0.60	258	1.02	0.98	12.0	16.9	860	
CC113905	2.78	11.55	0.08	1.9	0.035	1.03	30.7	23.3	0.57	440	0.90	0.95	10.7	18.8	850	
CC113906	2.99	16.00	0.09	2.2	0.066	1.50	36.1	31.6	0.58	328	1.18	0.84	13.8	17.1	790	
CC113907	3.07	16.60	0.09	2.1	0.055	1.32	32.6	28.3	0.56	275	1.07	0.87	12.9	14.9	690	
CC113908	2.65	16.00	0.09	2.1	0.064	1.29	32.2	24.4	0.46	335	1.15	0.82	12.5	11.7	1170	
CC113909	3.37	16.90	0.09	2.3	0.145	1.47	36.8	36.2	0.68	369	1.39	1.04	12.9	22.0	810	
CC113910	2.96	15.50	0.13	2.1	0.094	1.30	37.2	30.7	0.60	399	1.32	0.92	12.7	18.7	870	
CC113911	3.04	14.40	0.10	2.1	0.097	1.25	32.0	32.1	0.59	347	1.07	0.93	11.7	18.3	780	
CC113912	3.00	14.55	0.12	2.2	0.084	1.31	36.4	31.6	0.66	375	0.95	0.98	12.8	19.7	780	
CC113913	3.38	14.95	0.10	1.9	0.124	1.31	37.3	34.6	0.63	484	1.13	0.90	12.9	22.5	550	
CC113914	3.25	16.40	0.13	2.2	0.088	1.46	39.0	36.9	0.71	332	1.21	1.01	13.5	23.4	720	
CC113915	3.02	14.95	0.11	2.2	0.094	1.35	38.3	33.3	0.65	301	1.17	0.97	12.8	19.7	840	
CC113916	3.00	13.50	0.12	2.2	0.087	1.30	38.7	31.1	0.64	407	1.19	1.04	12.4	28.0	820	
CC113917	2.78	12.90	0.11	1.7	0.080	1.14	33.8	31.2	0.58	341	0.70	0.88	10.9	25.3	730	
CC113918	3.10	14.30	0.09	1.9	0.079	1.23	34.6	30.6	0.62	461	1.14	0.91	11.6	19.4	760	
CC113919	3.64	18.45	0.14	2.3	0.156	1.59	36.3	42.3	0.79	570	1.30	0.83	14.7	26.1	830	
CC113920	3.77	13.65	0.10	1.8	0.089	1.11	30.0	23.7	0.58	1540	1.86	0.83	11.2	16.5	1100	
CC113921	3.31	12.55	0.12	2.2	0.079	1.20	37.7	27.8	0.63	1380	1.17	0.92	12.4	23.8	1380	
CC113922	3.24	13.85	0.11	2.1	0.064	1.19	36.7	26.8	0.56	544	1.30	0.80	13.0	19.1	920	
CC113923	3.44	14.55	0.09	2.0	0.069	1.34	35.2	33.8	0.63	605	1.16	0.87	12.4	24.2	670	
CC113924	3.32	15.35	0.13	2.3	0.050	1.51	43.0	30.8	0.65	583	1.03	0.86	13.8	24.1	890	
CC113925	3.50	16.15	0.10	2.3	0.089	1.36	32.7	30.7	0.75	392	1.37	1.00	12.7	23.4	770	
CC113926	3.40	16.70	0.13	2.2	0.070	1.38	37.4	29.8	0.69	336	1.26	0.94	13.6	21.5	750	
CC113927	2.93	15.65	0.11	2.4	0.055	1.31	41.3	29.8	0.58	314	1.08	0.88	14.1	18.7	780	
CC113928	3.44	16.60	0.09	2.2	0.085	1.58	40.0	36.3	0.68	383	1.10	0.91	13.6	23.0	860	
CC113929	3.11	15.35	0.09	2.3	0.132	1.36	37.9	32.3	0.58	257	1.07	0.86	12.8	17.4	830	
CC113930	2.89	12.35	0.12	2.2	0.066	1.18	39.0	29.7	0.58	392	0.85	0.87	12.1	18.3	640	
CC113931	2.60	13.20	0.15	2.2	0.044	1.20	41.2	27.8	0.53	340	0.84	0.86	12.1	19.0	750	
CC113932	3.08	13.85	0.12	2.5	0.051	1.20	46.9	34.2	0.58	400	1.17	0.90	12.8	20.7	760	
CC113933	2.74	11.75	0.09	1.9	0.046	1.04	30.8	22.9	0.59	580	0.92	1.00	10.5	21.3	1010	
CC113934	3.54	19.65	0.16	2.6	0.085	1.73	45.0	42.5	0.65	346	1.16	0.87	14.5	23.5	480	
CC113935	3.11	14.50	0.10	2.0	0.056	1.38	35.5	30.5	0.58	320	1.00	0.88	12.1	16.9	570	
CC113936	3.15	14.25	0.14	2.0	0.046	1.32	36.2	30.9	0.63	523	1.16	0.95	11.9	20.2	800	
CC113937	3.10	15.25	0.13	2.2	0.054	1.40	39.6	30.2	0.62	336	1.18	0.87	13.6	20.9	800	
CC113938	3.14	14.00	0.12	2.1	0.064	1.40	42.2	30.2	0.67	352	1.04	0.92	12.3	20.9	610	
CC113939	3.12	14.20	0.14	2.2	0.060	1.36	36.3	31.2	0.60	510	1.02	0.87	11.5	19.9	650	
CC113940	3.18	13.80	0.10	2.0	0.061	1.27	35.2	31.2	0.55	374	1.00	0.83	11.3	17.7	670	
CC113941	3.53	16.20	0.12	2.0	0.053	1.50	35.1	37.4	0.61	275	1.12	0.83	12.1	19.5	470	
CC113942	3.06	16.35	0.13	2.3	0.052	1.55	37.9	40.5	0.56	698	1.34	0.83	12.8	24.0	860	



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
CC113903		13.3	54.4	<0.002	0.02	0.99	10.1	2	1.5	150.5	0.71	<0.05	11.10	0.383	0.42	2.4
CC113904		13.4	61.5	<0.002	0.02	1.02	10.3	1	1.7	140.5	0.85	<0.05	9.89	0.408	0.47	2.3
CC113905		13.2	51.4	<0.002	0.01	1.06	9.2	1	1.3	135.5	0.72	<0.05	10.05	0.377	0.41	2.2
CC113906		15.7	84.3	<0.002	0.02	1.10	11.1	1	5.8	129.0	0.93	<0.05	12.60	0.392	0.79	2.7
CC113907		16.4	74.5	<0.002	0.02	0.97	10.7	1	3.1	127.5	0.85	<0.05	11.35	0.403	0.77	2.4
CC113908		20.1	72.5	<0.002	0.02	0.96	9.9	1	4.3	122.0	0.82	<0.05	10.00	0.400	0.74	2.3
CC113909		16.5	90.5	<0.002	0.03	1.07	11.2	2	6.6	145.0	0.85	0.06	13.30	0.416	0.79	2.8
CC113910		15.9	79.9	<0.002	0.02	1.04	10.5	1	5.9	135.5	0.84	<0.05	11.20	0.416	0.72	2.6
CC113911		16.2	70.9	<0.002	0.03	1.04	9.7	1	4.6	129.0	0.85	<0.05	11.40	0.393	0.69	2.4
CC113912		15.1	73.3	<0.002	0.02	1.16	11.0	2	4.0	142.5	0.94	<0.05	12.45	0.429	0.70	3.0
CC113913		15.5	79.9	<0.002	0.02	1.07	9.9	1	5.7	131.0	0.95	<0.05	12.30	0.404	0.73	2.5
CC113914		15.3	84.6	<0.002	0.01	1.09	11.7	2	5.8	148.5	0.90	0.05	12.50	0.430	0.81	2.9
CC113915		14.6	77.2	<0.002	0.02	1.05	10.9	2	4.6	137.0	0.87	<0.05	12.15	0.414	0.76	2.9
CC113916		15.0	72.9	<0.002	0.01	1.33	10.4	2	4.8	158.0	0.89	<0.05	12.70	0.406	0.54	2.6
CC113917		13.5	71.6	<0.002	0.01	0.94	9.6	1	4.0	128.0	0.86	<0.05	10.85	0.342	0.64	2.5
CC113918		15.4	74.7	<0.002	0.02	1.14	10.5	1	2.8	131.0	0.74	<0.05	11.50	0.386	0.71	2.4
CC113919		16.4	109.0	<0.002	0.02	1.15	11.8	2	8.4	121.0	0.99	0.06	12.75	0.467	1.15	2.7
CC113920		16.6	58.0	<0.002	0.02	1.03	8.7	2	2.3	121.5	0.73	0.06	8.73	0.379	0.47	2.0
CC113921		15.2	64.2	<0.002	0.01	1.11	9.5	2	2.4	143.5	0.82	<0.05	11.95	0.428	0.43	2.3
CC113922		15.7	68.1	<0.002	0.02	1.14	9.6	1	2.9	121.5	0.87	0.05	11.45	0.442	0.57	2.4
CC113923		16.1	72.8	<0.002	0.02	1.22	10.7	1	3.1	125.5	0.81	<0.05	11.80	0.396	0.74	2.5
CC113924		15.8	79.7	<0.002	0.02	1.17	11.1	1	2.9	133.5	0.92	<0.05	14.35	0.468	0.69	2.7
CC113925		15.6	72.2	<0.002	0.02	1.20	12.0	1	3.1	145.5	0.86	<0.05	11.05	0.420	0.70	2.6
CC113926		17.4	74.7	<0.002	0.02	1.35	12.2	2	3.0	138.5	0.85	0.08	11.95	0.427	0.81	2.7
CC113927		14.8	71.7	<0.002	0.02	1.04	10.9	1	2.8	131.5	0.93	<0.05	12.45	0.459	0.75	2.6
CC113928		19.9	84.7	<0.002	0.02	1.15	11.7	1	3.4	132.5	0.92	0.06	13.15	0.434	0.87	2.7
CC113929		19.6	72.3	<0.002	0.02	1.09	10.6	2	5.1	128.5	0.87	0.06	11.80	0.425	0.80	2.7
CC113930		13.6	62.2	<0.002	0.01	1.01	9.3	1	3.3	129.5	0.84	<0.05	12.20	0.440	0.59	2.4
CC113931		13.4	63.9	<0.002	0.01	0.96	9.2	1	2.3	132.0	0.86	0.07	11.10	0.426	0.61	2.6
CC113932		14.1	62.0	<0.002	0.02	1.07	9.3	1	2.1	145.0	0.84	0.06	13.00	0.472	0.56	2.8
CC113933		12.8	51.6	<0.002	0.01	1.05	8.5	1	1.5	151.5	0.73	<0.05	8.70	0.386	0.34	2.1
CC113934		16.2	101.0	<0.002	0.02	0.91	12.0	1	4.3	129.5	1.04	<0.05	13.00	0.450	0.94	3.0
CC113935		14.0	74.5	<0.002	0.02	0.83	9.2	1	3.1	124.0	0.82	0.05	10.50	0.419	0.77	2.2
CC113936		14.4	72.6	<0.002	0.02	1.06	9.9	1	3.3	141.5	0.79	0.07	11.25	0.385	0.66	2.6
CC113937		16.4	77.7	<0.002	0.03	1.00	9.8	1	5.7	134.5	0.92	0.05	12.05	0.409	0.88	2.7
CC113938		13.1	74.6	<0.002	0.03	1.05	9.8	1	4.4	138.0	0.86	<0.05	12.50	0.399	0.81	2.7
CC113939		15.3	75.3	<0.002	0.03	0.98	9.3	1	3.6	128.0	0.79	<0.05	11.60	0.376	0.87	2.5
CC113940		17.1	67.4	<0.002	0.02	1.05	8.9	1	2.9	117.5	0.82	0.06	10.60	0.392	0.82	2.4
CC113941		15.3	87.4	<0.002	0.02	0.91	10.2	1	2.7	120.5	0.80	0.08	10.45	0.387	0.89	2.3
CC113942		13.2	101.5	<0.002	0.03	0.94	9.8	1	3.1	116.5	0.91	0.15	11.70	0.413	1.03	2.6



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 North Vancouver BC V7H 0A7
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		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
CC113903		93	1.2	11.8	89	65.2
CC113904		102	1.5	11.3	52	78.2
CC113905		92	1.2	11.5	63	62.1
CC113906		109	1.9	11.5	61	74.9
CC113907		115	1.5	10.1	50	70.2
CC113908		104	1.7	9.6	41	70.2
CC113909		113	2.2	13.2	109	75.8
CC113910		112	2.1	12.4	78	71.6
CC113911		103	3.2	11.3	73	68.6
CC113912		109	4.4	14.4	71	77.5
CC113913		103	7.8	11.9	86	64.9
CC113914		118	4.7	14.8	84	72.7
CC113915		108	4.5	13.7	72	78.0
CC113916		103	4.5	16.4	98	70.4
CC113917		84	6.9	14.7	103	57.5
CC113918		104	5.9	12.1	84	64.4
CC113919		124	7.2	12.7	125	74.8
CC113920		105	1.9	10.5	81	58.1
CC113921		99	1.9	13.9	109	71.4
CC113922		111	2.0	12.4	85	72.3
CC113923		104	2.3	12.1	111	67.1
CC113924		105	4.4	14.0	92	77.9
CC113925		118	2.3	12.8	92	73.8
CC113926		120	2.6	13.1	86	75.7
CC113927		108	2.0	12.4	84	80.1
CC113928		116	2.7	12.7	116	73.8
CC113929		108	2.4	11.9	88	76.3
CC113930		100	2.3	13.0	91	75.5
CC113931		95	1.9	12.7	79	73.2
CC113932		106	1.9	13.7	74	85.8
CC113933		92	1.1	11.9	72	63.2
CC113934		118	3.2	12.0	70	84.4
CC113935		104	1.9	9.5	57	66.8
CC113936		104	1.5	11.9	66	67.5
CC113937		107	1.8	12.5	64	72.2
CC113938		102	2.4	13.4	64	70.0
CC113939		98	2.2	11.4	68	68.9
CC113940		102	1.7	10.1	66	67.6
CC113941		111	1.9	9.9	66	65.1
CC113942		105	3.2	10.8	92	77.0



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
CC113943		0.42	0.005	0.12	5.19	34.4	700	1.04	0.84	0.70	0.32	58.1	8.1	62	3.16	14.5
CC113944		0.44	0.003	0.06	5.01	19.8	720	1.01	0.35	0.71	0.25	73.9	8.4	64	3.71	17.5
CC113945		0.45	0.007	0.03	4.78	17.3	710	1.02	0.25	0.71	0.26	74.5	8.0	59	2.92	19.1
CC113946		0.40	0.001	0.08	4.78	20.1	690	0.99	0.26	0.68	0.36	66.4	11.0	57	3.97	17.5
CC113947		0.45	0.003	0.08	6.04	27.5	850	1.36	0.56	0.67	0.28	82.8	8.6	75	7.18	27.2
CC113948		0.42	0.003	0.03	6.05	25.1	850	1.09	0.56	0.65	0.29	66.2	8.0	78	7.34	21.9
CC113949		0.43	0.004	0.08	5.84	19.9	870	1.30	0.48	0.70	0.22	74.9	12.7	68	6.87	28.3
CC113950		0.45	0.001	0.07	5.87	23.6	850	1.25	0.53	0.72	0.51	73.2	12.6	74	5.17	25.2



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 North Vancouver BC V7H 0A7
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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
CC113943		2.96	13.05	0.09	1.9	0.115	1.10	29.3	26.3	0.57	397	1.16	0.97	10.7	16.3	840
CC113944		2.98	13.95	0.11	2.1	0.050	1.11	37.5	25.8	0.58	470	1.15	0.92	12.6	17.6	930
CC113945		2.89	11.75	0.09	2.1	0.047	1.06	35.6	24.6	0.58	397	0.83	0.91	11.3	20.2	690
CC113946		3.03	12.20	0.10	1.9	0.047	1.09	33.0	26.3	0.57	651	0.86	0.89	11.2	17.6	790
CC113947		3.22	15.75	0.13	2.3	0.076	1.48	42.0	36.4	0.66	382	0.99	0.88	15.1	23.6	730
CC113948		3.52	16.10	0.10	2.3	0.066	1.37	32.8	31.6	0.69	365	1.37	0.90	13.2	22.8	810
CC113949		3.35	15.10	0.13	2.1	0.060	1.38	37.0	35.0	0.71	649	1.12	0.97	12.6	23.9	720
CC113950		3.58	14.85	0.12	2.1	0.071	1.34	36.1	34.2	0.71	626	1.33	0.94	12.3	25.6	770



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	
CC113943	21.8	55.3	<0.002	0.02	1.01	9.1	1	3.2	147.0	0.74	0.05	8.52	0.365	0.48	2.1	
CC113944	15.0	60.1	<0.002	0.02	1.05	9.2	1	2.3	141.5	0.87	0.06	10.50	0.431	0.50	2.4	
CC113945	13.6	54.1	<0.002	0.01	1.17	8.9	1	1.6	137.5	0.77	0.05	10.35	0.422	0.50	2.5	
CC113946	14.2	57.0	<0.002	0.02	1.01	8.1	1	1.9	133.0	0.77	0.06	9.30	0.397	0.50	2.1	
CC113947	14.6	80.0	<0.002	0.01	0.99	10.8	1	3.8	139.0	1.02	0.05	12.15	0.488	0.86	2.8	
CC113948	16.1	71.6	<0.002	0.02	1.21	10.7	1	3.0	137.5	0.92	0.05	10.45	0.438	0.72	2.6	
CC113949	14.9	74.8	<0.002	0.01	1.17	11.0	<1	2.7	149.0	0.83	0.06	10.45	0.419	0.68	2.6	
CC113950	17.2	70.2	<0.002	0.02	1.18	10.7	1	2.5	144.0	0.83	0.05	10.50	0.408	0.68	2.5	



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Sample Description	Method Analyte Units LOD	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
CC113943		99	1.4	10.9	62	63.2
CC113944		108	1.6	12.2	67	72.3
CC113945		98	1.6	13.0	74	69.7
CC113946		95	1.4	11.4	76	62.1
CC113947		110	3.5	13.5	95	75.9
CC113948		126	2.9	11.8	85	71.9
CC113949		112	1.9	14.6	88	73.0
CC113950		117	1.9	12.5	100	69.2



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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.
LOG-22 LOG-24 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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This report is for 281 Soil samples submitted to our lab in Whitehorse, YT, Canada on 31-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
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS
Au-ICP21	Au 30g FA ICP-AES Finish 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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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ115463		0.41	0.003	0.08	6.19	15.9	940	1.49	0.94	0.70	0.23	77.5	9.2	68	6.53	44.1
ZZ115464		0.41	0.006	0.08	5.45	14.0	830	1.33	0.60	0.74	0.23	70.9	6.8	66	4.95	19.5
ZZ115465		0.47	0.004	0.24	6.81	22.9	1130	3.11	5.70	0.80	0.80	97.6	14.9	68	16.00	93.7
ZZ115466		0.42	0.003	0.14	6.14	29.4	960	1.67	2.08	0.91	0.60	88.6	10.1	66	6.99	37.5
ZZ115467		0.42	0.003	0.05	5.54	21.0	840	1.19	1.52	0.63	0.19	72.7	8.3	63	6.72	19.5
ZZ115468		0.44	0.001	0.04	7.15	32.7	850	1.75	2.45	0.41	0.20	102.0	9.7	64	11.85	48.9
ZZ115469		0.41	0.006	0.05	6.04	39.9	750	1.26	2.56	0.57	0.26	76.9	13.3	58	8.87	37.3
ZZ115470		0.36	0.003	0.11	6.66	23.1	870	1.39	1.34	0.58	0.23	80.2	13.9	64	10.65	44.7
ZZ115471		0.44	0.006	0.48	5.75	30.1	810	1.28	0.34	0.68	0.41	117.5	15.1	65	8.50	25.1
ZZ115472		0.38	0.015	0.04	5.37	24.1	770	1.00	0.48	0.73	0.41	70.4	8.8	62	5.23	21.4
ZZ115473		0.42	0.009	0.10	5.17	24.5	760	1.04	0.66	0.73	0.49	82.1	7.9	60	4.65	22.1
ZZ115474		0.39	0.012	0.18	5.22	20.5	760	1.14	0.40	0.82	0.41	87.0	9.6	64	3.32	34.7
ZZ115475		0.44	0.014	0.09	5.96	25.0	930	1.28	0.35	0.83	0.39	90.8	9.2	72	6.07	28.9
ZZ115476		0.39	0.007	0.37	5.67	37.2	870	1.35	0.42	0.83	0.77	71.9	12.2	64	12.75	28.8
ZZ115477		0.41	0.006	0.08	5.78	31.1	820	1.10	0.60	0.68	0.29	74.6	7.0	69	5.21	22.3
ZZ115478		0.39	0.005	0.06	5.43	23.5	730	1.19	1.07	0.56	0.35	72.3	7.4	64	4.85	19.0
ZZ115479		0.44	0.007	0.16	6.36	26.6	920	1.39	0.52	0.72	0.36	85.2	11.6	72	6.56	34.5
ZZ115480		0.41	0.003	0.02	6.09	22.1	820	1.14	0.47	0.67	0.21	63.6	9.7	72	5.33	22.7
ZZ115481		0.39	0.010	0.11	5.32	26.8	750	1.16	0.78	0.76	0.35	80.6	9.8	60	4.38	27.5
ZZ115482		0.42	0.004	0.08	6.28	26.1	840	1.37	0.91	0.59	0.37	77.1	9.4	66	8.37	29.6
ZZ115483		0.39	0.004	0.08	5.39	20.4	780	1.09	0.41	0.70	0.22	65.8	7.8	67	4.37	19.6
ZZ115484		0.47	0.004	0.07	5.83	18.9	790	1.33	1.44	0.63	0.19	60.9	6.7	73	6.32	21.9
ZZ115485		0.37	0.010	0.08	5.54	20.3	740	1.49	1.18	0.63	0.53	69.1	25.0	68	7.88	30.3
ZZ115486		0.47	0.004	0.10	5.72	16.1	760	1.38	0.77	0.61	0.32	68.2	7.1	78	13.55	20.1
ZZ115487		0.54	0.015	0.18	4.89	15.2	890	1.62	1.03	1.05	0.57	107.0	9.8	67	3.37	44.8
ZZ115488		0.40	0.002	0.09	5.23	14.4	770	1.26	1.18	0.76	0.15	70.7	5.4	69	5.31	20.9
ZZ115489		0.42	0.018	0.18	5.34	16.3	840	1.46	0.97	0.90	0.26	92.6	10.4	65	4.36	37.5
ZZ115490		0.54	0.006	0.14	5.47	26.8	830	1.59	1.34	0.82	0.15	90.6	7.4	69	5.95	31.3
ZZ115491		0.44	0.005	0.16	5.22	29.5	820	1.51	1.27	0.80	0.20	83.6	7.8	63	5.69	42.3
ZZ115492		0.44	0.007	0.10	5.50	40.2	800	1.68	1.89	0.78	0.20	88.7	8.4	65	7.12	52.9
ZZ115493		0.49	0.003	0.10	5.57	39.5	850	1.63	1.00	0.73	0.20	70.8	7.9	67	7.41	69.5
ZZ115494		0.41	0.001	0.23	5.84	15.5	840	1.76	2.13	0.72	0.31	67.9	9.2	68	14.40	42.2
ZZ115495		0.42	0.004	0.16	5.76	19.8	850	1.54	1.90	0.71	0.44	76.9	9.4	70	11.30	42.2
ZZ115496		0.38	0.003	0.24	5.07	12.4	760	1.50	3.60	0.71	0.49	59.1	7.5	63	16.60	40.1
ZZ115497		0.44	0.004	0.17	6.06	16.7	910	2.03	1.88	0.73	0.28	78.5	8.5	68	12.80	45.6
ZZ115498		0.45	0.011	0.15	5.42	16.1	850	1.89	2.46	0.85	0.34	83.5	9.5	63	7.99	46.4
ZZ115499		0.41	0.010	0.18	5.68	16.8	860	1.74	1.86	0.76	0.32	79.7	9.2	67	8.78	39.5
ZZ115500		0.40	0.007	0.10	5.10	16.9	760	1.49	1.50	0.86	0.28	90.9	10.4	67	5.38	39.3
ZZ124919		0.44	0.001	0.32	8.59	17.0	800	3.47	3.89	0.49	0.36	138.0	7.7	63	41.3	80.8
ZZ124920		0.55	0.002	0.10	5.87	12.3	840	2.13	3.28	0.61	0.24	69.7	7.7	59	15.85	52.7



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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ115463		3.38	13.95	0.14	2.0	0.102	1.36	35.3	33.9	0.76	449	1.25	0.95	11.2	25.1	940
ZZ115464		3.16	12.85	0.13	2.0	0.081	1.24	35.5	26.3	0.66	372	1.19	0.95	11.5	18.1	860
ZZ115465		4.14	16.10	0.15	2.3	0.274	1.77	46.7	39.0	0.76	850	1.06	0.92	11.8	37.0	970
ZZ115466		3.36	14.85	0.14	2.2	0.179	1.54	44.5	31.0	0.71	539	1.12	1.11	13.0	25.4	790
ZZ115467		3.13	13.50	0.15	2.2	0.066	1.35	36.0	23.7	0.63	443	1.22	0.93	12.6	18.2	880
ZZ115468		3.98	16.80	0.17	2.5	0.081	1.96	51.9	35.5	0.75	437	1.28	0.90	13.8	23.9	560
ZZ115469		3.37	12.75	0.14	2.0	0.069	1.40	37.2	29.3	0.60	664	1.06	0.90	11.6	22.9	770
ZZ115470		3.64	14.30	0.14	1.9	0.057	1.59	39.8	41.9	0.71	515	1.03	0.92	11.0	29.7	670
ZZ115471		3.39	13.50	0.16	2.5	0.064	1.46	56.6	35.0	0.65	793	1.05	0.91	12.3	27.0	840
ZZ115472		3.13	12.45	0.15	2.0	0.061	1.20	34.6	24.4	0.61	472	1.05	0.95	11.5	19.6	950
ZZ115473		3.06	11.10	0.13	2.0	0.078	1.18	41.8	22.2	0.60	476	0.91	0.91	11.6	18.9	860
ZZ115474		3.15	11.45	0.14	2.2	0.060	1.20	42.1	22.2	0.65	536	0.97	0.99	12.7	25.3	900
ZZ115475		3.55	14.20	0.16	2.4	0.064	1.33	45.1	26.9	0.73	540	1.32	1.03	13.8	24.7	980
ZZ115476		3.32	12.25	0.13	2.0	0.070	1.23	36.0	36.7	0.69	755	0.98	0.99	10.4	27.9	1310
ZZ115477		3.10	14.50	0.12	2.4	0.085	1.35	37.1	25.7	0.65	338	1.12	0.90	13.5	19.6	940
ZZ115478		2.94	13.15	0.13	1.9	0.065	1.20	35.5	25.1	0.54	325	0.93	0.78	13.5	20.1	780
ZZ115479		3.55	14.50	0.15	2.4	0.070	1.44	42.9	28.6	0.74	555	1.20	0.99	12.4	27.7	800
ZZ115480		3.60	14.20	0.11	2.1	0.072	1.27	32.0	25.2	0.74	504	1.21	0.95	11.8	20.9	790
ZZ115481		3.09	11.60	0.14	2.2	0.065	1.19	39.4	24.7	0.63	510	0.85	0.90	12.2	23.8	920
ZZ115482		3.39	13.70	0.13	2.1	0.086	1.56	38.9	31.8	0.65	486	0.94	0.82	12.8	20.4	680
ZZ115483		2.99	14.15	0.10	2.0	0.080	1.25	33.3	26.9	0.63	395	1.40	0.90	13.3	18.4	690
ZZ115484		3.17	15.90	0.11	2.1	0.105	1.37	31.1	28.2	0.65	376	1.26	0.88	13.2	18.1	930
ZZ115485		3.64	14.70	0.12	1.8	0.133	1.32	36.0	29.0	0.63	1560	1.42	0.84	12.0	21.2	1040
ZZ115486		2.85	16.80	0.12	2.0	0.109	1.35	34.7	32.2	0.60	442	1.07	0.83	13.8	19.2	1030
ZZ115487		3.17	12.15	0.17	2.4	0.083	1.24	53.2	24.7	0.66	573	1.15	0.99	14.3	31.0	920
ZZ115488		2.95	13.85	0.14	2.1	0.084	1.26	35.3	25.9	0.64	278	1.06	0.96	13.8	16.5	890
ZZ115489		3.07	12.50	0.13	2.1	0.097	1.28	44.8	27.5	0.67	529	0.93	1.05	13.7	27.6	930
ZZ115490		3.06	14.35	0.16	2.3	0.114	1.29	44.8	29.4	0.69	382	1.14	0.99	14.7	19.8	770
ZZ115491		2.88	13.50	0.14	2.2	0.122	1.27	40.7	28.3	0.65	391	1.00	0.96	13.2	19.8	790
ZZ115492		3.16	13.70	0.15	2.3	0.141	1.30	43.8	32.7	0.65	412	1.06	0.93	18.5	21.2	860
ZZ115493		3.13	14.00	0.14	2.0	0.093	1.30	36.8	33.7	0.69	377	1.05	0.99	11.5	20.8	740
ZZ115494		3.24	15.90	0.14	2.2	0.196	1.33	35.1	34.6	0.73	505	1.67	0.90	12.3	21.4	1010
ZZ115495		3.45	15.50	0.13	2.1	0.172	1.37	38.3	32.9	0.72	506	1.75	0.91	12.6	22.1	1080
ZZ115496		2.97	14.35	0.10	1.7	0.276	1.23	30.1	28.7	0.57	682	1.74	0.74	11.0	19.1	1380
ZZ115497		3.42	15.60	0.14	2.1	0.155	1.53	40.1	38.6	0.73	438	1.18	0.98	12.6	23.3	770
ZZ115498		3.18	13.55	0.14	1.9	0.129	1.37	41.3	31.4	0.66	502	1.07	0.99	12.6	23.6	850
ZZ115499		3.30	14.70	0.13	2.1	0.111	1.39	39.5	31.7	0.68	501	1.18	0.98	13.4	21.6	880
ZZ115500		3.28	12.70	0.14	2.2	0.097	1.18	43.3	24.9	0.66	586	1.05	0.95	13.5	22.3	1020
ZZ124919		3.26	23.3	0.20	2.0	0.624	2.64	68.0	91.5	0.61	265	0.86	0.45	16.4	16.5	600
ZZ124920		3.36	16.00	0.13	1.8	0.314	1.58	33.7	41.1	0.63	404	0.98	0.83	12.0	19.2	520



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ115463		15.5	76.3	<0.002	0.02	1.18	12.3	1	4.5	135.0	0.73	<0.05	11.75	0.399	0.84	3.5
ZZ115464		15.0	62.8	<0.002	0.02	1.01	10.4	<1	2.9	135.5	0.76	<0.05	10.40	0.429	0.61	2.7
ZZ115465		22.2	116.5	<0.002	0.03	0.92	11.2	1	23.4	154.5	0.87	0.05	15.55	0.421	1.24	3.4
ZZ115466		16.2	85.7	<0.002	0.03	1.06	11.2	1	8.0	166.5	0.84	<0.05	14.20	0.435	0.80	3.0
ZZ115467		14.0	78.1	<0.002	0.03	1.04	10.6	1	4.6	132.5	0.80	<0.05	10.65	0.415	0.77	2.7
ZZ115468		16.5	107.5	<0.002	0.06	0.99	12.1	1	4.4	131.5	0.99	<0.05	16.85	0.440	1.13	3.1
ZZ115469		15.3	75.6	<0.002	0.03	1.04	9.7	1	2.8	123.5	0.73	0.05	12.45	0.415	0.81	2.7
ZZ115470		15.5	80.3	<0.002	0.02	1.03	11.0	1	2.5	130.0	0.72	<0.05	11.80	0.393	0.87	2.8
ZZ115471		21.3	74.3	0.002	0.03	1.27	10.8	1	2.1	141.0	0.79	<0.05	14.45	0.452	0.65	3.3
ZZ115472		15.1	60.9	0.002	0.02	1.05	9.9	1	2.1	139.0	0.80	<0.05	10.25	0.453	0.59	2.5
ZZ115473		13.9	57.2	<0.002	0.01	1.01	9.2	1	2.4	130.0	0.80	<0.05	11.45	0.469	0.58	2.5
ZZ115474		14.0	56.4	<0.002	0.01	1.20	10.6	1	2.0	148.0	0.82	<0.05	11.95	0.484	0.56	2.9
ZZ115475		17.3	68.8	<0.002	0.02	1.28	12.3	1	2.3	156.5	0.89	<0.05	13.30	0.493	0.71	3.2
ZZ115476		16.2	63.3	<0.002	0.01	1.12	10.7	1	2.0	151.5	0.69	<0.05	11.20	0.402	0.61	2.6
ZZ115477		15.9	70.0	0.002	0.02	1.13	11.2	1	2.8	134.0	0.89	<0.05	10.95	0.464	0.77	2.9
ZZ115478		14.7	57.2	<0.002	0.02	1.01	10.2	1	2.7	112.5	0.86	<0.05	9.97	0.447	0.72	2.3
ZZ115479		16.6	72.1	<0.002	0.02	1.23	12.4	<1	2.8	147.0	0.82	<0.05	11.90	0.439	0.76	3.0
ZZ115480		17.0	63.6	<0.002	0.02	1.18	11.5	1	2.4	135.0	0.74	<0.05	9.87	0.424	0.65	2.4
ZZ115481		14.5	60.5	<0.002	0.02	1.10	9.8	1	2.4	134.0	0.79	<0.05	11.70	0.442	0.54	2.5
ZZ115482		15.2	82.2	<0.002	0.02	0.96	10.2	1	4.2	114.5	0.88	<0.05	12.60	0.482	0.88	2.6
ZZ115483		16.0	63.6	<0.002	0.02	1.17	10.2	1	2.6	131.5	0.89	<0.05	9.68	0.451	0.62	2.3
ZZ115484		15.1	82.9	<0.002	0.02	1.01	10.6	1	4.7	128.0	0.88	<0.05	9.66	0.454	0.73	2.3
ZZ115485		17.0	78.8	<0.002	0.02	1.06	9.4	1	4.5	122.5	0.86	<0.05	13.60	0.411	0.73	2.4
ZZ115486		14.9	77.3	<0.002	0.03	0.83	10.6	1	6.8	121.0	0.90	<0.05	10.15	0.445	0.91	2.5
ZZ115487		12.8	60.2	<0.002	0.01	1.29	10.2	1	3.9	162.0	1.00	<0.05	14.10	0.506	0.51	3.6
ZZ115488		15.4	64.6	<0.002	0.02	0.97	9.6	1	4.2	137.5	1.09	<0.05	10.65	0.461	0.63	3.0
ZZ115489		13.2	66.3	<0.002	0.01	1.15	9.8	1	3.7	157.5	1.02	<0.05	12.80	0.469	0.62	3.2
ZZ115490		15.6	73.1	<0.002	0.01	1.15	10.9	1	4.8	145.5	1.12	<0.05	13.45	0.476	0.79	4.0
ZZ115491		14.1	70.1	<0.002	0.02	1.05	10.3	1	5.3	143.0	0.97	<0.05	11.90	0.429	0.69	3.8
ZZ115492		16.0	74.3	<0.002	0.02	1.05	10.0	1	5.8	136.0	2.17	0.05	14.10	0.461	0.78	5.7
ZZ115493		14.3	71.1	<0.002	0.02	0.97	10.2	1	4.4	139.5	0.80	0.05	10.20	0.403	0.69	2.7
ZZ115494		17.0	81.7	<0.002	0.04	1.05	10.6	1	12.3	136.5	0.83	<0.05	9.76	0.390	1.00	2.6
ZZ115495		14.9	84.3	<0.002	0.06	1.08	10.4	1	8.7	137.5	0.81	0.07	11.40	0.421	0.90	2.8
ZZ115496		14.5	86.0	<0.002	0.07	0.94	8.7	1	16.6	119.5	0.73	<0.05	9.07	0.359	0.97	2.4
ZZ115497		17.3	95.7	<0.002	0.04	1.09	10.8	1	8.1	140.5	0.84	0.05	12.20	0.403	1.04	2.8
ZZ115498		15.7	78.8	<0.002	0.03	1.10	9.8	1	7.8	145.5	0.86	<0.05	12.25	0.425	0.76	2.8
ZZ115499		17.3	84.8	<0.002	0.03	1.10	10.4	1	5.8	144.0	0.88	<0.05	12.20	0.434	0.89	3.2
ZZ115500		14.1	63.4	<0.002	0.02	1.09	9.5	1	4.2	142.0	0.93	<0.05	12.65	0.484	0.61	3.1
ZZ124919		22.1	283	<0.002	0.11	1.96	12.1	1	40.4	93.7	1.12	<0.05	22.6	0.476	4.23	3.5
ZZ124920		40.7	107.0	0.002	0.04	1.16	9.4	1	18.8	119.5	0.78	<0.05	11.85	0.365	1.66	2.4



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ115463		118	2.6	14.4	95	65.4
ZZ115464		119	1.8	12.9	75	69.2
ZZ115465		105	5.8	16.5	213	70.2
ZZ115466		107	3.6	15.9	151	78.1
ZZ115467		112	1.5	12.6	62	75.9
ZZ115468		102	2.1	11.3	85	86.5
ZZ115469		97	1.9	11.7	85	72.1
ZZ115470		101	2.6	12.7	96	66.5
ZZ115471		99	1.4	17.0	102	85.8
ZZ115472		108	1.6	12.4	88	69.1
ZZ115473		105	1.8	12.5	101	70.6
ZZ115474		103	1.7	15.6	98	75.5
ZZ115475		124	2.2	18.4	102	83.6
ZZ115476		104	3.2	16.1	138	67.2
ZZ115477		122	2.2	12.6	81	83.8
ZZ115478		101	5.9	12.3	84	65.6
ZZ115479		115	2.3	17.5	107	75.6
ZZ115480		122	2.0	12.4	86	83.1
ZZ115481		97	2.7	14.2	100	73.3
ZZ115482		106	3.4	11.6	122	71.4
ZZ115483		111	2.0	11.6	75	66.9
ZZ115484		120	5.3	11.5	76	71.4
ZZ115485		102	8.8	11.8	110	56.6
ZZ115486		111	4.4	11.8	85	68.5
ZZ115487		115	9.7	23.8	91	80.1
ZZ115488		113	3.8	12.2	59	71.4
ZZ115489		101	4.0	15.7	88	71.3
ZZ115490		110	4.7	16.2	70	74.9
ZZ115491		105	5.2	16.3	73	95.7
ZZ115492		104	8.8	18.2	82	72.5
ZZ115493		109	3.4	14.4	89	69.1
ZZ115494		113	5.6	12.7	106	66.5
ZZ115495		116	2.7	13.3	121	68.9
ZZ115496		97	4.3	10.9	122	66.5
ZZ115497		106	6.5	14.1	96	66.5
ZZ115498		102	8.7	15.0	98	68.5
ZZ115499		109	4.3	14.5	85	72.0
ZZ115500		108	10.4	15.4	83	74.0
ZZ124919		91	45.6	15.2	107	64.6
ZZ124920		95	20.7	11.2	127	60.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	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
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ124921		0.40	0.003	0.24	5.90	14.2	910	1.68	3.03	0.87	0.41	73.6	8.5	70	11.75	58.5
ZZ124922		0.37	0.005	0.31	5.54	15.3	900	1.72	7.01	0.88	0.22	69.1	10.6	78	15.25	68.3
ZZ124923		0.41	0.004	0.42	6.26	14.7	1030	1.85	3.12	0.92	0.26	74.0	11.3	68	7.78	59.2
ZZ124924		0.41	0.002	0.17	6.43	35.8	930	1.97	5.03	0.71	0.28	83.6	9.0	66	17.85	74.3
ZZ124925		0.39	0.018	0.85	8.26	60.1	900	3.62	23.4	0.72	3.69	84.1	11.7	75	45.8	161.0
ZZ124926		0.47	0.006	0.77	6.56	17.8	810	3.30	9.23	0.85	1.12	108.5	13.4	69	26.1	205
ZZ124927		0.41	0.003	0.45	5.32	44.4	760	1.57	6.67	0.69	0.18	65.4	6.0	61	10.70	53.9
ZZ124928		0.35	0.004	0.13	5.14	17.7	750	1.31	2.13	0.75	0.18	72.2	6.0	66	8.18	37.0
ZZ124929		0.38	0.012	0.13	5.04	23.9	720	1.09	1.38	0.76	0.13	80.8	6.2	63	4.41	39.3
ZZ124930		0.40	0.003	0.07	4.48	12.8	640	0.93	0.97	0.65	0.08	60.8	4.4	55	3.27	24.7
ZZ124931		0.41	0.013	0.09	4.70	13.7	680	1.18	0.99	0.70	0.12	69.4	8.5	58	3.87	31.6
ZZ124932		0.42	0.004	0.11	5.42	16.9	820	1.44	1.16	0.81	0.20	75.6	10.1	69	5.12	43.4
ZZ124933		0.43	0.012	0.18	5.18	13.8	860	1.55	0.83	1.08	0.33	90.6	10.1	64	3.65	34.8
ZZ124934		0.54	0.005	0.25	5.03	20.7	740	1.33	1.59	0.88	0.32	80.1	9.0	59	3.29	48.2
ZZ124935		0.34	0.003	0.12	5.21	17.4	760	1.38	1.06	0.77	0.26	70.7	14.8	62	5.13	23.7
ZZ124936		0.41	0.003	0.05	5.76	16.6	790	1.73	0.66	0.74	0.21	68.8	10.5	61	6.48	32.9
ZZ124937		0.42	0.003	0.05	4.79	17.2	750	1.38	0.33	0.84	0.26	96.4	11.9	57	2.83	27.1
ZZ124938		0.42	0.008	0.03	5.31	14.2	800	1.37	0.41	0.75	0.24	67.9	10.4	58	3.42	21.3
ZZ124939		0.43	0.006	0.06	5.04	17.3	710	1.30	1.16	0.69	0.31	67.9	12.3	58	3.60	21.8
ZZ124940		0.46	0.009	0.04	5.37	15.4	730	1.47	1.32	0.78	0.27	80.9	10.0	67	4.41	30.6
ZZ124941		0.36	0.015	0.05	5.13	18.7	710	1.31	0.77	0.74	0.32	80.5	14.1	64	4.02	21.2
ZZ124942		0.39	0.005	0.04	4.67	17.7	690	1.16	0.32	0.72	0.38	72.0	20.3	61	3.39	21.2
ZZ124943		0.45	0.006	0.44	6.24	31.7	830	1.89	0.88	0.60	0.33	96.7	9.2	64	12.70	32.9
ZZ124944		0.40	0.003	0.10	4.10	14.3	600	1.02	0.17	0.73	0.22	56.9	9.7	40	1.59	20.7
ZZ124945		0.43	0.005	0.16	6.56	41.1	860	2.25	6.12	0.39	0.38	93.4	16.2	60	10.70	55.8
ZZ124946		0.40	0.005	0.08	5.72	22.8	800	1.68	1.37	0.55	0.45	75.9	11.1	64	12.80	31.4
ZZ124947		0.41	0.002	0.08	5.28	22.0	750	1.12	0.94	0.63	0.32	64.9	8.1	61	4.12	18.6
ZZ124948		0.43	0.003	0.04	5.61	24.8	830	1.36	0.96	0.71	0.28	74.3	11.9	61	3.79	24.9
ZZ124949		0.47	0.003	0.06	7.42	27.8	900	1.76	2.17	0.48	0.27	91.4	9.9	76	7.39	33.3
ZZ124950		0.50	0.004	0.10	7.03	37.5	880	1.78	2.53	0.51	0.21	89.5	8.0	70	7.17	32.0
ZZ124951		0.47	0.001	0.19	8.33	25.7	940	2.07	2.41	0.34	0.31	123.0	7.4	81	8.66	37.5
ZZ124952		0.42	0.004	0.15	7.34	40.3	980	1.70	2.14	0.56	0.43	88.0	9.3	81	7.39	38.3
ZZ124953		0.47	0.002	0.05	5.84	19.5	860	1.39	0.54	0.72	0.21	69.5	10.4	65	3.52	26.5
ZZ124954		0.45	0.005	0.05	5.98	28.8	840	1.31	1.37	0.57	0.24	75.6	7.8	69	7.01	28.5
ZZ124955		0.42	0.001	0.08	5.60	21.9	790	1.51	0.99	0.59	0.32	70.5	12.8	66	13.30	27.7
ZZ124956		0.41	0.005	0.04	4.76	16.7	680	1.23	0.52	0.61	0.20	63.4	7.0	57	5.31	19.3
ZZ124957		0.44	0.009	0.05	4.06	15.6	620	1.05	0.30	0.74	0.25	72.6	9.9	46	2.27	22.5
ZZ124958		0.40	0.001	0.09	5.34	15.4	710	1.33	1.11	0.64	0.22	63.2	10.4	58	6.14	28.8
ZZ124959		0.53	0.002	0.18	5.09	17.1	750	1.64	1.59	0.70	0.49	78.4	9.1	52	5.34	40.5
ZZ124960		0.46	0.004	0.26	6.06	39.8	840	1.61	0.94	0.72	0.40	88.5	14.7	66	9.66	33.8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ124921		3.34	15.10	0.13	2.0	0.172	1.41	37.4	33.3	0.78	409	1.33	0.97	12.6	24.9	930
ZZ124922		3.26	14.55	0.12	1.8	0.180	1.28	35.7	34.7	0.93	458	1.89	0.82	15.2	32.3	1000
ZZ124923		3.38	15.80	0.14	2.0	0.123	1.58	36.9	33.6	0.81	512	1.32	1.09	12.5	27.8	570
ZZ124924		4.14	16.75	0.14	1.9	0.258	1.69	40.1	38.6	0.72	505	1.17	0.94	12.7	23.9	600
ZZ124925		4.59	23.2	0.16	1.8	0.941	2.06	46.0	63.0	0.67	795	1.14	0.60	13.8	24.1	840
ZZ124926		3.94	18.50	0.19	2.0	0.511	1.53	52.1	40.3	0.67	701	1.03	0.78	14.5	31.7	700
ZZ124927		2.92	14.25	0.13	2.0	0.200	1.25	33.8	29.6	0.61	301	1.65	0.89	13.5	18.5	890
ZZ124928		3.09	14.05	0.15	2.2	0.108	1.20	36.0	26.0	0.65	328	1.69	0.90	14.0	18.1	1050
ZZ124929		3.09	13.00	0.16	2.4	0.088	1.10	40.1	23.9	0.63	323	1.51	0.94	14.1	17.4	830
ZZ124930		2.56	12.05	0.13	1.7	0.062	1.01	30.3	19.9	0.52	227	1.09	0.89	11.5	13.0	850
ZZ124931		2.73	12.40	0.13	2.0	0.060	1.05	34.8	22.2	0.55	440	1.22	0.91	12.9	15.6	920
ZZ124932		3.20	14.20	0.13	2.2	0.079	1.24	37.5	27.0	0.66	580	1.47	1.02	15.0	18.8	1100
ZZ124933		2.96	13.15	0.17	2.6	0.079	1.26	45.8	26.9	0.70	498	1.25	1.05	15.6	29.4	1060
ZZ124934		3.28	11.65	0.16	2.2	0.078	1.14	39.4	24.3	0.63	435	1.26	1.02	13.5	25.2	990
ZZ124935		2.94	12.95	0.14	2.1	0.069	1.15	36.0	28.7	0.61	1220	1.23	0.97	14.1	18.3	1190
ZZ124936		3.28	14.00	0.13	1.8	0.069	1.20	35.0	26.7	0.69	558	1.22	1.02	12.0	20.8	1040
ZZ124937		3.00	11.75	0.16	2.2	0.054	1.14	46.9	25.0	0.62	583	1.05	0.91	13.0	24.8	880
ZZ124938		2.89	13.25	0.13	1.9	0.064	1.22	33.8	26.8	0.64	448	1.01	0.98	11.7	21.8	770
ZZ124939		2.91	13.85	0.13	2.0	0.076	1.12	33.7	25.1	0.60	670	1.07	0.92	11.6	19.2	890
ZZ124940		2.99	14.20	0.14	2.2	0.076	1.19	39.3	25.1	0.59	678	1.08	0.92	12.6	19.3	1070
ZZ124941		3.15	13.90	0.14	2.2	0.075	1.13	40.3	26.0	0.60	909	1.29	0.92	13.1	20.0	1070
ZZ124942		3.21	12.25	0.12	2.0	0.051	1.08	35.3	23.6	0.59	1520	1.23	0.94	11.6	19.6	860
ZZ124943		3.13	16.45	0.18	2.6	0.073	1.65	49.4	52.7	0.67	387	1.17	0.89	13.7	27.0	870
ZZ124944		2.29	8.97	0.11	1.5	0.038	0.89	27.7	18.2	0.50	514	0.63	0.90	9.2	23.4	810
ZZ124945		3.50	17.05	0.17	2.1	0.136	1.82	47.7	48.1	0.66	685	1.01	0.63	15.0	32.7	600
ZZ124946		3.33	15.05	0.13	2.0	0.105	1.41	35.6	43.7	0.66	510	1.08	0.80	12.5	26.2	700
ZZ124947		2.95	14.10	0.14	2.0	0.084	1.27	33.4	25.7	0.56	379	1.08	0.86	12.3	18.1	770
ZZ124948		3.31	14.70	0.15	2.1	0.078	1.36	37.1	27.1	0.68	553	1.21	0.99	12.4	24.1	660
ZZ124949		3.88	19.45	0.16	2.7	0.107	2.04	46.2	35.9	0.63	357	1.04	0.80	14.1	21.7	680
ZZ124950		3.39	19.75	0.16	2.6	0.087	1.94	45.5	30.0	0.63	343	1.31	0.80	14.2	19.3	580
ZZ124951		3.52	24.0	0.19	3.2	0.094	2.45	61.4	29.7	0.53	238	1.14	0.70	17.1	21.2	500
ZZ124952		3.65	20.3	0.16	2.6	0.149	2.04	43.8	31.5	0.69	423	1.52	0.86	15.3	22.7	800
ZZ124953		3.36	14.70	0.12	2.1	0.062	1.30	33.9	26.8	0.72	452	1.21	1.00	11.4	31.8	690
ZZ124954		3.75	17.70	0.15	2.3	0.109	1.61	37.3	28.5	0.60	380	1.62	0.81	13.1	20.2	560
ZZ124955		3.73	16.05	0.14	2.0	0.068	1.39	36.1	41.6	0.66	774	1.58	0.82	12.9	22.8	980
ZZ124956		2.84	12.95	0.12	1.9	0.058	1.14	32.1	27.6	0.57	373	1.00	0.81	11.5	18.2	810
ZZ124957		2.61	9.96	0.12	1.8	0.040	0.96	36.6	19.4	0.53	479	0.73	0.86	10.5	23.9	800
ZZ124958		2.84	14.25	0.12	1.8	0.091	1.18	31.4	27.2	0.56	552	1.22	0.91	11.3	17.1	1070
ZZ124959		2.78	13.10	0.14	1.9	0.138	1.24	39.8	26.2	0.55	454	0.96	0.89	13.2	21.7	810
ZZ124960		3.36	15.75	0.15	2.6	0.082	1.53	44.3	37.9	0.67	1040	1.04	0.98	13.0	24.0	840



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Sample Description	Method	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ124921		18.4	85.7	<0.002	0.04	1.19	11.0	1	10.0	155.5	0.84	<0.05	11.10	0.402	1.07	2.8
ZZ124922		16.9	86.1	<0.002	0.04	1.20	10.8	1	10.1	139.5	0.88	0.06	8.69	0.422	1.44	2.9
ZZ124923		21.7	89.0	<0.002	0.03	1.32	11.3	1	7.8	172.5	0.84	<0.05	10.85	0.399	1.04	2.6
ZZ124924		27.8	116.5	0.002	0.07	1.12	10.7	1	14.9	143.0	0.88	0.06	13.35	0.403	1.51	2.8
ZZ124925		216	228	0.003	0.16	1.35	12.2	2	52.2	127.5	0.98	0.66	18.40	0.387	3.20	3.6
ZZ124926		34.0	134.0	<0.002	0.04	1.28	11.2	1	31.7	139.5	0.99	0.05	15.80	0.437	1.78	3.6
ZZ124927		17.4	78.4	<0.002	0.04	1.18	9.5	1	8.5	129.0	0.98	0.05	11.85	0.398	0.90	3.4
ZZ124928		16.5	66.1	<0.002	0.04	0.99	9.8	1	4.9	138.0	0.96	0.05	10.95	0.446	0.82	3.7
ZZ124929		15.7	59.2	0.002	0.02	1.00	9.4	1	3.0	138.5	1.05	<0.05	12.75	0.470	0.58	4.8
ZZ124930		15.1	51.7	<0.002	0.02	0.94	8.4	1	2.4	126.0	0.89	<0.05	9.27	0.390	0.51	3.7
ZZ124931		14.6	58.5	<0.002	0.02	0.95	8.8	1	2.5	130.0	0.95	<0.05	10.65	0.424	0.53	4.2
ZZ124932		16.3	71.7	<0.002	0.02	1.16	10.4	1	3.4	148.5	1.15	0.05	12.00	0.477	0.62	5.5
ZZ124933		15.3	67.4	<0.002	0.01	1.25	10.5	1	3.2	168.5	1.27	<0.05	12.85	0.471	0.52	4.2
ZZ124934		15.8	57.4	<0.002	0.01	1.18	9.2	1	3.5	153.5	1.09	<0.05	12.30	0.452	0.52	5.7
ZZ124935		14.7	71.5	<0.002	0.02	0.93	9.2	1	2.7	141.5	1.05	<0.05	11.20	0.423	0.61	3.7
ZZ124936		15.5	65.2	<0.002	0.02	1.21	10.8	1	1.9	144.0	0.81	<0.05	11.30	0.376	0.61	4.6
ZZ124937		13.6	57.2	<0.002	0.01	1.47	9.5	1	2.3	138.5	0.94	<0.05	12.70	0.465	0.44	2.8
ZZ124938		14.2	61.5	<0.002	0.01	1.16	9.7	1	2.6	143.0	0.81	<0.05	10.05	0.401	0.51	2.4
ZZ124939		15.2	59.8	<0.002	0.01	1.22	9.0	1	3.5	134.0	0.82	<0.05	10.70	0.403	0.53	2.3
ZZ124940		13.9	65.6	<0.002	0.02	1.08	9.4	1	4.2	138.0	0.89	<0.05	11.20	0.457	0.57	2.6
ZZ124941		14.1	63.9	<0.002	0.02	1.15	9.4	1	3.0	138.0	0.90	<0.05	10.95	0.464	0.47	2.5
ZZ124942		13.1	55.3	<0.002	0.02	1.07	8.3	1	1.8	136.0	0.83	<0.05	9.99	0.429	0.40	2.3
ZZ124943		24.1	87.4	<0.002	0.02	1.18	10.7	1	3.3	132.5	0.95	<0.05	15.75	0.465	0.77	3.4
ZZ124944		12.4	41.1	<0.002	0.01	1.08	6.8	1	1.0	126.0	0.65	<0.05	7.87	0.315	0.27	1.7
ZZ124945		21.5	106.0	<0.002	0.01	1.22	11.2	1	8.8	100.5	1.05	0.06	15.00	0.464	1.18	3.1
ZZ124946		19.6	84.4	<0.002	0.02	1.07	9.4	1	3.8	117.0	0.92	0.06	11.50	0.410	0.88	2.5
ZZ124947		21.8	70.6	<0.002	0.02	1.31	9.5	1	3.2	125.5	0.86	0.05	9.71	0.408	0.66	2.3
ZZ124948		19.0	69.5	<0.002	0.02	1.29	10.2	1	3.0	146.5	0.84	<0.05	11.15	0.402	0.60	2.4
ZZ124949		22.1	103.0	<0.002	0.02	1.12	12.0	1	4.3	122.5	1.03	<0.05	15.55	0.449	1.12	3.0
ZZ124950		19.3	107.5	<0.002	0.02	1.15	12.2	1	5.5	129.5	0.99	<0.05	14.80	0.434	1.00	2.9
ZZ124951		27.5	131.0	<0.002	0.02	1.03	13.7	1	6.4	124.5	1.27	<0.05	18.85	0.495	1.36	3.5
ZZ124952		33.8	112.5	<0.002	0.02	1.32	12.7	1	6.8	136.5	1.03	0.06	14.55	0.487	1.15	3.1
ZZ124953		16.2	66.5	<0.002	0.02	1.25	10.8	1	2.3	145.5	0.77	<0.05	10.25	0.392	0.55	2.5
ZZ124954		18.7	88.8	<0.002	0.02	1.31	10.3	1	4.1	123.5	0.93	<0.05	11.80	0.440	0.80	2.9
ZZ124955		16.2	91.1	<0.002	0.02	1.12	9.6	1	3.5	120.5	0.87	0.07	10.30	0.427	0.76	2.4
ZZ124956		14.1	65.3	<0.002	0.02	0.93	8.2	1	2.9	119.0	0.81	<0.05	9.38	0.390	0.59	2.1
ZZ124957		12.6	45.4	<0.002	0.01	1.20	7.3	1	2.7	121.0	0.75	<0.05	9.46	0.386	0.34	2.1
ZZ124958		14.3	70.9	<0.002	0.02	0.91	9.0	1	4.5	130.0	0.79	<0.05	9.65	0.390	0.67	2.7
ZZ124959		15.3	74.4	<0.002	0.01	1.02	8.7	<1	4.0	128.5	1.00	<0.05	11.90	0.413	0.68	4.0
ZZ124960		18.8	76.7	<0.002	0.03	1.15	10.4	1	3.2	150.0	0.93	0.05	12.50	0.435	0.82	3.1



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
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		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ124921		117	3.6	14.0	113	69.6
ZZ124922		129	5.1	15.1	152	64.5
ZZ124923		120	2.7	14.5	102	66.2
ZZ124924		108	3.7	12.7	113	61.2
ZZ124925		92	26.8	15.3	408	55.7
ZZ124926		97	13.7	19.5	277	65.9
ZZ124927		105	4.3	12.0	68	65.0
ZZ124928		116	3.5	13.4	67	72.1
ZZ124929		107	2.8	13.5	62	76.3
ZZ124930		97	1.9	10.8	46	59.0
ZZ124931		101	2.1	12.8	55	69.0
ZZ124932		118	2.2	14.3	73	72.6
ZZ124933		115	2.3	19.0	96	82.6
ZZ124934		98	6.0	15.5	94	71.7
ZZ124935		106	1.9	12.8	76	70.0
ZZ124936		106	2.4	15.6	79	59.7
ZZ124937		103	2.3	15.9	75	74.4
ZZ124938		106	2.2	13.0	75	65.9
ZZ124939		102	3.2	12.6	71	65.7
ZZ124940		105	10.5	14.3	75	72.5
ZZ124941		106	2.9	13.6	78	73.5
ZZ124942		98	1.6	12.3	75	70.3
ZZ124943		107	2.2	15.1	135	88.2
ZZ124944		72	0.9	11.3	72	50.8
ZZ124945		94	6.1	15.5	147	74.0
ZZ124946		105	3.4	11.6	123	65.5
ZZ124947		105	2.4	11.7	68	69.3
ZZ124948		111	1.8	12.8	76	71.4
ZZ124949		116	3.2	12.2	98	89.9
ZZ124950		119	2.9	12.5	69	90.3
ZZ124951		117	4.8	12.4	92	108.5
ZZ124952		131	3.7	12.9	95	92.4
ZZ124953		116	1.5	14.9	75	71.7
ZZ124954		130	3.0	11.3	83	77.7
ZZ124955		116	2.5	12.5	94	72.4
ZZ124956		97	1.8	11.5	73	63.1
ZZ124957		83	1.4	13.0	68	63.2
ZZ124958		99	2.2	11.4	72	64.0
ZZ124959		93	3.2	15.9	93	67.2
ZZ124960		104	3.1	16.6	114	88.1



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ124961		0.41	0.006	0.07	4.58	13.3	640	1.18	0.57	0.69	0.15	64.2	5.6	55	3.26	15.3
ZZ124962		0.44	0.003	0.08	5.28	16.4	840	1.60	0.59	0.82	0.38	84.6	11.6	56	3.85	34.3
ZZ124963		0.49	0.003	0.07	6.23	12.9	840	2.23	0.76	0.79	0.18	87.5	10.9	60	5.86	39.1
ZZ124964		0.38	0.007	0.04	3.88	15.9	660	0.98	0.31	0.60	0.25	56.5	12.7	45	2.42	17.7
ZZ124965		0.51	0.014	0.87	5.59	21.4	750	2.49	2.75	0.71	0.25	83.2	6.7	53	15.25	62.2
ZZ124966		0.57	0.008	0.21	4.96	13.1	740	1.33	1.66	0.74	0.16	64.1	7.1	58	3.96	27.9
ZZ124967		0.50	0.004	0.07	4.54	11.8	670	1.11	0.99	0.68	0.13	69.0	4.9	57	3.63	22.4
ZZ124968		0.43	0.006	0.14	4.42	16.5	660	1.10	0.65	0.75	0.26	60.7	9.3	51	2.48	29.0
ZZ124969		0.46	0.008	0.09	4.33	13.0	680	1.22	1.30	0.77	0.22	69.1	13.6	50	3.37	33.6
ZZ124970		0.49	0.011	0.12	4.52	13.7	700	1.34	1.23	0.84	0.30	91.6	8.3	58	3.77	47.2
YY16951		0.44	0.009	0.07	5.12	17.0	740	1.17	1.19	0.72	0.18	70.5	7.2	65	5.61	31.2
YY16952		0.45	0.016	0.17	4.75	15.9	720	1.33	1.35	0.79	0.36	97.4	8.9	57	4.64	42.6
YY16953		0.44	0.016	0.12	5.06	16.0	740	1.27	1.25	0.76	0.17	82.5	10.2	65	4.82	32.1
YY16954		0.47	0.005	0.12	5.15	16.0	780	1.36	2.13	0.84	0.25	86.5	10.7	62	3.90	41.8
YY16955		0.42	0.006	0.08	4.76	14.9	710	1.21	1.38	0.77	0.19	80.9	18.7	57	4.49	30.0
YY16956		0.41	0.002	0.13	5.08	14.7	740	1.22	1.44	0.74	0.12	65.6	5.8	59	4.65	28.0
YY16957		0.41	0.007	0.11	6.05	24.5	770	1.45	1.37	0.63	0.50	85.4	9.3	65	7.28	27.4
YY16958		0.46	0.006	0.16	7.59	22.7	830	2.21	1.89	0.49	0.65	104.0	11.7	69	13.00	54.5
YY16959		0.42	0.003	0.04	6.57	24.3	800	1.47	1.25	0.58	0.29	69.6	12.0	76	7.03	29.9
YY16960		0.44	0.003	0.04	5.69	16.5	860	1.29	0.32	0.77	0.31	68.5	8.8	68	4.05	20.5
YY16961		0.44	0.004	0.16	5.78	15.7	850	1.42	0.37	1.00	0.38	82.7	12.4	65	4.02	29.4
YY16962		0.51	0.010	0.10	4.90	17.5	710	1.24	0.35	0.90	0.39	90.9	11.4	64	3.65	26.1
YY16963		0.44	0.004	0.08	6.37	24.4	870	1.38	0.76	0.81	0.28	76.0	10.1	78	6.59	26.6
YY16964		0.38	0.003	0.06	6.84	16.8	950	1.38	0.31	0.94	0.48	64.6	10.9	81	4.90	24.1
YY16965		0.40	0.004	0.04	6.31	21.2	860	1.34	0.29	0.84	0.35	75.3	14.7	69	4.70	25.6
YY16966		0.38	0.015	0.03	4.43	16.0	670	0.95	0.23	0.78	0.29	81.5	11.4	56	3.04	19.0
YY16967		0.39	0.011	0.07	4.81	17.2	710	1.00	0.28	0.67	0.29	69.5	10.6	59	4.09	15.9
YY16968		0.40	0.001	0.03	4.94	15.6	730	1.00	0.24	0.70	0.20	65.7	8.1	59	3.70	14.5
YY16969		0.48	0.009	0.48	5.53	23.0	780	1.46	0.43	0.62	0.54	90.3	8.9	57	7.69	29.4
YY16970		0.40	0.003	0.07	6.23	20.4	850	1.45	1.50	0.61	0.33	73.0	11.5	67	10.90	39.2
YY16971		0.48	0.002	0.12	5.80	20.8	830	1.33	2.05	0.67	0.26	76.8	11.8	60	6.02	28.6
YY16972		0.39	0.003	0.05	5.94	17.4	830	1.32	1.43	0.62	0.24	69.6	10.1	64	9.44	21.3
YY16973		0.44	0.002	0.15	6.18	17.7	870	1.34	3.24	0.61	0.23	71.1	9.2	68	8.27	29.5
YY16974		0.49	0.004	0.06	5.99	22.9	860	1.45	1.28	0.65	0.27	88.5	10.2	61	6.60	28.2
YY16975		0.42	0.005	0.07	5.47	19.3	730	1.08	1.64	0.65	0.18	74.7	8.3	67	5.88	25.8
YY16976		0.41	0.002	0.06	5.82	18.0	780	1.13	0.88	0.64	0.19	65.9	9.6	72	7.03	21.1
YY16977		0.42	0.002	0.05	5.95	19.3	790	1.06	1.41	0.63	0.15	70.2	6.9	72	8.18	23.2
YY16978		0.44	0.024	0.11	6.07	36.4	780	1.29	2.10	0.54	0.25	80.7	9.6	62	7.97	27.8
YY16979		0.42	0.004	0.07	6.15	33.5	810	1.32	1.99	0.53	0.28	84.4	7.3	65	7.10	32.4
YY16980		0.41	0.003	0.24	6.09	19.2	840	1.51	0.59	0.68	0.35	73.2	10.9	64	7.36	29.7



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH20190239

Sample Description	Method	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	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ124961		2.62	12.25	0.12	2.1	0.057	0.98	32.3	20.1	0.56	299	1.05	0.88	12.4	14.5	820
ZZ124962		3.01	13.45	0.14	2.2	0.084	1.24	42.0	26.0	0.64	601	1.00	1.01	13.1	27.8	860
ZZ124963		3.34	16.75	0.14	2.3	0.102	1.29	44.1	31.9	0.71	594	1.52	1.02	14.2	20.0	1150
ZZ124964		2.72	10.10	0.11	1.6	0.054	0.90	27.1	18.6	0.51	766	0.98	0.79	9.7	18.1	740
ZZ124965		2.23	16.10	0.15	2.0	0.124	1.19	42.9	37.5	0.59	227	2.92	0.92	14.2	16.4	1200
ZZ124966		2.69	12.95	0.14	1.9	0.054	1.09	31.5	25.1	0.59	329	1.08	0.96	13.0	17.3	960
ZZ124967		2.57	13.40	0.14	2.2	0.059	1.04	36.0	21.1	0.51	259	1.07	0.87	13.1	13.7	840
ZZ124968		2.83	10.80	0.13	1.9	0.053	1.03	30.2	20.2	0.55	488	0.92	0.91	11.1	19.6	1050
ZZ124969		2.69	11.65	0.13	2.2	0.070	1.05	35.8	21.7	0.54	915	1.05	0.87	13.0	19.3	960
ZZ124970		2.77	12.05	0.14	2.3	0.073	1.07	45.5	22.2	0.58	451	1.13	0.90	13.2	22.2	970
YY16951		3.06	13.65	0.12	2.2	0.091	1.19	35.1	23.0	0.62	372	1.18	0.93	12.5	17.9	900
YY16952		2.94	12.10	0.15	2.5	0.109	1.11	50.9	22.7	0.59	492	0.91	0.90	12.9	21.2	900
YY16953		3.01	12.80	0.16	2.5	0.099	1.15	40.2	22.0	0.63	451	1.12	0.96	13.1	19.4	930
YY16954		3.09	12.75	0.15	2.4	0.107	1.18	40.7	22.8	0.65	521	1.12	0.97	14.3	25.0	900
YY16955		3.03	12.25	0.15	2.2	0.101	1.11	37.5	22.1	0.59	1170	1.12	0.90	13.4	18.1	1070
YY16956		2.86	13.05	0.13	2.2	0.088	1.15	32.5	22.0	0.61	274	1.39	0.96	12.9	16.5	910
YY16957		3.18	16.55	0.15	2.3	0.156	1.39	41.1	28.4	0.55	518	0.98	0.81	14.2	20.9	950
YY16958		3.84	19.70	0.16	2.2	0.279	1.79	50.9	39.3	0.60	476	1.06	0.67	17.0	26.1	780
YY16959		3.83	17.65	0.13	2.1	0.129	1.38	33.7	32.7	0.73	586	1.53	0.84	14.0	24.2	610
YY16960		3.13	14.10	0.14	2.1	0.064	1.33	35.6	25.8	0.73	365	1.23	1.01	12.7	21.8	890
YY16961		3.14	12.90	0.14	2.1	0.066	1.31	38.6	25.0	0.73	594	1.05	1.05	12.7	27.4	1070
YY16962		2.99	11.35	0.15	2.4	0.066	1.15	43.4	21.6	0.61	576	1.03	0.94	13.2	25.4	1060
YY16963		3.71	16.40	0.15	2.4	0.090	1.41	36.3	29.4	0.82	441	1.40	1.09	13.9	26.4	920
YY16964		3.86	18.20	0.14	2.5	0.072	1.48	30.9	26.9	0.94	436	1.60	1.29	14.2	28.0	1080
YY16965		3.68	14.25	0.16	2.2	0.064	1.29	36.6	26.9	0.79	779	1.41	1.10	12.7	27.0	1200
YY16966		2.93	11.05	0.14	2.1	0.047	1.02	39.1	19.5	0.57	650	0.95	0.91	12.0	20.5	860
YY16967		2.87	12.85	0.14	2.1	0.059	1.21	33.3	18.3	0.54	693	1.24	0.87	12.0	16.4	1010
YY16968		2.79	12.75	0.13	2.1	0.049	1.16	32.3	19.8	0.57	360	1.00	0.97	11.8	16.7	850
YY16969		2.57	13.75	0.14	2.4	0.061	1.47	42.5	35.5	0.61	320	0.93	0.88	11.8	28.0	750
YY16970		3.46	15.35	0.15	2.1	0.061	1.52	34.6	32.6	0.68	461	1.05	0.89	13.2	26.8	860
YY16971		3.14	13.35	0.14	2.2	0.063	1.41	37.1	26.7	0.65	513	0.92	0.96	11.5	24.7	780
YY16972		3.35	15.15	0.15	2.1	0.061	1.38	33.1	27.5	0.62	463	1.20	0.93	12.7	20.7	960
YY16973		3.44	15.35	0.13	2.2	0.067	1.52	34.3	28.2	0.69	437	1.27	0.96	12.7	21.7	1070
YY16974		3.32	14.75	0.16	2.3	0.060	1.52	41.8	27.8	0.71	393	1.12	0.96	12.7	24.0	670
YY16975		3.19	14.25	0.14	2.5	0.080	1.28	36.1	22.8	0.69	377	1.20	0.88	12.5	19.6	880
YY16976		3.62	15.00	0.13	2.2	0.057	1.31	31.5	27.6	0.74	485	1.40	0.93	12.0	23.1	840
YY16977		3.47	16.20	0.15	2.4	0.067	1.34	34.1	26.3	0.71	336	1.26	0.94	13.7	19.2	870
YY16978		3.29	15.20	0.14	2.3	0.152	1.54	38.3	30.8	0.61	504	1.11	0.82	12.9	22.1	840
YY16979		3.19	15.55	0.16	2.3	0.167	1.67	41.4	32.6	0.59	337	1.16	0.83	13.7	23.0	600
YY16980		3.17	14.40	0.13	2.1	0.075	1.40	35.2	34.6	0.67	462	1.31	0.98	12.5	26.3	950



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 LIMITED
 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH20190239

Sample Description	Method	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ124961		12.4	53.2	<0.002	0.02	0.90	8.2	1	2.1	124.5	0.88	<0.05	9.21	0.431	0.44	2.5
ZZ124962		14.7	67.6	<0.002	0.01	1.26	9.8	1	2.5	153.5	0.97	<0.05	12.40	0.409	0.55	4.2
ZZ124963		15.2	85.8	<0.002	0.02	1.24	10.8	1	2.9	148.0	1.08	0.05	14.05	0.423	0.70	4.8
ZZ124964		13.0	44.9	<0.002	0.02	1.04	6.6	1	1.7	106.5	0.70	<0.05	8.19	0.343	0.33	2.3
ZZ124965		17.6	82.7	<0.002	0.03	0.88	8.8	1	3.7	134.0	1.17	0.05	15.75	0.389	0.78	11.6
ZZ124966		13.6	61.5	<0.002	0.02	0.99	8.6	1	2.3	138.5	0.97	<0.05	10.50	0.398	0.49	3.6
ZZ124967		14.4	60.3	<0.002	0.01	1.01	8.9	1	2.6	127.0	0.93	<0.05	10.95	0.402	0.51	4.0
ZZ124968		12.7	49.9	<0.002	0.01	1.09	7.5	1	1.7	132.0	0.88	<0.05	9.95	0.368	0.39	3.1
ZZ124969		14.4	59.9	<0.002	0.01	1.07	8.1	1	3.2	128.5	1.00	<0.05	10.60	0.402	0.51	4.2
ZZ124970		15.4	58.4	<0.002	0.01	1.10	8.8	1	3.1	138.0	1.01	<0.05	13.35	0.443	0.52	5.3
YY16951		14.6	65.5	<0.002	0.02	1.01	9.1	1	4.3	134.5	0.93	<0.05	11.40	0.449	0.63	3.3
YY16952		13.4	62.0	<0.002	0.01	1.14	9.2	1	4.7	133.5	0.95	<0.05	14.35	0.483	0.61	3.3
YY16953		15.2	61.8	<0.002	0.02	1.06	9.7	1	4.1	142.5	0.87	<0.05	12.45	0.466	0.57	3.4
YY16954		15.5	65.3	<0.002	0.01	1.28	10.3	1	4.3	147.5	1.02	<0.05	12.45	0.497	0.54	4.2
YY16955		14.9	63.8	<0.002	0.02	1.03	8.7	1	5.1	132.5	0.97	<0.05	11.30	0.446	0.53	3.4
YY16956		14.7	62.4	<0.002	0.02	0.98	9.2	1	4.1	137.0	0.92	<0.05	10.10	0.432	0.58	3.8
YY16957		17.3	74.1	<0.002	0.02	1.04	10.5	1	6.7	124.0	0.97	<0.05	12.55	0.465	0.82	2.9
YY16958		18.2	117.0	<0.002	0.02	1.09	11.6	1	10.5	109.0	1.45	<0.05	18.45	0.504	1.33	3.6
YY16959		17.1	80.9	<0.002	0.02	1.19	11.2	1	4.8	126.0	0.94	<0.05	11.20	0.438	0.81	2.6
YY16960		13.9	72.7	<0.002	0.02	1.22	11.1	1	2.4	147.5	0.82	<0.05	9.91	0.424	0.59	2.4
YY16961		14.8	64.4	<0.002	0.01	1.22	10.6	1	2.7	167.5	0.90	<0.05	11.30	0.453	0.58	2.7
YY16962		12.7	56.5	<0.002	0.01	1.20	9.3	1	2.3	147.0	0.91	<0.05	12.90	0.496	0.48	2.8
YY16963		16.7	73.2	<0.002	0.02	1.22	12.1	1	3.0	162.5	0.94	<0.05	11.60	0.486	0.72	3.0
YY16964		18.8	75.2	<0.002	0.03	1.33	13.4	1	2.6	188.0	0.89	0.05	9.76	0.472	0.69	2.8
YY16965		16.2	65.8	<0.002	0.02	1.31	11.7	1	2.2	162.0	0.80	0.05	10.25	0.443	0.54	2.6
YY16966		12.8	48.4	<0.002	0.02	1.08	8.5	1	1.7	134.5	0.83	<0.05	11.10	0.459	0.40	2.4
YY16967		14.6	61.4	<0.002	0.02	1.00	8.7	1	2.3	127.0	0.82	<0.05	9.70	0.436	0.52	2.3
YY16968		13.4	58.0	<0.002	0.02	1.01	9.3	<1	1.9	139.0	0.81	<0.05	9.46	0.423	0.51	2.4
YY16969		22.4	72.4	<0.002	0.03	1.29	9.5	1	2.5	128.5	0.82	<0.05	13.00	0.425	0.71	3.1
YY16970		15.1	81.8	<0.002	0.02	1.06	10.8	1	3.0	129.5	0.88	0.05	11.00	0.428	0.86	2.8
YY16971		14.8	70.9	<0.002	0.02	1.08	10.0	1	2.2	135.0	0.80	<0.05	11.95	0.392	0.69	2.7
YY16972		16.5	83.4	<0.002	0.03	1.06	10.2	1	2.3	131.5	0.86	<0.05	10.05	0.406	0.83	2.6
YY16973		18.3	85.8	<0.002	0.03	1.10	11.1	1	3.1	137.5	0.83	<0.05	11.40	0.422	0.82	2.8
YY16974		14.7	79.0	<0.002	0.03	1.18	11.1	1	4.6	141.0	0.84	<0.05	13.65	0.405	0.82	3.2
YY16975		14.7	67.9	<0.002	0.02	1.06	10.4	1	2.6	129.5	0.84	<0.05	11.30	0.446	0.71	2.6
YY16976		15.4	70.0	<0.002	0.03	1.24	10.8	1	2.1	133.0	0.80	0.05	10.20	0.434	0.71	2.6
YY16977		16.6	71.3	<0.002	0.03	1.09	10.9	1	2.6	132.0	0.89	0.05	10.60	0.478	0.78	2.7
YY16978		36.9	86.8	<0.002	0.02	1.08	10.4	1	4.9	118.0	0.86	0.05	12.35	0.443	0.86	2.6
YY16979		25.3	89.9	<0.002	0.02	1.13	9.8	1	6.6	119.0	0.91	<0.05	13.65	0.453	0.84	2.6
YY16980		17.6	76.9	<0.002	0.02	1.17	10.2	1	3.6	141.5	0.83	<0.05	10.85	0.422	0.82	2.9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
ZZ124961		97	2.9	11.8	52	66.6
ZZ124962		101	3.3	17.1	88	74.1
ZZ124963		115	2.9	16.7	83	76.1
ZZ124964		82	1.6	10.7	60	53.7
ZZ124965		96	5.9	17.7	89	67.1
ZZ124966		100	1.7	12.3	63	67.1
ZZ124967		105	1.7	12.5	45	73.9
ZZ124968		88	1.4	12.2	74	61.5
ZZ124969		93	1.9	13.9	64	69.8
ZZ124970		100	2.2	16.4	73	72.5
YY16951		108	3.9	12.6	67	74.0
YY16952		97	4.5	16.1	85	74.5
YY16953		106	4.4	15.1	69	80.6
YY16954		107	3.6	16.4	82	87.4
YY16955		99	3.3	14.0	70	75.1
YY16956		108	3.0	12.0	58	69.6
YY16957		115	6.7	13.8	93	72.2
YY16958		109	11.7	14.9	171	71.9
YY16959		126	6.0	12.4	97	72.2
YY16960		119	2.0	13.6	82	70.1
YY16961		109	2.4	15.5	118	77.3
YY16962		99	2.9	15.7	94	91.6
YY16963		129	2.3	14.3	95	85.7
YY16964		145	1.8	14.8	95	82.3
YY16965		119	1.7	15.8	111	71.8
YY16966		99	1.6	13.1	67	73.0
YY16967		106	1.7	11.1	66	70.1
YY16968		104	1.7	11.9	59	74.8
YY16969		93	1.5	14.7	105	80.0
YY16970		109	7.5	11.9	88	70.4
YY16971		101	2.1	13.0	85	68.8
YY16972		118	2.4	12.4	72	69.6
YY16973		118	1.8	12.5	75	73.0
YY16974		107	1.6	15.6	74	76.4
YY16975		110	3.4	12.0	67	84.9
YY16976		122	1.5	12.0	78	73.9
YY16977		128	2.0	11.7	66	81.1
YY16978		104	3.1	11.7	82	78.6
YY16979		103	4.1	11.6	89	76.3
YY16980		108	2.3	12.8	99	73.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY16981		0.44	0.004	0.37	5.44	35.4	750	1.35	0.50	0.61	0.35	82.4	8.0	58	9.12	24.9
YY16982		0.42	0.007	0.04	4.58	18.1	660	0.93	0.30	0.68	0.19	70.0	9.8	60	3.66	17.0
YY16983		0.42	0.002	0.05	5.41	16.1	770	1.21	0.22	0.83	0.43	69.2	11.5	60	3.06	23.8
YY16984		0.44	0.006	0.03	5.10	15.3	750	1.11	0.24	0.74	0.14	73.6	8.6	63	3.12	21.0
YY16985		0.40	0.002	0.02	4.91	15.7	710	0.91	0.35	0.67	0.11	61.9	5.5	58	3.78	13.6
YY16986		0.46	0.002	0.03	5.68	16.6	860	1.26	0.36	0.80	0.20	72.1	9.5	65	4.00	24.6
YY16987		0.43	0.005	0.06	5.02	15.9	750	1.13	0.38	0.78	0.35	66.9	11.4	56	3.40	22.1
YY16988		0.39	0.006	0.04	5.42	17.3	730	1.28	0.63	0.68	0.27	65.8	17.3	57	3.69	26.2
YY16989		0.43	0.004	0.07	5.48	19.5	720	1.75	0.54	0.72	0.35	70.2	12.5	53	4.26	25.2
YY16990		0.59	0.003	0.38	5.77	34.0	760	1.49	1.21	0.62	0.29	68.0	5.7	54	18.20	35.5
YY16991		0.53	0.003	0.20	4.78	13.7	710	1.13	0.79	0.75	0.12	72.0	10.7	58	3.91	25.6
YY16992		0.45	0.006	0.12	5.03	13.6	790	1.23	0.60	0.81	0.24	74.1	12.2	57	3.23	30.5
YY16993		0.49	0.012	0.08	4.41	12.6	650	0.95	1.03	0.69	0.14	72.1	7.1	57	3.40	24.5
YY16994		0.47	0.006	0.08	4.95	15.5	730	1.20	2.12	0.79	0.13	81.1	6.0	68	4.25	30.1
YY16995		0.43	0.008	0.11	5.04	15.1	750	1.60	1.49	0.76	0.12	83.6	5.5	66	5.47	29.1
YY16996		0.43	0.010	0.11	4.62	18.6	690	1.25	1.93	0.84	0.26	98.7	10.2	58	4.94	40.1
YY16997		0.38	0.003	0.18	5.21	15.7	730	1.32	1.44	0.73	0.20	76.7	8.2	61	6.44	41.6
YY16998		0.41	0.002	0.14	5.58	15.1	850	1.64	2.17	0.79	0.24	77.2	9.2	71	9.95	48.4
YY16999		0.43	0.012	0.43	7.01	24.5	950	2.20	5.15	0.75	0.53	82.4	9.9	75	21.5	82.4
YY17000		0.42	0.022	0.23	6.22	20.1	900	2.43	4.79	0.88	0.44	105.0	10.5	68	15.15	88.6
CC113969		0.38	0.002	0.05	5.43	18.9	800	1.04	0.48	0.64	0.27	59.5	10.3	70	7.30	22.2
CC113970		0.46	0.007	0.10	5.68	19.6	810	1.14	0.56	0.76	0.24	77.3	7.9	69	4.29	24.8
CC113971		0.41	0.004	0.11	5.11	17.3	730	1.10	0.31	0.77	0.32	71.9	14.4	56	3.16	29.4
CC113972		0.43	0.001	0.07	5.89	18.3	790	1.16	0.45	0.66	0.48	59.9	11.9	66	4.00	17.2
CC113973		0.45	0.005	0.15	6.09	18.3	800	1.48	0.53	0.65	0.72	75.6	12.2	63	5.76	30.6
CC113974		0.52	0.002	0.20	5.39	21.0	700	1.43	1.14	0.65	0.44	73.0	11.9	83	6.19	29.3
CC113975		0.46	0.012	0.17	4.74	23.5	780	1.56	1.95	0.88	0.46	122.0	11.0	66	4.06	71.6
CC113976		0.48	0.007	0.18	5.16	14.2	740	1.16	1.51	0.71	0.11	75.7	6.1	62	6.10	34.5
CC113977		0.44	0.007	0.10	5.16	13.9	750	1.14	1.32	0.79	0.12	84.4	6.4	63	5.37	29.9
CC113978		0.35	0.009	0.07	5.53	15.8	770	1.24	1.04	0.75	0.16	77.6	9.0	64	5.80	32.9
CC113979		0.38	0.004	0.07	4.94	14.0	710	1.06	1.63	0.75	0.12	78.9	5.9	62	4.25	26.3
CC113980		0.44	0.006	0.12	5.46	18.4	810	1.36	1.07	0.81	0.13	81.5	7.5	64	5.79	28.8
CC113981		0.42	0.003	0.08	5.39	23.4	780	1.32	1.71	0.73	0.19	69.6	7.4	63	6.13	35.4
CC113982		0.42	0.013	0.08	5.84	14.4	890	1.72	1.80	0.71	0.24	82.4	8.5	67	10.45	37.5
CC113983		0.44	0.006	0.12	5.46	14.9	850	1.66	1.23	0.72	0.26	76.1	8.0	61	7.91	33.2
CC113984		0.47	0.003	0.17	6.09	17.0	900	2.01	2.84	0.73	0.63	91.0	9.2	69	14.85	74.2
ZZ124971		0.44	0.008	0.15	4.88	16.7	670	1.59	2.51	0.78	0.24	94.4	9.0	57	5.83	56.7
ZZ124972		0.43	0.012	0.11	5.10	14.9	710	1.34	1.26	0.75	0.20	79.8	13.9	61	5.14	46.4
ZZ124973		0.45	0.007	0.23	5.10	14.6	810	1.29	2.61	0.82	0.18	84.0	7.0	66	6.40	66.4
ZZ124974		0.47	0.007	0.34	5.59	15.7	810	1.95	6.64	0.88	0.23	88.3	9.2	65	11.75	111.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH20190239

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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY16981		2.82	13.60	0.15	2.3	0.070	1.39	39.6	35.6	0.60	329	0.99	0.88	11.8	22.7	810
YY16982		2.94	11.45	0.14	2.0	0.059	1.05	34.9	19.8	0.56	567	1.01	0.88	11.7	17.6	790
YY16983		3.10	11.85	0.15	1.9	0.052	1.12	32.4	22.9	0.66	589	1.03	1.03	11.1	26.5	1090
YY16984		3.03	12.55	0.13	2.2	0.054	1.13	35.3	20.5	0.64	406	1.08	1.02	12.2	19.6	820
YY16985		2.61	13.15	0.11	2.0	0.049	1.12	30.0	20.2	0.55	259	0.89	0.94	11.7	15.3	550
YY16986		3.18	13.85	0.13	2.1	0.068	1.26	34.9	24.2	0.70	452	0.99	1.05	12.3	22.7	840
YY16987		2.79	11.55	0.15	2.0	0.056	1.17	31.8	21.7	0.62	548	0.92	0.96	11.2	22.4	920
YY16988		3.07	12.40	0.12	1.9	0.100	1.14	32.0	23.4	0.62	924	1.12	0.88	11.1	22.9	1190
YY16989		2.96	12.35	0.14	1.8	0.074	1.13	35.6	27.0	0.60	594	1.39	0.98	11.9	21.9	800
YY16990		2.55	15.60	0.15	2.0	0.298	1.37	34.0	55.2	0.57	296	1.37	0.82	14.5	14.4	1100
YY16991		2.73	11.50	0.14	2.0	0.069	1.06	35.1	26.3	0.58	615	1.32	0.93	13.2	16.4	920
YY16992		2.87	11.40	0.14	2.2	0.059	1.14	37.8	22.9	0.64	661	1.22	0.96	13.1	21.5	1020
YY16993		2.73	11.35	0.14	2.0	0.093	1.03	35.7	20.5	0.54	377	1.17	0.86	13.5	14.6	790
YY16994		3.03	13.25	0.15	2.6	0.101	1.18	41.0	22.8	0.62	325	1.30	0.92	16.4	16.5	810
YY16995		3.01	13.10	0.15	2.4	0.101	1.18	42.3	24.2	0.62	315	1.46	0.92	15.4	16.5	800
YY16996		2.97	12.05	0.16	2.4	0.149	1.06	49.5	23.3	0.59	576	1.26	0.89	14.4	19.1	900
YY16997		2.90	13.75	0.15	2.0	0.109	1.18	38.7	25.3	0.64	380	1.67	0.94	14.1	19.2	980
YY16998		3.25	14.55	0.15	2.1	0.145	1.31	39.4	29.3	0.73	457	1.42	0.95	14.3	22.3	910
YY16999		3.84	17.60	0.14	2.0	0.336	1.71	40.4	41.1	0.78	508	1.47	0.91	14.3	25.5	910
YY17000		3.67	16.15	0.19	2.4	0.274	1.60	51.5	37.2	0.71	486	1.26	0.94	15.2	26.6	870
CC113969		3.83	15.25	0.14	2.0	0.074	1.33	29.8	25.3	0.67	613	2.16	0.82	13.5	21.2	960
CC113970		3.10	13.95	0.14	2.3	0.073	1.29	37.9	24.8	0.65	410	1.01	0.92	14.7	19.8	890
CC113971		3.00	11.15	0.13	1.8	0.059	1.14	35.2	23.6	0.62	722	1.05	0.96	11.6	23.9	950
CC113972		3.37	13.60	0.12	1.8	0.076	1.26	29.8	29.6	0.70	620	1.15	0.91	12.0	21.1	1150
CC113973		3.28	13.80	0.14	2.0	0.087	1.32	35.7	30.4	0.66	667	1.16	0.87	12.5	25.2	910
CC113974		3.05	12.60	0.13	1.6	0.115	1.22	36.4	27.8	0.63	523	0.84	0.84	11.1	34.9	820
CC113975		4.01	11.70	0.18	2.5	0.124	1.17	58.4	22.9	0.59	413	1.20	0.93	14.9	30.1	860
CC113976		2.95	12.85	0.14	2.1	0.118	1.19	38.4	25.3	0.62	287	1.10	0.94	12.8	17.2	810
CC113977		2.89	12.80	0.15	2.5	0.105	1.21	41.4	24.7	0.62	355	1.02	0.96	13.7	18.5	820
CC113978		3.18	13.40	0.14	2.3	0.090	1.21	38.6	26.0	0.68	439	1.22	1.01	13.1	19.2	930
CC113979		2.92	12.20	0.15	2.3	0.082	1.14	39.2	23.5	0.61	310	1.15	0.96	13.6	17.2	840
CC113980		2.97	13.65	0.15	2.4	0.098	1.27	40.4	28.3	0.68	366	1.15	0.99	14.8	19.0	820
CC113981		3.09	13.35	0.15	2.1	0.093	1.22	35.6	25.7	0.66	363	1.27	0.96	12.9	19.5	860
CC113982		3.50	15.40	0.14	2.3	0.123	1.53	41.1	36.8	0.71	459	1.33	0.99	13.3	23.6	880
CC113983		3.18	13.75	0.15	2.0	0.117	1.36	38.6	33.1	0.67	415	1.22	0.96	12.7	22.2	710
CC113984		3.72	16.05	0.16	2.3	0.349	1.58	45.2	37.1	0.72	506	1.74	0.87	13.6	26.2	870
ZZ124971		3.08	13.00	0.16	2.6	0.215	1.17	48.4	25.8	0.56	510	1.49	0.88	18.0	16.5	1080
ZZ124972		3.09	12.95	0.16	2.7	0.091	1.17	40.1	25.0	0.62	664	1.65	0.92	14.8	19.9	1080
ZZ124973		2.98	12.55	0.15	2.1	0.126	1.20	41.4	26.6	0.69	346	1.99	0.91	14.7	21.6	980
ZZ124974		3.33	14.75	0.15	2.2	0.203	1.29	45.4	32.5	0.74	414	2.70	0.89	17.9	27.9	1140



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	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	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	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	ppm 0.1
YY16981		18.1	70.8	<0.002	0.04	1.05	9.6	1	2.5	131.5	0.82	<0.05	11.25	0.400	0.66	2.8
YY16982		13.1	53.9	<0.002	0.02	1.01	7.9	1	2.3	126.0	0.78	<0.05	9.26	0.448	0.46	2.2
YY16983		13.2	54.9	<0.002	0.01	1.13	9.2	1	1.7	152.0	0.74	<0.05	9.82	0.395	0.44	2.3
YY16984		13.3	54.9	<0.002	0.01	1.15	9.3	1	1.8	147.0	0.80	<0.05	10.40	0.450	0.46	2.6
YY16985		14.1	56.1	<0.002	0.01	0.99	8.7	<1	2.2	134.5	0.79	<0.05	8.47	0.415	0.51	2.2
YY16986		15.0	63.9	<0.002	0.02	1.29	10.9	1	2.4	155.5	0.83	<0.05	10.30	0.439	0.59	2.8
YY16987		12.5	57.3	0.002	0.01	1.15	8.8	1	2.4	144.0	0.75	<0.05	9.98	0.398	0.48	2.4
YY16988		15.8	60.1	<0.002	0.01	1.16	9.3	1	3.9	130.5	0.72	<0.05	10.10	0.378	0.53	2.4
YY16989		15.2	67.8	<0.002	0.02	1.29	8.4	1	2.4	134.5	0.86	<0.05	11.45	0.356	0.54	2.9
YY16990		19.0	102.0	<0.002	0.02	0.91	9.1	1	5.1	128.0	1.17	<0.05	10.75	0.389	0.93	4.7
YY16991		14.2	55.5	<0.002	0.03	0.95	8.4	1	2.5	135.5	0.95	<0.05	10.05	0.446	0.52	3.9
YY16992		13.2	64.2	<0.002	0.02	1.24	9.2	1	2.3	141.5	0.98	<0.05	10.85	0.429	0.43	4.2
YY16993		14.8	56.3	<0.002	0.02	0.98	8.1	1	3.0	125.5	0.97	<0.05	9.84	0.430	0.45	3.3
YY16994		17.0	66.5	<0.002	0.01	1.07	9.5	1	5.0	135.5	1.29	<0.05	12.35	0.527	0.62	4.2
YY16995		15.2	63.5	<0.002	0.02	1.27	9.4	1	4.4	134.5	1.08	<0.05	11.60	0.498	0.64	4.4
YY16996		16.3	62.6	<0.002	0.02	1.03	9.0	1	6.4	136.0	1.00	<0.05	12.70	0.473	0.52	4.0
YY16997		15.9	72.8	<0.002	0.03	1.14	9.5	1	4.5	139.5	0.97	<0.05	10.65	0.426	0.68	4.1
YY16998		15.1	81.0	<0.002	0.02	1.09	10.4	<1	7.0	144.0	0.94	<0.05	11.90	0.441	0.94	3.8
YY16999		38.9	126.0	<0.002	0.05	1.35	11.4	1	21.1	146.0	0.95	0.06	14.25	0.431	1.59	3.3
YY17000		16.6	114.0	<0.002	0.04	1.21	10.9	1	15.9	149.0	0.94	<0.05	16.55	0.481	1.38	3.6
CC113969		15.1	75.0	<0.002	0.02	1.21	9.7	1	2.9	125.0	0.88	0.06	8.41	0.450	0.62	2.4
CC113970		14.3	64.7	<0.002	0.02	1.18	10.3	1	3.3	137.5	0.95	<0.05	10.70	0.494	0.66	2.8
CC113971		13.6	54.4	<0.002	0.02	1.19	8.8	1	2.0	140.0	0.75	<0.05	9.75	0.399	0.44	2.3
CC113972		16.4	63.9	<0.002	0.02	1.10	9.8	1	2.6	132.5	0.78	<0.05	8.54	0.399	0.54	2.2
CC113973		17.1	70.0	<0.002	0.03	1.18	9.9	1	3.4	131.0	0.82	<0.05	10.85	0.403	0.67	2.6
CC113974		13.6	67.1	<0.002	0.02	1.20	9.6	1	6.1	121.5	0.74	<0.05	9.95	0.375	0.65	2.5
CC113975		14.8	62.0	<0.002	0.01	1.37	9.9	1	6.4	149.5	1.07	<0.05	16.15	0.511	0.66	5.1
CC113976		14.2	63.7	<0.002	0.02	1.07	9.5	1	5.4	135.0	0.90	<0.05	10.95	0.439	0.72	3.2
CC113977		14.5	63.2	<0.002	0.02	1.06	9.4	1	5.0	138.5	0.97	<0.05	11.55	0.487	0.67	3.4
CC113978		14.8	67.3	<0.002	0.03	1.09	9.6	<1	3.9	145.5	0.90	0.05	10.40	0.456	0.65	3.3
CC113979		13.8	57.4	<0.002	0.02	1.02	9.0	1	3.5	138.5	0.93	0.05	10.55	0.472	0.51	3.1
CC113980		14.9	71.1	<0.002	0.02	1.11	10.1	1	4.1	146.0	1.12	<0.05	12.10	0.456	0.66	4.2
CC113981		14.3	65.3	<0.002	0.03	1.15	9.5	1	4.0	139.5	0.92	<0.05	10.05	0.429	0.64	3.2
CC113982		15.3	91.4	<0.002	0.05	1.16	10.1	1	7.9	141.5	0.89	0.05	13.00	0.431	0.87	2.8
CC113983		14.9	79.1	<0.002	0.03	1.11	9.6	1	5.9	140.0	0.81	<0.05	11.15	0.415	0.78	2.8
CC113984		19.2	103.0	<0.002	0.07	1.17	10.5	1	18.2	144.0	0.86	0.06	13.95	0.418	1.17	3.3
ZZ124971		19.6	80.2	<0.002	0.02	1.07	8.1	1	8.1	126.5	1.73	<0.05	16.55	0.448	0.74	5.6
ZZ124972		17.6	71.2	<0.002	0.02	1.14	9.0	1	3.5	136.0	1.12	<0.05	12.65	0.469	0.62	5.7
ZZ124973		16.2	66.9	<0.002	0.04	1.06	9.3	1	4.4	138.0	0.98	<0.05	13.50	0.452	0.71	6.4
ZZ124974		15.0	88.4	<0.002	0.07	1.10	9.8	1	10.4	147.0	1.37	0.05	15.25	0.456	1.11	6.9



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
YY16981		95	1.8	12.9	87	77.0
YY16982		100	1.6	11.2	66	69.0
YY16983		101	1.5	13.1	117	63.2
YY16984		107	2.1	13.1	65	71.2
YY16985		108	1.8	10.7	51	65.8
YY16986		114	2.7	15.0	79	68.6
YY16987		96	1.9	13.0	80	66.4
YY16988		97	3.5	15.3	82	63.8
YY16989		92	2.1	13.5	78	73.3
YY16990		102	3.5	13.9	65	70.5
YY16991		99	1.9	13.2	60	73.9
YY16992		104	1.8	16.7	80	80.3
YY16993		99	2.1	11.9	51	73.2
YY16994		114	5.3	15.3	59	92.4
YY16995		115	4.0	15.1	57	87.4
YY16996		99	3.2	16.2	70	86.6
YY16997		105	2.8	13.8	68	78.3
YY16998		116	5.3	14.5	88	76.7
YY16999		116	9.4	15.3	154	74.4
YY17000		108	24.6	19.1	116	86.8
CC113969		129	2.3	11.2	87	72.2
CC113970		120	2.8	13.9	79	81.0
CC113971		96	1.4	14.5	86	69.2
CC113972		114	2.1	11.6	110	67.4
CC113973		101	3.9	13.3	130	63.8
CC113974		90	3.9	13.6	111	67.1
CC113975		105	3.9	19.7	93	93.2
CC113976		103	4.3	14.5	64	75.7
CC113977		108	3.9	14.7	61	91.9
CC113978		111	3.0	13.8	71	81.7
CC113979		104	3.7	13.8	58	85.1
CC113980		111	3.9	15.4	67	87.2
CC113981		111	4.3	14.0	73	75.5
CC113982		110	6.7	13.8	93	79.0
CC113983		106	4.8	14.2	89	76.2
CC113984		114	4.4	15.3	204	82.8
ZZ124971		98	4.0	16.4	75	85.7
ZZ124972		105	4.3	14.9	71	89.4
ZZ124973		120	4.7	14.5	75	76.8
ZZ124974		119	5.5	17.5	79	80.2



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ124975		0.44	0.014	0.74	5.89	37.2	940	1.84	6.11	0.85	0.72	93.1	10.3	98	19.85	164.0
ZZ124976		0.47	0.003	0.56	8.34	47.5	740	4.26	4.82	0.72	0.34	122.0	20.0	265	28.4	297
ZZ124977		0.46	0.002	0.11	6.00	12.9	760	2.72	2.36	0.67	1.38	73.5	10.4	79	16.95	48.8
ZZ124978		0.41	0.014	1.26	6.52	16.6	1040	3.64	12.90	1.58	1.42	102.0	23.7	106	34.7	343
ZZ124979		0.46	0.005	0.61	5.45	11.4	990	2.03	7.99	1.76	0.60	95.0	21.2	65	14.75	155.0
ZZ124980		0.38	0.006	0.04	5.99	25.6	850	1.41	0.72	0.69	0.26	68.8	10.7	63	4.28	21.5
ZZ124981		0.35	0.005	0.05	5.60	20.1	760	1.13	1.11	0.53	0.23	67.9	7.5	66	5.27	20.5
ZZ124982		0.43	0.002	0.06	6.74	24.4	920	1.48	1.30	0.55	0.19	76.0	7.5	73	8.16	21.1
ZZ124983		0.37	0.003	0.12	4.81	15.3	690	0.89	0.33	0.52	0.23	57.5	6.2	66	5.23	16.8
ZZ124984		0.40	0.002	0.09	5.88	18.4	860	1.60	0.52	0.74	0.20	71.4	9.8	68	5.61	23.1
ZZ124985		0.40	0.002	0.08	5.74	20.2	800	1.52	0.55	0.67	0.37	68.7	13.4	64	6.30	24.8
ZZ124986		0.36	0.006	0.08	5.68	14.4	740	1.66	1.23	0.63	0.18	65.5	10.1	57	8.73	41.0
ZZ124987		0.41	0.003	0.07	5.37	15.3	770	1.32	1.50	0.65	0.15	67.4	6.0	60	4.76	23.5
ZZ124988		0.42	0.001	0.12	4.77	18.7	690	1.22	1.14	0.71	0.23	62.5	9.8	51	2.95	26.3
ZZ124989		0.35	0.003	0.15	5.39	17.6	730	1.44	1.38	0.69	0.35	66.0	12.7	52	3.44	37.8
ZZ124990		0.42	0.003	0.58	5.87	40.0	840	1.56	0.56	0.67	0.71	85.2	10.9	62	9.31	31.9
ZZ124991		0.41	0.003	0.04	4.87	14.1	720	1.08	0.28	0.82	0.18	80.9	9.1	56	2.59	22.8
ZZ124992		0.42	0.023	0.10	4.95	26.6	750	1.32	15.00	0.81	0.26	74.1	17.1	56	3.47	26.5
ZZ124993		0.34	0.003	0.08	4.96	14.9	710	1.37	2.78	0.73	0.23	81.6	7.8	54	4.32	23.4
ZZ124994		0.36	0.003	0.08	4.96	12.7	720	1.19	1.15	0.76	0.17	70.3	8.5	57	3.55	23.1
ZZ124995		0.41	0.003	0.11	4.68	11.9	690	1.21	1.97	0.75	0.14	81.6	6.5	54	3.54	24.2
ZZ124996		0.39	0.002	0.17	4.68	13.4	720	1.16	0.42	0.75	0.22	71.3	8.0	47	2.43	33.5
ZZ124997		0.39	0.003	0.08	4.79	12.1	710	1.10	0.99	0.75	0.15	84.5	6.5	55	4.02	30.6
ZZ124998		0.42	0.002	0.37	4.94	18.3	760	1.25	0.67	0.78	0.31	66.5	10.1	51	2.72	55.0
ZZ124999		0.40	0.002	0.11	4.95	12.8	740	1.25	0.94	0.77	0.17	72.0	8.8	54	3.64	48.5
ZZ125000		0.36	0.002	0.05	4.30	12.3	610	0.93	1.67	0.60	0.10	61.8	3.9	49	4.23	29.7
ZZ124711		0.34	0.002	0.14	5.09	15.0	760	1.18	1.09	0.73	0.25	64.9	6.8	60	4.42	56.0
ZZ124712		0.38	0.003	0.43	6.26	20.0	880	2.31	2.32	0.93	0.53	87.6	13.6	72	13.05	177.5
ZZ124713		0.41	0.003	0.15	5.41	14.1	780	1.60	0.75	0.75	0.25	72.8	9.8	62	7.25	111.5
ZZ124714		0.43	0.006	0.24	5.75	18.8	840	1.40	2.84	0.80	0.24	73.5	8.3	71	8.83	67.2
ZZ124715		0.37	0.007	0.32	6.20	22.9	840	1.97	8.89	0.79	0.41	85.6	13.7	73	13.30	100.5
ZZ124716		0.42	0.004	0.15	5.55	15.1	810	1.62	3.00	0.76	0.28	71.7	7.8	68	11.55	63.6
ZZ124717		0.42	0.017	0.26	6.42	15.3	1000	1.95	10.90	1.73	0.58	78.4	12.6	87	19.50	100.5
ZZ124718		0.43	0.001	0.63	6.23	20.8	920	2.63	4.98	0.79	0.63	77.6	14.5	70	21.7	97.1
ZZ124719		0.37	0.002	0.77	6.31	24.7	890	2.13	1.89	0.66	0.68	68.9	11.5	77	22.6	68.8
ZZ124720		0.36	0.005	0.16	4.97	14.8	720	1.41	4.35	0.75	0.30	68.9	8.7	62	9.77	59.6
ZZ124721		0.38	0.012	0.20	6.18	23.0	840	1.86	2.77	0.72	0.46	71.5	17.0	70	11.40	114.0
ZZ124722		0.44	0.005	0.49	6.62	15.0	830	2.18	7.84	0.76	0.45	69.3	12.6	72	17.40	157.0
ZZ124723		0.38	0.005	0.21	6.29	19.9	880	1.83	5.43	0.74	0.25	72.2	8.9	72	18.70	92.5
ZZ124724		0.37	0.002	0.14	4.85	17.0	780	1.37	1.08	0.79	0.30	67.4	9.3	60	6.49	58.6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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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	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ124975		4.32	15.75	0.17	2.3	0.411	1.44	48.6	40.0	1.19	711	3.31	0.60	24.3	47.2	1150
ZZ124976		8.42	23.5	0.18	2.2	0.940	1.20	66.9	35.6	1.21	487	9.39	0.31	24.3	61.3	1760
ZZ124977		4.09	15.00	0.13	1.7	1.045	1.18	35.9	32.9	0.69	494	1.19	0.73	13.5	36.8	690
ZZ124978		5.96	17.25	0.18	2.2	2.00	1.61	53.9	46.7	1.62	1040	1.38	0.77	19.2	66.2	1120
ZZ124979		3.63	13.90	0.16	2.0	0.350	1.39	47.1	36.8	1.22	672	0.85	1.01	14.1	35.3	880
ZZ124980		3.23	14.60	0.13	1.9	0.059	1.40	33.4	29.1	0.70	451	1.11	0.97	11.6	23.6	750
ZZ124981		3.19	14.80	0.13	2.0	0.070	1.43	32.8	27.3	0.57	388	1.24	0.76	12.0	19.4	890
ZZ124982		3.35	18.10	0.17	2.1	0.090	1.80	37.8	37.7	0.66	321	1.08	0.82	14.2	19.5	670
ZZ124983		3.35	14.45	0.12	2.0	0.056	1.14	29.0	20.6	0.50	384	1.40	0.69	11.5	15.5	1550
ZZ124984		3.25	15.10	0.15	1.9	0.070	1.36	35.0	29.7	0.68	438	1.23	0.98	12.3	21.0	850
ZZ124985		3.24	14.80	0.14	1.8	0.083	1.33	32.6	33.0	0.64	774	1.17	0.94	11.5	22.5	850
ZZ124986		3.14	13.65	0.14	1.5	0.096	1.21	31.9	39.0	0.65	475	0.91	0.89	10.8	22.5	730
ZZ124987		2.85	15.10	0.15	1.9	0.089	1.19	33.5	25.9	0.58	266	1.18	0.94	12.6	15.5	670
ZZ124988		2.77	11.60	0.15	1.6	0.078	1.05	30.7	24.8	0.58	439	1.02	0.91	9.9	22.5	860
ZZ124989		2.89	12.40	0.15	1.7	0.106	1.12	30.9	26.4	0.61	646	1.19	0.96	10.4	22.2	850
ZZ124990		3.17	14.85	0.16	2.3	0.066	1.52	42.4	42.0	0.66	425	0.95	0.91	11.3	30.0	820
ZZ124991		2.73	11.55	0.16	2.0	0.047	1.08	40.9	21.1	0.61	405	0.88	1.04	10.7	21.2	920
ZZ124992		3.20	12.80	0.15	1.9	0.122	1.18	36.5	22.7	0.62	944	1.10	1.00	11.8	23.1	1090
ZZ124993		2.99	12.55	0.17	2.1	0.089	1.11	40.8	24.8	0.58	378	1.04	0.94	12.0	17.5	820
ZZ124994		2.83	12.30	0.15	1.8	0.060	1.16	35.6	23.0	0.60	476	0.95	1.01	11.9	16.4	1020
ZZ124995		2.66	12.75	0.16	2.2	0.055	1.09	40.7	23.2	0.55	324	1.08	0.96	13.5	16.4	880
ZZ124996		2.60	11.05	0.14	1.8	0.043	1.09	34.6	21.5	0.59	286	0.70	1.01	9.7	22.7	780
ZZ124997		2.80	12.65	0.16	1.9	0.055	1.13	42.2	22.2	0.58	337	1.17	0.94	12.7	16.2	920
ZZ124998		3.00	11.60	0.16	1.7	0.054	1.13	33.1	23.5	0.62	362	1.10	1.04	9.6	25.4	850
ZZ124999		2.83	11.25	0.15	1.9	0.068	1.13	34.4	22.8	0.62	415	0.97	0.97	11.0	19.1	850
ZZ125000		2.09	12.60	0.13	1.8	0.070	0.98	31.2	18.9	0.47	209	0.98	0.82	12.2	11.9	800
ZZ124711		2.82	13.70	0.16	2.0	0.074	1.18	31.6	24.0	0.62	311	1.26	0.98	12.2	19.8	990
ZZ124712		3.26	16.45	0.18	2.2	0.182	1.60	44.0	35.2	0.79	502	2.46	0.95	20.3	32.1	1300
ZZ124713		2.99	14.25	0.16	1.9	0.086	1.26	35.4	25.8	0.68	374	1.55	0.96	13.1	20.8	1020
ZZ124714		3.30	15.25	0.16	2.3	0.234	1.30	36.3	27.4	0.77	348	1.47	0.99	13.6	25.1	1110
ZZ124715		3.73	16.30	0.16	2.0	0.494	1.39	43.1	31.5	0.85	747	1.42	0.93	14.6	28.6	1010
ZZ124716		3.30	14.05	0.15	1.9	0.317	1.28	35.3	28.9	0.73	433	1.44	0.86	13.2	22.9	900
ZZ124717		4.10	17.05	0.14	2.2	0.427	1.42	39.0	38.0	1.26	765	1.40	0.97	14.9	36.0	1330
ZZ124718		3.70	17.35	0.15	2.0	0.259	1.53	37.7	47.7	0.85	715	2.24	0.78	14.3	33.3	1140
ZZ124719		3.84	16.85	0.15	1.9	0.151	1.54	33.6	45.3	0.89	736	2.37	0.78	13.6	32.6	1320
ZZ124720		3.03	12.90	0.14	1.9	0.117	1.17	33.6	27.0	0.62	713	1.38	0.82	12.7	20.4	1160
ZZ124721		3.63	16.65	0.15	1.9	0.112	1.40	34.7	35.4	0.82	836	1.60	0.98	12.6	27.8	1020
ZZ124722		3.71	17.25	0.18	1.9	0.178	1.46	34.0	36.0	0.85	746	1.62	0.96	14.9	26.3	1190
ZZ124723		3.70	17.70	0.15	1.9	0.241	1.58	35.9	38.4	0.86	477	2.18	0.79	14.6	25.7	1220
ZZ124724		3.04	13.15	0.14	1.6	0.094	1.18	33.0	27.6	0.66	448	1.35	0.92	12.7	24.0	700



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ124975		50.6	107.5	<0.002	0.12	1.10	11.9	2	20.3	134.0	1.36	0.10	11.05	0.544	1.98	4.3
ZZ124976		21.6	135.5	<0.002	0.59	1.64	21.9	4	52.3	286	1.33	0.10	10.45	0.703	3.02	7.3
ZZ124977		16.1	75.7	<0.002	0.04	1.32	9.3	1	45.7	124.5	0.85	0.06	9.58	0.401	1.45	2.3
ZZ124978		37.7	153.5	<0.002	0.05	1.31	11.8	2	84.0	178.5	1.17	0.05	12.05	0.487	2.26	3.6
ZZ124979		12.6	72.6	<0.002	0.02	1.11	9.8	1	17.7	185.5	0.89	<0.05	12.50	0.440	0.87	2.6
ZZ124980		16.2	70.1	<0.002	0.02	1.18	10.2	1	2.2	146.0	0.78	0.05	10.70	0.389	0.60	2.3
ZZ124981		16.5	73.8	<0.002	0.02	1.10	9.1	1	3.0	113.5	0.85	0.05	11.10	0.423	0.73	2.4
ZZ124982		18.2	97.8	<0.002	0.02	1.06	11.0	1	4.6	122.0	0.97	0.06	12.25	0.452	0.94	2.8
ZZ124983		13.6	60.0	<0.002	0.04	1.02	8.8	1	2.3	103.5	0.80	0.06	8.47	0.428	0.68	2.4
ZZ124984		15.6	76.0	<0.002	0.02	1.10	10.2	1	2.9	142.5	0.96	0.05	11.55	0.423	0.73	4.1
ZZ124985		16.0	74.1	<0.002	0.02	1.13	10.7	1	2.7	139.5	0.81	<0.05	10.80	0.373	0.72	2.7
ZZ124986		12.8	70.2	<0.002	0.02	0.96	8.7	1	4.4	123.0	0.78	<0.05	10.05	0.385	0.70	2.4
ZZ124987		14.5	69.4	<0.002	0.01	0.94	9.9	1	2.6	134.0	0.92	<0.05	10.50	0.404	0.65	3.8
ZZ124988		12.6	55.0	<0.002	0.01	1.26	8.2	1	1.7	131.0	0.70	<0.05	9.40	0.345	0.43	5.7
ZZ124989		13.5	57.8	<0.002	0.02	1.07	9.0	1	2.6	138.0	0.75	0.05	10.40	0.339	0.44	5.2
ZZ124990		19.4	76.0	<0.002	0.04	1.19	10.3	1	2.5	139.5	0.79	<0.05	13.10	0.403	0.87	3.2
ZZ124991		12.1	50.5	<0.002	0.02	1.01	8.7	1	1.4	150.0	0.85	<0.05	10.90	0.403	0.46	5.4
ZZ124992		15.3	62.0	<0.002	0.02	1.27	9.0	1	2.7	147.5	0.79	<0.05	10.60	0.404	0.46	2.8
ZZ124993		13.1	65.6	<0.002	0.02	0.98	8.7	1	2.6	135.0	0.83	<0.05	15.65	0.400	0.54	4.9
ZZ124994		12.4	62.5	<0.002	0.02	0.89	8.2	1	2.1	141.5	0.89	<0.05	10.95	0.405	0.49	2.9
ZZ124995		12.3	61.1	<0.002	0.02	1.04	8.5	1	2.2	141.0	1.13	<0.05	12.50	0.434	0.50	3.5
ZZ124996		11.3	50.2	<0.002	0.01	1.05	8.3	1	1.4	147.0	0.68	<0.05	10.15	0.355	0.39	3.2
ZZ124997		13.1	60.3	<0.002	0.02	0.99	8.4	1	2.3	134.5	1.07	<0.05	12.85	0.412	0.51	3.8
ZZ124998		13.1	55.1	<0.002	0.01	1.32	8.9	1	1.7	151.5	0.68	<0.05	10.60	0.345	0.46	4.7
ZZ124999		12.3	56.1	<0.002	0.01	1.08	8.6	1	2.0	135.0	0.81	<0.05	11.15	0.384	0.46	6.1
ZZ125000		14.9	53.0	<0.002	0.02	0.81	7.6	1	2.4	115.5	0.88	<0.05	9.89	0.387	0.52	4.1
ZZ124711		16.5	63.0	<0.002	0.03	1.05	9.1	1	2.3	144.0	0.86	<0.05	9.99	0.403	0.57	5.1
ZZ124712		28.9	107.0	<0.002	0.06	1.09	10.5	2	8.1	156.0	2.40	<0.05	16.55	0.450	1.26	10.8
ZZ124713		14.5	71.6	0.002	0.03	1.10	10.2	1	3.3	141.0	1.05	<0.05	12.25	0.402	0.83	5.7
ZZ124714		15.4	71.5	<0.002	0.04	1.19	10.8	1	12.2	154.5	0.90	0.05	10.50	0.450	0.87	3.0
ZZ124715		18.1	92.1	<0.002	0.04	1.16	11.3	1	22.4	143.5	0.99	0.06	12.10	0.492	1.13	3.1
ZZ124716		13.1	71.7	<0.002	0.04	1.04	10.0	1	17.0	131.5	0.82	0.05	10.25	0.422	0.94	2.6
ZZ124717		18.0	81.0	<0.002	0.05	1.23	11.9	1	22.2	175.5	0.98	0.12	11.45	0.484	0.95	3.1
ZZ124718		29.1	104.5	0.002	0.06	1.13	11.3	1	16.9	141.0	0.93	0.06	12.75	0.454	1.58	3.3
ZZ124719		43.2	104.0	0.002	0.07	1.13	11.8	2	7.9	129.0	0.88	0.06	10.25	0.440	1.28	3.1
ZZ124720		16.8	74.2	<0.002	0.04	1.00	8.8	1	6.3	124.0	0.98	0.06	10.35	0.431	0.77	3.1
ZZ124721		19.2	89.8	<0.002	0.03	1.21	11.6	1	4.3	147.5	0.91	0.06	11.55	0.425	0.85	3.6
ZZ124722		20.0	92.0	<0.002	0.03	1.13	11.2	1	7.2	141.0	1.29	<0.05	13.10	0.445	1.04	6.2
ZZ124723		27.2	103.5	<0.002	0.06	1.02	10.6	1	12.5	128.5	1.04	0.08	12.35	0.416	1.12	3.8
ZZ124724		15.6	64.8	<0.002	0.03	1.14	8.8	1	4.6	139.5	0.87	<0.05	10.25	0.386	0.66	3.3



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ124975		144	5.5	19.9	185	89.2
ZZ124976		287	21.2	20.8	214	89.0
ZZ124977		105	8.1	14.2	372	61.0
ZZ124978		118	8.3	26.5	547	84.0
ZZ124979		100	4.2	18.2	142	71.6
ZZ124980		111	1.4	12.3	78	70.1
ZZ124981		113	2.3	10.1	75	70.5
ZZ124982		123	2.8	11.6	74	76.9
ZZ124983		124	1.6	12.9	56	71.4
ZZ124984		119	2.2	13.6	86	68.2
ZZ124985		108	2.0	12.4	88	64.1
ZZ124986		95	2.6	11.6	94	54.0
ZZ124987		110	2.1	13.5	57	67.2
ZZ124988		90	1.7	19.7	72	55.7
ZZ124989		94	1.5	12.3	81	57.9
ZZ124990		98	1.8	15.9	133	78.3
ZZ124991		95	1.4	14.2	73	70.2
ZZ124992		102	5.7	13.6	68	67.1
ZZ124993		98	2.1	13.5	62	70.2
ZZ124994		103	13.3	12.2	61	61.1
ZZ124995		98	2.7	12.7	54	80.7
ZZ124996		88	1.3	13.5	71	65.5
ZZ124997		103	2.6	11.9	57	66.3
ZZ124998		93	1.5	14.6	79	60.1
ZZ124999		100	1.6	14.3	70	60.7
ZZ125000		93	1.6	10.4	39	69.0
ZZ124711		108	1.7	12.5	68	72.0
ZZ124712		134	4.5	20.2	120	76.6
ZZ124713		108	2.3	15.9	70	69.2
ZZ124714		117	4.5	14.9	101	73.5
ZZ124715		119	7.9	17.4	160	69.8
ZZ124716		115	4.5	14.4	112	65.2
ZZ124717		127	6.8	17.2	197	76.5
ZZ124718		132	20.1	16.3	161	76.3
ZZ124719		135	10.5	14.0	158	69.2
ZZ124720		104	3.8	12.9	87	70.1
ZZ124721		117	2.7	14.6	114	69.0
ZZ124722		120	3.5	15.6	117	68.1
ZZ124723		125	4.9	12.7	117	69.0
ZZ124724		106	1.8	12.8	75	58.7



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ124725		0.43	0.002	0.07	5.44	12.4	760	1.58	2.31	0.76	0.23	83.1	7.7	50	8.76	106.5
ZZ124726		0.38	0.002	0.04	5.49	13.7	800	1.41	1.11	0.73	0.22	73.7	8.5	60	8.00	111.5
ZZ124727		0.46	0.011	0.12	4.66	14.1	680	1.33	1.68	0.67	0.14	71.2	8.7	56	4.66	53.6
ZZ124728		0.55	0.025	0.06	4.60	13.0	690	1.29	2.47	0.65	0.12	75.2	6.2	57	3.84	53.7
ZZ124729		0.36	0.004	0.09	4.80	12.9	730	1.31	1.31	0.68	0.15	69.2	5.8	57	4.24	48.7
ZZ124730		0.39	0.002	0.07	4.59	12.2	690	1.16	1.07	0.67	0.15	59.8	5.9	55	3.68	37.0
ZZ124731		0.42	0.002	0.09	4.71	12.7	720	1.17	0.73	0.69	0.14	65.6	6.3	55	3.24	28.9
ZZ124732		0.51	0.004	0.42	4.80	14.1	700	1.25	0.79	0.73	0.20	68.8	7.9	51	2.68	36.1
ZZ124733		0.41	0.004	0.09	4.78	14.2	720	1.42	1.36	0.69	0.17	74.9	9.5	55	3.76	35.0
ZZ124734		0.45	0.016	0.10	5.99	24.1	760	3.11	3.18	0.74	0.50	86.8	14.3	51	10.80	104.0
ZZ124735		0.51	0.003	0.02	4.65	16.0	680	1.01	0.45	0.64	0.15	62.2	7.5	56	2.94	15.9
ZZ124736		0.36	0.010	0.03	4.99	14.7	720	1.16	0.35	0.75	0.16	67.1	7.9	61	3.11	15.6
ZZ124737		0.37	0.002	0.16	5.09	16.5	700	1.66	2.96	0.54	0.31	61.8	7.1	55	5.56	38.4
ZZ124738		0.43	0.003	0.14	5.68	22.9	760	1.85	3.74	0.63	0.42	66.7	13.2	59	5.56	63.3
ZZ124739		0.43	0.005	0.15	5.14	27.6	750	1.40	4.60	0.57	0.30	64.1	10.0	62	5.95	42.5
ZZ124740		0.39	0.010	0.16	5.64	20.1	810	1.79	4.93	0.72	0.35	82.1	9.0	63	6.60	72.2
ZZ124741		0.41	0.002	0.08	5.52	17.6	760	1.33	2.32	0.60	0.16	61.6	4.8	63	8.25	38.4
ZZ124742		0.42	0.003	0.03	5.30	23.1	750	1.18	1.54	0.56	0.12	64.3	4.8	64	7.60	23.0
ZZ124743		0.42	0.002	0.06	5.93	22.3	870	1.48	0.82	0.64	0.27	67.8	9.6	70	7.47	30.7
ZZ124744		0.43	0.001	0.05	5.47	21.0	780	1.45	0.84	0.57	0.24	62.6	8.6	64	7.68	25.6
ZZ124745		0.46	0.003	0.03	5.75	26.1	810	1.42	0.71	0.58	0.22	73.2	12.6	71	9.02	25.9
ZZ124746		0.34	0.004	0.04	5.62	17.1	860	1.66	0.91	0.74	0.31	83.5	10.6	64	6.73	31.2
ZZ124747		0.50	0.002	0.15	7.04	22.8	1020	1.58	1.13	0.64	0.15	78.7	8.9	76	5.77	33.0
ZZ124748		0.42	0.003	0.08	5.78	26.8	820	1.51	1.04	0.69	0.36	84.1	9.6	70	7.42	36.2
ZZ124749		0.42	0.002	0.08	5.76	19.2	900	1.50	0.55	0.83	0.29	75.3	11.1	66	5.61	31.3
ZZ124750		0.44	0.003	0.04	6.01	22.5	930	1.61	0.78	0.74	0.21	74.2	9.6	73	9.53	25.2
ZZ11301		0.41	0.004	0.09	6.36	42.2	890	1.84	2.17	0.68	0.31	79.2	13.6	70	9.67	53.5
ZZ11302		0.44	0.002	0.04	5.71	25.0	830	1.76	2.13	0.67	0.23	77.0	9.2	67	7.71	39.0
ZZ11303		0.40	0.005	0.11	5.17	28.0	710	1.29	3.88	0.47	0.12	70.4	5.6	65	7.35	37.8
ZZ11304		0.46	0.006	0.16	5.93	33.4	860	1.66	8.30	0.69	0.25	71.1	10.9	72	8.06	52.3
ZZ11305		0.42	0.007	0.16	5.64	20.1	800	1.49	3.42	0.70	0.33	71.6	13.4	65	4.98	47.6
ZZ11306		0.45	0.006	0.06	4.83	18.8	640	1.01	2.70	0.47	0.17	64.4	5.5	62	4.34	25.0
ZZ11307		0.38	0.004	0.10	6.07	23.0	870	1.76	4.77	0.65	0.26	72.5	10.5	63	6.73	85.1
ZZ11308		0.35	0.003	0.24	6.05	23.7	800	1.60	6.01	0.66	0.35	69.3	10.6	61	6.19	80.8
ZZ11309		0.43	0.006	0.07	5.25	22.1	680	1.94	4.42	0.61	0.21	73.4	8.8	53	7.90	89.4
ZZ11310		0.48	0.006	0.51	4.71	86.8	720	1.40	0.97	0.69	0.43	111.0	12.7	58	9.90	33.1
ZZ11311		0.39	0.002	0.14	4.64	12.4	750	1.45	2.64	0.86	0.28	63.2	6.4	51	4.34	42.0
ZZ11312		0.42	0.003	0.24	4.66	17.5	750	1.57	0.68	0.84	0.56	77.8	11.7	51	2.00	51.3
ZZ11313		0.42	0.003	0.51	5.00	13.1	770	1.33	0.52	0.83	0.35	60.4	6.9	52	2.03	72.7
ZZ11314		0.44	0.004	0.09	4.77	12.8	730	1.45	1.58	0.69	0.15	68.4	7.2	55	3.79	56.2



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ124725		2.60	14.50	0.18	2.8	0.097	1.32	39.9	20.4	0.57	353	1.42	0.92	18.3	20.9	800
ZZ124726		2.90	14.25	0.14	2.1	0.078	1.29	37.0	23.3	0.65	371	1.43	0.96	13.6	22.8	810
ZZ124727		2.80	12.25	0.15	1.9	0.077	1.11	34.7	20.2	0.55	458	1.10	0.87	12.1	17.5	830
ZZ124728		2.60	12.10	0.14	2.1	0.070	1.06	37.1	20.3	0.54	288	1.06	0.88	12.0	16.1	760
ZZ124729		2.68	12.75	0.15	2.0	0.072	1.14	34.1	20.8	0.56	275	1.20	0.92	12.1	16.0	910
ZZ124730		2.61	11.85	0.15	2.3	0.059	1.07	30.0	21.0	0.54	291	1.13	0.92	11.4	16.2	870
ZZ124731		2.66	11.90	0.14	1.9	0.055	1.08	31.7	21.6	0.56	281	1.02	0.94	11.1	17.4	810
ZZ124732		2.67	10.60	0.14	1.7	0.058	1.06	33.7	21.5	0.57	348	0.94	0.94	9.8	19.6	880
ZZ124733		2.74	12.50	0.16	1.9	0.079	1.12	36.8	22.4	0.55	465	1.06	0.93	12.5	17.9	900
ZZ124734		3.36	15.15	0.16	2.9	0.103	1.40	42.2	35.6	0.53	784	1.36	0.93	16.9	21.0	990
ZZ124735		2.92	11.65	0.12	1.8	0.050	1.05	31.4	21.5	0.55	367	0.88	0.89	10.1	17.6	610
ZZ124736		2.86	12.20	0.14	2.0	0.055	1.10	33.3	21.6	0.60	400	1.06	0.97	11.0	17.7	870
ZZ124737		2.90	13.60	0.14	1.9	0.156	1.20	31.8	28.3	0.51	450	1.19	0.82	13.6	17.5	830
ZZ124738		3.36	14.35	0.15	1.8	0.210	1.31	32.7	31.6	0.62	676	1.44	0.90	13.2	21.8	730
ZZ124739		4.18	15.95	0.13	2.1	0.170	1.26	31.7	26.6	0.58	513	1.97	0.79	12.7	18.8	500
ZZ124740		3.25	14.75	0.16	1.9	0.217	1.34	41.4	33.5	0.65	438	1.19	0.95	13.7	21.5	700
ZZ124741		2.82	15.70	0.14	1.8	0.105	1.27	31.0	27.1	0.52	228	1.21	0.89	11.9	15.4	1110
ZZ124742		2.81	15.15	0.12	1.7	0.087	1.27	32.8	24.3	0.50	265	0.93	0.81	12.3	13.7	910
ZZ124743		3.42	14.95	0.14	1.9	0.102	1.43	33.4	33.2	0.67	434	1.29	0.90	12.0	21.7	870
ZZ124744		3.22	14.40	0.15	1.9	0.078	1.31	31.9	30.9	0.62	467	1.39	0.80	11.5	20.3	790
ZZ124745		3.47	15.35	0.16	1.9	0.069	1.40	37.5	38.2	0.67	700	1.44	0.82	12.5	22.9	730
ZZ124746		2.99	13.95	0.15	2.0	0.079	1.34	41.0	34.9	0.65	448	0.96	0.81	13.0	28.8	760
ZZ124747		3.35	17.65	0.18	2.4	0.101	1.74	39.6	30.8	0.75	296	0.98	1.00	13.7	24.9	550
ZZ124748		3.40	14.80	0.14	2.1	0.105	1.41	41.6	34.2	0.65	417	1.37	0.77	12.5	26.1	720
ZZ124749		3.21	14.05	0.15	2.2	0.059	1.38	37.5	33.7	0.75	496	1.15	1.04	11.8	28.9	810
ZZ124750		3.51	14.60	0.14	2.1	0.072	1.46	36.5	41.6	0.84	484	1.22	0.91	12.7	24.8	930
ZZ11301		3.47	16.35	0.16	2.1	0.146	1.49	38.8	42.3	0.78	616	1.26	0.84	13.0	27.7	760
ZZ11302		3.22	14.80	0.16	1.8	0.124	1.36	37.9	33.3	0.67	418	1.06	0.89	12.8	21.3	740
ZZ11303		4.09	17.00	0.13	1.9	0.196	1.31	34.3	24.6	0.49	305	1.65	0.69	12.9	15.7	640
ZZ11304		3.86	16.05	0.14	1.9	0.235	1.50	34.2	35.4	0.71	567	1.50	0.91	13.2	23.4	800
ZZ11305		3.16	13.10	0.14	1.9	0.176	1.27	35.8	28.3	0.65	704	1.19	0.93	12.0	22.2	1080
ZZ11306		3.57	13.90	0.12	1.8	0.108	1.10	31.8	22.6	0.50	310	1.12	0.71	11.7	14.8	510
ZZ11307		3.41	15.05	0.14	1.9	0.248	1.37	35.1	29.2	0.68	498	1.69	0.97	12.6	21.3	800
ZZ11308		3.25	14.15	0.13	1.9	0.232	1.32	33.7	29.1	0.64	590	1.47	0.92	12.8	22.3	970
ZZ11309		2.87	13.65	0.14	1.9	0.135	1.38	36.0	26.7	0.50	458	1.11	0.93	14.3	16.8	720
ZZ11310		2.81	11.80	0.14	2.0	0.122	1.17	54.4	32.4	0.54	864	1.70	0.82	12.5	19.4	750
ZZ11311		2.56	10.60	0.12	1.9	0.057	1.14	30.5	24.4	0.56	341	1.13	1.06	11.7	17.8	850
ZZ11312		2.81	10.30	0.14	1.9	0.045	1.10	36.7	24.5	0.61	534	0.94	1.02	10.8	28.9	920
ZZ11313		2.54	9.79	0.11	1.7	0.042	1.13	29.0	25.1	0.64	302	0.73	1.05	9.8	21.8	860
ZZ11314		2.70	11.50	0.12	1.8	0.052	1.09	33.2	25.3	0.55	386	1.18	0.92	12.8	15.6	790



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 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ124725		19.7	88.6	<0.002	0.02	1.22	9.4	1	3.5	140.5	1.68	<0.05	17.45	0.379	0.93	9.3
ZZ124726		16.1	73.4	<0.002	0.02	1.12	10.2	1	2.7	141.5	1.07	<0.05	13.65	0.395	0.79	14.3
ZZ124727		15.7	64.4	<0.002	0.01	0.96	8.9	1	2.4	127.0	0.92	<0.05	12.00	0.388	0.64	5.7
ZZ124728		14.3	56.4	<0.002	0.01	0.90	9.4	1	2.0	128.5	0.93	<0.05	11.10	0.382	0.60	4.9
ZZ124729		14.6	63.6	<0.002	0.02	0.89	9.1	1	2.2	134.5	0.88	<0.05	11.00	0.383	0.59	4.4
ZZ124730		13.2	62.0	<0.002	0.01	0.90	8.5	1	2.0	131.5	0.84	<0.05	9.22	0.383	0.54	3.8
ZZ124731		13.1	56.4	<0.002	0.01	0.90	8.8	1	1.8	135.0	0.83	<0.05	10.10	0.384	0.52	3.3
ZZ124732		12.3	53.3	<0.002	0.01	0.96	8.3	1	1.5	136.0	0.72	<0.05	10.10	0.361	0.44	3.8
ZZ124733		14.0	66.5	<0.002	0.01	0.97	8.9	1	2.0	132.5	0.98	<0.05	11.30	0.388	0.57	4.5
ZZ124734		18.0	95.9	<0.002	0.02	1.05	8.4	1	3.3	139.5	1.79	<0.05	17.05	0.375	1.04	11.1
ZZ124735		14.3	54.6	<0.002	0.01	0.99	8.4	1	1.5	127.0	0.77	<0.05	9.39	0.371	0.45	2.6
ZZ124736		13.4	57.6	<0.002	0.02	0.90	9.2	1	1.6	140.5	0.84	<0.05	8.83	0.405	0.50	4.0
ZZ124737		14.9	82.3	<0.002	0.03	0.86	8.6	<1	3.8	116.0	1.10	0.05	11.00	0.376	0.72	4.9
ZZ124738		17.7	85.6	<0.002	0.02	1.11	9.4	1	4.4	132.0	1.01	0.05	10.65	0.355	0.73	5.6
ZZ124739		18.9	78.6	<0.002	0.02	1.10	9.0	1	3.5	121.5	0.98	0.06	9.84	0.393	0.75	4.3
ZZ124740		16.1	85.6	<0.002	0.02	0.99	9.6	1	3.8	142.0	1.00	0.07	14.10	0.381	0.80	3.9
ZZ124741		14.9	74.2	<0.002	0.03	0.73	9.7	1	3.9	128.5	0.87	<0.05	8.79	0.399	1.00	2.7
ZZ124742		16.3	73.3	<0.002	0.02	0.79	9.4	1	3.7	120.0	0.84	<0.05	9.39	0.408	1.00	2.4
ZZ124743		16.1	84.1	<0.002	0.02	0.99	10.7	1	3.3	135.0	0.82	0.05	10.00	0.391	1.08	2.8
ZZ124744		15.8	87.9	<0.002	0.03	0.95	9.7	1	3.0	121.0	0.80	<0.05	9.84	0.381	0.79	2.5
ZZ124745		18.7	80.5	<0.002	0.02	1.05	10.6	1	3.3	125.5	0.85	0.05	11.05	0.418	0.96	2.5
ZZ124746		13.8	66.7	<0.002	0.01	0.96	10.8	1	4.0	138.5	0.90	<0.05	11.55	0.430	0.80	2.8
ZZ124747		20.7	86.5	<0.002	0.01	1.07	12.8	1	4.0	154.5	0.94	<0.05	11.75	0.444	0.97	3.4
ZZ124748		16.6	71.2	<0.002	0.02	1.07	10.5	1	4.6	130.0	0.87	0.07	12.05	0.433	0.97	2.8
ZZ124749		14.6	68.8	<0.002	0.02	1.11	11.3	1	2.4	161.5	0.82	0.06	10.30	0.410	0.73	3.0
ZZ124750		14.4	79.3	<0.002	0.03	0.91	10.9	1	3.3	138.5	0.86	0.05	10.80	0.422	0.87	2.6
ZZ11301		21.0	89.5	<0.002	0.02	1.07	11.1	1	4.8	135.0	1.05	0.05	12.65	0.419	1.14	3.0
ZZ11302		15.9	78.6	<0.002	0.02	0.98	10.5	1	4.1	136.5	0.91	0.06	10.75	0.404	0.90	3.4
ZZ11303		17.2	75.8	<0.002	0.03	1.06	9.0	1	4.4	106.5	0.91	0.06	10.00	0.439	0.90	2.9
ZZ11304		18.0	92.8	<0.002	0.02	1.09	10.6	<1	4.9	140.5	0.96	0.07	10.90	0.407	0.97	2.7
ZZ11305		15.6	74.9	<0.002	0.03	1.00	10.3	1	3.5	140.0	0.96	<0.05	10.80	0.383	0.71	2.9
ZZ11306		14.4	63.8	<0.002	0.02	1.02	8.5	1	3.4	102.0	0.86	<0.05	10.45	0.398	0.74	3.0
ZZ11307		17.9	87.2	<0.002	0.02	1.07	11.1	1	5.7	141.0	0.95	0.06	11.85	0.379	0.93	9.3
ZZ11308		21.0	83.9	<0.002	0.02	0.93	10.1	1	6.4	135.0	1.08	<0.05	12.15	0.361	0.84	8.8
ZZ11309		17.2	94.8	<0.002	0.02	0.84	8.9	1	4.5	126.5	1.28	<0.05	13.55	0.381	0.89	6.4
ZZ11310		16.1	65.8	<0.002	0.02	0.85	8.8	1	3.7	125.0	1.04	<0.05	16.65	0.425	0.71	6.0
ZZ11311		12.4	59.8	<0.002	0.02	0.90	8.6	1	2.0	158.0	0.83	<0.05	10.05	0.381	0.47	4.1
ZZ11312		13.9	52.3	<0.002	0.01	1.29	9.5	1	1.4	158.5	0.75	<0.05	12.00	0.368	0.40	4.4
ZZ11313		12.2	50.4	<0.002	0.01	0.98	8.7	1	1.2	154.0	0.65	<0.05	10.30	0.353	0.40	5.2
ZZ11314		12.5	62.6	<0.002	0.01	0.96	9.3	1	2.0	132.5	0.91	<0.05	12.00	0.394	0.53	4.5



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ124725		89	2.6	24.7	68	80.0
ZZ124726		105	2.7	16.9	83	68.5
ZZ124727		96	2.4	14.5	62	67.8
ZZ124728		96	2.8	14.7	55	64.1
ZZ124729		101	2.6	12.3	57	65.3
ZZ124730		97	2.2	11.8	54	65.7
ZZ124731		98	1.7	13.2	58	62.2
ZZ124732		89	1.8	13.2	75	57.3
ZZ124733		96	3.7	12.9	64	64.6
ZZ124734		89	7.5	18.2	135	78.4
ZZ124735		98	1.4	11.3	55	60.7
ZZ124736		103	1.4	12.2	63	66.3
ZZ124737		98	6.6	11.8	84	61.4
ZZ124738		102	3.7	12.6	102	60.8
ZZ124739		121	6.0	11.9	87	63.1
ZZ124740		106	5.4	14.1	98	63.7
ZZ124741		111	2.8	11.2	60	62.6
ZZ124742		114	2.5	10.5	57	61.7
ZZ124743		120	1.9	12.8	93	83.9
ZZ124744		111	2.3	12.4	89	66.1
ZZ124745		118	2.3	14.0	94	81.7
ZZ124746		106	2.9	16.4	154	68.9
ZZ124747		125	2.3	15.3	89	79.7
ZZ124748		111	8.2	14.3	108	72.1
ZZ124749		112	2.3	17.0	97	67.9
ZZ124750		118	2.0	14.5	95	69.9
ZZ11301		117	4.7	15.0	112	76.8
ZZ11302		110	2.8	14.1	79	61.9
ZZ11303		135	3.3	11.0	64	65.0
ZZ11304		124	5.6	12.3	85	63.0
ZZ11305		104	2.8	13.6	89	62.1
ZZ11306		113	3.1	12.5	62	61.0
ZZ11307		111	4.9	14.8	95	64.2
ZZ11308		102	3.3	14.1	113	62.6
ZZ11309		89	6.0	13.6	77	65.7
ZZ11310		90	3.3	15.8	113	64.1
ZZ11311		93	2.2	12.7	70	64.1
ZZ11312		88	1.5	15.5	93	63.7
ZZ11313		89	1.3	12.7	91	56.3
ZZ11314		103	2.1	13.2	57	61.8



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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ11315		0.40	0.005	0.08	5.10	13.3	790	1.48	1.86	0.81	0.23	74.1	12.5	60	3.26	64.4
ZZ11316		0.47	0.009	0.22	5.38	13.4	810	1.79	3.22	0.74	0.20	77.2	9.0	63	5.14	98.5
ZZ11317		0.45	0.003	0.08	5.10	10.3	720	1.56	3.37	0.69	0.12	68.5	4.8	57	4.86	111.5
ZZ11318		0.43	0.006	0.08	5.00	11.1	750	1.33	1.36	0.73	0.12	63.9	5.3	54	3.94	58.3
ZZ11319		0.44	0.004	0.05	4.86	14.4	770	1.62	0.60	0.81	0.40	73.5	12.7	55	3.65	48.2
ZZ11320		0.39	0.006	0.09	4.92	13.5	710	1.34	0.55	0.69	0.18	65.4	9.1	57	3.39	41.7
ZZ11321		0.38	0.028	0.13	4.70	15.2	720	1.37	1.38	0.90	0.36	81.4	11.2	58	3.98	48.9
ZZ11322		0.39	0.003	0.13	5.56	13.9	750	1.47	1.60	0.73	0.32	60.1	10.6	64	4.92	84.9
ZZ11323		0.43	0.009	0.10	5.35	17.3	700	1.59	5.16	0.58	0.27	92.6	6.9	63	12.35	65.0
ZZ11324		0.41	0.007	0.67	5.47	18.1	780	2.16	3.52	0.72	0.42	66.0	9.3	64	17.05	270
ZZ11325		0.42	0.006	1.22	6.01	17.3	810	2.23	6.92	0.80	0.48	83.9	11.0	60	9.80	147.5
ZZ11326		0.58	0.005	0.87	6.18	23.9	850	1.75	2.23	0.67	1.44	73.4	12.2	71	14.60	41.9
ZZ11327		0.45	0.004	0.22	7.34	16.1	1000	3.07	4.51	0.72	0.95	99.5	10.3	63	20.0	73.5
ZZ11328		0.40	0.002	0.15	5.58	14.5	870	1.87	1.96	0.84	0.28	82.0	8.7	64	8.39	42.3
ZZ11329		0.42	0.008	0.25	5.58	14.1	840	1.93	3.42	0.81	0.46	86.3	9.6	64	12.65	49.7
ZZ11330		0.34	0.002	0.25	5.78	21.3	810	2.04	5.07	0.67	0.34	75.0	7.4	60	13.90	78.0
ZZ11331		0.34	0.015	0.19	4.99	15.5	730	1.54	2.01	0.78	0.36	89.6	9.7	66	6.96	38.0
ZZ11332		0.37	0.007	0.06	4.56	16.1	740	1.24	2.64	0.85	0.34	76.7	8.9	64	4.24	29.4
ZZ11333		0.41	0.011	0.17	5.14	16.4	770	1.38	1.31	0.83	0.26	91.0	11.0	64	3.20	36.5
ZZ11334		0.40	0.012	0.56	6.10	20.8	970	1.55	1.16	1.08	0.32	71.5	9.8	65	3.83	84.0
ZZ11335		0.42	0.008	0.10	5.16	17.9	760	1.32	2.28	0.81	0.19	78.6	9.4	66	4.49	34.4
ZZ11336		0.39	0.002	0.11	4.60	19.1	690	1.38	1.51	0.78	0.26	99.2	9.7	59	3.72	30.1
ZZ11337		0.47	0.017	0.07	4.43	13.7	700	1.27	1.24	0.82	0.27	95.7	15.5	64	3.19	29.9
ZZ11338		0.40	0.016	0.12	4.62	12.3	680	1.04	1.15	0.78	0.37	68.7	11.9	56	2.59	24.1
ZZ11339		0.44	0.002	0.17	5.19	31.2	750	2.21	1.78	0.77	0.55	80.2	9.7	52	6.68	32.7
ZZ11340		0.42	0.008	0.08	5.75	20.8	820	1.60	1.97	0.65	0.43	82.2	12.7	66	9.55	35.9
ZZ11341		0.41	0.003	0.26	5.14	17.3	760	1.24	0.26	0.72	0.34	66.6	12.0	55	2.31	37.0
ZZ11342		0.40	0.002	0.05	5.51	17.4	780	1.22	0.45	0.72	0.27	60.5	12.1	64	3.54	20.5
ZZ11343		0.38	0.004	0.03	5.68	16.0	830	1.36	0.42	0.80	0.31	67.9	9.3	65	4.10	20.2
ZZ11344		0.37	0.003	0.15	4.94	15.0	710	1.17	0.35	0.79	0.31	63.9	9.8	53	2.56	22.4
ZZ11345		0.36	0.018	0.04	4.66	15.4	680	0.97	0.31	0.73	0.17	71.0	6.3	63	2.81	14.8
ZZ11346		0.38	0.004	0.05	4.86	16.5	730	1.10	0.26	0.75	0.23	86.1	12.3	66	3.22	20.3
ZZ11347		0.36	0.002	0.05	4.96	15.1	680	0.98	0.19	0.74	0.20	68.3	12.3	58	3.04	18.2
ZZ11348		0.37	0.005	0.04	4.67	15.1	680	0.99	0.22	0.75	0.19	65.4	10.5	60	2.55	13.7
ZZ11349		0.35	0.005	0.07	5.23	20.2	760	1.03	0.26	0.74	0.25	67.8	13.2	64	4.40	17.2
ZZ11350		0.36	0.002	0.25	4.37	17.3	660	1.06	0.27	0.73	0.24	62.8	10.5	45	2.08	19.3
ZZ11351		0.40	0.002	0.09	6.12	51.9	870	1.36	3.36	0.64	0.22	75.5	9.3	65	7.21	27.8
ZZ11352		0.41	0.005	0.09	5.93	117.5	800	1.24	4.30	0.62	0.21	77.4	10.7	63	6.81	33.3
ZZ11353		0.38	0.002	0.09	6.65	31.0	880	1.53	2.07	0.57	0.24	74.6	13.9	71	11.50	27.7
ZZ11354		0.38	0.009	0.27	5.37	26.1	800	1.22	1.09	0.69	0.38	74.1	11.4	58	3.93	30.4



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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ11315		3.10	11.00	0.12	1.9	0.062	1.15	36.7	28.2	0.65	691	1.15	0.99	12.4	19.3	1010
ZZ11316		2.89	15.10	0.12	2.2	0.101	1.23	37.3	32.7	0.65	360	1.39	0.99	15.1	20.7	950
ZZ11317		2.59	11.85	0.10	2.1	0.083	1.14	34.5	26.9	0.56	236	1.05	0.92	12.9	14.9	880
ZZ11318		2.64	11.50	0.11	1.9	0.066	1.14	31.9	23.7	0.58	268	0.98	0.98	12.0	15.3	880
ZZ11319		2.84	10.95	0.12	1.9	0.055	1.10	35.5	25.6	0.65	506	1.07	0.96	11.2	26.2	860
ZZ11320		2.89	11.25	0.10	1.9	0.056	1.09	31.6	22.8	0.63	443	1.05	0.94	11.8	19.2	840
ZZ11321		2.82	10.65	0.12	2.1	0.083	1.08	38.4	24.3	0.63	540	1.15	0.94	12.5	24.6	1090
ZZ11322		3.18	12.30	0.11	1.8	0.071	1.20	29.1	26.4	0.71	584	1.29	0.94	12.1	20.5	1030
ZZ11323		3.04	16.40	0.13	2.3	0.098	1.28	45.5	29.9	0.56	400	1.79	0.75	14.6	17.1	840
ZZ11324		3.24	12.70	0.12	2.0	0.131	1.25	33.0	36.4	0.70	566	2.49	0.90	12.3	21.9	1040
ZZ11325		2.84	15.35	0.13	2.1	0.117	1.37	41.2	34.1	0.72	536	1.56	1.02	13.9	27.5	900
ZZ11326		3.63	14.80	0.12	2.1	0.182	1.55	35.6	42.9	0.74	1000	1.14	0.86	11.9	24.2	950
ZZ11327		3.37	19.00	0.15	2.2	0.426	1.98	48.4	43.1	0.57	470	0.88	0.63	12.7	21.3	530
ZZ11328		3.17	14.05	0.14	2.1	0.132	1.39	40.3	37.3	0.70	421	1.05	0.99	12.1	22.9	820
ZZ11329		3.21	12.70	0.12	2.1	0.208	1.42	42.2	36.2	0.66	494	0.96	0.90	12.3	22.0	790
ZZ11330		3.27	15.15	0.11	1.9	0.248	1.40	35.6	35.0	0.63	408	1.12	0.86	11.6	20.1	850
ZZ11331		3.07	12.50	0.13	2.5	0.119	1.18	43.6	27.7	0.62	520	1.11	0.91	13.1	21.5	950
ZZ11332		2.99	10.15	0.10	2.1	0.106	1.17	37.1	21.7	0.60	587	0.97	0.89	12.0	18.0	910
ZZ11333		3.13	11.40	0.11	2.2	0.080	1.18	44.3	22.8	0.65	573	1.07	1.01	13.2	21.3	910
ZZ11334		3.60	11.40	0.10	1.7	0.082	1.36	30.6	25.3	0.77	458	1.16	1.31	10.3	23.6	950
ZZ11335		3.11	12.20	0.12	2.4	0.118	1.20	38.4	24.7	0.64	514	1.38	0.94	14.3	17.1	990
ZZ11336		2.87	11.15	0.13	2.5	0.090	1.06	47.5	24.4	0.60	473	1.02	0.89	13.4	20.0	920
ZZ11337		3.02	10.35	0.12	2.3	0.096	1.05	46.5	22.1	0.59	955	1.05	0.88	12.6	19.5	920
ZZ11338		2.70	10.15	0.10	2.2	0.076	1.03	32.5	20.4	0.58	747	0.86	0.92	12.3	17.6	1020
ZZ11339		2.73	12.55	0.11	1.9	0.084	1.33	37.8	30.8	0.55	582	0.94	0.92	14.3	23.5	880
ZZ11340		3.54	13.40	0.12	2.0	0.236	1.53	39.1	33.6	0.65	857	1.07	0.75	14.5	21.4	870
ZZ11341		2.89	10.40	0.10	1.9	0.044	1.05	30.8	24.1	0.63	643	0.80	0.96	9.9	25.4	880
ZZ11342		3.02	12.40	0.10	2.0	0.068	1.19	29.3	24.6	0.66	603	1.18	0.96	11.9	20.3	1000
ZZ11343		3.10	13.05	0.12	1.9	0.064	1.32	32.4	27.7	0.71	432	0.91	1.00	11.8	21.0	790
ZZ11344		2.73	10.05	0.10	1.7	0.045	1.09	30.6	22.4	0.61	525	0.84	0.97	10.2	22.5	920
ZZ11345		2.82	10.80	0.11	2.3	0.043	1.07	34.6	19.8	0.56	374	0.92	0.92	12.2	15.8	900
ZZ11346		3.14	10.90	0.11	2.4	0.051	1.13	40.7	22.3	0.61	684	1.00	0.94	12.4	19.9	910
ZZ11347		3.00	9.61	0.12	2.1	0.041	1.04	33.8	19.8	0.60	827	1.27	0.93	11.7	17.9	940
ZZ11348		2.96	9.57	0.11	2.0	0.039	1.06	32.3	17.6	0.57	633	1.06	0.92	11.6	14.8	890
ZZ11349		3.27	12.00	0.12	1.9	0.046	1.23	33.6	24.0	0.65	775	1.23	0.98	11.6	17.8	1010
ZZ11350		2.48	9.05	0.11	1.6	0.059	1.04	30.6	18.8	0.55	467	0.73	0.95	9.8	21.4	760
ZZ11351		3.43	13.95	0.12	2.0	0.117	1.54	37.9	27.8	0.73	418	1.14	0.97	12.4	20.0	660
ZZ11352		3.41	12.60	0.12	2.0	0.093	1.46	38.2	30.6	0.67	435	0.93	0.94	11.6	20.1	630
ZZ11353		4.03	15.55	0.11	2.0	0.059	1.58	35.8	34.5	0.69	764	1.32	0.90	12.6	24.0	900
ZZ11354		3.02	10.25	0.11	1.8	0.055	1.32	36.3	27.1	0.63	478	0.80	0.92	11.0	23.6	800



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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	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ11315		13.9	62.0	<0.002	0.02	1.04	9.3	1	2.1	143.5	0.98	<0.05	12.25	0.419	0.49	4.7
ZZ11316		16.6	75.8	<0.002	0.02	1.13	11.5	1	3.0	149.0	1.15	<0.05	14.05	0.421	0.70	7.5
ZZ11317		14.3	61.4	<0.002	0.02	0.86	9.3	1	2.7	130.5	0.90	<0.05	13.15	0.389	0.64	5.9
ZZ11318		16.9	61.1	<0.002	0.02	0.86	9.2	1	2.2	142.0	0.84	<0.05	11.40	0.392	0.60	5.8
ZZ11319		14.9	56.8	<0.002	0.02	1.16	9.9	1	1.7	146.0	0.77	<0.05	11.30	0.353	0.48	17.4
ZZ11320		16.0	58.2	<0.002	0.02	1.07	9.7	1	1.9	134.0	0.83	<0.05	11.10	0.385	0.50	6.3
ZZ11321		14.0	58.0	<0.002	0.02	1.07	9.6	1	2.8	150.0	0.93	<0.05	13.00	0.426	0.52	4.6
ZZ11322		17.4	67.7	<0.002	0.03	0.98	10.0	1	2.5	137.0	0.80	<0.05	9.80	0.403	0.59	6.7
ZZ11323		19.8	98.2	<0.002	0.02	1.05	10.1	1	4.8	115.5	1.12	<0.05	16.80	0.441	0.88	5.5
ZZ11324		16.5	77.0	<0.002	0.03	0.93	10.2	1	5.8	133.0	0.85	<0.05	10.90	0.413	0.75	18.0
ZZ11325		56.7	96.5	<0.002	0.02	1.30	11.8	1	4.1	154.5	1.05	0.05	16.50	0.388	0.97	7.8
ZZ11326		88.1	92.8	<0.002	0.03	1.00	11.0	1	6.7	130.0	0.80	<0.05	11.60	0.427	0.88	2.5
ZZ11327		19.5	157.0	<0.002	0.03	1.29	11.4	1	33.6	130.0	0.86	<0.05	19.65	0.389	2.17	3.6
ZZ11328		14.2	82.5	<0.002	0.04	1.02	10.4	1	7.5	150.0	0.82	<0.05	13.40	0.411	0.96	2.9
ZZ11329		18.8	92.1	<0.002	0.03	1.01	10.1	1	9.7	133.5	0.84	<0.05	13.95	0.431	1.06	3.0
ZZ11330		20.2	96.4	<0.002	0.05	1.04	9.9	1	12.1	129.0	0.77	<0.05	12.20	0.385	1.22	2.6
ZZ11331		14.7	69.7	<0.002	0.03	0.97	10.1	1	6.1	141.5	0.92	<0.05	13.35	0.455	0.76	3.1
ZZ11332		15.2	58.8	<0.002	0.02	0.99	8.4	1	4.3	132.5	0.85	<0.05	10.85	0.451	0.58	2.9
ZZ11333		14.2	62.0	<0.002	0.01	1.10	11.7	1	3.4	152.0	0.95	<0.05	12.25	0.458	0.54	6.1
ZZ11334		13.5	58.9	<0.002	0.02	1.09	9.8	1	3.1	196.5	0.71	<0.05	9.53	0.406	0.58	6.9
ZZ11335		17.9	69.9	<0.002	0.02	1.01	10.1	1	5.4	139.5	1.07	<0.05	12.80	0.457	0.67	4.6
ZZ11336		13.8	59.7	<0.002	0.01	1.01	10.1	1	3.6	139.0	0.93	<0.05	15.30	0.454	0.55	3.8
ZZ11337		13.5	54.9	<0.002	0.02	1.06	9.0	1	3.2	136.0	0.91	<0.05	14.05	0.452	0.49	3.3
ZZ11338		13.1	53.7	<0.002	0.02	0.85	8.4	1	3.5	136.5	1.06	<0.05	10.85	0.437	0.50	3.5
ZZ11339		16.0	83.4	<0.002	0.01	1.07	9.3	1	3.7	138.5	1.27	<0.05	13.40	0.387	0.77	5.5
ZZ11340		15.0	94.3	<0.002	0.03	1.24	9.6	1	13.7	120.0	0.92	<0.05	13.00	0.450	0.98	2.8
ZZ11341		13.5	52.7	<0.002	0.02	1.15	10.0	1	1.4	144.5	0.65	<0.05	9.75	0.334	0.46	2.7
ZZ11342		14.3	63.8	<0.002	0.02	1.06	10.4	1	2.2	141.0	0.83	<0.05	9.29	0.396	0.58	2.5
ZZ11343		13.3	64.4	<0.002	0.02	1.03	11.2	1	2.6	153.5	0.78	<0.05	10.00	0.410	0.64	2.4
ZZ11344		12.1	51.3	<0.002	0.01	0.94	9.1	1	1.8	145.5	0.70	<0.05	8.63	0.371	0.41	2.2
ZZ11345		12.8	51.5	<0.002	0.02	0.93	9.1	1	1.7	133.0	1.25	<0.05	10.55	0.453	0.44	2.4
ZZ11346		13.0	54.5	<0.002	0.01	1.01	9.6	1	1.9	141.0	0.85	<0.05	11.90	0.487	0.48	2.7
ZZ11347		12.4	50.5	<0.002	0.02	1.08	8.5	1	1.5	133.0	0.84	<0.05	10.05	0.438	0.39	2.2
ZZ11348		11.5	48.7	<0.002	0.02	1.01	7.9	1	1.8	131.5	0.79	<0.05	9.42	0.441	0.38	2.0
ZZ11349		13.6	61.0	<0.002	0.02	1.05	9.1	1	1.9	143.0	0.77	<0.05	10.05	0.413	0.51	2.2
ZZ11350		12.7	49.0	<0.002	0.01	1.10	7.9	1	2.1	138.0	0.65	<0.05	8.82	0.325	0.36	2.2
ZZ11351		17.0	78.1	<0.002	0.03	1.14	10.4	1	3.2	139.5	0.83	<0.05	12.75	0.407	0.79	2.4
ZZ11352		13.5	72.9	<0.002	0.03	1.12	9.9	1	2.9	134.0	0.78	0.06	11.55	0.389	0.73	2.3
ZZ11353		17.3	89.8	<0.002	0.03	1.12	11.0	1	2.6	130.0	0.85	0.06	11.85	0.402	0.78	2.3
ZZ11354		12.7	63.5	<0.002	0.02	1.09	8.7	1	1.8	131.5	0.73	0.05	11.15	0.383	0.57	2.2



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ11315		105	2.8	13.7	76	65.3
ZZ11316		109	3.1	16.1	69	78.7
ZZ11317		99	3.4	13.2	52	64.4
ZZ11318		100	2.4	13.0	54	64.9
ZZ11319		94	2.2	15.5	77	62.1
ZZ11320		101	1.6	14.0	69	64.1
ZZ11321		97	2.1	16.5	81	67.1
ZZ11322		107	1.6	13.8	95	64.2
ZZ11323		107	2.5	13.6	82	77.8
ZZ11324		109	3.0	15.6	114	80.0
ZZ11325		103	3.0	18.1	133	70.6
ZZ11326		111	3.5	13.2	263	70.5
ZZ11327		87	22.1	19.4	187	70.6
ZZ11328		106	5.8	14.6	89	72.9
ZZ11329		101	6.6	15.2	97	71.3
ZZ11330		98	10.4	12.8	98	67.1
ZZ11331		102	11.5	15.0	82	81.3
ZZ11332		102	3.3	13.9	74	72.0
ZZ11333		102	3.3	19.1	77	74.7
ZZ11334		106	2.2	16.5	112	56.4
ZZ11335		109	5.5	14.9	69	83.1
ZZ11336		96	3.2	17.0	73	84.7
ZZ11337		100	2.5	15.2	68	76.1
ZZ11338		92	2.0	13.3	69	75.1
ZZ11339		90	4.7	15.6	99	62.6
ZZ11340		101	7.1	13.3	127	70.5
ZZ11341		90	1.4	13.9	89	63.1
ZZ11342		108	1.8	12.7	78	66.7
ZZ11343		109	1.9	14.1	90	77.6
ZZ11344		86	1.3	12.7	82	60.2
ZZ11345		102	1.5	12.2	57	74.6
ZZ11346		103	1.8	14.0	76	76.8
ZZ11347		96	1.6	12.1	77	72.5
ZZ11348		102	1.7	11.2	65	76.4
ZZ11349		110	1.6	11.6	82	72.9
ZZ11350		77	1.3	12.2	70	62.1
ZZ11351		109	2.4	11.6	75	78.2
ZZ11352		99	3.8	11.5	71	73.2
ZZ11353		113	3.2	11.5	95	76.9
ZZ11354		94	2.4	12.3	92	66.5



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ11355		0.34	0.005	0.40	7.56	52.9	960	1.61	2.06	0.57	0.54	72.5	12.5	77	9.25	44.8



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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			
					Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
					%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
					0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ11355					3.52	16.65	0.12	1.9	0.332	1.87	36.7	37.9	0.71	627	1.11	0.88	13.5	23.5	900



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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			
					Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
					ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
					0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ11355					47.4	102.5	<0.002	0.03	1.21	11.9	1	7.9	128.5	0.89	0.05	12.80	0.421	1.06	2.5



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
ZZ11355		116	4.4	12.1	139	73.6



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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.
LOG-22 LOG-24 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS61



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 North Vancouver BC V7H 0A7
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Project: BIX
 P.O. No.: Batch 6
 This report is for 43 Rock samples submitted to our lab in Whitehorse, YT, Canada on 21-SEP-2020.
 The following have access to data associated with this certificate:

HEATHER BURRELL STEVE ISRAEL LIZ SMITH	MATT DUMALA JACK MORTON	CRAIG DUNN SCOTT NEWMAN
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

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



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

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 1016-510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W590997		3.78	<0.001	0.9	0.27	74	<10	20	<0.5	<2	0.02	0.7	1	15	20	2.09
W590998		3.05	<0.001	0.8	0.32	65	<10	10	1.1	<2	0.01	0.8	3	21	81	7.13
W590999		1.24	0.018	7.3	0.07	2260	60	160	0.6	51	0.01	1.7	13	18	77	1.97
W591000		2.47	<0.001	2.2	0.11	100	160	10	<0.5	3	0.01	<0.5	1	10	20	0.79
K293801		2.64	<0.001	<0.2	1.57	5	<10	310	0.6	3	0.38	<0.5	7	19	99	2.84
K293802		2.03	<0.001	<0.2	1.99	106	<10	40	0.6	<2	1.06	<0.5	9	18	65	1.37
K293803		1.89	0.039	6.4	0.14	4330	30	30	<0.5	65	0.01	6.0	1	14	192	4.14
K293804		2.16	0.228	51.8	0.17	6470	40	170	<0.5	46	0.01	6.2	12	11	1120	13.20
K293805		1.58	<0.001	0.3	0.25	72	20	10	<0.5	3	<0.01	0.5	4	17	53	3.88
K293806		2.08	0.001	1.2	0.41	37	30	880	0.6	31	0.08	<0.5	1	13	105	2.12
K293807		1.85	0.023	4.3	0.24	1060	70	10	0.7	27	<0.01	7.5	5	7	339	15.80
K293808		3.67	0.044	5.4	0.16	1475	90	30	0.6	92	<0.01	7.5	1	7	135	6.73
K293809		2.25	<0.001	0.6	0.27	16	<10	20	0.6	8	0.06	<0.5	1	9	91	1.16
K293810		1.70	0.002	3.4	0.24	152	20	80	1.1	155	0.01	<0.5	<1	12	115	3.51
K293811		2.68	<0.001	<0.2	0.32	5	10	20	0.5	<2	0.02	<0.5	2	15	54	1.12
K293812		2.65	<0.001	<0.2	0.05	2	<10	10	<0.5	<2	0.02	<0.5	1	21	20	1.22
K293813		2.97	<0.001	<0.2	0.33	7	<10	30	0.7	<2	0.03	4.8	2	16	3	5.61
K293814		1.80	0.001	2.2	0.88	2	<10	<10	0.9	8	0.01	20.1	4	20	269	19.10
K293815		3.05	<0.001	0.7	0.20	22	30	20	<0.5	4	<0.01	<0.5	2	12	38	2.03
K293816		2.53	<0.001	0.4	0.52	18	<10	30	<0.5	39	<0.01	<0.5	<1	6	42	1.11
K293817		1.81	0.001	6.1	0.13	57	20	20	0.5	206	0.01	0.6	1	16	43	2.10
K293818		2.43	0.011	0.2	3.10	6	<10	80	1.0	8	1.77	<0.5	13	38	99	2.17
K293819		1.81	0.032	0.3	0.08	159	<10	50	<0.5	9	0.01	<0.5	1	22	79	1.90
W793372		1.29	<0.001	0.8	2.19	13	<10	70	0.7	<2	0.40	1.5	26	40	36	4.18
W793373		1.48	0.006	0.3	0.26	22	<10	40	<0.5	7	0.01	<0.5	1	18	21	0.83
W793374		2.24	<0.001	0.2	0.21	3	10	30	<0.5	20	0.02	<0.5	1	8	47	1.03
W793375		2.56	<0.001	0.5	0.23	17	20	20	<0.5	5	<0.01	0.7	4	24	79	3.32
W793376		1.24	<0.001	<0.2	0.67	15	<10	60	0.7	<2	0.01	0.6	3	23	102	3.07
W793377		2.26	0.001	18.6	0.65	388	<10	40	2.2	<2	0.01	2.9	5	21	303	11.65
W793378		1.64	<0.001	5.6	0.67	26	<10	20	3.1	44	0.01	0.8	4	179	194	8.71
W793379		0.80	<0.001	<0.2	0.23	4	<10	20	<0.5	10	0.01	<0.5	<1	6	18	0.88
W793380		2.48	<0.001	1.1	0.62	346	10	120	0.5	12	0.23	0.5	1	10	25	0.79
W793381		0.80	<0.001	<0.2	0.22	68	70	20	<0.5	<2	0.03	<0.5	<1	9	17	0.79
W793382		1.92	<0.001	0.5	0.17	9	<10	10	<0.5	4	<0.01	<0.5	1	17	73	1.41
W793383		2.47	<0.001	0.4	0.21	425	70	10	0.5	2	<0.01	1.6	1	13	66	1.77
W793384		2.15	<0.001	1.5	0.36	97	<10	60	0.5	6	<0.01	<0.5	<1	7	21	1.18
W793385		2.38	<0.001	1.6	0.13	412	40	20	0.6	4	0.01	<0.5	2	17	428	2.46
W793386		2.76	<0.001	3.6	0.19	4	20	10	<0.5	30	0.05	<0.5	1	21	78	1.06
W793387		1.89	<0.001	0.7	0.08	4	50	<10	<0.5	7	<0.01	<0.5	1	13	60	1.19
W793388		2.20	<0.001	1.9	0.14	133	150	10	<0.5	23	0.01	<0.5	1	17	67	2.63



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 North Vancouver BC V7H 0A7
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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 ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
W590997		<10	<1	0.08	10	0.02	102	1	<0.01	5	120	32	<0.01	3	1
W590998		<10	<1	0.05	10	0.01	134	<1	<0.01	15	410	5	<0.01	<2	12
W590999		<10	<1	0.02	10	0.01	120	1	<0.01	10	100	27	0.08	<2	<1
W591000		<10	<1	0.01	<10	0.01	73	<1	0.01	1	120	13	0.03	<2	<1
K293801		10	<1	0.93	20	0.60	165	<1	0.10	14	1000	11	0.20	<2	5
K293802		10	<1	0.05	10	0.11	116	<1	0.09	15	310	5	0.23	<2	1
K293803		<10	<1	<0.01	20	<0.01	105	1	<0.01	4	310	1540	0.07	17	<1
K293804		<10	<1	0.01	<10	<0.01	1700	<1	<0.01	13	290	389	0.04	50	1
K293805		<10	<1	0.02	10	0.01	131	1	<0.01	8	270	14	0.03	<2	<1
K293806		<10	<1	0.29	40	0.02	105	8	0.02	2	750	32	0.14	<2	1
K293807		<10	<1	0.01	<10	0.01	75	<1	<0.01	21	630	215	0.05	76	1
K293808		<10	1	0.02	30	0.01	79	<1	<0.01	9	450	779	0.05	14	1
K293809		<10	<1	0.14	10	0.01	118	2	0.03	3	320	12	0.02	<2	1
K293810		<10	1	0.14	20	0.01	72	1	<0.01	3	840	441	0.04	3	1
K293811		<10	<1	0.13	<10	0.04	136	1	0.05	3	90	8	0.02	<2	1
K293812		<10	<1	0.01	<10	<0.01	120	1	<0.01	2	100	5	0.03	<2	<1
K293813		<10	<1	0.04	10	0.01	978	<1	<0.01	10	260	<2	0.03	<2	2
K293814		<10	<1	<0.01	<10	<0.01	370	<1	<0.01	8	290	46	0.09	<2	6
K293815		<10	<1	0.12	20	0.01	105	1	<0.01	6	210	6	0.03	3	1
K293816		<10	<1	0.33	20	0.01	65	1	<0.01	2	90	10	0.02	<2	1
K293817		<10	<1	0.06	10	0.01	105	14	<0.01	6	350	216	0.02	<2	1
K293818		10	<1	0.22	20	0.53	575	3	0.34	29	430	9	0.64	<2	3
K293819		<10	<1	0.01	<10	0.01	104	2	<0.01	4	100	7	0.05	2	<1
W793372		10	<1	0.12	20	1.30	457	1	0.03	33	1440	9	0.02	<2	5
W793373		<10	<1	0.12	10	0.01	66	1	<0.01	1	130	3	0.03	3	<1
W793374		<10	<1	0.15	20	0.01	81	<1	0.03	2	180	25	0.06	<2	<1
W793375		<10	<1	0.08	20	0.01	314	<1	<0.01	12	210	9	0.02	<2	1
W793376		<10	<1	0.18	40	0.02	108	<1	0.01	11	350	10	0.02	<2	2
W793377		<10	<1	0.06	10	0.01	471	<1	<0.01	20	440	10	0.01	3	15
W793378		<10	<1	0.07	<10	0.04	133	<1	<0.01	26	690	76	0.02	4	7
W793379		<10	<1	0.14	10	0.01	76	<1	0.04	2	50	15	0.05	<2	<1
W793380		<10	<1	0.37	<10	0.01	92	<1	0.01	1	200	4	0.01	<2	1
W793381		<10	<1	0.16	<10	0.01	80	<1	0.01	1	140	5	0.01	<2	<1
W793382		<10	<1	0.09	<10	0.01	157	1	<0.01	3	80	7	0.01	2	<1
W793383		<10	<1	0.07	<10	0.01	84	1	0.01	4	130	8	<0.01	<2	<1
W793384		<10	<1	0.38	10	0.01	67	3	<0.01	1	190	66	0.03	<2	1
W793385		<10	<1	0.04	<10	<0.01	135	1	<0.01	8	210	6	0.01	<2	1
W793386		<10	<1	0.10	10	0.01	70	<1	0.01	2	120	2	<0.01	<2	<1
W793387		<10	<1	0.01	<10	<0.01	93	<1	<0.01	2	50	24	<0.01	<2	<1
W793388		<10	<1	0.01	10	0.01	106	4	0.01	4	120	22	<0.01	<2	<1



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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 1016-510 W HASTINGS ST
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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
		20	0.01	10	10	1	10	2
W590997		<20	<0.01	<10	<10	5	<10	217
W590998		<20	<0.01	<10	<10	25	<10	400
W590999		<20	<0.01	<10	<10	1	<10	84
W591000		<20	<0.01	<10	<10	1	<10	10
K293801		20	0.19	<10	10	33	<10	76
K293802		<20	0.04	<10	<10	6	<10	36
K293803		<20	<0.01	<10	<10	3	10	215
K293804		<20	<0.01	<10	<10	3	<10	511
K293805		<20	<0.01	<10	<10	5	<10	281
K293806		30	<0.01	<10	10	3	<10	22
K293807		<20	<0.01	<10	<10	4	<10	2260
K293808		<20	<0.01	<10	<10	3	<10	377
K293809		30	<0.01	<10	10	1	<10	32
K293810		30	<0.01	<10	10	1	10	99
K293811		<20	0.02	<10	<10	5	10	12
K293812		<20	<0.01	<10	<10	2	<10	14
K293813		<20	<0.01	<10	<10	11	<10	565
K293814		<20	<0.01	<10	<10	25	10	7870
K293815		<20	<0.01	<10	<10	3	<10	207
K293816		<20	<0.01	<10	<10	1	<10	26
K293817		<20	<0.01	<10	<10	4	<10	72
K293818		<20	0.13	<10	<10	33	<10	42
K293819		<20	<0.01	<10	<10	3	<10	9
W793372		20	0.07	<10	<10	51	<10	222
W793373		<20	<0.01	<10	<10	1	<10	7
W793374		30	<0.01	<10	20	<1	10	20
W793375		<20	<0.01	<10	<10	7	<10	161
W793376		20	<0.01	<10	<10	27	<10	145
W793377		<20	<0.01	<10	<10	45	<10	990
W793378		<20	0.01	<10	<10	55	<10	565
W793379		20	<0.01	<10	10	<1	20	8
W793380		20	<0.01	<10	10	1	<10	13
W793381		<20	<0.01	<10	<10	<1	10	10
W793382		<20	<0.01	<10	<10	2	170	35
W793383		<20	<0.01	<10	<10	3	<10	107
W793384		<20	<0.01	<10	<10	1	<10	27
W793385		<20	<0.01	<10	<10	4	<10	80
W793386		<20	<0.01	<10	<10	1	<10	18
W793387		<20	<0.01	<10	<10	2	<10	63
W793388		<20	0.01	<10	<10	2	<10	250



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 604 984 0221 Fax: +1 604 984 0218
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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
W793389		2.12	<0.001	<0.2	0.47	58	<10	30	2.0	<2	<0.01	0.5	3	15	95	2.97
W793390		2.43	0.004	3.2	0.52	326	10	40	0.7	15	<0.01	<0.5	1	15	198	3.75
W793391		1.70	<0.001	<0.2	0.05	3	<10	<10	<0.5	<2	0.03	<0.5	1	23	17	0.86



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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			
					Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
					ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
					10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
W793389					<10	<1	0.15	10	0.02	102	1	<0.01	13	550	7	<0.01	<2	1	7
W793390					<10	<1	0.23	20	0.03	69	1	<0.01	5	330	23	<0.01	4	2	6
W793391					<10	<1	0.01	<10	0.01	85	<1	<0.01	2	140	<2	<0.01	<2	<1	1

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



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Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
W793389		<20	<0.01	<10	10	11	<10	114
W793390		<20	<0.01	<10	<10	18	<10	147
W793391		<20	<0.01	<10	<10	1	<10	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.		
	CRU-31	CRU-QC	LOG-21
	PUL-QC	SPL-21	WEI-21
			PUL-31
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-ICP21	ME-ICP41	

APPENDIX IV
ROCK SAMPLE DESCRIPTIONS

Rock Sample DescriptionsProperty: Bix

Sample Number: K293801 Date Collected: 2020-08-25 UTM: 419814 mE Nad83, Zone 8
Elevation: 1436 m Sampler: Sarah Shoniker UTM: 7077991 mN

Comments: At north end of small 'gully' have boulder that shows contact with coarse grained quartz porphyry and very fine grained purplish-grey crystalline quartzite? Hornfels? Fine grained 'hornfels/ quartzite' has fine visible pyrite and possible other sulphides throughout. Smokey quartz eyes in porphyry and contact. Porphyry has fine grains of fresh euhedral biotite grains. Rock weathers grey brown and is brown-grey fresh. Photos of sample 410-416

Sample Number: K293802 Date Collected: 2020-08-25 UTM: 418951 mE Nad83, Zone 8
Elevation: 1421 m Sampler: Sarah Shoniker UTM: 7078366 mN

Comments: Orange brown weathered, orange brown to greenish grey fresh quartz vein cross cutting silicified chlorite schist (? Presumably...?) host rock is very siliceous, fine grained grey to dark green. Pyrite, possible arseno? Around edges of quartz vein in host rock. Orange-red oxide staining. Some sulphuric looking white-yellowish green oxidation on weathered surface? Minor vugs in quartz vein with euhedral quartz crystals growing within. Minor reddish- yellowish orange oxide staining in quartz veins. Quartz is very crystalline and hard to fracture. Found as float on animal path. Photos of sample 417-427

Sample Number: K293803 Date Collected: 2020-08-25 UTM: 419200 mE Nad83, Zone 8
Elevation: 1486 m Sampler: Sarah Shoniker UTM: 7079423 mN

Comments: Station BIX017. old pit, sampled 2011 (?). Reddish grey weathered, reddish orange brown fresh heavily oxidized and altered quartz breccia? Vuggy, almost vesicular type textures. Euhedral quartz crystals grow into vugs. Dark red brown oxide staining. Lots of yellow- orange oxidation throughout. Rock is 'cooked' and heavily leached looking. Photos on phone 4 and 5 of pit taken looking South. Photos of sample 428-435

Sample Number: K293804 Date Collected: 2020-08-25 UTM: 418417 mE Nad83, Zone 8
Elevation: 1232 m Sampler: Sarah Shoniker UTM: 7078583 mN

Comments: Downslope 15m of BIX048 have short rubble train of very silicified and oxidized quartzite (? Or schist?) breccia. More red orange oxide throughout and appears more cooked than 048. Fractures easily, quartzite appears almost cherty and is heavily altered. Very vuggy with some grey clay alteration by weathered surface. Similar to other heavily altered/ oxidized breccia seen on this property. Photos of sample 436-444

Rock Sample Descriptions

Property: Bix

Sample Number: K293805 Date Collected: 2020-08-25 UTM: 418465 mE Nad83, Zone 8
Elevation: 1231 m Sampler: Sarah Shoniker UTM: 7078642 mN

Comments: Similar brecciated quartzite but not as thoroughly destroyed; can still make out the individual quartzite clasts that aren't fully altered/ oxidized. Still very vuggy with limonitic staining in the quartz vein. Found as float. Photos of sample 445-452.

Sample Number: K293806 Date Collected: 2020-08-25 UTM: 420412 mE Nad83, Zone 8
Elevation: 1232 m Sampler: Sarah Shoniker UTM: 7079315 mN

Comments: BIX001. red brown weathered . Dark green- red coarse grained contact with granodiorite/ porphyry and biotite schist (?). Heavily altered and oxidized, lots of chlorite alteration and vugs within the schist. Quartz is quite crystalline. Pocks of red orange- brown oxide found throughout. Found as float sample on small hillside. Photos of sample 453-463

Sample Number: K293807 Date Collected: 2020-08-25 UTM: 419444 mE Nad83, Zone 8
Elevation: 1232 m Sampler: Sarah Shoniker UTM: 7079178 mN

Comments: Dark purple brown weathered, reddish brown- orange fresh heavily altered and oxidized schist (?? Or really altered quartzite??) breccia. Too altered to tell what original lithology was. See fine grains of silvery bladed mineral in matrix; these have no set orientation and are very random in their growth directions. Rock is vuggy with lots of dark purple red to red orange brown oxide staining. Almost has a vesicular texture on weathered surface. Found as float in small rubble pile of oxidized schist on hillside. Some small oxidized clasts of quartzite appear almost cherty. Photos of sample 464-472.

Sample Number: K293808 Date Collected: 2020-08-25 UTM: 419849 mE Nad83, Zone 8
Elevation: 1233 m Sampler: Sarah Shoniker UTM: 7079125 mN

Comments: BIX037. boulder of red brown-grey weathered, grey green-yellow to orange- red brown fresh heavily altered/ oxidized schist? (breaks into layers so think schist although do see some grey-greenish cherty quartzite clasts on edge within so could be quartzite). Rock is vuggy, heavily oxidized, 'cooked'. Found as float. Photos of sample 473-484

Sample Number: K293809 Date Collected: 2020-08-25 UTM: 419645 mE Nad83, Zone 8
Elevation: 1232 m Sampler: Sarah Shoniker UTM: 7078545 mN

Comments: BIX028, lithology 1. orange brown weathered, light grey to light orange tan fresh quartz porphyry with ~1-2 mm long tourmaline (?) crystals in clusters throughout. Minor orange oxide staining. Rock is medium grained and massive with no foliation to the fabric. Found as float with W591000. Photos of sample 485-492

Rock Sample DescriptionsProperty: Bix

Sample Number: K293810 Date Collected: 2020-08-26 UTM: 420899 mE Nad83, Zone 8
Elevation: 1287 m Sampler: Sarah Shoniker UTM: 7079882 mN

Comments: Greenish brown weathered, dark orange- red brown fresh altered muscovite schist. Oxidized and fractured with orange to red brown oxide, vuggy, and heavily altered. Rock appears cooked. Photos of sample 493-498

Sample Number: K293811 Date Collected: 2020-08-26 UTM: 421871 mE Nad83, Zone 8
Elevation: 1396 m Sampler: Sarah Shoniker UTM: 7080506 mN

Comments: float boulders of grey brown weathered light orange fresh very coarse grained porphyry with cm size tourmaline crystals throughout. Most appear to be growing from contact edge with fine grained, very siliceous light purple grey quartzite? (possible calc silicate?). Contact rock is foliated with fine grained layers visible within and appears as a 2cm wide vein within the porphyry rock. Tourmaline crystals are black and euhedral and although most appear to be growing towards the edge of quartzite/ calc silicate, still have some growing in random orientations throughout. Possible fine grained pyrite (?) within clast of 'cherty' dark grey bleb? Or just mica grains? Photos of sample 499-505

Sample Number: K293812 Date Collected: 2020-08-26 UTM: 421928 mE Nad83, Zone 8
Elevation: 1410 m Sampler: Sarah Shoniker UTM: 7080436 mN

Comments: Light orange brown weathered, cherty light grey fresh bull quartz boulder with abundant bright red and orange to yellow orange oxidation/ alteration within. Very vuggy with orange brown oxide infill within some vugs. Found ~5m upslope of historical sample tag 1356 50 STN #1 by small pile of possible skarn (grey green chlorite, fine grained and crystalline/ granular with red and orange oxide staining). A lot of the oxide infill in the quartz vein is heavily altered to clay, don't see much of the original mineral. Photos of sample 506-513

Sample Number: K293813 Date Collected: 2020-08-26 UTM: 422030 mE Nad83, Zone 8
Elevation: 1412 m Sampler: Sarah Shoniker UTM: 7080482 mN

Comments: Red brown weathered, purple grey with light red brown and orange oxide staining, fine grained quartzite breccia (or possible calc silicate?). Dark reddish black, red orange, orange and light yellow-orange oxidized staining throughout rock. Rock is very vuggy and heavy. Small quartz veins within are altered at the edges and have a milky white-yellow colour (not crystalline and clear like typically seeing). Rock is quite siliceous and hard to fracture. Quartzite/ calc silicate clasts are reddish purple and fine grained. Some small chlorite schist clasts visible within as well. Rock appears pretty cooked. Photos of sample 514-523

Rock Sample DescriptionsProperty: Bix

Sample Number: K293814 Date Collected: 2020-08-26 UTM: 422093 mE Nad83, Zone 8
Elevation: 1401 m Sampler: Sarah Shoniker UTM: 7080599 mN

Comments: Looks like an old filled in pit with dark red brown- grey weathered, reddish orange to orange brown fresh very oxidized and altered calc silicate? Similar to schist, just not as much mica. Rock is pretty altered with lots of light yellow- white to orange oxide staining throughout. Small vugs and 'vesicular' texture on weathered surface. Pocks of bright orange oxide throughout (possible weathered out mafic/ sulphide minerals?). Photos of sample 524-532

Sample Number: K293815 Date Collected: 2020-08-26 UTM: 420866 mE Nad83, Zone 8
Elevation: 1360 m Sampler: Sarah Shoniker UTM: 7080158 mN

Comments: Quartz boulder on foot path. Quartz vein in chlorite muscovite schist with vuggy tourmaline and chlorite veinlets within quartz as well. Some tourmaline visible in schist where it is in contact with the quartz. Quartz is mostly white with only minor red-orange staining. Weathers red brown, and is grey green to orange white fresh. Minor orange-red oxide with tourmaline crystals visible as well. Photos of sample 533-545

Sample Number: K293816 Date Collected: 2020-08-27 UTM: 420419 mE Nad83, Zone 8
Elevation: 1311 m Sampler: Sarah Shoniker UTM: 7080257 mN

Comments: Float sample of red brown weathered, medium grey to light reddish brown fresh medium grained quartz porphyry. Limonitic light white-yellow to yellowish orange staining especially in top section closest to weathered exposed surface. Thin veinlet of very fine grained dark green-black tourmaline (?). Little pocks of orange oxide and small vugs throughout. Possibly a siliceous quartzite close to porphyry contact? Quite crystalline and almost 'layered'. Smokey quartz, found with boulders of oxidized schist. Some light grey-yellowish green staining within as well (sausserization of feldspar?). Photos of sample 546-551

Sample Number: K293817 Date Collected: 2020-08-27 UTM: 420468 mE Nad83, Zone 8
Elevation: 1333 m Sampler: Sarah Shoniker UTM: 7080322 mN

Comments: Boulders exposed under fallen tree roots. Grey brown weathered, medium grey fresh silicified and heavily fractured quartzite (almost breccia) with lots of vuggy cross cutting mm size veinlets of yellow green (almost epidote colour), red brown and orange oxide infill. Quartz is stained light yellow-red and has 'oil spill' birefringence (? Is that the word?). Lots of red to red orange oxide staining. Small pocks earth orange oxide in light grey quartzite clasts. Some euhedral quartz crystals and possible very fine grained tourmaline in vugs, stained orange to red brown. Also have heavily altered breccia in same rubble pile (rep sample from station BIX067). Photos of sample are 552-562

Rock Sample DescriptionsProperty: Bix

Sample Number: K293818 Date Collected: 2020-08-27 UTM: 420921 mE Nad83, Zone 8
Elevation: 1468 m Sampler: Sarah Shoniker UTM: 7080644 mN

Comments: Float samples from boulder trains 1-3m long exposed in close proximity to each other on West facing open grassy slope. Possible skarn??? VERY fine grained/ silicified greenish brown grey weathered, purple grey to light green grey fresh quartzite? Purple grey parts are almost cherty and rock is extremely hard. *is this the silicified schist that gets maroon and green by the skarn as mentioned in the YMEP?* fine grained pyrite disseminated throughout. Some found on edges of purple grey layer along contact with lighter green coarser grained layer. Fine grained tremolite (white- light grey 'feathery' mafic mineral in small clusters in some pieces). Unidentified blue-grey metallic sulphide (covellite? Need to look up!) with possible bornite?? Minor oxidation/ red brown staining. Hairline fractures with light red brown infill cross cut rock. Photos of sample 563-573.

Sample Number: K293819 Date Collected: 2020-08-27 UTM: 421087 mE Nad83, Zone 8
Elevation: 1468 m Sampler: Sarah Shoniker UTM: 7080706 mN

Comments: Red brown weathered, light reddish grey fresh quartzite boulder in calc schist/ muscovite/ biotite schist rubble. Has bright red to yellow to orange oxide in vugs and along fresh surface. Quite vuggy and oxidized. Photos of sample 574-582

Sample Number: W590997 Date Collected: 2020-08-20 UTM: 419627 mE Nad83, Zone 8
Elevation: 1419 m Sampler: Sarah Shoniker UTM: 7079604 mN

Comments: Float sample from boulder of orange-brown to brown weathered, light grey- orange grey-brown fresh brecciated quartzite (? Or very silicified and chewed up schist?) very fractured and oxidized, some light yellow-orange limonite staining throughout. Small vugs with fine grained black metallic mineral within (hard to distinguish what it is... possible cassiterite?). Possible clast with flow banding at contact with breccia and quartzite. Vuggy textures, mostly with no infill unless very fine grains. Coarse grained and heavily 'cooked' although rock is still fairly weighty. Further up hill find pieces of rock with very fine grained metallic black mineral around edges of clasts in red oxide matter.

Sample Number: W590998 Date Collected: 2020-08-21 UTM: 420148 mE Nad83, Zone 8
Elevation: 1247 m Sampler: Sarah Shoniker UTM: 7080076 mN

Comments: Float sample of red grey weathered, light yellow-orange brown fresh heavily oxidized quartzite breccia (?). Very vuggy with limonite and possible flow banding on clast similar to W590997. Similar dark purple-reddish brown mineralization around possible very silicified quartzite clasts/ fragments? Clasts almost appear cherty and are subrounded. Found in rubble on hillside with siliceous oxidized schist and quartzite. Possibly getting close to granodiorite contact? Photos of sample 379-386

Rock Sample Descriptions

Property: Bix

Sample Number: W590999 Date Collected: 2020-08-22 UTM: 419985 mE Nad83, Zone 8
Elevation: 1248 m Sampler: Sarah Shoniker UTM: 7080168 mN

Comments: Grab sample of red brown weathred, light-dark grey fresh silicified quartzite breccia like BIX019-1 and BIX013-2 but with dark red-grey weathered veins of fine grained tourmaline (?) and fine grained silvery metallic sulphide present within. Vugs in veins and red oxide in pocks around veins. Sulphide appears to be in the lighter grey siliceous quartz not so much in the darker quartzite. Rock is very siliceous. Found at base of slope of possible gossan BIX022. Photos 387- 397 of sample

Sample Number: W591000 Date Collected: 2020-08-23 UTM: 419639 mE Nad83, Zone 8
Elevation: 1339 m Sampler: Sarah Shoniker UTM: 7078545 mN

Comments: Float samples found of grey weathered, dark grey fresh very siliceous medium-coarse grained skarn? Hornsfelsed quartzite?? Rock is very hard and silicified ('pings' like quartzite!) with large (cm size) black tourmaline crystals. Some spots have a tarnished gold-brown staining/ mineral on the fresh surface. Some like peach coloured diopside? Calcite? With tourmaline crystals in some sections. Fine grained chlorite and/ or epidote is visible and possible very fine grained pyrite disseminated in places. Rock is very heavy. Large (1cm size) quartz eyes in very fine grained bluish grey matrix which are very clear/ white). Small pocks of light reddish orange oxide visible throughout. Further downslope approximately 5m is another boulder that has a mixed/ gradational contact with fine grained quartz greisen/ porphyry of BIX028-1. This hand specimen is mostly coarse grained black tourmaline and very fine crystalline grains of muscovite and minor biotite and quartz along contact. Photos of sample are 398- 410

Sample Number: W793372 Date Collected: 2020-08-03 UTM: 420298 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7079892 mN

Comments: Float sample of rusty brown weathered, light grey fresh, biotite-quartz-feldspar porphyry with phenocrysts of biotite (2% overall), smoky rounded quartz (5%; up to 8mm diameter), and feldspar (10%; up to 1cm long) in a very fine-grained light grey matrix of quartz and feldspar (granodioritic composition?); feldspars altered to sericite and locally white to light orange clays; moderate limonite coating vugs and infilling weathered out phenocrysts and on fracture surfaces.

Rock Sample Descriptions

Property: Bix

Sample Number: W793373 Date Collected: 2020-08-03 UTM: 420395 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078878 mN

Comments: Float sample of brown to gossanous weathered, light orange to white on fresh surface, coarse-grained, silicified quartzite (sample lacks original texture because it is so siliceous) with 2cm wide vuggy quartz veinlet cutting unit with vugs up to 4mm coated with limonite ± goethite. Patches of fine-grained black mineral - tourmaline?? - up to 3mm in diameter within veinlet. Groundmass has vugs up to 4mm and fracture surfaces coated with limonite. ~2cm patch of tan to light orange, very fine-grained, soft clay on fresh surface.

Sample Number: W793374 Date Collected: 2020-08-03 UTM: 419672 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078277 mN

Comments: Float sample of light brown weathered, light greenish grey to orange fresh, medium-grained inequigranular granite with locally porphyritic smoky quartz eyes (up to 8mm in diameter) and fine-grained white mica; black prismatic striated crystals (very hard) up to 1.5cm long occur as aggregates with smoky quartz - tourmaline ± cassiterite?; pocks and vugs up to 9mm long infilled with recrystallized quartz and coated with orange to red oxidation (limonite ± hematite?); feldspars are weakly sausseritized. Cut by 1mm wide black veinlet - tourmaline veinlet?

Sample Number: W793375 Date Collected: 2020-08-03 UTM: 419433 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7077961 mN

Comments: Medium grey to brown weathered, tan to light orange fresh, silicified quartzite that is largely texturally destroyed with moderately abundant vugs up to 6mm; weak to moderate orange oxidation (limonite?) occurs on fracture surfaces and coating mm-scale pits as well as vugs with fine-grained 1-2mm wide seams (foliae?) throughout that have minor 1-2mm wide vugs coated with limonite; weak to moderate orange limonite oxidation occurs on fracture surfaces

Sample Number: W793376 Date Collected: 2020-08-03 UTM: 419433 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7077961 mN

Comments: Light brown to buff weathered, tan to light orange fresh, silicified schist - mica schist(?) - that is highly altered and texturally destroyed; remnant foliation is visible but mineralogy is hard to distinguish; interstitial to silica flooding is tan to light orange, fine-grained, soft clay alteration(? - easily scratched); orange to brownish red oxidation is pervasive through silicified fresh surface and coats fracture surfaces.

Rock Sample Descriptions

Property: Bix

Sample Number: W793377 Date Collected: 2020-08-03 UTM: 419995 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7080174 mN

Comments: Composite sample from outcrop and locally derived rubble of gossanous to brownish orange weathered, light grey to tan on fresh surface, altered and silicified muscovite(?) schist; cross cut by 2-3mm wide, black to dark grey, fine-grained veinlets - possibly tourmaline?; dark red hematite oxidation occurs on foliae; moderate to strong orange limonite oxidation occurs on weathered surface, foliation surfaces and along fracture surfaces; brownish purple botryoidal mineral occurs on fracture surfaces - goethite? hematite?

Sample Number: W793378 Date Collected: 2020-08-03 UTM: 420182 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7079430 mN

Comments: Float sample of brownish orange weathered, light grey to white to light orange fresh quartzite with moderate to strong orange limonitic and lesser purplish red oxidation throughout, particularly coating cugs and small hairline veinlets; locally quartzite has a "cherty" texture; no visible sulfides

Sample Number: W793379 Date Collected: 2020-08-03 UTM: 419805 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078437 mN

Comments: Float grab from boulder/rubble of light orange weathered, buff to tan fresh, fine to medium-grained equigranular altered granite to greisen(?) with a sugary texture (almost aplite) with aggregates up to 8mm long of vitreous, hard black mineral - cassiterite? tourmaline? - that comprises 5-7% of rock; local vugs to cavities up to cm-scale (miarolitic cavities?)

Sample Number: W793380 Date Collected: 2020-08-03 UTM: 419748 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078222 mN

Comments: Composite grab sample of brownish orange weathered, medium grey to tan to light orange on fresh surface, fine-grained siliceous muscovite granite (greisen? - vugs mm-scale to cavities up to cm-scale) with rounded phenocrysts of smoky quartz up to 5mm diameter; light orange staining (limonite oxidation) occurs on fracture surfaces and coats mm-scale pits; small mm-scale (up to 5mm diameter) clusters of black to dark grey hard mineral - cassiterite or tourmaline? (2-3% overall).

Rock Sample Descriptions

Property: Bix

Sample Number: W793381 Date Collected: 2020-08-03 UTM: 419645 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078845 mN

Comments: Float sample from locally derived boulder on gentle open slope of brownish grey weathered, tan to light grey fresh muscovite-tourmaline quartz monzonite; black tourmaline up to 1cm occurs in clusters that comprise 20% of the sample and occur within a 4cm wide band that is surrounded by fine-grained granitoid (granite?) with abundant fine-grained euhedral muscovite; minor pits up to 2mm wide with moderate limonitic coating.

Sample Number: W793382 Date Collected: 2020-08-03 UTM: 419636 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078850 mN

Comments: Float sample of brownish orange weathered, light grey to white to light orange fresh silicified schist cut by 2.5cm wide quartz vein (cross cuts perpendicular to foliation) with discontinuous selvage comprised of fine-grained chlorite ± tourmaline; orange limonite oxidation occurs in patches up to 1cm diameter as well as coating vugs and pits within quartz vein (up to 4mm wide)

Sample Number: W793383 Date Collected: 2020-08-03 UTM: 419642 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078946 mN

Comments: Float sample of brownish orange weathered, light translucent grey to light orange fresh silicified quartzite (almost brecciated) with thin (mm-scale to 0.5cm wide) black to dark brown veinlets(?) comprised of very fine-grained to acicular tourmaline; vugs <1cm with fine-grained acicular tourmaline growing in them; abundant brownish vitreous shimmery acicular mineral on purplish red oxidized surface - goethite?

Sample Number: W793384 Date Collected: 2020-08-03 UTM: 419973 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7079123 mN

Comments: Float sample of light brown weathered, light greenish grey to orange fresh, medium-grained inequigranular granite (greisen?) with locally porphyritic smoky quartz eyes (up to 6mm in diameter) and fine-grained white mica; mm-scale pits are infilled with dark orange limonitic oxidation - possibly weathered out sulfides?

Sample Number: W793385 Date Collected: 2020-08-03 UTM: 419973 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7079123 mN

Comments: Float sample collected on hillside of medium grey to brownish orange weathered to light to medium grey fresh silicified quartzite breccia with moderate limonite oxidation concentrated along fracture surfaces and infilling vugs (up to 3mm wide); mm-scale pits infilled with orange limonite as well as brownish-orange oxidation mineral - weathered out sulfides?

Rock Sample Descriptions

Property: Bix

Sample Number: W793386 Date Collected: 2020-08-03 UTM: 419866 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7078235 mN

Comments: Composite float sample collected from rubble pile of quartzite and quartz porphyry; sample is of medium grey to brownish orange weathered to light to medium grey fresh silicified quartzite, heavily fractured (almost brecciated); quartzite is cross cut by light to medium grey crystalline to vuggy quartz veins up to 1cm wide with euhedral quartz crystals (mm-scale) and moderate to strong brownish orange (limonite?) oxidation mineral infilling vugs

Sample Number: W793387 Date Collected: 2020-08-03 UTM: 419834 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7077984 mN

Comments: Float sample of brownish grey green weathered, greyish-green to medium grey gresh, fine-grained, heavily altered (almost to clay) schist with opaque white to light pink crystalline quartz veins (up to 1cm wide) cutting it (looks almost like siliceous quartzite breccia); quartz veins are vuggy (up to 2cm long) infilled with recrystallized quartz and coated with moderate to strong brownish orange oxidation (limonite ± goethite?); yellowish-green, fine-grained, soft alteration mineral is pervasive in altered schist layers (chlorite? clays?) and often pitted (almost boxwork); no visible sulfides

Sample Number: W793388 Date Collected: 2020-08-03 UTM: 421403 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7080353 mN

Comments: Float sample of brownish red weathered, medium grey to black fresh, fine-grained siliceous schist to quartzite (primary lithology unclear) with abundant fine to very fine-grained tourmaline veinlets up to 1cm thick; local vugs coated with mm-scale acicular tourmaline crystals; mm-scale pits and vugs up to 1cm long coated with dark orange limonitic coating - possibly weathered out sulfides?

Sample Number: W793389 Date Collected: 2020-08-03 UTM: 420468 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7080322 mN

Comments: Float sample collected from boulders exposed under fallen tree roots of brownish orange to brownish red weathered, tan to light orange on fresh surface heavily altered siliceous quartzite (possibly brecciated) with strong to intense brownish orange oxidation that is pervasive (limonite + hematite?); a silvery dark grey to dull earthy dark grey mineral forms seams within the quartzite and interstitially to brecciated quartzite fragments as well as surrounding vugs - goethite? (brownish yellow streak); vugs up to 1cm locally coated with very-fine grained black mineral - tourmaline?

Rock Sample Descriptions

Property: Bix

Sample Number: W793390 Date Collected: 2020-08-03 UTM: 420524 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7080357 mN

Comments: Float sample from very large boulder of brownish orange weathered, light to medium grey to light orange fresh, clast supported quartzite breccia with well preserved (minor alteration) angular clasts up to 2cm comprised dominantly of dark and light grey schist and quartzite (that almost looks like chert) with minor quartz fragments; matrix is light grey, fine-grained with moderately abundant limonitic oxidation pervasive throughout; abundant vugs (up to 8mm wide) in the matrix that are infilled with moderate to strong limonite oxidation; no visible sulfides

Sample Number: W793391 Date Collected: 2020-08-03 UTM: 420778 mE Nad83, Zone 8
Elevation: m Sampler: Sarah Shoniker UTM: 7080590 mN

Comments: Float sample from boulder of light brownish orange weathered, light orange to opaque white fresh quartz vein with dark greyish green acicular tourmaline(?) that occurs as radiating aggregates up to 2cm in diameter on orange stained fracture surface; minor vugs up to 8mm wide infilled with recrystallized quartz, fine-grained euhedral muscovite and coated with limonite.
