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ASSESSMENT REPORT

describing

PROSPECTING AND GEOCHEMICAL SAMPLING

Field work performed from July 15 to 21, 2017

at the

QUEEN PROPERTY

Queen 1-96 YF53201-YF53296

NTS 115H/16

Latitude 61°47'N; Longitude 136°10'W

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

K. Willms, B.Sc.

March 2018

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INTRODUCTION

The Queen property lies in south-central Yukon, and was staked to cover regional soil and silt samples that returned anomalous copper values. The property is located five kilometres north of Strategic Metals Ltd.'s King property, a copper±gold porphyry and arsenic-antimony±gold vein occurrence. The Queen property is wholly owned by Strategic Metals.

This report describes prospecting, and soil geochemical sampling conducted between July 15 and July 21, 2017 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The author did not participate in the field program, but he did interpret all results from this work. His Statement of Qualifications is in Appendix I, and a Statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Queen property consists of 96 contiguous mineral claims, which are located on NTS map sheet 115H/16 at latitude 61°47' north and longitude 136°10' west (Figure 1). The property covers an area of approximately 2000 ha (20 km²). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Queen 1-96	YF53201-YF53296	April 4, 2022

* Expiry date includes 2017 work, which has been filed for assessment credit but not yet accepted.

The Queen property is located 35 km south of the community of Carmacks and less than five kilometres west of the Klondike Highway. Access in 2017 was provided by a Bell 206B helicopter operated by Capital Helicopters (1995) Inc. from its permanent base at the Whitehorse Airport. The work was done from a small tent camp on the property. Personnel and camp gear were flown to and from the campsite from a small gravel pit located approximately 15 km southeast of the property, adjacent to the Klondike Highway.

The Queen property lies within the traditional territories of the Little Salmon/Carmacks, Champagne and Aishihik, and Kwanlin Dun first nations, all of which have concluded land claim agreements with Canada and Yukon.

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

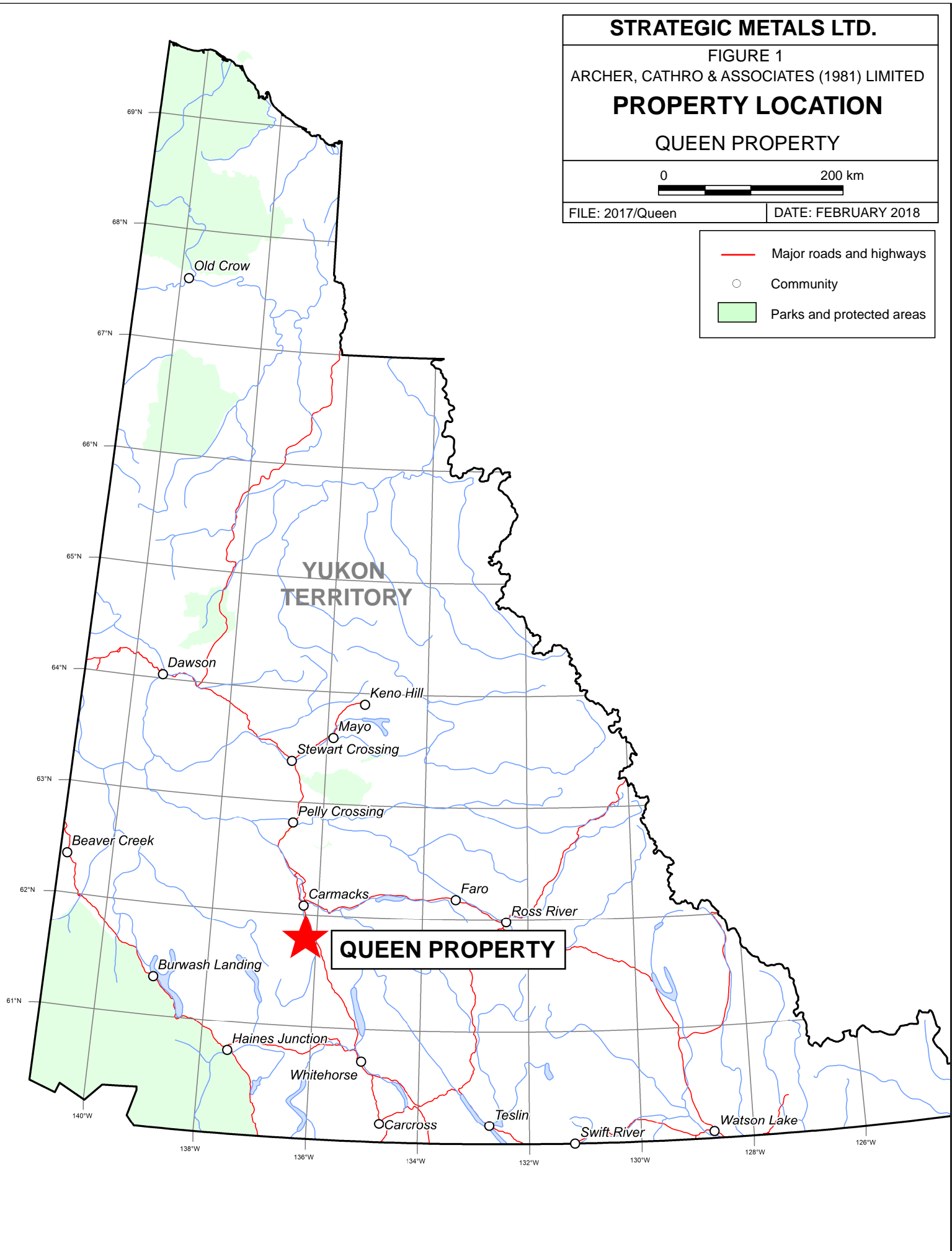
QUEEN PROPERTY

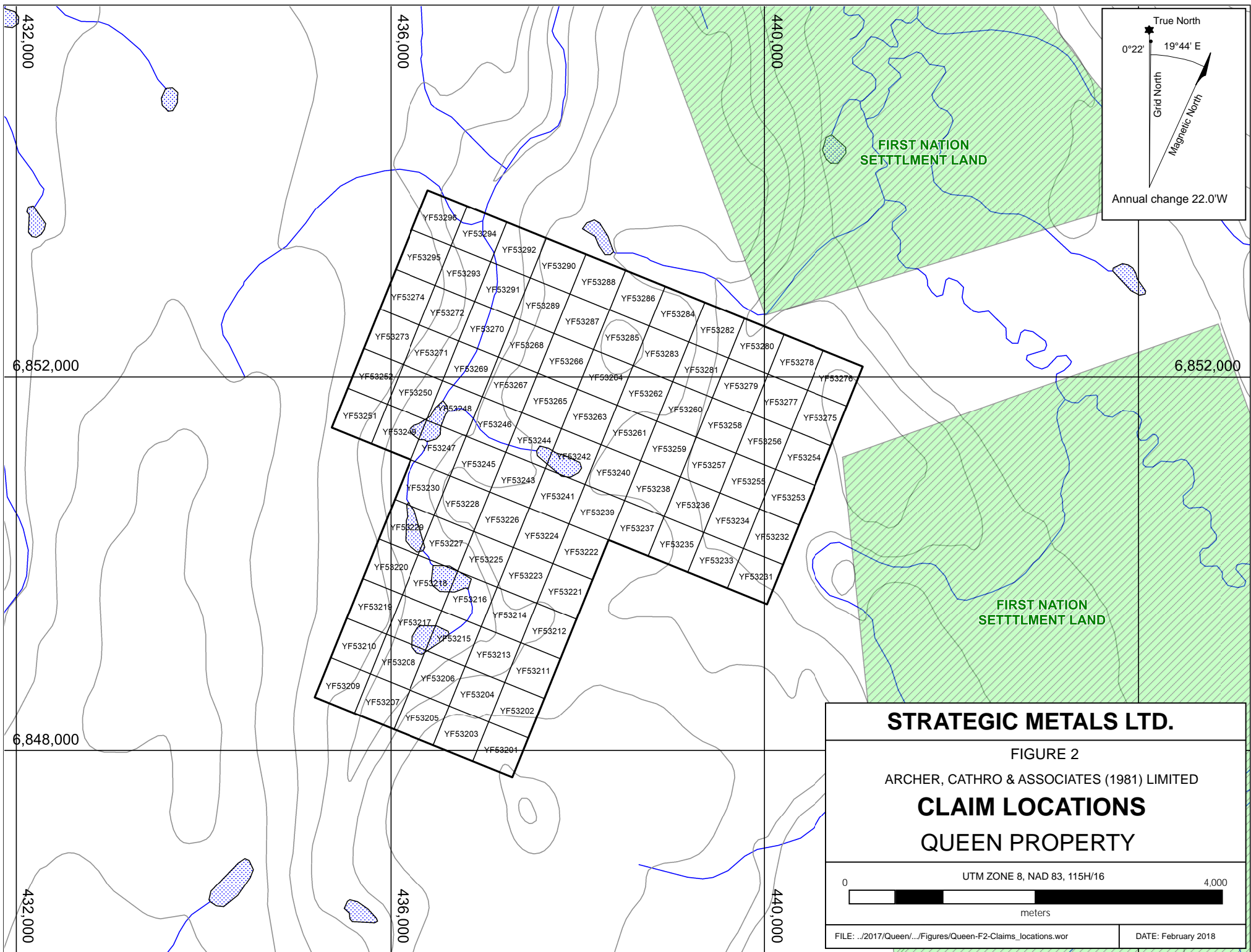
0 200 km

FILE: 2017/Queen

DATE: FEBRUARY 2018

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





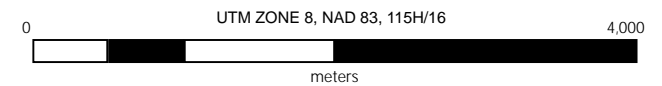
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FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

QUEEN PROPERTY



HISTORY AND PREVIOUS WORK

In 1972, parts of the Queen property were sampled by Archer Cathro during a regional soil and stream sediment survey performed for South Yukon Joint Venture (SYJV). Samples were analyzed for copper, molybdenum and silver. Samples from the northern part of the property returned up to 240 ppm copper-in-soil and 236 ppm copper-in-silt (Archer and Cathro, 1972). Values for molybdenum and silver were low.

In 1980, Archer Cathro performed gold exploration in various parts of the Dawson Range as part of the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd. During that program, stream sediment and soil samples were collected from the area of the Queen property. Soil sampling returned up to 8 ppb gold (Archer and Onasick, 1980).

In 1985, the Geological Survey of Canada (GSC) conducted a reconnaissance stream sediment sampling program across NTS map sheet 115H. Four stream sediment samples were collected from drainages in the northern part of the Queen property. These samples returned up to 42 ppm copper and 3 ppb gold (Friske et al., 1986).

In 2017, Strategic Metals staked the Queen claims.

GEOMORPHOLOGY AND CLIMATE

The Queen property is located on a deeply incised plateau in the southern part of the Dawson Range. Creeks on the property flow north and east before joining the Nordenskiold River, part of the Yukon River watershed.

Elevations range from 650 m to 1050 m above sea level (asl). Topography in the area has been influenced by numerous glacial events, including the most recent McConnell, Gladstone and Reid glaciations which occurred 18,000, 60,000 and 120,000 years ago, respectively (YGS, 2017a). Glacial and glaciofluvial deposition related to the McConnell glaciation predominate and the property exhibits blankets of moraine colluvium and moraine veneers along meltwater channels and topographic lows. The primary glacial direction on the Queen property was north to northwesterly (Duk-Rodkin, 1999).

The Queen property lies below treeline. Vegetation at lower elevations consists of spruce and alder forests with some marshy areas. At higher elevations, south facing slopes with grassy openings are common. Outcrop is limited to these openings and steep flanking valley slopes. Approximately 5% of the property is exposed bedrock.

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

REGIONAL GEOLOGY

The Queen property is located within the Stikinia Terrane (ST) as shown on Figure 3. Stikinia is a parautochthonous to allochthonous terrane which represents an exotic arc that was accreted to ancestral North American continent in Early Mesozoic (Sanchez et al., 2014). A portion of Stikinia is overlain by the Whitehorse Trough, an elongate northwest-trending Mesozoic marine sedimentary basin that extends from north of Carmacks to near Dease Lake, British Columbia. The western edge of the Whitehorse Trough is bound by the Braeburn Fault, a dextral strike-slip fault with an estimated eight kilometres of displacement (White et al., 2006). The Braeburn Fault lies about five kilometres east of the property.

In 1974, the Geological Survey of Canada published a geological map of the Aishihik Lake area (NTS map sheet 115H) at 1:250,000 scale (Templeman-Kluit, 1974). Gordey and Makepeace (2003) later completed a Yukon-wide geological compilation, which updated the lithological unit names in the Queen area. Geological unit names and geological maps were most recently updated in 2016 by the Yukon Geological Survey (YGS) (YGS, 2017b). Lithological units occurring near the Queen property are described in Table I, while the regional geology is shown in Figure 4.

Table I– Lithological Units (after YGS, 2017b)

Map Suite	Age	Map Unit	Description
Carmacks Group	Upper Cretaceous	uKC1	(uKC1) Volcanic succession dominated by basic volcanic strata; augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite phyric andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks.
Whitehorse Suite	Early Cretaceous	mKqW	(mKqW) Medium to coarse-grained, generally equigranular felsic granitoids; biotite quartz-monzonite, biotite granite and leucogranite, pink granophyric quartz monzonite, porphyritic biotite leucogranite, locally porphyritic (K-feldspar) hornblende monzonite to syenite, and locally porphyritic leucocratic quartz monzonite.
Tantalus Formation	Middle Jurassic to Lower Cretaceous	JKT	(JKT) Massive to thickly bedded chert pebble conglomerate and gritty quartz-chert-feldspar sandstone; interbedded dark grey shale, argillite, siltstone, arkose and coal; includes red-weathering

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

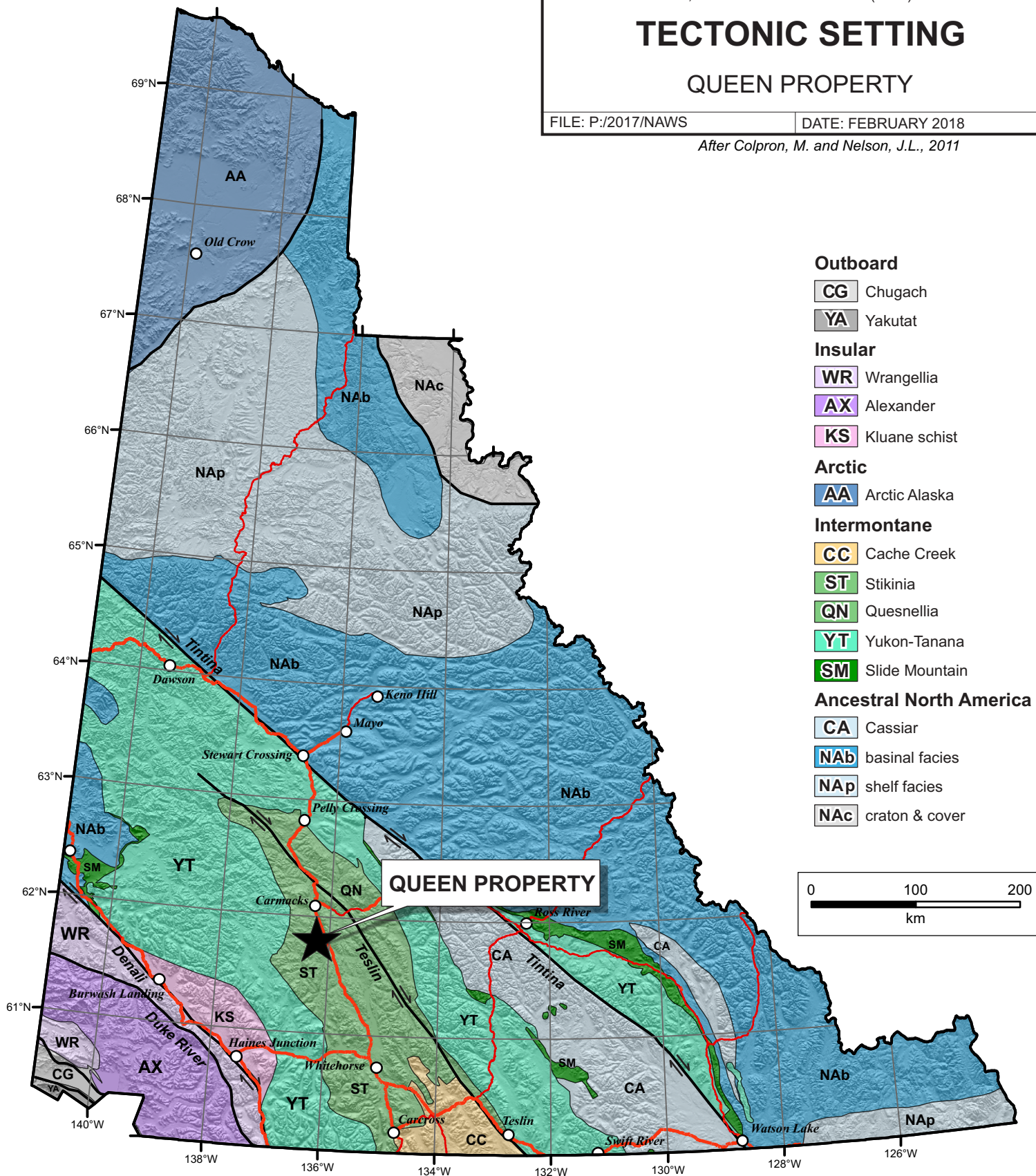
TECTONIC SETTING

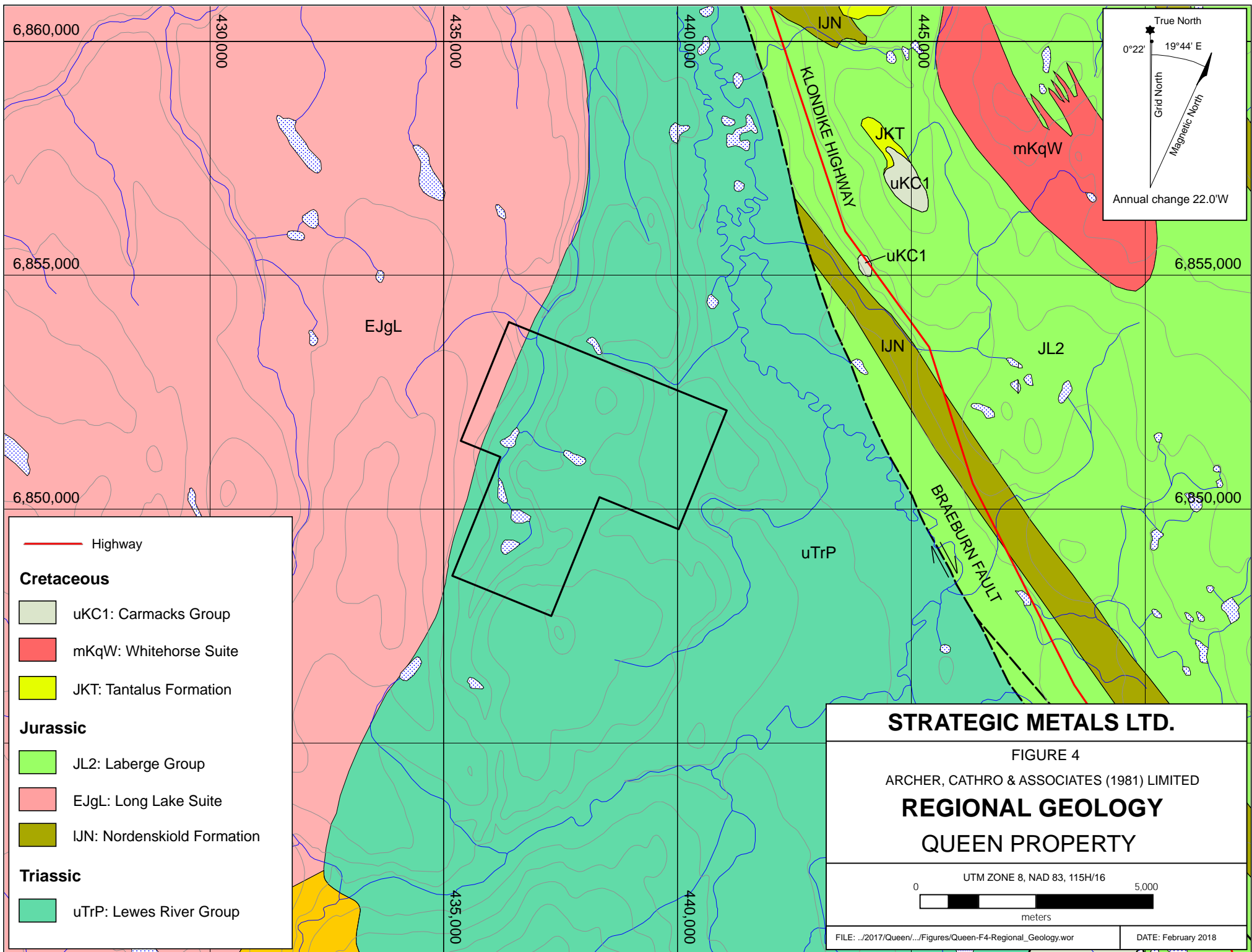
QUEEN PROPERTY

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DATE: FEBRUARY 2018

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





6,860,000
6,855,000
6,850,000

430,000

435,000

440,000

445,000

6,855,000

6,850,000

— Highway

Cretaceous

- uKC1: Carmacks Group
- mKqW: Whitehorse Suite
- JKT: Tantalus Formation

Jurassic

- JL2: Laberge Group
- EJgL: Long Lake Suite
- IJN: Nordenskiold Formation

Triassic

- uTrP: Lewes River Group

True North
0°22'
Gird North
19°44' E
Magnetic North
Annual change 22.0'W

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

QUEEN PROPERTY

UTM ZONE 8, NAD 83, 115H/16

0 5,000
meters

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			dacite to andesite flows at base.
Long Lake Suite	Early Jurassic	EJgL	(EJgL) Intermediate rocks; medium to coarse-grained, massive to weakly foliated biotite-hornblende granodiorite, with local K-feldspar megacrysts.
Laberge Group	Lower to Middle Jurassic	JL2	(JL2) Predominantly shallow-marine sandstone-shale-conglomerate; poorly sorted, medium-bedded to massive arkosic sandstone and minor shale with interbeds and thick members of resistant heterolithic pebble and boulder conglomerate; recessive, dark brown weathering, thin-bedded, dark brown to greenish, silty shale (Tanglefoot fm).
Nordenskiold Formation	Lower Jurassic	IJN	(IJN) Resistant, reddish brown weathering, massive khaki-green dacite crystal tuff and volcanoclastic sandstone, with fresh plagioclase, hornblende and biotite; grades locally to pale green, punky weathering, salt and pepper textured, massive lithic sandstone; interbedded conglomerate.
Lewes River Group	Upper Triassic	uTrP	(uTrP) Augite or feldspar phyric, locally pillowed andesitic basalt flows, breccia, tuff, sandstone and argillite; local dacitic breccia and tuff with minor limestone; greenschist, chlorite schist, chlorite-augite-feldspar gneiss, amphibolite (Povoas fm).

Basement rocks in the area are composed of Upper Triassic arc volcanic and sedimentary rocks of the Lewes River Group. The Povoas Formation (uTrP), the primary member of the Lewes River Group, underlies most of the Queen property. The Povoas Formation is intruded along the western margin of the Queen property by a batholith of Early Jurassic Long Lake Suite (EJgL) granodiorite. In the immediate vicinity of the property the batholith contact trends north-northeast. Five kilometres east of the property, the Braeburn Fault juxtaposes intercalated Middle Jurassic sedimentary and volcanoclastic rocks of the Laberge Group (JL2) and Nordenskiold Formation (IJN) against uTrP. The Laberge Group is overlain by Middle Jurassic Tantalus Formation (JKT) sedimentary sequences and intruded by Early Cretaceous Whitehorse Suite (mKqW) granodiorite.

All of the above units are overlain by Upper Cretaceous Carmacks Group (uKC1) volcanic rocks. Secondary faults in the area generally splay northeast or northwest off the Braeburn Fault. The sense of motion and magnitude of offset are not known for the splay structures.

No systematic property scale geological mapping has been performed on the Queen property.

MINERALIZATION

In 2017, Strategic Metals collected 23 rock samples from the property. Rock sample locations are plotted on Figure 5. Rock Sample Descriptions and Certificates of Analysis for the 2017 samples are provided in Appendices III and IV, respectively.

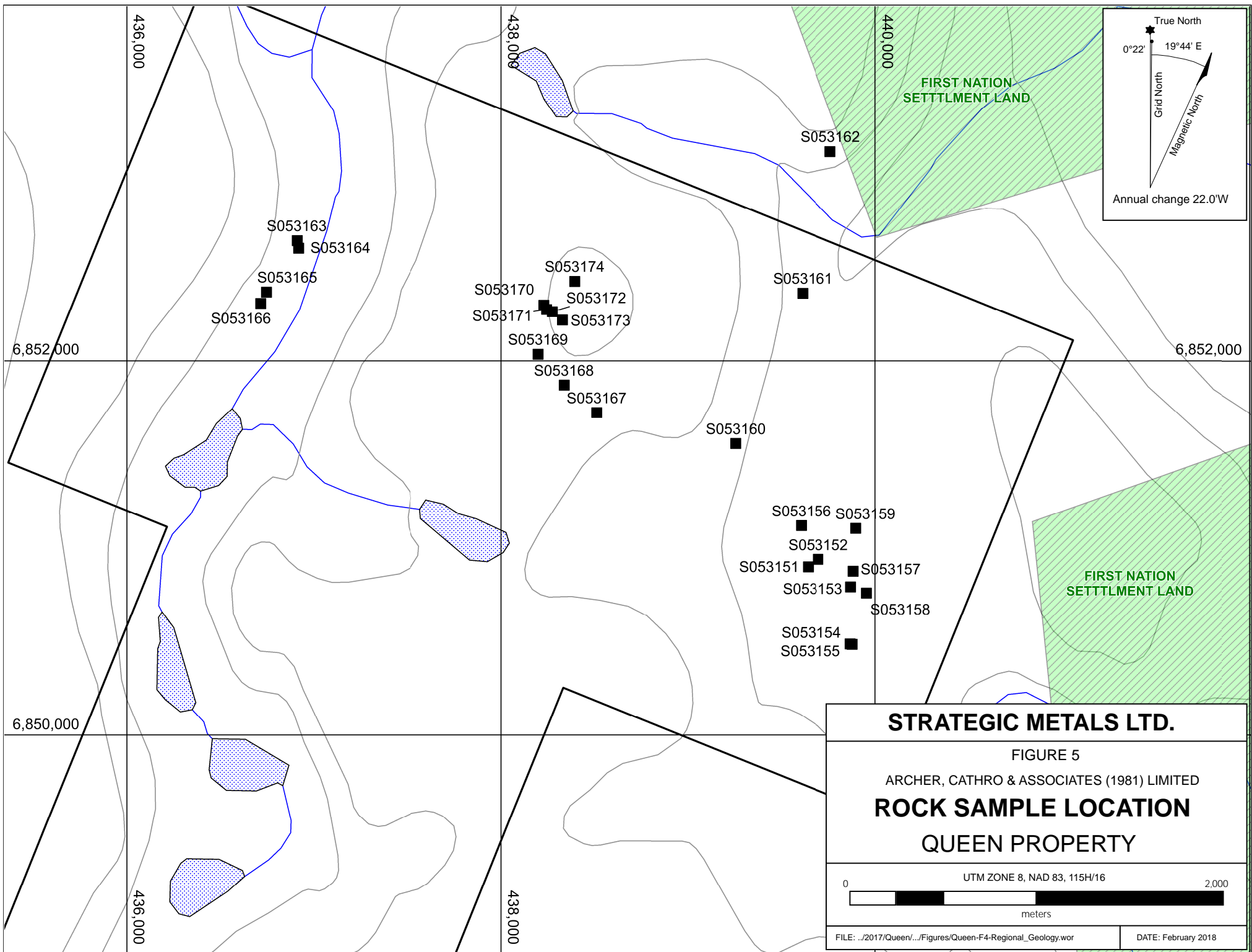
Rock sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals laboratories in Whitehorse, YT and North Vancouver, 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 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analysed for gold by fire assay followed by atomic absorption spectroscopy (Au-ICP21).

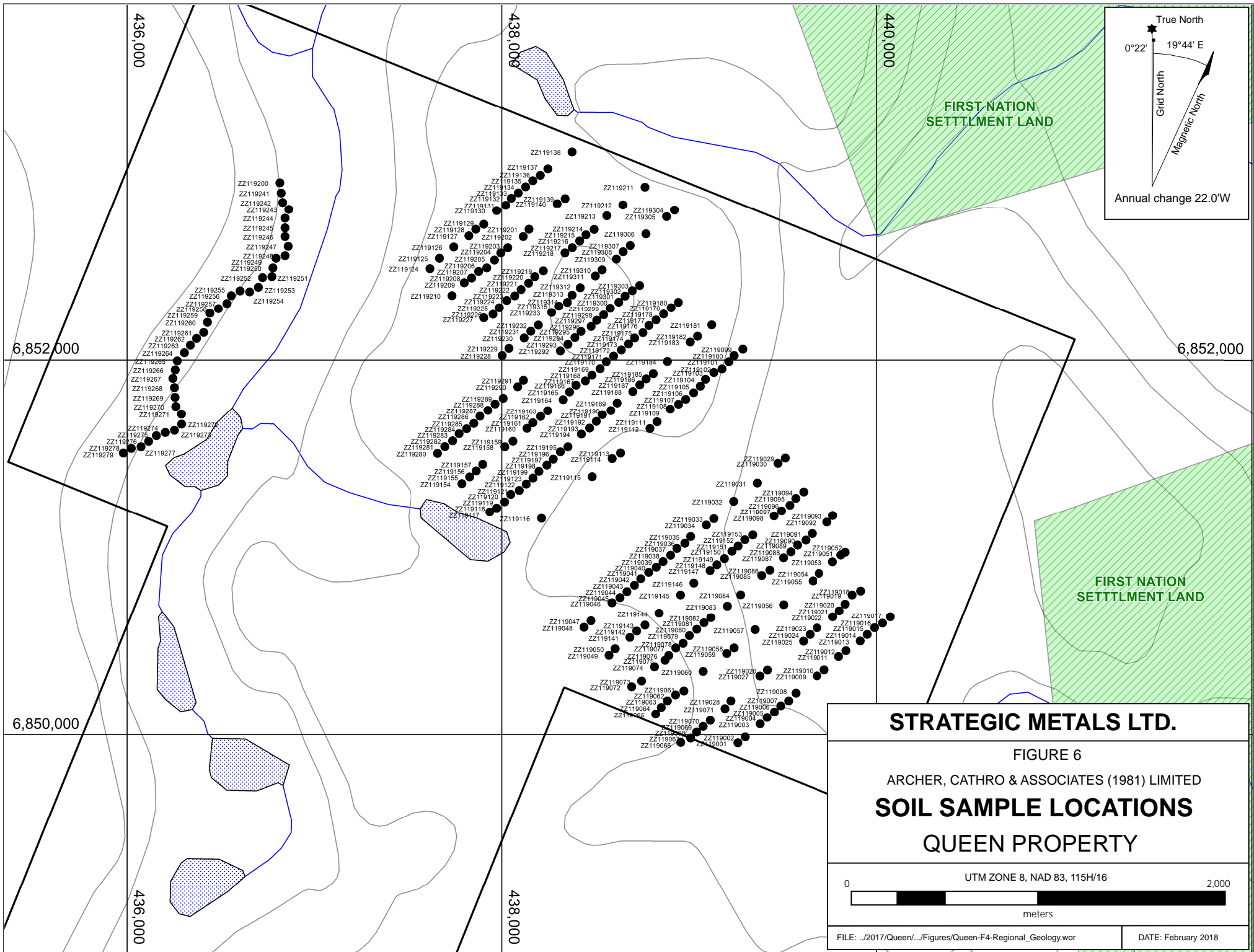
Rock samples collected in 2017 were collected from hand pits and outcrop. These samples comprised mostly basaltic andesite with fine grained pyrite and chalcopyrite and siltstone hosting rare coarse pyrite. Two basaltic andesite samples displayed abundant quartz veining and limonite alteration. Results from the sampling were subdued, with peak values of 226 ppm copper and low gold.

SOIL GEOCHEMISTRY

In 2017, Strategic Metals collected 306 grid and contour soil samples from the property. The sampling was designed to test ground near anomalous historical silt and soil samples. Soil sample locations are shown on Figure 6, while thematic results for copper, gold and arsenic are illustrated thematically on Figures 7 to 9, respectively. Certificates of Analysis for the 2017 samples are provided in Appendix IV. Anomalous thresholds and peak values for soil and silt samples are listed in Table II.

The 2017 soil samples were collected at 50 m spacings from holes dug by hand-held auger. Locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. They were placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analysed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An





True North
 0°22' 19°44' E
 Grid North
 Magnetic North
 Annual change 22.0'W

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

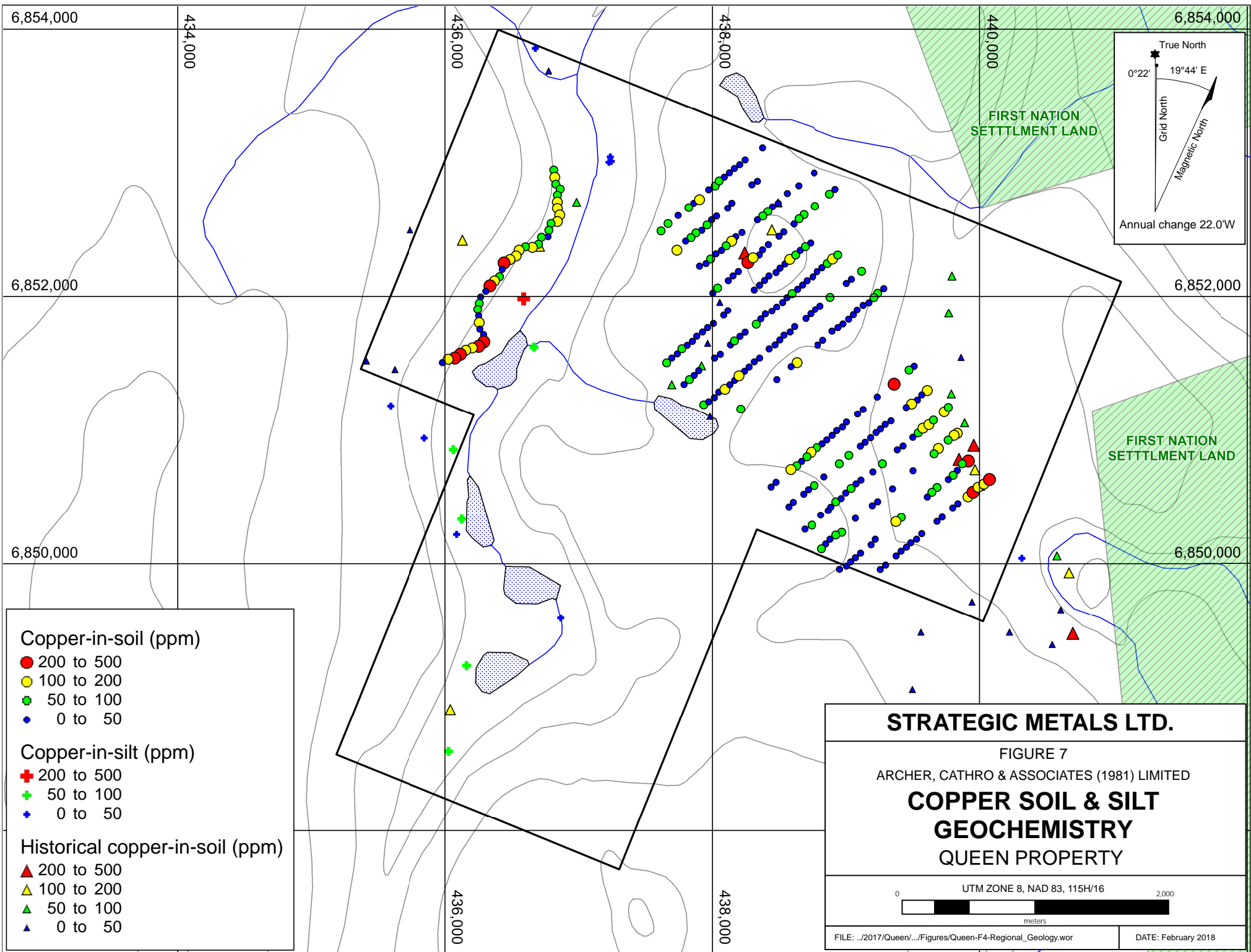
SOIL SAMPLE LOCATIONS

QUEEN PROPERTY

0 2,000
 meters

UTM ZONE 8, NAD 83, 115H/16

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6,854,000
434,000
6,852,000
6,850,000

True North
0°22' 19°44' E
Grid North
Magnetic North
Annual change 22.0'W

Copper-in-soil (ppm)
 ● 200 to 500
 ● 100 to 200
 ● 50 to 100
 ● 0 to 50

Copper-in-silt (ppm)
 + 200 to 500
 + 50 to 100
 + 0 to 50

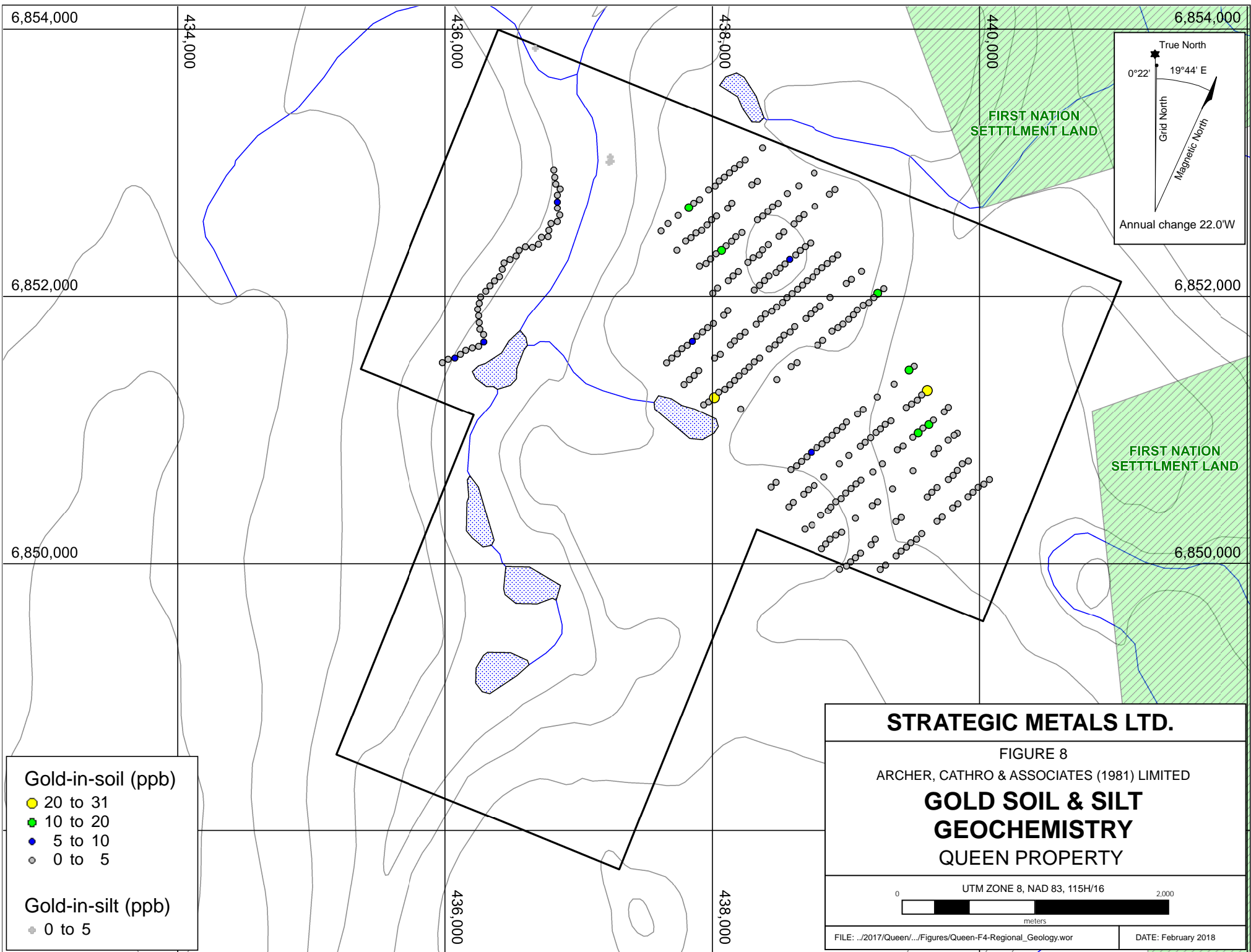
Historical copper-in-soil (ppm)
 ▲ 200 to 500
 ▲ 100 to 200
 ▲ 50 to 100
 ▲ 0 to 50

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FIGURE 7
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**COPPER SOIL & SILT
 GEOCHEMISTRY**
 QUEEN PROPERTY

UTM ZONE 8, NAD 83, 115H/16
 0 2,000
 meters

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 DATE: February 2018



6,854,000

434,000

436,000

438,000

440,000

6,854,000

6,852,000

6,852,000

6,850,000

6,850,000

436,000

438,000

Gold-in-soil (ppb)

- 20 to 31
- 10 to 20
- 5 to 10
- 0 to 5

Gold-in-silt (ppb)

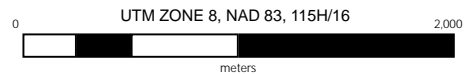
- 0 to 5

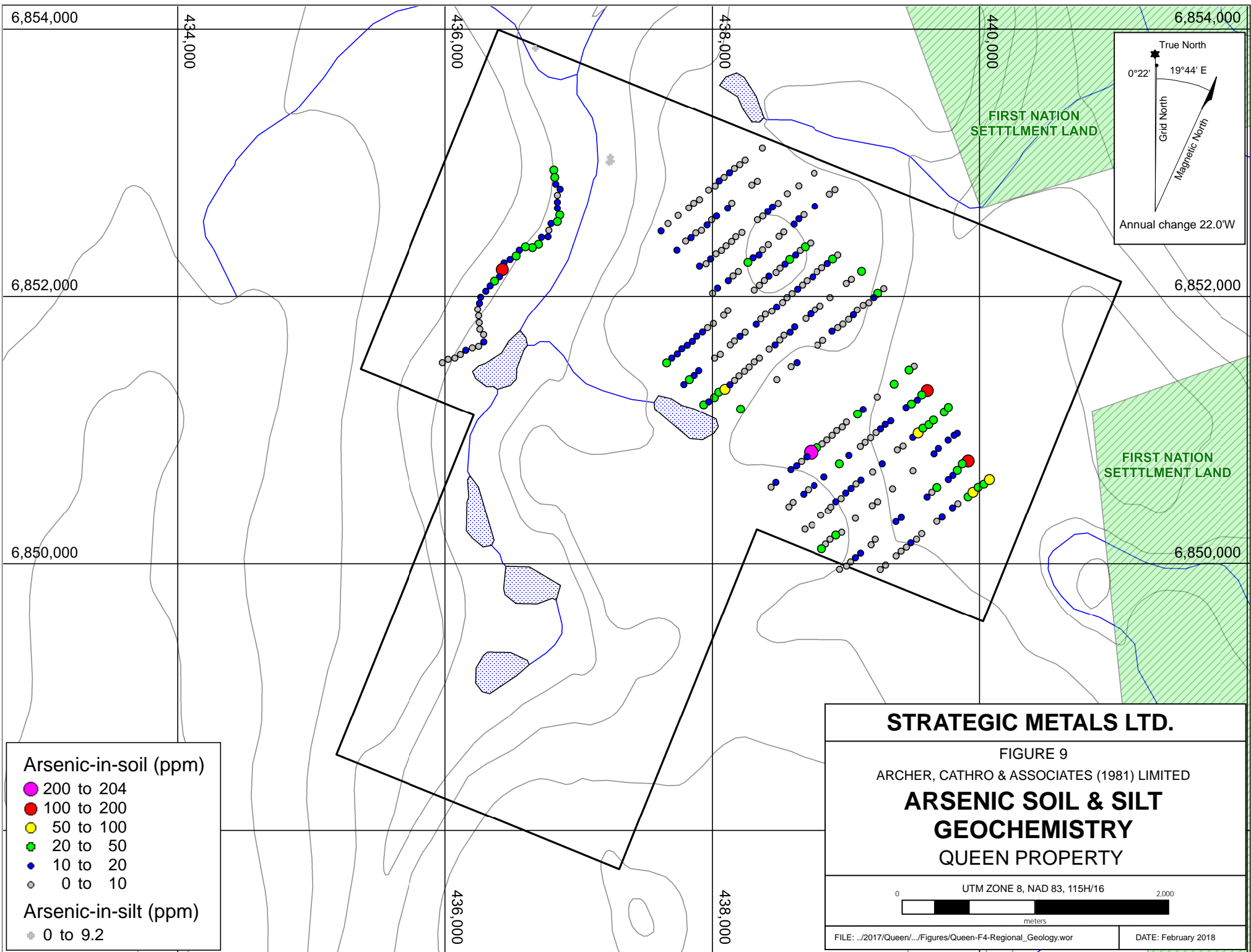
STRATEGIC METALS LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GOLD SOIL & SILT
GEOCHEMISTRY
QUEEN PROPERTY**





6,854,000

434,000

436,000

438,000

440,000

6,854,000

6,852,000

6,852,000

6,850,000

6,850,000

436,000

438,000

Arsenic-in-soil (ppm)

- 200 to 204
- 100 to 200
- 50 to 100
- 20 to 50
- 10 to 20
- 0 to 10

Arsenic-in-silt (ppm)

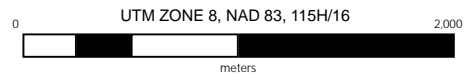
- ✦ 0 to 9.2

STRATEGIC METALS LTD.

FIGURE 9

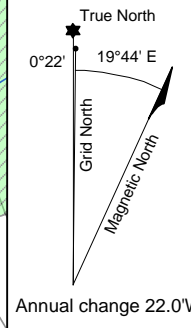
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ARSENIC SOIL & SILT
GEOCHEMISTRY
QUEEN PROPERTY**



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DATE: February 2018



FIRST NATION
SETTLMENT LAND

FIRST NATION
SETTLMENT LAND

additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

Table II –Soil Geochemical Thresholds

Element	Anomalous Thresholds			
	Weak	Moderate	Strong	Peak
Gold (ppb)	$0 \leq 20$	$\geq 20 \leq 50$	≥ 50	31
Copper (ppm)	$0 \leq 100$	$\geq 100 \leq 200$	≥ 200	424
Arsenic (ppm)	$0 \leq 50$	$\geq 50 \leq 100$	≥ 100	204

Soil geochemical sampling in 2017 returned encouraging results for copper. Sampling on a single 1750 m long contour line in the western part of the property returned strings of consecutive, moderately to strongly anomalous copper values, up to 250 ppm. Some of the elevated samples are situated upslope of a silt sample taken by the SYJV that returned 236 ppm copper. Grid soil sampling in the central and eastern parts of the property identified two northwesterly trending bands of anomalous copper-in-soil values, which parallel the reported glacial movement direction in the area. Peak values from these bands were 285 and 424 ppm, respectively. Moderately to strongly anomalous arsenic-in-soil values show weak correlation to elevated copper values, to a peak of 204 ppm. Gold values on the property are only weakly to moderately elevated.

There appears to be a correlation between strongly anomalous soil geochemical values and the elevation at which the samples were collected. Samples collected from higher elevations typically returned more elevated values, while those collected at lower elevations yielded only sporadic spot highs. This phenomenon is attributed to variances in the soil profiles, with thicker glacially derived cover material and deeper organic layers at lower elevations.

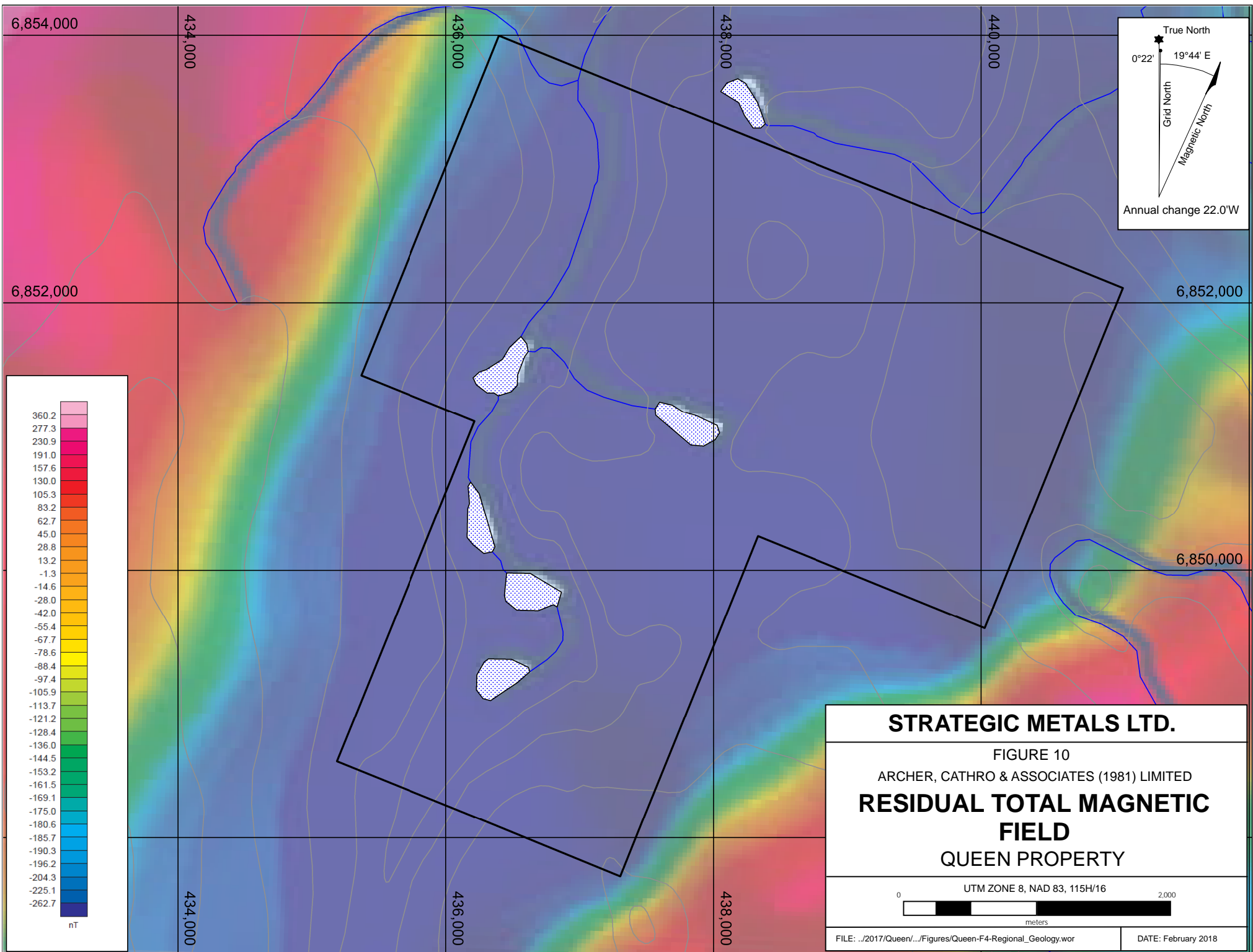
GEOPHYSICS

In 2015, the GSC conducted a regional Residual Total Magnetic Field (RTMF) compilation across Yukon and parts of Alaska. In 2017, the YGS reprocessed this magnetic data, producing RTMF, reduced-to-pole magnetic field (RTP), First Vertical Derivative RTP and Tilted Derivative RTP colour contour maps at 1:250,000 scale (Aurora Geosciences, 2017). Figure 10 illustrates RTMF in the vicinity of the property.

The Queen property lies within a strong northeasterly-trending magnetic low that encompasses a 15 km by 6 km area. The magnetic low follows the mapped extent of the Lewes River Group, which underlies the property. The western edge of the property shows an increase in magnetic response, correlating with the edge of the Long Lake Suite batholith.

DISCUSSION AND CONCLUSIONS

The Queen property is located in an underexplored part of the Stikinia Terrane, in south-central Yukon. Stikinia Terrane hosts a number of porphyry copper-gold deposits, including Capstone Mining Corp.'s Minto deposit and Copper North Mining Corp.'s Carmacks Copper deposit in



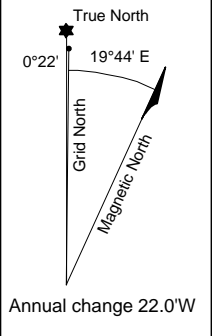
6,854,000

434,000

436,000

438,000

440,000



6,852,000

6,852,000

- 360.2
- 277.3
- 230.9
- 191.0
- 157.6
- 130.0
- 105.3
- 83.2
- 62.7
- 45.0
- 28.8
- 13.2
- 1.3
- 14.6
- 28.0
- 42.0
- 55.4
- 67.7
- 78.6
- 88.4
- 97.4
- 105.9
- 113.7
- 121.2
- 128.4
- 136.0
- 144.5
- 153.2
- 161.5
- 169.1
- 175.0
- 180.6
- 185.7
- 190.3
- 196.2
- 204.3
- 225.1
- 262.7

nT

434,000

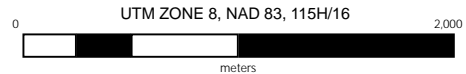
436,000

438,000

6,850,000

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FIGURE 10
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**RESIDUAL TOTAL MAGNETIC
 FIELD**
 QUEEN PROPERTY



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DATE: February 2018

Yukon; and Imperial Metals Corp.'s Red Chris Mine and Canterra Gold Inc.'s Kemess Mine in British Columbia. It also contains skarn hosted copper deposits, such as the former mines of the Whitehorse Copper Belt in Yukon.

In 2017, preliminary soil geochemical sampling on the Queen property identified encouraging copper-in-soil values that warrant follow up work. Additional work on the property should include but not be limited to: 1) more detailed surficial geology and/or geomorphological studies to determine glacial influence on local soil development; 2) grid soil sampling around known geochemical anomalies, including deep auger or power auger sampling in areas with deep glacial till or organic soil profiles; 3) hand pitting and prospecting in areas with strong geochemical response; and 4) systematic geological mapping.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



K. Willms, B.Sc.

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2017a Quaternary Glaciation Map

<http://www.geology.gov.yk.ca/quaternary.html>, accessed February, 2018.

2017b Yukon Digital Bedrock Geology.

http://www.geology.gov.yu.ca/update_yukon_bedrock_geology_map.html,
accessed: January, 2018.

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 2017 with a B.Sc in Earth and Environmental Sciences.
2. From 2015 to present, I have been actively engaged in mineral exploration in the Yukon Territory and British Columbia.
3. I have not personally participated in the fieldwork reported herein, but have interpreted all data resulting from this work.



K. Willms, B.Sc.

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
Queen 1-96 Mineral Claims
February 23, 2018

Labour

D. Eaton geologist 7 hours April 4 to December at \$120/hr	\$ 882.00
J. Morton geologist 5 hours April 4 to December at \$96/hr	504.00
A. Carne EIT 1 hour April 4 to December at \$92/hr	96.60
N. Petersen geologist 16 hours April 4 to December at \$64/hr	1,075.20
J. Kitchen field assistant 64 hours April 4 to December at \$55/hr + \$307 bonus	4,018.35
E. Driver field assistant 56 hours April 4 to December at \$51/hr + \$143 bonus	3,148.95
M. Stashick field assistant 56 hours April 4 to December at \$47/hr + \$140 bonus	2,910.60
J. Mariacher office 2 hours April 4 to December at \$90/hr	189.00
L. Corbett expedite 5 hours April 4 to December at \$81/hr	425.25
L. Smith office and expedite 13 hours April 4 to December at \$81/hr	1,105.65
S. Newman office 5 hours April 4 to December at \$68/hr	<u>357.00</u>
	14,712.60

Expenses (including management)

Field room and board 24 mandays at \$195/manday	5,288.80
Capital Helicopters 4.6 hours Bell 206 at \$1,075/hr plus fuel	6,298.94
ALS Chemex	10,050.93
Truck rental and fuel	624.96
Report preparation est.	<u>3,600.00</u>
	25,863.63

Total \$40,576.23

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample DescriptionsProperty: Queen

Sample Number: S053151 UTM: 439642 mE Nad83, Zone 8

Elevation: 782 m UTM: 6850899 mN

Comments: Brown, red weathered, augite phyric andesitic basalt with fine grained pyrite and possibly minor chalcopyrite. White carbonate material on one face of sample.

Sample Number: S053152 UTM: 439695 mE Nad83, Zone 8

Elevation: 750 m UTM: 6850939 mN

Comments: Augite/Feldspar phyric andesitic basalt with fine pyrite and minor Chalcopyrite. Similar lithology to S053152. However, augite and feldspar porphyrys are coarser grained. Sample is crosscut by minor epidote vienlettes. Slickensides with hematite/limonite stain present. Sample was taken in linear gully running rough 270 degrees.

Sample Number: S053153 UTM: 439870 mE Nad83, Zone 8

Elevation: 701 m UTM: 6850792 mN

Comments: Brown/Grey weathered, pale green Augite phyric andesitic basalt with medium grained pyrite and minor fine grained Chalcopyrite.

Sample Number: S053154 UTM: 439868 mE Nad83, Zone 8

Elevation: 827 m UTM: 6850487 mN

Comments: Red/Grey weathered augite/feldspar phyric andesitic basalt. Augite grains are 1-1.5cm in diameter and are euhedral to sub-euhedral. Sample contains minor fine pyrite and possibly chalcopyrite.

Sample Number: S053155 UTM: 439878 mE Nad83, Zone 8

Elevation: 833 m UTM: 6850485 mN

Comments: Red/Grey weathered augite/feldspar phyric andesitic basalt. Augite grains are 1-1.5cm in diameter and are euhedral to sub-euhedral. Fine grained blobs of pyrite and chalcopyrite.

Sample Number: S053156 UTM: 439605 mE Nad83, Zone 8

Elevation: 743 m UTM: 6851120 mN

Comments: Brown weathered, grey-green augite phyric andesitic basalt with minor/disseminated chalcopyrite/pyrite. Small outcrop (1mx1m). Rock is fresh and unaltered

Rock Sample Descriptions

Property: Queen

Sample Number: S053157 UTM: 439884 mE Nad83, Zone 8

Elevation: 856 m UTM: 6850876 mN

Comments: Sampled from Queen17-Pit1. Brown weathered, grey-green augite phyric andesitic basalt with disseminated pyrite and minor chalcopyrite. Sampled from 15cmX10cm boulder.

Sample Number: S053158 UTM: 439955 mE Nad83, Zone 8

Elevation: 661 m UTM: 6850759 mN

Comments: Sampled from Queen17-Pit3. Brown weathered, grey-green andesitic basalt with coarse grained augite and medium grained pyrite. Minor amounts of chalcopyrite. Sampled from 15cm long boulder.

Sample Number: S053159 UTM: 439897 mE Nad83, Zone 8

Elevation: 647 m UTM: 6851105 mN

Comments: Red/Brown weathered grey augite phyric andesitic basalt with moderately abundant pyrite.

Sample Number: S053160 UTM: 439254 mE Nad83, Zone 8

Elevation: 834 m UTM: 6851558 mN

Comments: Brown weathered, grey-green augite phyric andesitic basalt with minor pyrite and very rare chalcopyrite. Heavy epidote and calcite veining in outcrop. Large outcrop 15m long by 3m tall. No rep

Sample Number: S053161 UTM: 439613 mE Nad83, Zone 8

Elevation: 758 m UTM: 6852361 mN

Comments: Brown weathered, green augite phyric andesitic basalt with fine pyrite. Calcite veins present in outcrop (usually 5-10cm wide). Some augite grains have been weathered brown/red. Outcrop 10m X 2m

Sample Number: S053162 UTM: 439760 mE Nad83, Zone 8

Elevation: 868 m UTM: 6853119 mN

Comments: Red weathered, grey silica rich volcanics with abundant fine pyrite and pervasive limonite staining. Found at AnomalyStation5. Outcrop was 5m long X 3m tall.

Rock Sample DescriptionsProperty: Queen

Sample Number: S053163 UTM: 436909 mE Nad83, Zone 8

Elevation: 810 m UTM: 6852641 mN

Comments: Grey/Brown weathered, augite phyric andesitic basalt with minor pyrite and chalcopyrite. Fractures stained by limonite. 3m wide X 5m tall outcrop

Sample Number: S053164 UTM: 436916 mE Nad83, Zone 8

Elevation: 801 m UTM: 6852601 mN

Comments: Grey/White weathered dark grey andesitic basalt with minor/fine pyrite possibly chalco as well. White carbonate stain on fracture faces

Sample Number: S053165 UTM: 436745 mE Nad83, Zone 8

Elevation: 826 m UTM: 6852367 mN

Comments: Sampled from 30cm X 10cm X 15cm boulder. Red/Brown weathered, green/red/brown altered andesitic basalt with abundant limonite and dark grey quartz veinettes. Minor sulfides (likely pyrite) were also noted. Sampled near historical soil anomaly

Sample Number: S053166 UTM: 436714 mE Nad83, Zone 8

Elevation: 830 m UTM: 6852307 mN

Comments: Sampled from a 15cm X 10cm boulder. Red/Brown weathered, red volcanics (?) with pervasive oxidation and quartz veining. Veining almost gives brecciated appearance. Sampled from steep slope of red/brown soil

Sample Number: S053167 UTM: 438511 mE Nad83, Zone 8

Elevation: 936 m UTM: 6851723 mN

Comments: Grey Brown weathered, green volcanic breccia with minor pyrite. Small 1m X 1m outcrop.

Sample Number: S053168 UTM: 438337 mE Nad83, Zone 8

Elevation: 980 m UTM: 6851870 mN

Comments: Brown weathered, grey-green augite/feldspar phyric andesitic basalt with minor pyrite and lesser chalcopyrite. 1m X 2m tall outcrop.

Rock Sample DescriptionsProperty: Queen

Sample Number: S053169 UTM: 438198 mE Nad83, Zone 8

Elevation: 981 m UTM: 6852035 mN

Comments: Brown weathered, grey-green augite/epidote (?) phyric andesitic basalt with minor pyrite. (No photo)

Sample Number: S053170 UTM: 438228 mE Nad83, Zone 8

Elevation: 1036 m UTM: 6852297 mN

Comments: Brown/Grey/Red weathered green-grey augite phyric andesitic basalt with abundant fine pyrite and minor chalcopyrite. Large outcrop exposure, southwest of historical soil anomaly.

Sample Number: S053171 UTM: 438243 mE Nad83, Zone 8

Elevation: 1032 m UTM: 6852274 mN

Comments: Brown weathered, grey silica rich siltstone with coarse blobs of pyrite (possibly minor chalcopyrite). Hematite or ilmanite stained fractures. Bedding is consistent with JK-Queen17-05 (@ 270/44)

Sample Number: S053172 UTM: 438274 mE Nad83, Zone 8

Elevation: 1034 m UTM: 6852262 mN

Comments: Red/Brown weathered, grey silica rich siltstone with abundant disseminated pyrite. Bedding is similar orientation to S053171. Limonitic stain seen abundantly in talus slope below.

Sample Number: S053173 UTM: 438328 mE Nad83, Zone 8

Elevation: 1041 m UTM: 6852218 mN

Comments: Brown weathered, grey andesitic basalt (previously described) with disseminated pyrite

Sample Number: S053174 UTM: 438394 mE Nad83, Zone 8

Elevation: 1046 m UTM: 6852424 mN

Comments: Red/Brown weathered quartz vein with pervasive limonite and goethite. Vein hosted in andesitic basalt.

APPENDIX IV
CERTIFICATES OF ANALYSIS



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 Account: MTT

CERTIFICATE WH17152407

Project: QUEEN

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

The following have access to data associated with this certificate:

ANDREW CARNE	JOAN MARIACHER	JACK MORTON
--------------	----------------	-------------

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 split to 85% < 75 um

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Total # Pages: 2 (A - D)
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 Account: MTT

Project: QUEEN

CERTIFICATE OF ANALYSIS WH17152407

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
S053151		0.75	0.007	0.10	3.23	6.9	<0.02	<10	10	0.46	0.03	3.85	0.09	7.21	24.3	18
S053152		1.22	0.003	0.09	2.97	9.7	<0.02	<10	20	0.37	0.03	2.51	0.10	6.63	25.7	20
S053153		1.16	<0.001	0.08	3.56	12.5	<0.02	<10	20	0.38	0.03	3.01	0.09	9.38	22.0	28
S053154		1.21	0.001	0.10	1.86	1.6	<0.02	<10	40	0.18	0.03	2.20	0.04	10.95	18.6	46
S053155		0.76	<0.001	0.12	2.00	0.9	<0.02	<10	10	0.16	0.03	1.67	0.05	9.87	22.9	52
S053156		1.29	0.002	0.07	2.45	6.9	<0.02	<10	10	0.15	0.04	1.61	0.06	3.05	28.5	83
S053157		1.69	0.002	0.09	3.53	9.7	<0.02	<10	20	0.59	0.04	2.86	0.10	9.18	25.4	32
S053158		1.26	<0.001	0.08	3.36	3.7	<0.02	<10	20	0.30	0.01	2.74	0.09	7.56	20.3	23
S053159		0.85	0.007	0.20	2.17	24.8	<0.02	<10	30	0.22	0.06	1.66	0.32	9.09	25.0	14
S053160		1.03	<0.001	0.07	3.03	5.0	<0.02	<10	10	0.14	0.02	1.38	0.08	2.68	34.8	149
S053161		1.09	0.006	0.12	2.81	23.1	<0.02	<10	20	0.67	0.02	3.32	0.09	21.9	18.8	16
S053162		0.70	0.164	0.30	0.91	187.0	0.15	<10	20	0.41	0.04	8.90	0.05	7.19	21.3	86
S053163		0.94	<0.001	0.09	2.05	3.1	<0.02	<10	260	0.14	0.03	1.85	0.06	3.04	22.7	62
S053164		1.27	<0.001	0.13	2.03	10.5	<0.02	<10	100	0.12	0.04	2.03	0.09	4.07	28.1	68
S053165		1.28	<0.001	0.12	2.25	16.0	<0.02	<10	40	0.47	0.04	6.35	0.15	12.05	26.5	162
S053166		0.87	0.001	0.40	0.87	88.9	<0.02	<10	30	0.38	0.08	6.69	0.19	15.60	32.8	70
S053167		1.01	<0.001	0.06	2.71	2.2	<0.02	<10	30	0.13	0.03	2.02	0.07	2.92	33.1	149
S053168		1.27	0.001	0.06	2.48	3.3	<0.02	<10	110	0.13	0.03	1.37	0.08	2.45	29.4	107
S053169		1.24	<0.001	0.10	1.46	1.0	<0.02	<10	30	0.11	0.02	1.42	0.24	3.44	17.0	107
S053170		0.83	<0.001	0.10	3.28	2.2	<0.02	<10	20	0.32	0.04	2.36	0.10	7.86	27.2	68
S053171		0.92	0.001	0.10	2.20	4.4	<0.02	<10	20	0.25	0.06	1.43	0.09	11.05	18.3	40
S053172		1.06	<0.001	0.22	2.77	5.9	<0.02	<10	20	0.26	0.04	1.74	0.20	11.65	23.1	20
S053173		0.93	0.001	0.32	2.57	4.0	<0.02	<10	30	0.43	0.02	1.80	1.68	14.45	27.3	119
S053174		0.58	<0.001	0.03	0.78	5.8	<0.02	1000	20	0.10	0.03	1.03	0.11	2.11	5.4	27



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Project: QUEEN

CERTIFICATE OF ANALYSIS	WH17152407
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Sample Description	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
S053151	0.67	175.0	5.25	9.90	0.24	0.45	<0.01	0.017	0.04	2.9	8.2	1.62	924	0.58	0.03
S053152	0.79	203	4.81	7.93	0.20	0.30	0.03	0.015	0.04	2.6	8.5	1.59	831	0.45	0.03
S053153	0.41	140.5	5.38	10.35	0.27	0.39	<0.01	0.027	0.06	4.2	7.4	1.79	884	0.55	0.03
S053154	0.48	181.0	3.15	5.31	0.16	0.19	<0.01	0.012	0.18	5.5	5.3	1.04	580	0.32	0.06
S053155	0.54	243	3.29	4.93	0.15	0.18	<0.01	0.012	0.07	4.9	8.1	1.45	650	0.25	0.04
S053156	1.24	127.5	4.29	7.58	0.17	0.18	<0.01	0.009	0.05	1.5	13.1	2.60	713	0.14	0.03
S053157	2.13	201	5.29	12.00	0.27	0.47	0.01	0.023	0.04	4.3	7.0	1.42	799	0.37	0.04
S053158	0.60	184.0	3.80	9.35	0.16	0.26	<0.01	0.015	0.13	3.6	5.7	1.48	615	0.23	0.04
S053159	0.52	264	4.89	5.79	0.14	0.46	<0.01	0.016	0.24	3.8	5.8	1.01	413	5.96	0.07
S053160	1.09	149.5	4.55	6.23	0.15	0.12	<0.01	0.007	0.05	1.2	17.1	3.08	734	0.52	0.02
S053161	0.58	35.6	3.05	7.16	0.14	0.47	<0.01	0.019	0.11	11.7	7.9	1.63	680	0.20	0.04
S053162	0.76	34.3	4.53	2.40	0.12	0.07	0.02	0.034	0.05	3.4	4.1	4.46	1460	0.17	0.01
S053163	0.77	148.5	3.23	3.84	0.16	0.08	0.05	0.009	0.97	1.5	7.3	1.77	475	0.14	0.05
S053164	0.77	209	3.56	4.14	0.17	0.11	0.01	0.010	0.87	2.1	9.3	1.67	499	0.14	0.05
S053165	4.65	112.0	4.42	7.57	0.17	0.18	<0.01	0.031	0.11	5.7	12.0	2.11	845	0.47	0.03
S053166	0.42	266	5.55	3.65	0.12	0.07	0.01	0.038	0.09	7.9	4.6	3.58	966	0.54	0.05
S053167	1.08	122.0	3.67	5.99	0.16	0.13	<0.01	0.007	0.50	1.4	13.9	3.29	573	0.27	0.02
S053168	0.95	115.0	3.66	5.38	0.15	0.11	<0.01	0.007	0.63	1.2	14.8	2.45	522	0.35	0.04
S053169	0.33	122.5	2.06	3.01	0.12	0.13	<0.01	0.007	0.08	1.7	7.4	1.48	536	0.71	0.03
S053170	0.58	162.0	4.33	8.63	0.26	0.27	<0.01	0.015	0.07	3.5	14.3	1.94	654	0.26	0.05
S053171	0.49	155.0	3.59	5.91	0.19	0.20	<0.01	0.014	0.06	5.5	12.2	1.53	655	0.40	0.08
S053172	0.39	216	4.66	6.63	0.19	0.25	<0.01	0.011	0.06	5.6	16.2	1.60	762	1.50	0.06
S053173	0.49	131.5	4.72	7.69	0.20	0.25	0.01	0.010	0.09	7.5	18.5	1.81	926	0.54	0.03
S053174	0.17	5.4	1.03	1.31	0.11	0.07	<0.01	<0.005	0.06	0.8	1.0	0.20	394	0.17	0.09



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Project: QUEEN

CERTIFICATE OF ANALYSIS WH17152407

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
S053151		0.16	13.5	1920	5.9	1.4	<0.001	0.03	0.42	7.3	0.6	0.3	77.5	<0.01	0.01	0.5
S053152		0.08	13.9	1440	3.0	1.4	<0.001	0.05	0.53	7.7	0.7	0.2	50.9	<0.01	<0.01	0.5
S053153		0.08	17.1	1060	3.8	1.8	<0.001	0.05	0.28	11.3	0.7	0.3	28.6	<0.01	<0.01	1.2
S053154		0.08	20.6	900	2.7	5.1	<0.001	0.01	0.21	5.3	0.6	0.2	123.0	<0.01	<0.01	1.0
S053155		0.07	24.6	1060	2.4	2.3	<0.001	0.02	0.22	6.8	0.6	0.2	192.5	<0.01	<0.01	0.9
S053156		<0.05	48.4	790	3.1	3.3	<0.001	0.03	0.17	5.3	0.5	0.2	73.7	<0.01	0.03	0.3
S053157		0.10	17.4	1250	4.3	2.4	<0.001	0.05	0.40	10.0	0.7	0.4	42.6	<0.01	0.01	1.1
S053158		0.09	25.3	830	2.7	4.4	<0.001	0.06	0.19	8.8	0.7	0.2	50.9	<0.01	<0.01	1.0
S053159		0.13	21.0	740	27.9	7.5	0.050	2.25	0.47	9.2	5.1	0.3	68.8	<0.01	0.39	0.7
S053160		<0.05	105.0	1080	1.7	2.6	<0.001	0.02	0.15	4.2	0.5	<0.2	53.1	<0.01	0.02	0.2
S053161		0.13	15.7	1400	5.6	3.7	<0.001	0.03	0.26	8.8	0.7	0.3	296	<0.01	<0.01	1.9
S053162		<0.05	26.9	760	5.9	1.9	0.003	0.69	0.95	18.2	1.1	0.2	250	<0.01	0.06	0.3
S053163		<0.05	28.7	1060	2.3	19.9	<0.001	0.02	0.16	8.7	0.6	<0.2	104.5	<0.01	0.02	0.3
S053164		<0.05	30.6	1150	4.5	22.7	<0.001	0.16	0.20	8.2	0.7	<0.2	140.5	<0.01	0.01	0.4
S053165		<0.05	43.2	1060	4.5	9.2	<0.001	0.03	0.48	27.6	0.7	0.2	330	<0.01	0.02	0.9
S053166		<0.05	34.0	1280	7.2	3.5	<0.001	0.22	1.14	22.0	1.1	0.2	414	<0.01	0.04	1.1
S053167		0.05	122.0	1040	1.5	22.9	<0.001	0.02	0.09	5.8	0.5	0.2	132.0	<0.01	0.01	0.3
S053168		<0.05	85.7	920	3.0	25.4	<0.001	0.03	0.19	5.6	0.6	<0.2	84.3	<0.01	0.02	0.2
S053169		0.06	60.4	840	21.7	2.4	<0.001	0.03	0.14	4.5	0.5	<0.2	92.7	<0.01	0.01	0.3
S053170		0.16	48.6	1460	3.3	2.1	<0.001	0.11	0.31	5.7	0.9	0.2	70.8	<0.01	0.03	0.6
S053171		0.08	25.8	950	6.1	1.7	<0.001	0.01	0.24	6.5	0.5	0.2	93.0	<0.01	0.06	1.1
S053172		0.10	18.2	2100	3.9	1.6	0.001	0.06	0.29	6.6	0.7	0.2	119.5	<0.01	0.04	1.1
S053173		0.06	44.9	1510	148.5	2.5	<0.001	0.08	0.22	5.0	0.7	0.2	92.4	<0.01	0.02	1.1
S053174		0.06	12.2	370	8.3	1.3	<0.001	0.01	0.13	2.3	0.4	<0.2	22.1	<0.01	0.02	<0.2



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Project: QUEEN

CERTIFICATE OF ANALYSIS WH17152407

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
S053151		0.324	<0.02	0.19	197	0.15	7.23	81	12.7
S053152		0.240	<0.02	0.21	158	0.12	5.47	70	8.5
S053153		0.267	<0.02	0.46	232	0.12	7.06	73	12.2
S053154		0.153	<0.02	0.42	131	0.07	4.29	53	5.5
S053155		0.151	<0.02	0.46	103	0.11	4.56	59	5.1
S053156		0.161	0.02	0.15	122	0.09	3.38	54	5.3
S053157		0.287	<0.02	0.44	252	0.15	9.55	83	16.0
S053158		0.200	<0.02	0.32	165	0.17	4.90	57	8.1
S053159		0.272	0.20	0.32	157	0.11	7.08	44	12.3
S053160		0.148	<0.02	0.09	112	0.17	2.69	62	2.5
S053161		0.222	0.04	0.66	138	0.22	6.62	70	15.6
S053162		<0.005	0.05	0.16	134	0.09	7.40	35	2.4
S053163		0.156	0.05	0.12	73	0.08	1.78	42	1.4
S053164		0.183	0.11	0.17	101	0.12	2.26	45	1.8
S053165		0.038	0.05	0.32	153	0.05	7.68	48	4.1
S053166		<0.005	0.04	0.93	189	0.11	9.46	85	3.3
S053167		0.169	0.07	0.14	87	0.09	2.88	46	3.7
S053168		0.150	0.10	0.11	77	0.11	2.90	46	2.9
S053169		0.145	<0.02	0.20	55	0.09	2.78	101	3.3
S053170		0.227	<0.02	0.22	180	0.18	5.40	58	6.9
S053171		0.195	<0.02	0.37	111	0.25	4.51	58	5.1
S053172		0.231	<0.02	0.45	144	0.44	5.20	68	6.7
S053173		0.196	<0.02	0.39	163	0.16	6.34	339	8.3
S053174		0.086	<0.02	<0.05	40	0.05	2.25	28	2.2



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CERTIFICATE OF ANALYSIS WH17152407

CERTIFICATE COMMENTS									
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g). ME- MS41</p>								
	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table><tr><td>CRU- 31</td><td>CRU- QC</td><td>LOG- 21</td><td>PUL- 31</td></tr><tr><td>PUL- QC</td><td>SPL- 21</td><td>WEI- 21</td><td></td></tr></table>	CRU- 31	CRU- QC	LOG- 21	PUL- 31	PUL- QC	SPL- 21	WEI- 21	
CRU- 31	CRU- QC	LOG- 21	PUL- 31						
PUL- QC	SPL- 21	WEI- 21							
	<p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Au- ICP21</td><td>ME- MS41</td></tr></table>	Au- ICP21	ME- MS41						
Au- ICP21	ME- MS41								



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CERTIFICATE WH17152410

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This report is for 109 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24-JUL- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JOAN MARIACHER	JACK MORTON
--------------	----------------	-------------

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

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH17152410

Sample Description	Method	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR																
ZZ119001		0.38	0.04	1.18	6.3	<0.02	<10	80	0.17	0.05	0.40	0.04	8.62	8.5	33	0.56
ZZ119002		0.31	0.05	1.42	5.8	<0.02	<10	100	0.30	0.10	0.42	0.04	16.65	8.1	33	0.57
ZZ119003		0.37	0.04	1.19	6.9	<0.02	<10	60	0.27	0.06	0.34	0.03	14.15	6.1	28	0.53
ZZ119004		0.47	0.02	0.67	1.9	<0.02	<10	60	0.11	0.04	0.17	0.03	5.29	3.0	9	0.37
ZZ119005		0.28	0.05	1.15	8.1	<0.02	<10	80	0.27	0.06	0.48	0.06	15.55	6.8	20	0.83
ZZ119006		0.42	0.06	1.89	13.6	<0.02	<10	90	0.49	0.09	0.54	0.05	23.0	9.5	39	1.40
ZZ119007		0.46	0.03	1.55	7.8	<0.02	<10	120	0.32	0.10	0.32	0.06	16.45	6.8	28	1.39
ZZ119008		0.48	0.08	1.10	6.3	<0.02	<10	140	0.32	0.07	0.64	0.09	17.80	6.6	20	0.63
ZZ119009		0.54	0.05	1.13	7.2	<0.02	<10	120	0.27	0.07	0.81	0.10	17.80	7.9	23	0.68
ZZ119010		0.45	0.04	1.48	10.0	<0.02	<10	80	0.45	0.08	0.34	0.03	18.35	7.5	26	0.65
ZZ119011		0.39	0.04	1.46	10.2	<0.02	<10	150	0.26	0.06	0.39	0.05	11.30	7.0	24	0.97
ZZ119012		0.42	0.07	1.54	8.7	<0.02	<10	180	0.23	0.11	0.69	0.07	13.80	8.5	28	1.15
ZZ119013		0.35	0.10	1.60	38.9	<0.02	<10	40	0.67	0.03	0.83	0.07	9.77	28.9	125	1.49
ZZ119014		0.45	0.16	1.68	60.4	<0.02	<10	40	0.70	0.03	2.03	0.15	10.35	34.0	78	1.63
ZZ119015		0.39	0.09	0.97	30.2	<0.02	<10	50	0.30	0.04	1.21	0.14	13.35	17.5	40	0.70
ZZ119016		0.35	0.09	1.35	26.4	<0.02	<10	50	0.30	0.04	2.00	0.15	8.87	23.4	54	0.66
ZZ119017		0.44	0.20	1.80	90.9	<0.02	<10	40	0.57	0.04	1.86	0.19	9.55	32.7	92	1.50
ZZ119018		0.32	0.12	1.49	125.5	<0.02	<10	70	0.75	0.05	1.88	0.14	18.55	33.2	53	1.37
ZZ119019		0.35	0.09	1.69	32.6	<0.02	<10	90	0.51	0.07	0.98	0.09	20.5	18.7	52	1.04
ZZ119020		0.41	0.08	1.79	20.9	<0.02	<10	100	0.44	0.07	0.57	0.05	20.3	12.2	49	0.91
ZZ119021		0.43	0.04	1.28	18.0	<0.02	<10	110	0.40	0.06	0.75	0.04	21.2	11.8	44	0.91
ZZ119022		0.50	0.03	1.41	14.5	<0.02	<10	110	0.23	0.06	0.69	0.04	12.45	10.0	41	0.94
ZZ119023		0.43	0.07	1.67	20.2	<0.02	<10	110	0.37	0.07	0.87	0.05	20.0	13.5	53	1.31
ZZ119024		0.48	0.09	1.36	9.2	<0.02	<10	130	0.42	0.09	0.65	0.07	19.30	8.5	29	1.11
ZZ119025		0.37	0.05	2.15	13.2	<0.02	<10	200	0.66	0.12	0.70	0.03	27.1	11.9	43	1.28
ZZ119026		0.41	0.05	1.46	14.1	<0.02	<10	60	0.40	0.08	0.58	0.09	12.90	9.2	26	1.05
ZZ119027		0.32	0.22	1.36	10.3	<0.02	<10	100	0.49	0.08	1.65	0.12	21.2	12.3	32	1.74
ZZ119028		0.36	0.08	1.11	6.0	<0.02	<10	120	0.27	0.07	0.29	0.08	11.40	7.7	18	0.53
ZZ119029		0.15	0.05	0.21	1.2	<0.02	<10	30	<0.05	0.01	1.63	0.11	3.34	1.9	4	0.26
ZZ119030		0.32	0.09	1.20	29.7	<0.02	<10	60	0.39	0.08	1.16	0.13	15.00	17.5	44	0.79
ZZ119031		0.24	0.15	1.16	41.1	<0.02	<10	40	0.48	0.14	1.08	0.12	15.30	20.1	8	1.28
ZZ119032		0.46	0.10	1.07	7.6	<0.02	<10	80	0.31	0.08	0.90	0.11	16.25	7.9	25	0.74
ZZ119033		0.51	0.07	1.17	10.4	<0.02	<10	130	0.39	0.08	0.62	0.07	17.30	7.8	23	0.76
ZZ119034		0.52	0.04	1.60	21.5	<0.02	<10	140	0.29	0.10	0.31	0.13	8.89	8.7	23	1.50
ZZ119035		0.55	0.06	1.50	9.5	<0.02	<10	200	0.42	0.09	0.48	0.07	17.65	10.1	30	0.56
ZZ119036		0.52	0.03	1.40	8.8	<0.02	<10	130	0.33	0.08	0.38	0.06	12.50	7.9	29	0.71
ZZ119037		0.38	0.01	1.26	4.6	<0.02	<10	50	0.22	0.09	0.24	0.04	10.35	5.2	23	0.99
ZZ119038		0.29	0.01	0.29	0.4	<0.02	<10	10	0.06	0.02	0.15	0.03	2.82	1.1	3	0.24
ZZ119039		0.51	0.10	1.30	7.6	<0.02	<10	130	0.28	0.08	0.34	0.09	13.20	7.8	24	0.73
ZZ119040		0.26	0.05	0.41	2.9	<0.02	<10	50	0.09	0.03	0.49	0.05	6.63	2.8	6	0.21



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CERTIFICATE OF ANALYSIS WH17152410

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119001		22.0	1.89	3.47	0.09	<0.02	0.01	0.013	0.06	4.1	5.6	0.54	253	0.72	0.03	0.84
ZZ119002		21.1	1.96	4.24	0.10	0.09	<0.01	0.016	0.04	8.1	8.7	0.46	349	0.60	0.03	1.47
ZZ119003		22.4	1.78	3.38	0.11	0.05	0.01	0.012	0.05	6.1	5.5	0.34	177	0.60	0.03	1.06
ZZ119004		11.6	0.95	2.39	0.10	0.03	0.01	0.005	0.04	2.5	2.9	0.11	135	0.30	0.04	0.60
ZZ119005		26.3	1.74	3.51	0.11	0.08	0.01	0.016	0.06	6.6	6.1	0.32	282	0.45	0.05	1.02
ZZ119006		41.3	2.84	5.35	0.11	0.12	0.01	0.025	0.07	12.2	9.4	0.53	287	0.96	0.02	1.33
ZZ119007		14.6	2.10	4.80	0.11	0.04	0.01	0.020	0.06	7.8	9.8	0.40	208	0.65	0.02	1.48
ZZ119008		24.4	1.70	3.72	0.12	0.03	0.02	0.017	0.06	9.2	7.8	0.36	372	0.45	0.03	1.05
ZZ119009		33.2	1.82	3.62	0.12	0.06	0.02	0.016	0.06	8.4	8.2	0.48	325	0.49	0.04	1.08
ZZ119010		30.2	2.33	4.39	0.11	0.24	0.02	0.024	0.07	7.6	9.5	0.42	220	0.85	0.03	0.79
ZZ119011		23.6	2.05	4.24	0.10	0.02	0.01	0.016	0.05	5.4	7.0	0.38	219	0.72	0.02	1.06
ZZ119012		33.2	2.25	5.09	0.10	0.05	0.01	0.017	0.09	6.2	7.5	0.45	239	0.77	0.02	1.36
ZZ119013		138.0	4.59	4.19	0.14	0.04	0.02	0.026	0.04	4.9	9.3	1.43	976	0.43	0.03	0.23
ZZ119014		277	4.95	4.26	0.13	0.08	0.03	0.045	0.04	4.8	7.9	1.40	1200	0.82	0.01	0.23
ZZ119015		133.0	2.51	2.72	0.10	0.02	0.02	0.021	0.04	4.4	3.4	0.58	752	0.83	0.03	0.26
ZZ119016		144.0	3.22	3.59	0.12	0.03	0.01	0.026	0.04	3.7	5.6	1.08	798	0.40	0.02	0.23
ZZ119017		285	4.74	4.52	0.14	0.11	0.03	0.038	0.05	4.7	8.4	1.64	847	0.59	0.01	0.21
ZZ119018		233	6.42	3.83	0.14	0.06	0.03	0.034	0.07	10.5	5.2	1.27	1360	1.19	0.02	0.19
ZZ119019		90.5	3.35	4.84	0.12	0.09	0.03	0.025	0.06	9.3	8.0	0.86	529	0.44	0.03	0.96
ZZ119020		41.9	2.84	5.16	0.11	0.19	0.03	0.024	0.08	8.5	6.9	0.53	386	0.93	0.02	1.00
ZZ119021		54.6	2.51	3.88	0.14	0.13	0.03	0.017	0.06	11.8	5.6	0.62	478	0.51	0.04	0.70
ZZ119022		39.2	2.42	4.02	0.12	0.04	0.01	0.018	0.06	5.8	6.1	0.67	293	0.47	0.04	0.84
ZZ119023		53.4	3.11	4.95	0.15	0.15	0.04	0.024	0.08	10.6	7.2	0.89	375	0.58	0.04	0.97
ZZ119024		58.3	2.36	4.51	0.13	0.08	0.05	0.021	0.08	11.2	8.9	0.54	353	0.60	0.04	1.12
ZZ119025		43.2	3.31	6.41	0.13	0.16	0.03	0.036	0.11	12.6	13.4	0.77	515	0.82	0.03	1.02
ZZ119026		64.8	2.45	4.47	0.07	0.03	0.02	0.025	0.06	4.9	10.1	0.50	290	1.00	0.03	0.63
ZZ119027		101.5	1.85	3.90	0.09	0.04	0.05	0.030	0.07	9.6	10.3	0.64	707	0.73	0.03	0.60
ZZ119028		25.8	1.51	3.89	0.06	<0.02	0.01	0.014	0.04	5.5	4.9	0.25	383	0.49	0.02	0.62
ZZ119029		26.0	0.23	0.66	0.05	<0.02	0.03	<0.005	0.03	1.5	0.6	0.21	335	0.23	0.05	0.13
ZZ119030		97.3	3.21	3.44	0.09	0.07	0.03	0.027	0.05	7.0	6.8	0.87	605	0.62	0.02	0.43
ZZ119031		203	2.89	2.99	0.08	0.06	0.05	0.018	0.12	7.6	6.3	0.61	637	0.90	0.03	0.32
ZZ119032		33.3	1.87	3.55	0.09	0.07	0.03	0.019	0.09	8.4	8.9	0.59	314	0.93	0.03	0.92
ZZ119033		45.6	2.01	3.70	0.08	0.03	0.06	0.017	0.06	9.1	7.3	0.42	337	0.58	0.03	0.75
ZZ119034		24.8	2.34	5.27	0.06	0.04	0.02	0.021	0.04	4.5	9.5	0.37	325	0.85	0.02	0.88
ZZ119035		22.6	2.17	5.06	0.08	0.06	0.02	0.022	0.05	8.7	7.1	0.41	611	0.96	0.02	0.93
ZZ119036		22.8	2.12	4.42	0.07	0.02	0.02	0.020	0.06	5.8	8.0	0.44	224	0.75	0.02	0.71
ZZ119037		10.1	1.73	4.07	0.06	0.03	0.01	0.015	0.02	5.5	7.1	0.35	140	0.55	0.01	1.06
ZZ119038		12.6	0.38	1.17	0.05	<0.02	0.01	<0.005	0.03	1.4	0.8	0.04	22	0.13	0.03	0.18
ZZ119039		23.1	1.76	4.37	0.07	0.02	0.02	0.017	0.05	6.6	6.5	0.34	326	0.84	0.02	0.81
ZZ119040		13.7	0.70	1.63	0.06	<0.02	0.01	0.006	0.03	3.1	1.6	0.13	162	0.22	0.05	0.25



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119001		26.5	220	2.9	6.1	<0.001	<0.01	0.19	3.1	0.2	0.3	24.6	<0.01	0.01	0.6	0.075	
ZZ119002		16.7	180	5.4	4.8	<0.001	<0.01	0.22	4.2	0.2	0.5	26.7	<0.01	<0.01	2.3	0.094	
ZZ119003		15.0	310	3.8	5.9	<0.001	<0.01	0.20	3.7	0.2	0.3	22.9	<0.01	0.02	1.4	0.074	
ZZ119004		4.8	280	1.9	3.4	<0.001	<0.01	0.09	1.1	<0.2	0.2	14.8	<0.01	<0.01	0.5	0.046	
ZZ119005		12.7	330	4.0	8.9	<0.001	<0.01	0.25	3.8	0.4	0.3	26.1	<0.01	0.02	1.4	0.069	
ZZ119006		20.7	160	5.2	8.9	<0.001	<0.01	0.32	7.4	0.7	0.5	30.0	<0.01	0.01	2.3	0.099	
ZZ119007		15.0	380	5.5	10.1	<0.001	<0.01	0.25	3.8	0.5	0.4	24.5	<0.01	0.01	2.0	0.096	
ZZ119008		13.1	540	4.5	5.5	<0.001	<0.01	0.28	3.6	0.3	0.3	42.9	<0.01	0.01	1.3	0.063	
ZZ119009		16.8	440	4.3	7.1	<0.001	0.01	0.28	5.0	0.2	0.3	57.3	<0.01	0.01	1.3	0.067	
ZZ119010		15.1	120	6.5	7.4	<0.001	<0.01	0.48	5.8	0.2	0.4	34.3	<0.01	0.02	2.6	0.084	
ZZ119011		15.5	450	3.8	7.3	<0.001	<0.01	0.20	3.3	0.2	0.4	32.6	<0.01	0.01	1.0	0.075	
ZZ119012		16.9	350	4.9	12.4	<0.001	<0.01	0.23	4.0	0.3	0.5	42.5	<0.01	0.01	1.1	0.095	
ZZ119013		115.5	550	2.5	3.8	<0.001	0.01	0.33	15.8	0.7	0.2	68.3	<0.01	<0.01	0.6	0.021	
ZZ119014		70.9	560	2.6	4.5	<0.001	0.03	0.40	28.0	0.6	0.3	127.0	<0.01	0.02	0.5	0.026	
ZZ119015		30.6	450	1.7	3.0	<0.001	0.02	0.22	12.1	0.5	<0.2	71.6	<0.01	<0.01	0.3	0.035	
ZZ119016		39.8	630	2.0	3.2	<0.001	0.03	0.21	14.3	0.4	0.2	102.0	<0.01	0.01	0.3	0.026	
ZZ119017		100.5	750	4.1	4.5	<0.001	0.03	0.41	23.3	0.5	0.2	90.7	<0.01	<0.01	0.6	0.020	
ZZ119018		55.0	620	5.8	6.1	<0.001	0.04	0.41	28.5	1.1	0.2	91.9	<0.01	0.01	0.7	0.015	
ZZ119019		46.6	300	4.9	7.1	<0.001	0.01	0.28	11.0	0.4	0.4	57.1	<0.01	0.02	1.6	0.059	
ZZ119020		26.5	180	5.4	7.4	<0.001	<0.01	0.29	8.5	0.4	0.4	36.8	<0.01	0.01	2.1	0.076	
ZZ119021		41.0	570	3.7	4.7	<0.001	<0.01	0.24	7.0	0.7	0.4	51.1	<0.01	0.01	2.4	0.067	
ZZ119022		28.6	490	3.6	7.5	<0.001	<0.01	0.28	5.1	0.2	0.3	44.3	<0.01	0.02	1.0	0.067	
ZZ119023		42.5	620	5.0	8.4	<0.001	<0.01	0.30	8.0	0.4	0.5	59.4	<0.01	0.02	2.2	0.082	
ZZ119024		21.2	520	5.8	6.4	<0.001	<0.01	0.50	6.1	0.6	0.4	46.6	<0.01	0.01	2.1	0.077	
ZZ119025		28.6	410	8.9	9.7	<0.001	<0.01	0.60	8.2	0.5	0.6	56.1	<0.01	0.02	3.6	0.108	
ZZ119026		18.3	340	6.5	8.0	0.001	0.02	0.55	4.2	0.5	0.3	35.4	<0.01	0.03	0.6	0.040	
ZZ119027		25.2	990	5.5	12.6	0.001	0.09	0.34	5.3	0.9	0.3	127.0	<0.01	0.03	0.4	0.040	
ZZ119028		10.5	290	3.8	5.4	<0.001	<0.01	0.16	2.1	0.2	0.3	25.2	<0.01	0.02	0.3	0.051	
ZZ119029		8.5	520	0.4	1.4	0.001	0.08	0.22	0.4	0.7	<0.2	68.5	<0.01	0.01	<0.2	0.011	
ZZ119030		30.6	1030	4.5	5.1	0.001	0.03	0.63	7.2	0.8	0.2	80.4	<0.01	0.10	1.0	0.023	
ZZ119031		14.9	600	6.1	5.4	<0.001	0.04	1.43	6.7	0.9	<0.2	54.1	<0.01	0.11	0.6	0.026	
ZZ119032		18.0	670	4.7	6.2	0.002	0.04	0.46	4.2	1.3	0.3	72.0	<0.01	0.02	1.5	0.060	
ZZ119033		18.2	680	4.2	5.5	<0.001	0.01	0.46	4.8	0.5	0.3	45.8	<0.01	0.02	1.0	0.054	
ZZ119034		14.8	410	6.3	6.9	<0.001	<0.01	0.40	3.4	0.4	0.4	28.5	<0.01	0.01	1.0	0.054	
ZZ119035		18.6	310	5.4	4.8	<0.001	<0.01	0.33	5.0	0.6	0.4	38.6	<0.01	0.03	1.8	0.064	
ZZ119036		18.5	300	5.1	6.6	<0.001	<0.01	0.30	3.4	0.4	0.4	32.1	<0.01	0.02	0.7	0.065	
ZZ119037		11.2	90	4.7	3.7	<0.001	<0.01	0.23	2.5	0.3	0.4	19.3	<0.01	0.02	1.4	0.079	
ZZ119038		1.8	200	0.5	1.5	<0.001	0.01	<0.05	0.3	0.2	<0.2	12.9	<0.01	<0.01	<0.2	0.021	
ZZ119039		14.1	290	4.3	7.1	<0.001	<0.01	0.28	2.9	0.6	0.4	28.8	<0.01	0.01	0.7	0.064	
ZZ119040		4.6	430	1.2	1.6	0.001	0.02	0.15	1.0	1.0	<0.2	24.8	<0.01	0.01	<0.2	0.032	



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ICP21	
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119001		0.06	0.24	49	0.10	2.24	26	<0.5	<0.001
ZZ119002		0.08	0.45	53	0.13	3.34	32	3.3	<0.001
ZZ119003		0.06	0.34	47	0.12	3.15	23	2.3	<0.001
ZZ119004		0.04	0.15	27	0.07	1.17	15	1.1	<0.001
ZZ119005		0.07	0.36	43	0.10	4.08	30	2.8	<0.001
ZZ119006		0.10	0.69	72	0.11	8.91	34	4.4	0.003
ZZ119007		0.10	0.39	55	0.16	3.50	40	1.8	0.003
ZZ119008		0.07	0.51	42	0.12	5.85	41	1.2	<0.001
ZZ119009		0.08	0.75	43	0.12	5.49	36	2.2	<0.001
ZZ119010		0.08	0.47	52	0.14	4.46	31	8.2	<0.001
ZZ119011		0.07	0.32	55	0.10	2.83	30	1.2	<0.001
ZZ119012		0.08	0.33	61	0.12	3.05	43	2.4	<0.001
ZZ119013		0.07	0.33	86	<0.05	10.45	51	1.6	0.001
ZZ119014		0.10	0.35	99	<0.05	10.10	54	2.1	<0.001
ZZ119015		0.06	0.23	58	0.05	4.23	36	0.8	<0.001
ZZ119016		0.06	0.32	65	<0.05	4.22	72	1.0	0.002
ZZ119017		0.12	0.38	93	<0.05	8.79	63	2.6	0.001
ZZ119018		0.15	0.38	111	<0.05	18.40	59	1.6	0.002
ZZ119019		0.07	0.39	72	<0.05	9.43	42	3.4	<0.001
ZZ119020		0.07	0.38	72	0.07	5.85	31	6.3	<0.001
ZZ119021		0.07	0.64	56	0.06	11.15	35	5.6	0.002
ZZ119022		0.08	0.43	60	0.08	4.03	35	2.0	<0.001
ZZ119023		0.11	0.55	71	0.07	9.20	50	6.0	0.001
ZZ119024		0.09	0.53	52	0.14	9.58	45	3.7	0.001
ZZ119025		0.11	0.94	69	0.13	9.42	55	6.2	0.001
ZZ119026		0.08	0.41	55	0.14	4.62	32	1.1	<0.001
ZZ119027		0.06	1.07	42	0.10	10.95	34	1.2	0.002
ZZ119028		0.05	0.31	40	0.11	2.58	24	<0.5	0.001
ZZ119029		0.03	0.30	6	<0.05	1.08	6	0.7	<0.001
ZZ119030		0.06	0.39	58	0.32	6.91	53	1.9	0.017
ZZ119031		0.09	0.34	58	0.17	7.50	38	1.5	<0.001
ZZ119032		0.07	0.56	40	0.14	7.52	37	2.3	0.003
ZZ119033		0.07	0.45	46	0.14	8.06	37	0.8	<0.001
ZZ119034		0.19	0.29	59	0.17	2.23	35	1.8	<0.001
ZZ119035		0.07	0.58	55	0.15	6.19	41	2.1	<0.001
ZZ119036		0.07	0.38	53	0.13	3.16	30	0.8	<0.001
ZZ119037		0.07	0.27	50	0.13	2.32	25	1.2	<0.001
ZZ119038		<0.02	0.11	11	<0.05	0.57	7	<0.5	<0.001
ZZ119039		0.07	0.39	47	0.15	3.85	28	0.5	<0.001
ZZ119040		0.02	0.27	20	<0.05	2.18	12	<0.5	<0.001



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Sample Description	Method	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR																
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ119041		0.49	0.11	1.21	21.2	<0.02	<10	90	0.46	0.05	0.71	0.11	11.75	13.1	40	0.79
ZZ119042		0.53	0.38	1.33	204	<0.02	<10	100	0.54	0.07	0.64	0.23	16.35	21.6	57	1.09
ZZ119043		0.34	0.11	1.49	13.1	<0.02	<10	110	0.29	0.06	0.72	0.08	13.05	10.7	35	0.82
ZZ119044		0.30	0.08	0.45	2.5	<0.02	<10	40	0.11	0.04	0.37	0.07	6.47	4.3	7	1.06
ZZ119045		0.44	0.06	1.20	18.3	<0.02	<10	70	0.25	0.04	0.50	0.05	7.85	10.4	26	1.11
ZZ119046		0.48	0.17	1.79	16.7	<0.02	<10	160	0.58	0.09	0.58	0.07	28.7	15.7	34	1.23
ZZ119047		0.45	0.05	1.69	12.6	<0.02	<10	120	0.34	0.06	0.49	0.04	12.90	12.3	35	0.90
ZZ119048		0.41	0.06	1.76	7.9	<0.02	<10	130	0.25	0.10	0.33	0.06	12.40	9.4	29	1.11
ZZ119049		0.43	0.05	0.37	2.5	<0.02	<10	30	0.06	0.02	0.13	0.03	2.95	2.1	7	0.30
ZZ119050		0.49	0.09	1.25	7.4	<0.02	<10	90	0.27	0.08	0.39	0.07	11.60	6.9	21	0.82
ZZ119051		0.33	0.07	1.69	13.9	<0.02	<10	30	0.56	0.05	1.54	0.06	14.95	20.9	41	0.73
ZZ119052		0.32	0.10	2.00	18.3	<0.02	<10	50	0.82	0.05	1.63	0.08	20.4	26.5	50	1.34
ZZ119053		0.21	0.04	0.95	10.0	<0.02	<10	40	0.23	0.04	1.07	0.04	9.66	10.5	12	0.65
ZZ119054		0.28	0.09	1.12	12.1	<0.02	<10	50	0.47	0.03	1.40	0.08	10.90	17.5	59	1.24
ZZ119055		0.29	0.08	1.42	13.5	<0.02	<10	110	0.50	0.06	1.13	0.14	17.90	19.5	46	2.23
ZZ119056		0.18	0.02	0.99	6.3	<0.02	<10	70	0.28	0.04	0.63	0.03	15.95	6.6	27	0.47
ZZ119057		0.36	0.08	0.72	3.9	<0.02	<10	60	0.13	0.05	0.24	0.07	5.46	4.0	9	1.15
ZZ119058		0.30	0.12	1.63	7.9	<0.02	<10	150	0.39	0.10	0.70	0.07	15.75	9.0	28	0.72
ZZ119059		0.42	0.05	1.38	9.9	<0.02	<10	130	0.34	0.07	0.49	0.06	15.65	8.2	31	0.76
ZZ119060		0.23	0.04	0.55	2.5	<0.02	<10	50	0.13	0.03	0.63	0.10	6.86	3.5	10	0.57
ZZ119061		0.32	0.06	1.30	9.2	<0.02	<10	120	0.40	0.09	0.65	0.04	23.7	8.8	31	0.87
ZZ119062		0.52	0.07	1.82	21.5	<0.02	<10	130	0.43	0.06	0.71	0.09	12.55	22.0	56	0.88
ZZ119063		0.37	0.05	1.30	5.9	<0.02	<10	110	0.28	0.08	0.44	0.07	12.35	7.6	27	0.81
ZZ119064		0.55	0.09	1.39	6.5	<0.02	<10	150	0.31	0.10	0.50	0.05	16.35	8.6	25	0.61
ZZ119065		0.35	0.05	2.17	26.5	<0.02	<10	60	0.66	0.08	0.70	0.06	29.1	19.3	64	0.78
ZZ119066		0.30	0.04	1.21	4.1	<0.02	<10	110	0.26	0.07	0.36	0.08	15.45	8.5	25	0.68
ZZ119067		0.32	0.07	1.15	4.6	<0.02	<10	120	0.24	0.09	0.38	0.05	12.35	7.1	21	0.63
ZZ119068		0.50	0.03	1.05	8.5	<0.02	<10	90	0.21	0.06	0.30	0.04	11.65	6.5	20	0.49
ZZ119069		0.18	0.05	0.50	11.3	<0.02	<10	50	0.10	0.03	0.20	0.04	5.29	4.6	9	0.49
ZZ119070		0.34	0.07	1.71	13.7	<0.02	<10	60	0.45	0.07	0.28	0.05	20.4	10.7	36	1.10
ZZ119071		0.42	0.05	0.48	7.6	<0.02	<10	60	0.11	0.03	0.31	0.04	6.29	3.4	9	0.45
ZZ119072		0.32	0.12	1.29	7.5	<0.02	<10	130	0.41	0.08	0.63	0.09	14.85	9.3	28	0.74
ZZ119073		0.28	0.29	1.30	4.7	<0.02	<10	120	0.41	0.10	0.64	0.11	18.40	10.9	22	0.80
ZZ119074		0.18	0.06	1.40	5.9	<0.02	<10	120	0.30	0.09	0.24	0.11	13.35	8.8	21	0.60
ZZ119075		0.49	0.04	1.01	6.7	<0.02	<10	100	0.23	0.05	0.41	0.06	12.20	6.1	21	0.64
ZZ119076		0.29	0.04	1.02	5.5	<0.02	<10	60	0.27	0.07	0.32	0.05	11.30	7.0	22	0.54
ZZ119077		0.23	0.05	1.89	18.8	<0.02	<10	110	0.33	0.07	0.60	0.05	12.20	16.6	41	0.88
ZZ119078		0.34	0.10	1.39	9.7	<0.02	<10	100	0.38	0.08	0.75	0.06	17.60	10.4	33	0.81
ZZ119079		0.23	0.20	1.57	11.0	<0.02	<10	160	0.45	0.10	0.44	0.11	15.65	14.5	28	1.96
ZZ119080		0.44	0.08	1.11	18.7	<0.02	<10	80	0.31	0.05	0.83	0.04	11.95	9.1	25	0.84



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CERTIFICATE OF ANALYSIS WH17152410

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119041		71.0	2.82	3.69	0.08	0.04	0.06	0.023	0.03	6.3	5.4	0.56	541	0.81	0.03	0.45
ZZ119042		130.5	4.77	3.99	0.10	0.03	0.23	0.038	0.08	9.1	5.7	0.65	837	4.84	0.02	0.41
ZZ119043		51.5	2.47	4.59	0.08	0.05	0.01	0.019	0.04	6.9	6.9	0.69	418	0.67	0.02	0.71
ZZ119044		38.3	0.69	1.99	0.06	<0.02	0.01	0.006	0.04	3.1	1.5	0.09	187	0.25	0.03	0.28
ZZ119045		55.0	2.10	3.71	0.06	<0.02	0.01	0.016	0.04	3.8	4.8	0.53	346	0.68	0.02	0.38
ZZ119046		115.5	2.49	5.33	0.08	0.03	0.02	0.024	0.04	12.5	8.0	0.54	1210	1.16	0.02	0.68
ZZ119047		41.4	2.43	4.86	0.07	0.08	0.02	0.023	0.04	6.6	7.4	0.59	429	0.85	0.02	0.71
ZZ119048		18.0	2.36	5.41	0.08	0.10	0.01	0.021	0.06	6.2	10.4	0.43	231	0.95	0.02	1.06
ZZ119049		7.7	0.58	1.37	0.06	<0.02	0.01	<0.005	0.03	1.4	1.2	0.12	71	0.16	0.03	0.16
ZZ119050		31.1	1.93	4.43	0.07	0.04	0.02	0.025	0.07	6.1	8.2	0.37	283	2.51	0.02	0.89
ZZ119051		121.5	3.96	5.39	0.10	0.07	0.03	0.028	0.02	8.6	6.2	0.98	572	0.31	0.02	0.20
ZZ119052		155.0	4.83	6.19	0.10	0.08	0.05	0.035	0.03	11.0	7.7	1.21	884	0.57	0.01	0.24
ZZ119053		57.2	2.01	3.20	0.08	0.04	0.03	0.014	0.02	4.7	3.4	0.40	374	0.30	0.03	0.28
ZZ119054		104.5	2.94	3.21	0.09	0.08	0.03	0.026	0.04	6.0	4.9	1.11	585	0.29	0.03	0.14
ZZ119055		98.3	3.30	4.28	0.12	0.12	0.05	0.026	0.06	8.9	6.0	0.93	843	0.47	0.03	0.52
ZZ119056		34.7	1.38	3.08	0.08	0.07	0.01	0.013	0.04	7.0	4.3	0.39	156	0.51	0.04	0.56
ZZ119057		12.5	0.98	2.34	0.06	0.02	0.01	0.008	0.04	2.5	2.9	0.14	170	0.41	0.03	0.48
ZZ119058		40.6	2.32	5.40	0.07	0.06	0.03	0.023	0.07	8.2	11.7	0.49	422	0.90	0.02	1.21
ZZ119059		34.1	2.09	3.92	0.09	0.02	0.02	0.017	0.06	8.0	6.7	0.44	307	0.76	0.03	0.81
ZZ119060		19.5	0.75	1.95	0.07	0.02	0.06	0.008	0.04	3.2	2.4	0.24	215	0.20	0.04	0.39
ZZ119061		59.4	2.25	4.10	0.11	0.09	0.03	0.021	0.10	12.3	9.0	0.58	372	0.67	0.04	1.02
ZZ119062		88.1	3.40	5.20	0.09	0.03	0.02	0.020	0.05	6.1	6.6	1.30	752	1.37	0.03	0.43
ZZ119063		24.0	1.79	4.99	0.07	0.02	0.01	0.015	0.07	6.0	7.8	0.42	302	0.87	0.03	0.98
ZZ119064		35.0	1.93	4.53	0.07	0.02	0.02	0.018	0.06	8.1	8.7	0.42	450	0.79	0.04	1.05
ZZ119065		79.1	3.78	6.56	0.11	0.23	0.03	0.028	0.08	13.7	9.6	0.83	503	0.85	0.03	0.88
ZZ119066		13.9	1.80	3.96	0.08	0.08	0.01	0.016	0.11	6.4	6.5	0.36	625	0.74	0.03	0.89
ZZ119067		14.5	1.61	4.24	0.06	0.03	0.01	0.015	0.06	5.9	6.4	0.32	315	0.73	0.03	1.09
ZZ119068		18.1	1.61	3.32	0.08	0.12	0.02	0.015	0.08	5.2	5.5	0.30	187	0.79	0.03	0.82
ZZ119069		13.6	0.82	1.93	0.06	0.03	<0.01	0.005	0.04	2.0	2.1	0.13	209	0.23	0.04	0.33
ZZ119070		31.4	2.50	5.21	0.07	0.06	0.01	0.022	0.06	10.2	6.3	0.45	233	0.73	0.03	0.85
ZZ119071		16.7	0.76	1.88	0.06	<0.02	0.01	0.005	0.03	2.9	1.7	0.15	121	0.29	0.04	0.17
ZZ119072		47.1	2.03	4.30	0.08	0.04	0.02	0.017	0.08	7.7	6.6	0.43	630	0.87	0.04	0.82
ZZ119073		50.1	2.08	4.90	0.07	0.04	0.02	0.019	0.06	8.1	5.6	0.32	760	1.05	0.04	1.03
ZZ119074		22.8	1.99	4.83	0.07	0.04	0.01	0.017	0.05	5.3	6.5	0.26	788	0.85	0.03	1.00
ZZ119075		21.4	1.57	3.27	0.07	0.03	0.02	0.013	0.05	5.8	5.1	0.33	277	0.65	0.04	0.69
ZZ119076		22.5	1.58	3.62	0.07	0.05	0.01	0.015	0.08	5.7	5.8	0.32	206	0.51	0.04	1.01
ZZ119077		74.0	3.01	5.22	0.08	0.10	0.01	0.023	0.04	5.5	8.0	0.96	525	0.58	0.03	0.68
ZZ119078		42.4	2.27	4.74	0.09	0.08	0.02	0.023	0.07	8.6	10.2	0.69	332	0.59	0.04	1.05
ZZ119079		36.9	2.27	5.29	0.07	0.06	0.01	0.020	0.03	6.1	6.3	0.37	1220	1.29	0.04	1.02
ZZ119080		58.8	1.92	3.50	0.07	0.04	0.02	0.018	0.04	6.6	8.4	0.51	286	0.71	0.04	0.55



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119041		25.1	510	2.8	3.5	<0.001	0.01	0.96	8.6	0.7	0.2	39.9	<0.01	0.03	0.8	0.036	
ZZ119042		40.8	590	10.1	6.7	<0.001	0.05	1.33	14.2	1.5	0.2	45.0	<0.01	0.05	1.1	0.028	
ZZ119043		20.6	620	3.2	5.5	<0.001	0.01	0.28	6.1	0.8	0.3	49.2	<0.01	0.03	0.9	0.056	
ZZ119044		5.3	320	1.6	5.7	<0.001	0.01	0.10	1.1	0.2	<0.2	21.2	<0.01	0.01	<0.2	0.034	
ZZ119045		16.0	440	2.7	5.0	<0.001	<0.01	0.21	5.2	0.3	0.2	33.4	<0.01	0.03	0.5	0.054	
ZZ119046		19.9	430	5.4	6.5	<0.001	0.01	0.33	6.7	0.8	0.3	45.4	<0.01	0.04	1.1	0.053	
ZZ119047		24.1	400	4.4	6.5	<0.001	<0.01	0.24	5.6	0.3	0.3	40.1	<0.01	0.03	1.3	0.072	
ZZ119048		17.6	260	5.5	9.9	<0.001	<0.01	0.26	3.8	0.3	0.5	34.1	<0.01	0.02	1.5	0.082	
ZZ119049		4.3	220	0.9	2.3	<0.001	<0.01	0.06	0.5	0.2	<0.2	12.8	<0.01	0.01	<0.2	0.025	
ZZ119050		13.7	360	4.5	14.4	<0.001	0.01	0.34	3.8	0.2	0.3	33.5	<0.01	0.02	1.1	0.072	
ZZ119051		44.5	790	3.0	1.5	<0.001	0.04	0.31	9.7	0.8	0.2	70.3	<0.01	0.01	0.7	0.013	
ZZ119052		49.2	960	3.6	3.7	<0.001	0.03	0.49	13.4	1.0	0.3	68.4	<0.01	0.02	0.9	0.011	
ZZ119053		10.5	450	2.0	1.7	0.001	0.03	0.19	4.6	0.5	<0.2	54.3	<0.01	0.02	0.5	0.025	
ZZ119054		56.6	800	1.9	3.0	<0.001	0.03	0.42	8.6	0.8	<0.2	101.0	<0.01	0.01	0.4	0.010	
ZZ119055		43.8	770	4.1	7.1	<0.001	0.01	0.29	11.1	0.6	0.3	76.9	<0.01	0.01	1.5	0.037	
ZZ119056		17.9	270	2.6	3.8	<0.001	0.01	0.19	5.1	0.4	0.2	36.0	<0.01	0.01	1.2	0.051	
ZZ119057		5.6	150	2.4	4.2	<0.001	<0.01	0.13	1.4	<0.2	0.2	17.4	<0.01	0.02	0.4	0.039	
ZZ119058		17.6	320	6.1	11.0	<0.001	0.01	0.34	4.6	0.5	0.4	40.6	<0.01	0.03	1.6	0.071	
ZZ119059		20.3	450	4.2	8.7	<0.001	<0.01	0.26	4.7	0.4	0.3	37.8	<0.01	0.03	1.0	0.070	
ZZ119060		7.4	490	1.3	5.1	<0.001	0.02	0.11	1.6	0.3	<0.2	37.7	<0.01	0.01	0.2	0.034	
ZZ119061		22.7	620	4.3	8.6	<0.001	<0.01	0.30	6.6	0.5	0.4	47.6	<0.01	0.02	2.7	0.085	
ZZ119062		66.8	570	7.3	6.0	0.001	0.02	0.28	8.7	0.5	0.3	62.2	<0.01	0.02	0.9	0.057	
ZZ119063		16.1	400	4.4	11.5	<0.001	0.02	0.21	3.7	0.4	0.4	31.8	<0.01	0.01	1.1	0.073	
ZZ119064		15.3	580	4.7	5.9	<0.001	0.01	0.19	3.6	0.4	0.4	33.9	<0.01	0.03	1.6	0.069	
ZZ119065		40.1	380	5.7	5.9	<0.001	0.02	0.43	13.2	0.8	0.4	41.9	<0.01	0.02	2.7	0.085	
ZZ119066		13.7	760	4.0	14.5	<0.001	0.01	0.18	3.3	0.3	0.4	25.9	<0.01	0.01	1.5	0.081	
ZZ119067		10.7	340	4.7	7.8	<0.001	0.01	0.19	2.9	0.3	0.4	25.5	<0.01	0.02	1.2	0.071	
ZZ119068		13.3	350	3.3	8.1	<0.001	0.01	0.18	2.9	0.2	0.3	32.7	<0.01	0.02	1.0	0.060	
ZZ119069		6.1	240	1.3	3.6	<0.001	0.01	0.10	1.4	<0.2	<0.2	17.5	<0.01	<0.01	0.3	0.036	
ZZ119070		23.7	260	5.1	9.4	<0.001	0.02	0.25	5.2	0.3	0.4	26.0	<0.01	0.02	1.2	0.072	
ZZ119071		6.7	370	1.4	4.1	<0.001	0.02	0.11	0.6	<0.2	<0.2	21.5	<0.01	0.01	<0.2	0.027	
ZZ119072		21.4	360	4.1	10.7	<0.001	0.02	0.27	5.1	0.4	0.3	39.4	<0.01	0.02	1.1	0.070	
ZZ119073		15.4	360	5.3	9.7	<0.001	0.02	0.25	3.5	0.5	0.3	38.2	<0.01	0.03	1.1	0.070	
ZZ119074		13.1	400	4.8	6.9	<0.001	0.02	0.25	2.9	0.3	0.4	22.7	<0.01	0.02	1.0	0.060	
ZZ119075		15.1	480	3.1	8.1	<0.001	0.02	0.17	3.1	0.2	0.3	34.2	<0.01	0.01	0.8	0.056	
ZZ119076		13.2	250	3.7	7.3	<0.001	0.02	0.20	3.4	0.2	0.3	23.4	<0.01	0.01	1.2	0.070	
ZZ119077		37.8	370	3.9	3.9	<0.001	0.02	0.26	7.7	0.3	0.3	43.2	<0.01	0.03	1.3	0.068	
ZZ119078		19.8	730	3.9	7.6	<0.001	0.02	0.23	7.7	0.3	0.4	51.6	<0.01	0.02	1.9	0.078	
ZZ119079		18.8	260	5.7	3.6	<0.001	0.02	0.27	4.8	0.3	0.4	32.3	<0.01	0.02	1.7	0.064	
ZZ119080		17.6	290	3.1	4.6	<0.001	0.04	0.28	4.9	0.7	0.2	76.0	<0.01	0.02	0.8	0.038	



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ICP21	
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119041		0.05	0.46	66	0.13	7.67	39	1.2	0.001
ZZ119042		0.20	0.60	109	0.16	11.20	88	1.2	0.008
ZZ119043		0.06	0.53	59	0.08	5.70	40	1.7	<0.001
ZZ119044		0.03	0.19	20	0.07	2.02	14	<0.5	<0.001
ZZ119045		0.05	0.26	53	0.06	3.27	26	0.5	<0.001
ZZ119046		0.09	0.80	62	0.13	7.10	31	0.8	<0.001
ZZ119047		0.08	0.40	62	0.09	4.78	36	3.1	<0.001
ZZ119048		0.08	0.35	61	0.13	2.98	37	4.3	0.002
ZZ119049		0.02	0.11	17	<0.05	0.76	9	<0.5	<0.001
ZZ119050		0.08	0.39	51	0.17	3.62	34	1.7	<0.001
ZZ119051		0.03	0.45	74	0.05	12.25	45	1.8	<0.001
ZZ119052		0.04	0.45	87	0.07	15.50	57	2.1	0.001
ZZ119053		0.03	0.32	46	0.05	4.70	22	1.4	<0.001
ZZ119054		0.03	0.70	50	0.07	9.93	33	1.9	<0.001
ZZ119055		0.08	0.40	56	0.07	11.80	57	4.4	<0.001
ZZ119056		0.05	0.28	37	0.06	4.97	21	2.8	<0.001
ZZ119057		0.04	0.14	26	0.06	1.17	13	1.0	<0.001
ZZ119058		0.08	0.47	57	0.18	6.48	43	2.3	<0.001
ZZ119059		0.06	0.45	50	0.12	6.02	33	0.8	<0.001
ZZ119060		0.03	0.24	19	<0.05	2.36	17	0.5	<0.001
ZZ119061		0.08	0.50	48	0.16	11.75	39	3.8	0.001
ZZ119062		0.05	0.34	74	0.07	5.98	50	1.1	<0.001
ZZ119063		0.05	0.37	46	0.12	3.15	33	0.8	<0.001
ZZ119064		0.07	0.57	47	0.18	4.42	35	1.0	<0.001
ZZ119065		0.07	0.90	86	0.09	10.95	42	8.0	<0.001
ZZ119066		0.07	0.30	41	0.09	3.53	37	3.2	<0.001
ZZ119067		0.06	0.31	42	0.15	2.85	38	1.1	<0.001
ZZ119068		0.05	0.32	38	0.07	2.61	24	4.4	<0.001
ZZ119069		0.03	0.10	21	<0.05	0.98	14	1.1	<0.001
ZZ119070		0.08	0.41	61	0.08	5.90	32	2.4	<0.001
ZZ119071		0.03	0.15	20	<0.05	1.64	12	<0.5	<0.001
ZZ119072		0.05	0.42	50	0.10	6.51	32	1.2	0.001
ZZ119073		0.06	0.54	52	0.15	4.90	37	1.3	0.003
ZZ119074		0.07	0.27	49	0.13	2.06	33	1.6	0.002
ZZ119075		0.05	0.32	37	0.11	3.43	25	1.0	<0.001
ZZ119076		0.06	0.28	41	0.12	3.30	25	1.9	<0.001
ZZ119077		0.07	0.33	68	0.09	3.62	37	3.6	0.002
ZZ119078		0.08	0.46	55	0.19	6.43	39	2.5	0.002
ZZ119079		0.09	0.31	55	0.12	2.89	41	1.9	<0.001
ZZ119080		0.06	0.49	45	0.08	5.94	23	1.2	0.001



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CERTIFICATE OF ANALYSIS WH17152410

Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ119081		0.36	0.02	0.68	4.7	<0.02	<10	50	0.20	0.04	0.23	0.02	9.44	4.3	12	0.37
ZZ119082		0.46	0.05	1.68	11.6	<0.02	<10	50	0.38	0.06	0.29	0.03	13.65	8.1	30	0.93
ZZ119083		0.56	0.10	1.34	7.5	<0.02	<10	120	0.41	0.10	0.73	0.06	20.8	9.6	28	0.54
ZZ119084		0.31	0.10	0.90	13.1	<0.02	<10	90	0.39	0.06	1.07	0.11	10.60	9.1	29	0.98
ZZ119085		0.17	0.04	0.19	0.3	<0.02	<10	30	<0.05	0.01	0.19	0.04	3.16	1.1	2	0.10
ZZ119086		0.28	0.05	1.29	8.2	<0.02	<10	110	0.36	0.09	0.42	0.10	15.15	8.0	21	0.77
ZZ119087		0.58	0.10	1.34	11.3	<0.02	<10	120	0.53	0.11	2.41	0.11	21.0	9.3	26	0.88
ZZ119088		0.47	0.20	1.18	63.2	<0.02	<10	90	0.57	0.09	1.47	0.12	16.55	18.9	65	1.10
ZZ119089		0.38	0.09	1.65	26.9	<0.02	<10	50	0.82	0.05	2.14	0.07	11.95	32.9	117	3.23
ZZ119090		0.21	0.09	1.24	35.8	0.03	<10	50	0.75	0.03	2.60	0.11	9.51	38.4	111	1.62
ZZ119091		0.32	0.07	1.19	39.2	<0.02	<10	30	0.57	0.04	1.88	0.06	8.31	23.8	83	1.77
ZZ119092		0.21	0.07	1.28	30.3	<0.02	<10	40	0.59	0.04	1.72	0.10	9.29	25.8	83	1.40
ZZ119093		0.43	0.06	1.22	29.3	<0.02	<10	90	0.53	0.06	1.50	0.12	19.05	20.8	52	1.67
ZZ119094		0.21	0.39	1.26	128.0	<0.02	<10	60	0.74	0.08	2.16	0.09	17.70	34.5	60	0.57
ZZ119095		0.46	0.06	1.79	22.0	<0.02	<10	80	0.59	0.07	0.55	0.04	25.9	15.8	57	1.42
ZZ119096		0.23	0.05	0.55	16.5	<0.02	<10	70	0.20	0.03	0.55	0.11	7.05	6.6	13	1.44
ZZ119097		0.28	0.12	1.54	26.4	<0.02	<10	70	0.74	0.08	1.81	0.07	17.55	23.7	54	1.04
ZZ119098		0.55	0.05	1.71	11.7	<0.02	<10	110	0.50	0.11	0.41	0.06	17.80	10.0	31	0.95
ZZ119099		0.47	0.07	1.05	7.3	<0.02	<10	100	0.16	0.10	0.25	0.11	8.59	6.6	21	1.09
ZZ119100		0.60	0.04	1.65	27.7	<0.02	<10	80	0.46	0.09	0.45	0.05	19.90	15.1	47	1.37
ZZ119101		0.33	0.09	1.40	16.2	<0.02	<10	120	0.41	0.08	0.61	0.07	20.2	13.5	43	1.15
ZZ119102		0.51	0.03	1.39	8.9	<0.02	<10	90	0.43	0.08	0.45	0.02	20.9	8.3	33	0.82
ZZ119103		0.26	0.03	1.16	7.0	<0.02	<10	80	0.27	0.08	0.34	0.02	15.95	5.9	27	1.20
ZZ119104		0.50	0.06	1.19	8.1	<0.02	<10	90	0.33	0.06	0.53	0.04	14.05	7.0	27	0.74
ZZ119105		0.73	0.04	1.34	11.4	<0.02	<10	140	0.43	0.07	0.58	0.05	19.95	8.8	33	0.72
ZZ119106		0.41	0.05	0.60	3.6	<0.02	<10	70	0.12	0.03	0.22	0.04	5.62	3.5	13	0.41
ZZ119107		0.41	0.06	1.55	6.0	<0.02	<10	130	0.36	0.09	0.36	0.08	12.65	9.7	35	0.56
ZZ119108		0.56	0.08	1.41	6.4	<0.02	<10	120	0.29	0.11	0.36	0.05	15.85	8.9	34	0.64
ZZ119109		0.54	0.03	1.95	14.7	<0.02	<10	90	0.39	0.07	0.47	0.03	13.65	19.4	106	1.49



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CERTIFICATE OF ANALYSIS WH17152410

Sample Description	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119081	18.0	1.07	2.44	0.07	0.02	0.01	0.009	0.03	4.3	2.6	0.18	118	0.30	0.04	0.48
ZZ119082	38.3	2.23	5.12	0.07	0.05	0.02	0.018	0.05	6.8	7.3	0.40	216	0.75	0.03	0.93
ZZ119083	39.4	2.14	4.58	0.09	0.05	0.04	0.018	0.07	10.7	10.6	0.55	423	0.58	0.03	1.07
ZZ119084	76.1	2.00	3.03	0.08	0.03	0.03	0.015	0.06	5.7	5.4	0.47	414	0.58	0.04	0.54
ZZ119085	6.3	0.30	0.92	0.05	<0.02	0.01	<0.005	0.04	1.4	0.6	0.05	30	0.10	0.05	0.12
ZZ119086	25.6	2.05	4.49	0.08	0.02	0.03	0.021	0.08	7.3	9.7	0.40	302	0.75	0.03	0.78
ZZ119087	41.1	2.37	5.15	0.08	0.09	0.07	0.025	0.07	11.4	10.3	0.56	303	0.95	0.06	1.14
ZZ119088	68.4	3.57	3.80	0.09	0.08	0.06	0.023	0.07	8.6	7.2	0.88	646	0.48	0.03	0.75
ZZ119089	130.0	4.83	5.44	0.11	0.10	0.22	0.039	0.15	6.2	9.2	1.85	847	0.39	0.02	0.33
ZZ119090	118.5	4.47	4.03	0.09	0.07	0.17	0.034	0.07	4.5	6.7	1.90	1180	0.36	0.02	0.13
ZZ119091	85.9	3.81	4.13	0.09	0.06	0.11	0.031	0.08	3.8	7.3	1.52	575	0.29	0.03	0.17
ZZ119092	113.5	4.03	4.50	0.10	0.06	0.11	0.031	0.06	4.6	7.5	1.35	750	0.40	0.03	0.18
ZZ119093	83.4	3.33	4.10	0.11	0.12	0.07	0.024	0.07	9.2	5.7	0.93	756	0.65	0.04	0.56
ZZ119094	197.5	4.98	3.74	0.09	0.08	0.13	0.046	0.05	10.3	7.8	0.95	879	3.25	0.02	0.05
ZZ119095	49.4	2.91	5.70	0.11	0.30	0.03	0.028	0.07	10.8	6.1	0.63	392	0.69	0.03	0.84
ZZ119096	29.3	1.18	2.04	0.06	0.02	0.02	0.007	0.03	3.2	1.9	0.18	508	0.34	0.05	0.25
ZZ119097	114.5	3.93	5.43	0.09	0.11	0.08	0.035	0.05	9.0	10.8	1.00	716	0.46	0.03	0.56
ZZ119098	38.7	2.71	5.16	0.08	0.04	0.02	0.026	0.10	7.7	11.3	0.48	248	1.10	0.01	0.93
ZZ119099	16.9	1.77	4.22	0.07	<0.02	0.01	0.012	0.06	4.2	7.4	0.30	360	0.91	0.01	0.80
ZZ119100	55.3	2.84	4.86	0.09	0.15	0.01	0.023	0.06	9.1	7.6	0.64	413	0.86	0.01	0.62
ZZ119101	52.1	2.42	4.30	0.09	0.05	0.03	0.018	0.06	8.7	6.7	0.51	698	1.06	0.01	0.83
ZZ119102	21.1	2.11	4.29	0.09	0.12	0.02	0.019	0.07	9.4	8.8	0.45	316	0.60	0.01	0.87
ZZ119103	15.5	1.79	3.88	0.09	0.06	0.01	0.015	0.04	8.0	8.1	0.42	193	0.53	0.01	1.03
ZZ119104	22.4	1.82	3.73	0.09	0.02	0.02	0.015	0.06	7.9	5.9	0.43	262	0.64	0.02	0.78
ZZ119105	38.2	2.30	4.02	0.11	0.07	0.05	0.019	0.06	11.0	7.0	0.48	344	0.59	0.02	0.84
ZZ119106	13.3	0.96	2.05	0.07	0.02	0.02	0.007	0.04	2.5	2.3	0.16	124	0.27	0.02	0.38
ZZ119107	23.3	2.12	4.60	0.07	0.05	0.01	0.019	0.05	5.9	7.6	0.43	440	0.71	0.01	1.05
ZZ119108	24.4	2.11	4.40	0.09	0.03	0.01	0.017	0.07	7.9	8.1	0.45	263	0.91	<0.01	1.22
ZZ119109	49.4	3.21	5.20	0.10	0.09	0.02	0.020	0.05	6.1	9.2	1.25	407	0.57	0.01	0.47



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CERTIFICATE OF ANALYSIS WH17152410

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119081		9.0	200	1.8	2.3	<0.001	0.01	0.18	2.5	0.2	0.2	18.0	<0.01	<0.01	0.7	0.045	
ZZ119082		18.2	160	4.4	7.2	<0.001	0.02	0.32	5.1	0.3	0.3	21.8	<0.01	0.02	1.5	0.072	
ZZ119083		19.0	600	5.2	6.5	<0.001	0.02	0.39	5.5	0.5	0.3	46.4	<0.01	0.03	1.9	0.074	
ZZ119084		20.0	590	3.1	6.1	<0.001	0.05	0.29	5.7	0.6	0.2	64.0	<0.01	0.02	0.4	0.038	
ZZ119085		1.8	380	0.6	1.8	<0.001	0.02	<0.05	0.2	<0.2	<0.2	16.6	<0.01	<0.01	<0.2	0.018	
ZZ119086		14.5	530	6.3	7.4	<0.001	0.02	0.57	3.7	0.4	0.3	36.3	<0.01	0.02	0.8	0.060	
ZZ119087		22.7	390	8.3	7.5	<0.001	0.02	0.81	5.8	0.9	0.4	85.9	<0.01	0.04	2.1	0.065	
ZZ119088		52.7	680	5.3	6.8	<0.001	0.05	0.84	12.1	1.0	0.3	64.4	<0.01	0.05	1.5	0.042	
ZZ119089		63.9	630	3.6	14.9	<0.001	0.03	0.34	23.4	0.7	0.2	165.0	<0.01	0.02	1.0	0.025	
ZZ119090		79.9	770	2.8	5.9	<0.001	0.05	0.29	20.5	0.9	<0.2	138.0	<0.01	0.04	0.5	0.009	
ZZ119091		44.9	790	2.3	6.8	<0.001	0.04	0.36	15.4	0.6	<0.2	78.1	<0.01	0.03	0.5	0.016	
ZZ119092		48.5	890	2.5	4.9	0.001	0.05	0.33	17.0	0.7	<0.2	73.0	<0.01	0.02	0.4	0.016	
ZZ119093		49.8	750	4.5	7.2	<0.001	0.03	0.45	10.7	0.6	0.3	66.6	<0.01	0.02	1.7	0.041	
ZZ119094		54.4	620	5.4	4.3	<0.001	0.04	2.03	20.8	2.5	0.2	120.5	<0.01	0.08	1.0	<0.005	
ZZ119095		42.2	200	5.2	9.5	<0.001	0.02	0.34	9.3	0.6	0.4	35.9	<0.01	0.02	2.6	0.063	
ZZ119096		10.1	360	1.4	2.5	<0.001	0.03	0.18	2.5	0.3	<0.2	35.5	<0.01	0.02	0.3	0.027	
ZZ119097		35.2	660	5.0	5.4	<0.001	0.02	0.75	15.2	1.0	0.3	82.9	<0.01	0.03	1.8	0.028	
ZZ119098		22.0	300	7.9	13.6	<0.001	0.01	0.57	5.1	0.3	0.4	35.6	<0.01	0.04	1.8	0.086	
ZZ119099		12.1	450	4.7	11.3	<0.001	0.01	0.26	2.3	<0.2	0.3	21.3	<0.01	0.02	0.5	0.063	
ZZ119100		37.5	290	5.3	8.8	<0.001	<0.01	0.37	8.7	0.4	0.4	34.7	<0.01	0.03	2.3	0.077	
ZZ119101		34.0	620	4.8	7.7	<0.001	0.01	0.28	6.9	0.4	0.4	40.4	<0.01	0.01	1.5	0.071	
ZZ119102		18.2	510	4.4	9.5	<0.001	<0.01	0.23	5.3	0.4	0.4	30.4	<0.01	0.01	2.8	0.101	
ZZ119103		13.7	290	4.7	6.2	<0.001	0.01	0.19	3.6	0.2	0.4	24.7	<0.01	0.01	1.9	0.099	
ZZ119104		17.1	400	3.7	15.3	<0.001	0.01	0.22	3.6	0.5	0.3	37.7	<0.01	0.01	0.8	0.071	
ZZ119105		23.5	600	4.4	8.0	<0.001	0.01	0.31	6.4	0.4	0.4	44.0	<0.01	0.01	2.2	0.081	
ZZ119106		8.3	340	1.8	4.4	<0.001	0.01	0.11	1.8	<0.2	<0.2	18.4	<0.01	0.01	0.5	0.042	
ZZ119107		20.1	240	5.6	7.2	<0.001	0.01	0.25	3.6	0.2	0.4	28.1	<0.01	0.02	1.5	0.086	
ZZ119108		16.4	360	5.8	10.4	<0.001	0.01	0.25	3.5	0.3	0.4	26.5	<0.01	0.02	1.8	0.093	
ZZ119109		64.8	300	3.7	7.4	<0.001	0.01	0.24	7.9	0.3	0.3	37.5	<0.01	0.02	1.6	0.092	



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Sample Description	Method Analyte Units LOR	ME- MS41 TI ppm 0.02	ME- MS41 U ppm 0.05	ME- MS41 V ppm 1	ME- MS41 W ppm 0.05	ME- MS41 Y ppm 0.05	ME- MS41 Zn ppm 2	ME- MS41 Zr ppm 0.5	Au- ICP21 Au ppm 0.001
ZZ119081		0.03	0.22	28	0.06	3.02	15	0.9	<0.001
ZZ119082		0.07	0.42	58	0.11	3.69	27	2.0	0.001
ZZ119083		0.06	0.51	50	0.16	9.04	41	1.7	0.002
ZZ119084		0.04	0.38	40	0.08	5.86	32	1.2	0.001
ZZ119085		<0.02	0.07	9	<0.05	0.58	6	<0.5	<0.001
ZZ119086		0.08	0.38	45	0.15	5.48	43	0.5	<0.001
ZZ119087		0.10	0.57	52	0.18	9.76	41	3.3	0.002
ZZ119088		0.11	0.38	57	0.14	10.05	50	2.7	0.011
ZZ119089		0.09	0.21	82	<0.05	10.25	51	2.8	0.001
ZZ119090		0.10	0.19	72	0.06	8.95	48	1.4	0.010
ZZ119091		0.10	0.17	70	0.06	5.97	39	1.3	0.002
ZZ119092		0.09	0.23	75	0.06	8.97	42	1.3	0.001
ZZ119093		0.11	0.41	68	0.08	9.81	50	4.4	0.001
ZZ119094		0.16	0.28	105	0.14	17.20	41	1.6	0.021
ZZ119095		0.09	0.52	67	0.06	8.24	35	11.3	<0.001
ZZ119096		0.04	0.12	29	0.05	2.25	17	0.8	<0.001
ZZ119097		0.11	0.31	79	0.14	12.05	41	3.0	0.004
ZZ119098		0.11	0.48	61	0.17	4.42	40	1.6	0.002
ZZ119099		0.07	0.20	49	0.11	1.65	35	<0.5	<0.001
ZZ119100		0.14	0.45	64	0.10	5.57	36	5.6	0.013
ZZ119101		0.08	0.48	55	0.10	6.55	38	1.8	<0.001
ZZ119102		0.07	0.69	53	0.14	5.60	30	4.5	<0.001
ZZ119103		0.07	0.37	50	0.16	3.65	27	2.2	0.001
ZZ119104		0.07	0.52	45	0.11	5.88	23	0.8	<0.001
ZZ119105		0.07	0.55	55	0.10	8.82	36	3.4	0.002
ZZ119106		0.03	0.15	25	0.05	1.38	15	0.7	<0.001
ZZ119107		0.08	0.29	55	0.14	2.64	35	1.8	<0.001
ZZ119108		0.07	0.36	54	0.19	3.26	31	1.1	0.001
ZZ119109		0.06	0.29	74	0.08	3.01	35	3.7	<0.001



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Page: Appendix 1
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Account: MTT

Project: QUEEN

CERTIFICATE OF ANALYSIS WH17152410

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

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



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CERTIFICATE WH17152411

Project: QUEEN

This report is for 198 Soil samples submitted to our lab in Whitehorse, YT, Canada on 24-JUL- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JOAN MARIACHER	JACK MORTON
--------------	----------------	-------------

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

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

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH17152411

Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm	ME- MS41 Cs ppm
Sample Description	0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ119111	0.38	0.02	1.12	9.0	<0.02	<10	110	0.29	0.05	0.36	0.04	14.00	6.8	25	0.48
ZZ119112	0.34	0.05	1.52	8.4	<0.02	<10	90	0.35	0.07	0.37	0.04	13.50	7.8	41	0.78
ZZ119113	0.37	0.04	3.61	11.2	<0.02	<10	30	0.46	0.02	0.66	0.04	6.74	49.7	294	2.65
ZZ119114	0.33	0.06	1.15	7.3	<0.02	<10	70	0.37	0.07	0.92	0.08	13.40	8.8	31	0.65
ZZ119115	0.47	0.04	1.22	7.9	<0.02	<10	120	0.28	0.06	0.64	0.06	9.15	7.6	32	0.49
ZZ119116	0.50	0.07	1.30	32.8	<0.02	<10	200	0.66	0.08	1.68	0.10	21.8	12.7	36	0.83
ZZ119117	0.53	0.10	2.17	29.8	<0.02	<10	130	0.85	0.08	0.53	0.06	23.7	20.4	62	1.32
ZZ119118	0.50	0.08	1.51	17.8	<0.02	<10	150	0.54	0.08	0.57	0.06	17.85	12.3	45	1.33
ZZ119119	0.55	0.08	1.80	30.0	<0.02	<10	100	0.52	0.07	0.60	0.05	17.50	17.1	53	1.46
ZZ119120	0.54	0.05	1.24	20.6	<0.02	<10	100	0.38	0.05	0.66	0.03	16.00	10.6	38	0.75
ZZ119121	0.37	0.09	2.15	62.8	<0.02	<10	80	0.86	0.07	0.62	0.05	26.2	23.9	74	1.60
ZZ119122	0.49	0.13	1.48	12.1	<0.02	<10	120	0.50	0.08	0.46	0.06	15.50	11.1	43	0.89
ZZ119123	0.25	0.04	1.24	7.3	<0.02	<10	70	0.34	0.06	0.30	0.04	10.95	7.4	32	0.59
ZZ119124	0.32	0.04	1.70	12.0	<0.02	<10	60	0.42	0.07	0.76	0.11	17.10	18.0	95	1.34
ZZ119125	0.29	0.11	0.79	3.4	<0.02	<10	60	0.25	0.03	1.01	0.24	7.44	8.1	42	0.85
ZZ119126	0.26	0.18	1.79	5.7	<0.02	<10	150	0.49	0.09	0.32	0.10	12.75	17.3	47	0.62
ZZ119127	0.28	0.19	1.19	6.9	<0.02	<10	250	0.83	0.08	1.59	0.13	24.8	9.2	30	0.69
ZZ119128	0.25	0.06	0.65	2.9	<0.02	<10	80	0.15	0.05	0.61	0.06	9.03	4.5	15	0.38
ZZ119129	0.35	0.42	1.56	5.0	<0.02	<10	100	0.42	0.08	0.61	0.63	11.05	20.9	46	0.79
ZZ119130	0.33	0.14	1.29	7.2	<0.02	<10	50	0.27	0.06	0.35	0.16	9.61	11.3	50	1.72
ZZ119131	0.59	0.09	1.18	9.9	<0.02	<10	130	0.39	0.07	0.52	0.09	16.20	9.2	32	0.81
ZZ119132	0.25	0.11	1.26	11.0	<0.02	<10	110	0.41	0.06	0.59	0.11	15.30	11.9	41	0.84
ZZ119133	0.24	0.04	1.14	5.6	<0.02	<10	60	0.31	0.05	0.33	0.04	9.05	5.7	22	0.57
ZZ119134	0.38	0.16	1.46	10.5	<0.02	<10	80	0.47	0.07	0.47	0.06	16.25	8.2	28	0.86
ZZ119135	0.34	0.07	1.53	5.4	<0.02	<10	70	0.34	0.07	0.35	0.07	12.95	9.8	38	1.18
ZZ119136	0.27	0.07	1.36	8.3	<0.02	<10	100	0.31	0.07	0.88	0.11	10.10	9.4	38	0.57
ZZ119137	0.44	0.09	1.29	8.5	<0.02	<10	110	0.30	0.06	1.07	0.20	16.35	12.2	42	0.85
ZZ119138	0.46	0.04	1.65	9.0	<0.02	<10	150	0.53	0.07	0.72	0.06	15.85	11.0	45	0.82
ZZ119139	0.42	0.06	1.05	7.0	<0.02	<10	80	0.33	0.08	0.63	0.09	15.15	8.1	30	0.66
ZZ119140	0.25	0.01	0.93	7.0	<0.02	<10	50	0.16	0.05	0.33	0.05	7.62	6.3	26	0.62
ZZ119141	0.27	0.03	1.96	13.9	<0.02	<10	100	0.35	0.05	0.44	0.02	10.75	8.9	38	0.49
ZZ119142	0.30	0.18	0.51	1.7	<0.02	<10	40	0.08	0.04	0.13	0.07	5.94	3.3	5	0.27
ZZ119143	0.38	0.10	1.72	19.2	<0.02	<10	90	0.31	0.06	0.54	0.06	13.50	16.2	48	1.58
ZZ119144	0.44	0.09	1.26	12.3	<0.02	<10	80	0.26	0.07	0.46	0.19	10.00	12.2	23	1.08
ZZ119145	0.36	0.02	1.70	27.5	0.02	<10	100	0.43	0.07	0.56	0.05	15.60	16.7	46	1.46
ZZ119146	0.34	0.01	2.15	15.3	<0.02	<10	70	0.47	0.07	0.45	0.02	9.95	13.3	41	0.99
ZZ119147	0.40	0.03	1.56	9.9	<0.02	<10	150	0.35	0.08	0.57	0.04	10.75	7.6	30	0.51
ZZ119148	0.47	0.04	1.29	6.3	<0.02	<10	100	0.26	0.07	0.48	0.05	9.87	8.5	30	0.50
ZZ119149	0.47	0.05	1.55	8.8	<0.02	<10	120	0.41	0.10	0.38	0.06	18.65	8.8	28	0.79
ZZ119150	0.38	0.03	1.46	8.5	<0.02	<10	80	0.37	0.08	0.35	0.03	11.75	7.4	27	0.57



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CERTIFICATE OF ANALYSIS WH17152411

Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte Units LOR	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119111		25.3	1.99	3.67	<0.05	0.03	0.01	0.016	0.06	5.7	6.0	0.32	269	0.51	0.02	0.86
ZZ119112		22.0	2.43	4.39	0.05	0.07	0.02	0.018	0.15	5.4	8.3	0.47	226	0.79	0.02	1.10
ZZ119113		198.5	5.91	8.86	0.10	0.10	0.01	0.017	0.15	3.8	18.6	4.18	894	0.34	0.01	0.13
ZZ119114		34.1	1.98	3.66	0.05	0.06	0.04	0.016	0.05	6.0	8.3	0.62	289	0.68	0.03	0.80
ZZ119115		24.2	1.97	3.65	<0.05	0.04	0.02	0.017	0.09	3.9	8.1	0.57	415	0.55	0.03	0.76
ZZ119116		53.7	2.88	4.07	0.06	0.07	0.05	0.027	0.07	11.7	7.6	0.72	646	0.90	0.02	0.53
ZZ119117		81.2	4.55	6.31	0.06	0.23	0.03	0.032	0.09	10.4	10.9	0.84	614	1.07	0.02	0.58
ZZ119118		48.7	3.07	4.39	0.06	0.12	0.03	0.024	0.08	9.3	8.2	0.54	549	0.93	0.02	0.67
ZZ119119		47.6	3.68	5.11	0.07	0.15	0.03	0.029	0.15	6.8	8.2	0.69	577	0.96	0.02	0.61
ZZ119120		41.5	2.58	3.73	0.06	0.05	0.03	0.018	0.08	6.8	6.3	0.66	401	0.66	0.03	0.67
ZZ119121		118.0	4.89	5.88	0.08	0.25	0.04	0.035	0.10	11.5	8.5	0.97	688	1.28	0.02	0.32
ZZ119122		29.3	2.69	4.39	<0.05	0.05	0.02	0.020	0.15	5.6	7.9	0.44	462	0.83	0.02	0.79
ZZ119123		18.1	2.07	4.01	<0.05	0.11	0.01	0.016	0.05	5.0	8.0	0.45	164	0.79	0.02	0.97
ZZ119124		67.3	2.99	4.59	0.07	0.08	0.02	0.018	0.16	8.0	11.1	1.29	453	0.65	0.03	0.87
ZZ119125		85.9	1.47	2.41	<0.05	0.02	0.02	0.008	0.12	4.0	4.4	0.57	268	0.27	0.03	0.38
ZZ119126		38.4	2.43	5.53	<0.05	0.06	0.01	0.020	0.03	5.5	7.8	0.49	508	1.09	0.02	1.03
ZZ119127		94.7	2.22	3.82	0.06	0.04	0.10	0.020	0.04	13.2	8.0	0.49	527	0.86	0.02	0.84
ZZ119128		17.6	1.09	2.52	<0.05	0.02	0.03	0.010	0.04	4.1	4.0	0.28	207	0.26	0.03	0.49
ZZ119129		109.0	2.80	4.32	<0.05	0.05	0.02	0.015	0.08	4.5	7.0	0.74	780	0.82	0.03	0.63
ZZ119130		32.4	2.22	4.01	<0.05	0.03	0.02	0.015	0.07	4.0	6.6	0.47	437	0.67	0.02	0.63
ZZ119131		51.6	2.26	3.82	<0.05	0.02	0.05	0.018	0.05	9.0	6.9	0.46	520	0.65	0.03	0.65
ZZ119132		52.6	2.44	4.15	<0.05	0.03	0.05	0.020	0.05	7.2	7.2	0.62	511	0.56	0.03	0.65
ZZ119133		21.1	1.80	3.60	<0.05	0.02	0.02	0.014	0.04	4.1	7.9	0.33	170	0.59	0.03	0.67
ZZ119134		39.6	2.56	4.77	<0.05	0.10	0.06	0.025	0.08	8.4	9.9	0.46	215	0.98	0.02	0.85
ZZ119135		44.8	2.33	4.76	<0.05	0.02	0.03	0.018	0.09	5.7	6.5	0.42	494	0.58	0.03	0.74
ZZ119136		40.1	2.27	4.27	<0.05	0.07	0.02	0.019	0.07	4.4	9.3	0.58	298	0.67	0.02	0.79
ZZ119137		49.4	2.45	4.16	0.05	0.06	0.03	0.018	0.05	6.6	6.8	0.80	689	0.72	0.03	0.71
ZZ119138		48.0	2.58	5.00	<0.05	0.04	0.03	0.020	0.05	6.9	9.5	0.64	528	0.94	0.02	0.83
ZZ119139		32.3	2.05	3.53	0.05	0.04	0.05	0.017	0.05	7.0	7.4	0.50	299	0.64	0.02	0.75
ZZ119140		18.4	1.90	3.77	<0.05	0.03	0.03	0.014	0.06	3.6	6.2	0.44	200	0.54	0.02	0.73
ZZ119141		36.4	2.67	5.39	<0.05	0.19	0.03	0.024	0.05	4.9	7.6	0.52	182	0.55	0.04	0.94
ZZ119142		16.6	0.63	1.47	0.08	<0.02	0.01	0.006	0.02	2.4	1.4	0.08	247	0.33	0.03	0.27
ZZ119143		61.5	3.12	4.89	0.10	0.04	0.02	0.024	0.05	6.6	8.4	0.81	437	0.62	0.02	0.78
ZZ119144		43.0	2.22	4.27	0.09	0.02	0.01	0.016	0.06	4.5	6.5	0.41	601	0.89	0.02	0.75
ZZ119145		81.5	3.65	4.90	0.11	0.04	0.02	0.023	0.05	7.5	9.4	0.80	590	0.58	0.02	0.55
ZZ119146		50.5	3.59	6.39	0.08	0.18	0.02	0.027	0.05	4.7	10.8	0.93	350	0.60	0.02	0.61
ZZ119147		33.1	2.35	4.75	0.08	0.10	0.01	0.021	0.06	5.6	8.3	0.44	319	0.62	0.02	0.90
ZZ119148		23.2	2.11	4.17	0.09	0.04	0.01	0.017	0.08	4.9	7.9	0.51	325	0.83	0.02	0.89
ZZ119149		36.8	2.51	4.89	0.09	0.06	0.03	0.023	0.11	10.0	10.6	0.46	310	0.94	0.02	1.01
ZZ119150		23.5	2.29	4.52	0.08	0.11	0.01	0.020	0.07	5.7	10.3	0.43	184	1.10	0.01	0.79



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Project: QUEEN

CERTIFICATE OF ANALYSIS WH17152411

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119111		15.1	430	3.4	8.6	<0.001	<0.01	0.20	3.5	0.2	0.3	27.9	<0.01	0.01	1.1	0.066	
ZZ119112		19.0	220	3.8	18.5	<0.001	<0.01	0.22	4.3	0.3	0.4	24.2	<0.01	0.01	1.7	0.100	
ZZ119113		182.5	450	2.5	7.7	<0.001	<0.01	0.13	15.4	0.4	<0.2	25.0	<0.01	0.03	0.8	0.071	
ZZ119114		20.8	440	4.2	5.5	<0.001	<0.01	0.32	4.0	0.4	0.2	64.8	<0.01	0.01	1.0	0.059	
ZZ119115		17.1	270	3.8	9.9	<0.001	<0.01	0.24	3.8	0.4	0.3	46.5	<0.01	0.02	0.8	0.058	
ZZ119116		29.6	550	5.2	6.3	<0.001	0.01	0.35	7.8	0.8	0.3	61.2	<0.01	0.03	1.5	0.032	
ZZ119117		38.5	350	7.7	7.5	<0.001	<0.01	0.53	12.2	0.8	0.4	31.2	<0.01	0.04	2.6	0.098	
ZZ119118		25.3	440	5.6	11.0	<0.001	<0.01	0.37	8.1	0.7	0.3	36.5	<0.01	0.03	2.2	0.068	
ZZ119119		28.6	360	5.2	18.3	<0.001	<0.01	0.35	9.3	0.5	0.4	38.2	<0.01	0.02	1.8	0.079	
ZZ119120		23.8	520	3.4	8.6	<0.001	<0.01	0.26	7.0	0.4	0.3	40.2	<0.01	0.01	1.3	0.061	
ZZ119121		46.4	260	6.2	13.2	<0.001	<0.01	0.49	16.9	0.8	0.3	39.8	<0.01	0.03	2.7	0.077	
ZZ119122		20.1	580	5.3	13.7	<0.001	<0.01	0.30	5.8	0.2	0.3	27.8	<0.01	0.02	1.5	0.074	
ZZ119123		18.3	90	3.7	6.7	<0.001	<0.01	0.21	3.2	<0.2	0.4	20.2	<0.01	0.02	1.3	0.087	
ZZ119124		52.5	500	6.9	13.3	<0.001	<0.01	0.22	6.8	0.5	0.3	38.9	<0.01	0.02	1.5	0.093	
ZZ119125		28.4	550	4.2	10.9	<0.001	0.02	0.14	3.2	0.4	<0.2	37.4	<0.01	<0.01	0.3	0.045	
ZZ119126		26.1	250	8.1	4.0	<0.001	<0.01	0.22	3.5	<0.2	0.4	25.0	<0.01	0.01	1.2	0.074	
ZZ119127		29.2	670	5.9	5.0	0.001	0.05	0.40	5.0	1.1	0.3	76.5	<0.01	0.02	0.8	0.044	
ZZ119128		8.0	580	2.7	3.8	<0.001	0.02	0.13	1.9	0.4	0.2	33.4	<0.01	0.01	0.4	0.042	
ZZ119129		21.6	340	49.4	6.5	<0.001	0.01	0.25	6.5	0.3	0.2	35.2	<0.01	0.08	0.8	0.079	
ZZ119130		22.6	300	10.5	16.1	<0.001	<0.01	0.19	4.0	0.2	0.3	20.9	<0.01	0.01	0.7	0.074	
ZZ119131		22.3	560	5.3	5.4	<0.001	<0.01	0.39	5.6	0.3	0.3	41.0	<0.01	0.02	1.0	0.063	
ZZ119132		29.3	630	5.7	5.3	<0.001	<0.01	0.35	5.9	0.3	0.3	41.8	<0.01	0.02	1.0	0.053	
ZZ119133		13.0	310	4.0	6.8	<0.001	<0.01	0.25	2.5	0.2	0.2	23.1	<0.01	0.02	0.6	0.047	
ZZ119134		17.5	200	6.8	10.1	<0.001	<0.01	0.72	5.6	0.4	0.3	31.1	<0.01	0.03	1.5	0.054	
ZZ119135		22.1	260	4.6	13.0	<0.001	<0.01	0.27	4.9	0.3	0.3	21.3	<0.01	0.01	0.9	0.070	
ZZ119136		24.1	240	4.2	7.0	<0.001	0.01	0.29	4.2	0.4	0.3	38.8	<0.01	0.02	1.0	0.068	
ZZ119137		27.6	690	4.2	5.9	0.001	0.02	0.31	5.7	0.5	0.3	59.0	<0.01	0.02	1.0	0.069	
ZZ119138		30.1	260	5.6	6.2	<0.001	<0.01	0.31	5.5	0.4	0.3	40.0	<0.01	0.01	1.1	0.076	
ZZ119139		19.2	540	4.2	5.4	<0.001	<0.01	0.30	4.4	0.2	0.3	40.2	<0.01	0.01	1.2	0.063	
ZZ119140		14.7	260	3.9	11.1	<0.001	<0.01	0.27	2.9	<0.2	0.3	25.4	<0.01	0.02	0.7	0.062	
ZZ119141		23.9	140	4.1	5.1	<0.001	<0.01	0.23	5.4	<0.2	0.4	34.1	<0.01	0.01	1.3	0.073	
ZZ119142		4.1	470	1.7	1.9	<0.001	0.01	0.09	0.5	<0.2	<0.2	12.7	<0.01	0.01	<0.2	0.030	
ZZ119143		33.7	640	4.0	7.8	<0.001	0.01	0.28	8.3	<0.2	0.3	40.3	<0.01	0.01	1.1	0.071	
ZZ119144		12.8	390	4.0	8.8	<0.001	0.01	0.28	3.9	0.2	0.3	34.8	<0.01	0.02	0.6	0.065	
ZZ119145		28.1	460	4.2	8.1	<0.001	<0.01	0.33	9.0	0.4	0.3	38.5	<0.01	0.04	1.4	0.074	
ZZ119146		21.4	130	6.2	6.4	<0.001	<0.01	0.40	5.8	0.2	0.3	31.7	<0.01	0.04	1.5	0.059	
ZZ119147		16.8	130	5.8	5.8	<0.001	<0.01	0.36	4.4	0.2	0.3	37.4	<0.01	0.02	1.7	0.068	
ZZ119148		24.0	280	4.0	7.8	<0.001	<0.01	0.26	3.1	0.2	0.3	30.4	<0.01	0.01	1.2	0.082	
ZZ119149		17.2	260	6.9	9.4	<0.001	<0.01	0.52	5.1	0.3	0.4	26.4	<0.01	0.03	1.9	0.075	
ZZ119150		14.9	120	6.1	6.1	<0.001	<0.01	0.42	3.7	0.2	0.3	25.7	<0.01	0.01	1.5	0.066	



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ICP21	
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119111		0.06	0.34	49	0.09	3.07	27	1.2	0.001
ZZ119112		0.10	0.30	59	0.11	2.72	32	2.6	<0.001
ZZ119113		0.06	0.23	128	0.06	7.35	55	2.9	0.003
ZZ119114		0.07	0.32	48	0.12	4.33	31	2.1	<0.001
ZZ119115		0.06	0.34	46	0.09	2.35	28	1.5	<0.001
ZZ119116		0.11	0.73	58	0.07	11.60	51	2.7	0.001
ZZ119117		0.11	0.56	99	0.10	8.21	47	8.9	<0.001
ZZ119118		0.09	0.59	67	0.10	6.96	39	4.4	<0.001
ZZ119119		0.12	0.36	82	0.06	4.69	44	5.2	0.031
ZZ119120		0.09	0.43	58	0.07	4.57	33	1.9	<0.001
ZZ119121		0.16	0.58	107	0.06	9.78	43	9.5	0.002
ZZ119122		0.08	0.39	58	0.10	3.39	30	2.1	<0.001
ZZ119123		0.07	0.28	57	0.09	2.36	25	3.6	<0.001
ZZ119124		0.09	0.41	64	0.09	5.20	58	2.9	0.001
ZZ119125		0.04	0.33	33	<0.05	3.68	45	0.8	<0.001
ZZ119126		0.09	0.31	62	0.11	2.40	56	2.5	0.003
ZZ119127		0.06	1.51	46	0.14	13.75	34	1.4	0.014
ZZ119128		0.04	0.39	29	0.08	2.52	28	0.6	<0.001
ZZ119129		0.05	0.29	66	0.14	3.32	220	1.6	<0.001
ZZ119130		0.05	0.22	59	0.09	2.12	62	1.2	<0.001
ZZ119131		0.08	0.44	54	0.11	8.27	44	0.8	0.002
ZZ119132		0.07	0.37	56	0.10	5.97	51	1.2	0.001
ZZ119133		0.06	0.22	46	0.10	1.84	26	1.0	<0.001
ZZ119134		0.09	0.40	57	0.13	6.55	32	3.6	<0.001
ZZ119135		0.07	0.33	58	0.09	4.47	33	0.9	<0.001
ZZ119136		0.05	0.31	58	0.09	2.78	31	2.3	<0.001
ZZ119137		0.06	0.65	64	0.11	5.09	39	2.0	0.002
ZZ119138		0.07	0.60	67	0.12	5.00	42	1.4	<0.001
ZZ119139		0.07	0.38	49	0.11	4.91	38	1.4	0.001
ZZ119140		0.06	0.23	50	0.07	1.97	34	1.1	<0.001
ZZ119141		0.07	0.34	66	0.05	2.79	30	7.8	<0.001
ZZ119142		0.02	0.10	18	<0.05	0.97	14	<0.5	<0.001
ZZ119143		0.08	0.35	71	0.11	4.31	46	1.3	<0.001
ZZ119144		0.06	0.39	62	0.09	2.67	29	0.8	<0.001
ZZ119145		0.09	0.36	84	0.09	4.84	44	1.7	0.003
ZZ119146		0.12	0.33	87	0.11	2.96	38	5.6	<0.001
ZZ119147		0.07	0.29	58	0.13	2.82	26	3.3	<0.001
ZZ119148		0.06	0.39	54	0.35	2.58	32	1.4	<0.001
ZZ119149		0.09	0.46	53	0.19	6.58	39	2.2	<0.001
ZZ119150		0.08	0.34	54	0.11	2.98	29	3.8	<0.001



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Sample Description	Method	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR																
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ119151		0.40	0.02	1.85	11.5	<0.02	<10	110	0.52	0.10	0.44	0.04	17.95	9.5	32	0.60
ZZ119152		0.43	0.05	1.03	15.0	<0.02	<10	90	0.33	0.06	0.37	0.04	14.20	6.1	22	0.61
ZZ119153		0.60	0.09	1.35	11.7	<0.02	<10	120	0.44	0.08	0.80	0.06	20.6	11.1	30	0.87
ZZ119154		0.43	0.21	1.59	18.0	<0.02	<10	80	0.39	0.08	0.31	0.09	16.60	10.2	41	0.77
ZZ119155		0.32	0.23	2.30	21.3	<0.02	<10	110	0.59	0.10	0.40	0.41	16.40	18.7	86	2.23
ZZ119156		0.49	0.11	1.47	11.6	<0.02	<10	140	0.28	0.08	0.42	0.10	11.45	12.3	59	1.42
ZZ119157		0.41	0.05	1.51	10.0	<0.02	<10	110	0.30	0.10	0.37	0.09	15.90	9.2	35	0.65
ZZ119158		0.36	0.03	2.25	6.9	<0.02	<10	50	0.16	0.04	0.39	0.04	5.64	21.5	203	0.61
ZZ119159		0.46	0.08	2.18	6.3	<0.02	<10	50	0.19	0.06	0.53	0.07	5.35	19.9	100	0.76
ZZ119160		0.49	0.04	0.73	2.8	<0.02	<10	60	0.11	0.05	0.33	0.04	9.08	4.6	15	0.47
ZZ119161		0.48	0.04	1.88	6.1	<0.02	<10	60	0.29	0.07	0.42	0.04	10.15	14.9	86	1.01
ZZ119162		0.46	0.06	1.70	10.3	<0.02	<10	60	0.32	0.07	0.42	0.05	11.00	11.4	55	0.63
ZZ119163		0.46	0.02	2.10	6.3	<0.02	<10	100	0.22	0.05	0.56	0.03	10.20	18.6	88	0.59
ZZ119164		0.40	0.09	1.78	12.2	<0.02	<10	80	0.42	0.07	0.47	0.05	19.55	15.1	75	0.99
ZZ119165		0.54	0.10	1.67	8.6	<0.02	<10	100	0.28	0.07	0.43	0.04	12.60	11.5	62	1.06
ZZ119166		0.41	0.06	1.35	6.6	0.02	<10	130	0.20	0.08	0.31	0.10	9.16	6.7	27	0.99
ZZ119167		0.43	0.06	1.65	8.0	<0.02	<10	100	0.19	0.09	0.23	0.19	10.15	6.9	32	0.73
ZZ119168		0.51	0.03	1.49	10.5	<0.02	<10	90	0.24	0.07	0.38	0.06	12.25	10.8	41	0.61
ZZ119169		0.38	0.04	1.03	7.4	<0.02	<10	70	0.27	0.06	0.52	0.04	12.60	5.9	23	0.47
ZZ119170		0.34	0.07	1.18	7.0	<0.02	<10	110	0.28	0.08	0.53	0.07	15.50	7.6	28	0.71
ZZ119171		0.25	0.10	0.92	6.2	<0.02	<10	90	0.21	0.07	0.88	0.13	8.67	7.6	17	1.15
ZZ119172		0.39	0.05	1.76	13.9	<0.02	<10	90	0.24	0.08	0.45	0.05	10.95	11.8	42	0.74
ZZ119173		0.63	0.07	1.19	6.4	<0.02	<10	110	0.25	0.07	0.41	0.06	15.25	9.8	23	0.67
ZZ119174		0.47	0.08	0.80	3.2	<0.02	<10	100	0.18	0.06	0.33	0.11	10.05	4.8	15	0.68
ZZ119175		0.49	0.06	1.58	15.2	<0.02	<10	110	0.43	0.07	0.46	0.03	19.70	10.4	39	0.76
ZZ119176		0.45	0.14	0.69	2.4	<0.02	<10	50	0.11	0.04	0.23	0.03	5.97	3.4	11	0.48
ZZ119177		0.29	0.09	1.30	5.7	<0.02	<10	130	0.31	0.08	0.63	0.08	14.25	8.5	26	1.47
ZZ119178		0.45	0.14	1.72	14.4	<0.02	<10	80	0.57	0.07	0.62	0.08	17.40	17.1	46	4.08
ZZ119179		0.42	0.09	1.53	26.8	<0.02	<10	70	0.46	0.06	0.83	0.04	11.45	18.1	32	1.05
ZZ119180		0.41	0.12	1.29	8.1	<0.02	<10	90	0.33	0.07	0.75	0.11	10.85	8.6	28	0.92
ZZ119181		0.51	0.09	1.45	27.6	<0.02	<10	80	0.34	0.06	0.85	0.04	16.30	18.7	51	0.88
ZZ119182		0.39	0.06	1.40	7.0	<0.02	<10	140	0.20	0.09	0.27	0.07	11.45	8.4	26	1.38
ZZ119183		0.31	0.07	0.58	2.2	<0.02	<10	50	0.10	0.04	0.19	0.03	4.54	3.4	8	0.43
ZZ119184		0.30	0.06	1.04	8.9	<0.02	<10	80	0.35	0.05	0.81	0.04	17.00	10.7	30	0.97
ZZ119185		0.24	0.05	0.30	1.6	<0.02	<10	90	0.09	0.03	1.02	0.14	6.27	2.2	4	0.15
ZZ119186		0.50	0.12	1.22	9.0	<0.02	<10	100	0.26	0.07	0.56	0.07	12.40	11.1	56	0.85
ZZ119187		0.41	0.02	1.26	11.1	<0.02	<10	80	0.25	0.06	0.37	0.03	17.65	10.3	41	0.63
ZZ119188		0.46	0.05	1.23	5.9	<0.02	<10	70	0.22	0.07	0.39	0.05	10.55	8.2	33	0.41
ZZ119189		0.50	0.03	1.98	12.5	<0.02	<10	70	0.46	0.06	0.48	0.03	15.25	20.0	97	1.14
ZZ119190		0.40	0.16	1.48	11.0	<0.02	<10	70	0.43	0.07	0.51	0.08	16.60	12.6	45	0.84



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119151		26.9	2.80	5.52	0.08	0.12	0.02	0.026	0.09	7.6	12.7	0.52	245	1.02	0.01	1.21
ZZ119152		27.3	1.78	3.44	0.10	0.02	0.03	0.015	0.06	7.1	6.7	0.33	221	0.80	0.02	0.68
ZZ119153		48.5	2.44	4.35	0.11	0.08	0.04	0.023	0.08	10.3	9.3	0.61	491	0.55	0.03	0.93
ZZ119154		44.8	2.40	4.78	0.09	0.04	0.02	0.019	0.05	8.4	7.6	0.50	314	1.01	0.02	0.83
ZZ119155		72.2	3.49	6.75	0.09	0.07	0.02	0.024	0.09	8.4	8.9	0.71	725	0.95	0.01	0.86
ZZ119156		30.9	2.33	4.62	0.08	0.07	0.01	0.017	0.05	5.7	7.5	0.63	464	0.76	0.02	0.77
ZZ119157		23.5	2.24	5.33	0.09	0.02	0.01	0.019	0.04	8.1	8.9	0.50	429	0.80	0.01	1.19
ZZ119158		37.1	3.22	6.29	0.09	<0.02	<0.01	0.012	0.05	2.6	10.3	2.34	397	0.41	0.01	0.39
ZZ119159		29.3	3.47	6.38	0.09	<0.02	0.01	0.014	0.05	2.6	9.9	1.81	421	0.52	0.01	0.55
ZZ119160		11.9	1.16	2.59	0.08	0.02	0.01	0.011	0.07	4.1	5.0	0.27	221	0.48	0.03	0.65
ZZ119161		53.3	2.77	5.18	0.09	0.03	0.01	0.015	0.07	5.2	9.0	1.26	366	0.65	0.02	0.67
ZZ119162		28.5	2.86	5.03	0.09	0.14	0.02	0.022	0.10	5.2	8.3	0.76	258	0.73	0.01	0.72
ZZ119163		28.7	3.09	5.69	0.10	0.11	0.01	0.015	0.06	4.1	8.3	1.62	501	0.53	0.02	0.56
ZZ119164		55.6	2.95	5.09	0.10	0.13	0.02	0.020	0.08	8.7	6.8	0.82	366	0.75	0.02	0.78
ZZ119165		27.2	2.56	4.74	0.09	0.10	0.02	0.020	0.09	5.8	7.3	0.63	371	0.57	0.02	0.86
ZZ119166		17.9	2.35	4.81	0.08	0.05	0.01	0.018	0.05	4.4	8.6	0.41	243	0.81	0.01	0.97
ZZ119167		17.6	2.43	5.24	0.08	<0.02	0.02	0.018	0.05	5.3	9.1	0.42	184	0.70	0.01	0.82
ZZ119168		27.3	2.44	4.34	0.09	0.05	0.02	0.018	0.06	5.5	7.8	0.56	304	1.19	0.02	0.84
ZZ119169		27.3	1.95	3.42	0.09	0.10	0.02	0.018	0.09	6.5	6.0	0.36	204	0.65	0.02	0.76
ZZ119170		25.0	2.09	3.81	0.09	0.05	0.02	0.017	0.09	6.7	6.4	0.39	417	0.77	0.01	0.91
ZZ119171		80.3	1.47	3.08	0.10	0.02	0.01	0.013	0.06	3.7	7.5	0.31	400	0.45	0.03	0.57
ZZ119172		47.1	3.02	5.13	0.09	0.05	0.01	0.019	0.13	5.0	9.9	0.60	310	0.99	0.02	1.02
ZZ119173		45.2	1.98	3.91	0.09	0.05	0.01	0.015	0.08	6.5	5.7	0.32	743	0.77	0.02	0.79
ZZ119174		25.5	1.26	2.80	0.08	<0.02	0.02	0.012	0.06	5.1	4.0	0.20	422	0.41	0.02	0.68
ZZ119175		44.6	2.85	4.38	0.09	0.26	0.03	0.023	0.06	7.1	5.2	0.47	362	0.77	0.02	0.39
ZZ119176		11.4	1.16	2.64	0.08	0.03	0.01	0.008	0.06	2.7	3.3	0.16	112	0.40	0.02	0.61
ZZ119177		27.4	2.20	4.26	0.09	0.03	0.01	0.018	0.11	6.2	7.1	0.36	490	0.64	0.02	0.87
ZZ119178		74.9	3.37	5.33	0.11	0.05	0.01	0.025	0.08	8.2	6.7	0.62	700	0.87	0.01	0.57
ZZ119179		114.0	4.47	4.46	0.12	0.07	0.03	0.027	0.03	5.9	7.8	0.82	725	0.38	0.02	0.34
ZZ119180		52.6	2.13	4.21	0.11	0.03	0.02	0.018	0.04	4.7	6.6	0.47	301	0.66	0.03	0.72
ZZ119181		54.1	3.37	4.27	0.14	0.07	0.02	0.027	0.05	7.5	7.9	1.00	639	1.02	0.02	0.54
ZZ119182		18.2	2.20	5.62	0.10	0.04	0.01	0.017	0.04	5.8	8.0	0.36	430	0.68	0.01	1.13
ZZ119183		8.1	1.01	2.67	0.10	<0.02	0.01	0.006	0.04	2.1	2.3	0.12	96	0.28	0.02	0.20
ZZ119184		54.6	2.16	3.67	0.14	0.08	0.03	0.017	0.05	8.2	5.8	0.65	401	0.28	0.03	0.66
ZZ119185		24.4	0.38	0.95	0.10	0.03	0.01	0.005	0.03	2.9	0.7	0.24	273	0.14	0.04	0.20
ZZ119186		28.5	2.11	3.93	0.11	0.04	0.01	0.015	0.08	5.7	7.2	0.42	476	0.79	0.02	0.83
ZZ119187		31.3	2.24	3.65	0.13	0.11	0.01	0.017	0.07	6.3	5.6	0.47	305	0.62	0.02	0.64
ZZ119188		17.3	2.12	4.36	0.10	0.06	0.01	0.016	0.07	5.1	7.3	0.47	193	0.73	0.01	0.99
ZZ119189		48.2	3.36	5.77	0.12	0.16	0.01	0.019	0.12	6.8	7.9	1.14	430	0.62	0.01	0.52
ZZ119190		36.4	2.58	4.67	0.13	0.10	0.02	0.019	0.21	7.2	8.5	0.60	387	0.60	0.01	0.84



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119151		17.4	180	7.6	7.6	<0.001	<0.01	0.54	5.2	0.3	0.4	33.6	<0.01	0.02	2.0	0.076	
ZZ119152		15.0	380	4.2	5.3	<0.001	0.01	0.49	3.9	0.3	0.2	29.5	<0.01	0.01	1.0	0.053	
ZZ119153		23.0	700	5.5	7.0	0.001	0.02	0.43	6.1	0.5	0.3	58.0	<0.01	0.02	1.8	0.070	
ZZ119154		21.6	220	6.0	5.7	<0.001	0.01	0.43	5.5	0.2	0.4	24.0	<0.01	0.02	1.7	0.075	
ZZ119155		43.2	610	7.2	12.6	<0.001	0.01	0.45	7.4	0.3	0.4	28.7	<0.01	0.04	1.5	0.087	
ZZ119156		40.0	210	5.3	8.6	<0.001	<0.01	0.35	4.5	<0.2	0.3	28.5	<0.01	0.02	1.3	0.074	
ZZ119157		15.8	200	6.6	5.2	<0.001	<0.01	0.29	3.5	<0.2	0.5	26.4	<0.01	0.02	1.4	0.089	
ZZ119158		142.5	300	3.2	5.3	<0.001	<0.01	0.21	2.4	<0.2	0.2	21.1	<0.01	0.01	0.3	0.100	
ZZ119159		68.7	400	8.9	9.2	<0.001	<0.01	0.31	4.2	<0.2	0.2	23.8	<0.01	0.01	0.4	0.097	
ZZ119160		7.8	330	3.0	7.7	<0.001	<0.01	0.17	1.9	<0.2	0.2	22.5	<0.01	0.01	0.7	0.055	
ZZ119161		51.8	290	4.6	9.7	<0.001	<0.01	0.22	3.7	<0.2	0.3	25.2	<0.01	0.02	0.8	0.082	
ZZ119162		27.3	150	5.7	10.8	<0.001	<0.01	0.37	5.0	<0.2	0.4	29.6	<0.01	0.02	1.5	0.085	
ZZ119163		60.4	390	3.1	8.0	<0.001	<0.01	0.19	4.6	<0.2	0.3	32.7	<0.01	0.01	1.1	0.105	
ZZ119164		38.6	240	6.1	7.3	<0.001	0.01	0.32	8.1	0.2	0.3	32.2	<0.01	0.02	1.7	0.083	
ZZ119165		27.8	190	4.8	9.9	<0.001	<0.01	0.28	4.8	<0.2	0.4	32.8	<0.01	0.02	1.6	0.086	
ZZ119166		14.1	250	5.7	10.1	<0.001	<0.01	0.33	3.3	<0.2	0.3	29.7	<0.01	0.01	1.0	0.075	
ZZ119167		15.3	310	6.1	8.0	<0.001	<0.01	0.31	2.4	<0.2	0.4	22.2	<0.01	0.02	0.3	0.071	
ZZ119168		22.0	360	5.4	6.8	<0.001	<0.01	0.31	3.9	<0.2	0.3	32.5	<0.01	0.02	1.3	0.077	
ZZ119169		13.0	250	4.7	8.0	<0.001	<0.01	0.33	4.6	0.3	0.2	31.2	<0.01	0.01	1.4	0.063	
ZZ119170		14.7	280	5.1	12.5	<0.001	<0.01	0.26	4.0	0.3	0.3	34.2	<0.01	0.02	1.4	0.070	
ZZ119171		12.8	360	4.1	8.9	0.001	0.02	0.21	2.3	1.8	0.2	57.0	<0.01	0.02	0.3	0.047	
ZZ119172		19.5	280	4.3	11.3	<0.001	0.01	0.31	5.8	0.2	0.4	29.8	<0.01	0.03	1.2	0.087	
ZZ119173		14.6	390	4.3	8.5	<0.001	<0.01	0.24	3.3	0.2	0.3	29.9	<0.01	0.01	1.0	0.065	
ZZ119174		9.6	450	3.0	10.0	<0.001	<0.01	0.17	1.8	<0.2	0.2	27.3	<0.01	0.01	0.6	0.051	
ZZ119175		22.7	210	5.4	6.4	<0.001	<0.01	0.35	8.2	0.2	0.3	35.2	<0.01	0.02	2.6	0.068	
ZZ119176		6.3	320	2.3	4.7	<0.001	<0.01	0.14	1.3	<0.2	0.2	18.4	<0.01	0.01	0.5	0.050	
ZZ119177		14.3	600	5.0	22.0	<0.001	<0.01	0.25	3.6	0.2	0.3	41.5	<0.01	0.01	1.1	0.071	
ZZ119178		29.3	770	4.5	10.4	<0.001	0.01	0.29	10.0	0.3	0.3	38.7	<0.01	0.03	1.2	0.049	
ZZ119179		23.7	530	3.4	2.3	<0.001	0.02	0.59	14.3	1.0	0.2	36.8	<0.01	0.05	0.8	0.019	
ZZ119180		19.6	290	4.4	7.4	<0.001	0.02	0.28	4.0	0.8	0.3	40.5	<0.01	0.02	0.6	0.054	
ZZ119181		38.3	910	4.2	4.7	<0.001	0.02	0.32	9.9	0.4	0.2	65.7	<0.01	0.03	1.2	0.046	
ZZ119182		13.6	340	4.5	6.7	<0.001	<0.01	0.20	3.3	<0.2	0.5	23.2	<0.01	0.02	1.0	0.076	
ZZ119183		4.3	490	1.5	3.8	<0.001	0.01	0.08	0.6	0.2	0.2	15.7	<0.01	0.01	<0.2	0.038	
ZZ119184		22.9	690	3.4	6.1	0.001	0.02	0.24	5.5	0.6	0.3	51.3	<0.01	0.02	1.1	0.062	
ZZ119185		6.3	450	0.6	1.9	0.002	0.06	0.26	0.6	1.7	<0.2	65.6	<0.01	0.01	<0.2	0.019	
ZZ119186		19.2	290	4.0	8.3	<0.001	0.01	0.23	5.3	0.2	0.3	36.4	<0.01	0.02	0.9	0.066	
ZZ119187		21.0	330	4.3	7.7	<0.001	<0.01	0.24	5.9	0.4	0.3	29.3	<0.01	0.01	1.6	0.069	
ZZ119188		17.0	140	4.6	7.0	<0.001	<0.01	0.25	3.3	0.2	0.4	29.1	<0.01	0.02	1.0	0.075	
ZZ119189		53.6	380	3.7	10.4	<0.001	<0.01	0.24	7.9	0.3	0.3	28.1	<0.01	0.02	2.1	0.098	
ZZ119190		24.5	310	5.4	15.9	<0.001	0.01	0.33	6.3	0.3	0.3	27.6	<0.01	0.02	1.5	0.075	



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ICP21	
		Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119151		0.08	0.39	63	0.16	3.88	39	3.9	<0.001
ZZ119152		0.07	0.37	39	0.13	5.89	29	0.8	<0.001
ZZ119153		0.09	0.61	54	0.12	8.85	42	2.5	0.002
ZZ119154		0.10	0.47	65	0.12	4.88	45	1.5	<0.001
ZZ119155		0.11	0.52	88	0.15	5.69	97	2.4	0.003
ZZ119156		0.08	0.31	60	0.12	3.26	40	2.4	0.001
ZZ119157		0.08	0.39	64	0.17	2.97	39	0.6	0.001
ZZ119158		0.05	0.16	82	0.08	2.26	36	<0.5	<0.001
ZZ119159		0.06	0.19	97	0.11	2.14	47	0.5	<0.001
ZZ119160		0.05	0.30	30	0.08	2.23	21	0.8	<0.001
ZZ119161		0.08	0.30	66	0.12	2.60	38	0.9	<0.001
ZZ119162		0.09	0.36	68	0.12	2.93	36	4.5	<0.001
ZZ119163		0.06	0.29	79	0.09	2.86	36	3.5	<0.001
ZZ119164		0.08	0.42	69	0.10	7.04	37	4.4	<0.001
ZZ119165		0.09	0.32	63	0.10	2.66	35	3.2	0.001
ZZ119166		0.10	0.27	63	0.13	2.04	34	1.6	<0.001
ZZ119167		0.08	0.26	64	0.11	1.93	48	<0.5	<0.001
ZZ119168		0.06	0.33	60	0.11	3.01	34	2.0	<0.001
ZZ119169		0.06	0.35	45	0.11	4.34	28	3.2	<0.001
ZZ119170		0.07	0.59	49	0.11	3.38	37	1.8	<0.001
ZZ119171		0.04	0.49	36	0.08	2.27	37	0.8	<0.001
ZZ119172		0.09	0.30	79	0.15	2.28	38	1.9	<0.001
ZZ119173		0.07	0.32	48	0.10	3.39	28	1.6	<0.001
ZZ119174		0.04	0.25	31	0.08	2.41	27	0.5	<0.001
ZZ119175		0.08	0.48	62	0.08	3.94	32	9.6	<0.001
ZZ119176		0.03	0.16	32	0.07	1.23	17	1.0	<0.001
ZZ119177		0.08	0.32	50	0.11	2.79	34	1.1	<0.001
ZZ119178		0.08	0.31	69	0.07	5.61	43	1.7	0.001
ZZ119179		0.06	0.51	75	0.07	7.53	41	1.6	0.004
ZZ119180		0.06	0.52	51	0.10	3.26	34	1.1	<0.001
ZZ119181		0.08	0.35	68	0.07	6.13	46	2.3	0.003
ZZ119182		0.08	0.27	62	0.11	2.41	39	1.5	<0.001
ZZ119183		0.02	0.12	32	0.05	0.89	14	<0.5	<0.001
ZZ119184		0.07	0.33	55	0.07	8.12	32	2.7	0.001
ZZ119185		0.02	0.54	9	<0.05	2.07	16	1.1	<0.001
ZZ119186		0.05	0.26	48	0.11	2.93	38	1.4	<0.001
ZZ119187		0.06	0.37	53	0.07	3.42	28	4.3	<0.001
ZZ119188		0.07	0.27	57	0.12	2.15	28	2.2	<0.001
ZZ119189		0.08	0.34	77	0.08	3.05	35	5.5	0.001
ZZ119190		0.08	0.39	60	0.11	5.46	36	3.3	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ119191		0.30	0.05	1.06	3.5	<0.02	<10	70	0.17	0.07	0.26	0.04	10.35	7.2	31	0.47	
ZZ119192		0.40	0.07	1.55	8.8	<0.02	<10	80	0.37	0.07	0.38	0.03	18.85	11.0	50	0.73	
ZZ119193		0.42	0.02	1.46	19.5	<0.02	<10	60	0.30	0.06	0.32	0.04	13.00	12.0	53	0.62	
ZZ119194		0.33	0.03	0.99	5.0	<0.02	<10	70	0.18	0.07	0.26	0.05	9.44	7.5	25	0.37	
ZZ119195		0.30	0.06	0.80	3.7	<0.02	<10	40	0.18	0.05	0.18	0.04	6.51	5.1	19	0.50	
ZZ119196		0.32	0.04	1.11	4.1	<0.02	<10	60	0.15	0.08	0.30	0.05	7.21	9.6	39	0.69	
ZZ119197		0.42	0.03	0.98	8.8	<0.02	<10	70	0.28	0.05	0.36	0.04	12.10	7.2	29	0.53	
ZZ119198		0.42	0.08	1.37	6.6	<0.02	<10	120	0.32	0.07	0.55	0.05	13.50	14.0	48	0.94	
ZZ119199		0.43	0.06	2.31	2.0	<0.02	<10	40	0.20	0.04	0.65	0.05	5.18	27.4	148	1.53	
ZZ119200		0.36	0.08	1.25	20.4	<0.02	<10	110	0.39	0.07	0.99	0.11	13.90	12.6	48	1.08	
ZZ119201		0.39	0.12	1.48	8.5	0.03	<10	60	0.27	0.11	0.15	0.17	10.90	6.7	34	1.34	
ZZ119202		0.43	0.03	1.89	12.1	<0.02	<10	130	0.44	0.07	0.48	0.04	19.15	12.1	44	1.09	
ZZ119203		0.55	0.05	1.65	11.4	<0.02	<10	140	0.34	0.07	0.49	0.07	15.30	12.2	45	1.09	
ZZ119204		0.22	0.44	1.00	3.2	<0.02	<10	50	0.15	0.05	0.35	0.14	6.68	9.1	34	0.57	
ZZ119205		0.35	0.07	1.87	11.3	<0.02	<10	70	0.23	0.05	0.50	0.11	5.86	20.1	107	1.95	
ZZ119206		0.45	0.09	1.29	6.1	<0.02	<10	170	0.33	0.09	0.38	0.07	15.10	7.7	25	0.77	
ZZ119207		0.45	0.11	1.59	8.2	<0.02	<10	210	0.50	0.10	0.61	0.06	24.2	11.3	38	0.72	
ZZ119208		0.52	0.04	1.80	15.2	<0.02	<10	70	0.37	0.07	0.36	0.05	14.45	15.9	76	1.06	
ZZ119209		0.33	0.03	1.34	9.5	<0.02	<10	120	0.32	0.09	0.40	0.05	14.95	8.1	35	0.64	
ZZ119210		0.30	0.19	1.67	13.9	<0.02	<10	100	0.40	0.06	0.58	0.38	14.65	17.9	90	1.53	
ZZ119211		0.35	0.05	0.69	3.0	<0.02	<10	80	0.14	0.05	1.11	0.04	11.30	4.5	14	0.39	
ZZ119212		0.37	0.08	0.57	2.6	<0.02	<10	90	0.15	0.04	1.09	0.08	8.47	7.4	16	0.46	
ZZ119213		0.44	0.05	1.01	6.3	<0.02	<10	70	0.21	0.05	0.62	0.02	14.10	9.0	31	0.65	
ZZ119214		0.25	0.03	0.21	0.6	<0.02	<10	20	0.05	0.01	0.27	0.01	3.98	1.2	3	0.08	
ZZ119215		0.47	0.08	1.55	11.4	<0.02	<10	130	0.32	0.07	0.67	0.15	13.70	11.4	36	0.82	
ZZ119216		0.53	0.05	1.97	12.9	<0.02	<10	120	0.38	0.08	0.52	0.05	14.20	13.9	53	1.15	
ZZ119217		0.21	0.12	1.48	6.0	<0.02	<10	130	0.43	0.10	1.12	0.10	21.3	10.4	39	0.82	
ZZ119218		0.31	0.08	0.70	5.9	0.26	<10	70	0.19	0.05	0.51	0.04	11.75	5.7	19	0.56	
ZZ119219		0.41	0.07	0.88	3.9	<0.02	<10	90	0.18	0.05	0.35	0.10	8.63	5.3	20	0.67	
ZZ119220		0.36	0.09	1.44	6.5	<0.02	<10	180	0.31	0.08	0.45	0.12	11.75	9.1	41	0.93	
ZZ119221		0.42	0.22	3.64	2.1	<0.02	<10	20	0.27	0.01	0.98	0.06	2.49	42.6	348	1.17	
ZZ119222		0.38	0.15	1.30	9.0	<0.02	<10	110	0.37	0.09	1.16	0.18	21.4	11.2	45	0.83	
ZZ119223		0.35	0.03	1.34	8.1	<0.02	<10	110	0.27	0.09	0.40	0.04	16.15	7.1	28	0.64	
ZZ119224		0.34	0.05	1.27	6.0	<0.02	<10	70	0.21	0.09	0.27	0.10	10.15	6.3	25	0.68	
ZZ119225		0.48	0.11	1.39	12.2	<0.02	<10	140	0.48	0.10	0.88	0.07	24.1	9.2	34	0.73	
ZZ119226		0.55	0.06	1.31	8.6	<0.02	<10	120	0.31	0.08	0.39	0.03	14.10	6.2	26	0.58	
ZZ119227		0.29	0.05	1.49	11.1	<0.02	<10	130	0.33	0.09	0.46	0.06	14.00	9.6	35	0.73	
ZZ119228		0.50	0.16	1.31	9.8	<0.02	<10	190	0.42	0.09	0.99	0.17	21.8	10.2	32	0.84	
ZZ119229		0.57	0.07	1.43	13.1	<0.02	<10	120	0.33	0.07	4.64	0.10	19.30	13.5	57	0.97	
ZZ119230		0.61	0.05	1.73	10.5	<0.02	<10	140	0.26	0.10	0.45	0.07	14.85	14.0	50	0.84	



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119191		14.8	1.93	3.98	0.10	0.08	<0.01	0.014	0.08	4.8	8.1	0.44	226	0.79	0.01	0.80
ZZ119192		33.0	2.43	4.55	0.13	0.16	0.02	0.020	0.12	7.3	7.7	0.59	288	0.73	0.02	0.81
ZZ119193		31.2	2.77	4.27	0.11	0.09	0.02	0.018	0.07	5.7	6.8	0.66	280	0.87	0.01	0.74
ZZ119194		16.0	1.78	3.65	0.10	0.08	0.01	0.013	0.08	3.9	6.3	0.32	428	0.58	0.01	0.88
ZZ119195		16.5	1.31	2.71	0.10	0.03	0.01	0.010	0.07	3.1	4.2	0.24	122	0.31	0.02	0.58
ZZ119196		22.9	1.81	3.96	0.10	0.02	0.01	0.013	0.06	3.3	6.9	0.44	205	0.70	0.02	0.78
ZZ119197		22.6	1.77	3.16	0.11	0.05	0.02	0.013	0.06	6.2	5.0	0.37	266	0.46	0.02	0.65
ZZ119198		27.4	2.23	4.45	0.12	0.06	0.01	0.016	0.08	6.6	8.7	0.81	548	0.44	0.03	0.86
ZZ119199		110.0	3.43	6.39	0.17	0.08	0.01	0.008	0.25	2.4	11.4	2.19	499	0.28	0.02	0.45
ZZ119200		73.1	3.00	3.77	0.14	0.06	0.03	0.024	0.08	7.8	6.7	0.85	378	0.55	0.02	0.59
ZZ119201		25.3	2.75	6.22	0.09	0.05	0.01	0.018	0.06	5.6	7.6	0.40	152	1.05	0.01	1.12
ZZ119202		41.6	2.83	5.29	0.11	0.09	0.02	0.024	0.04	9.2	8.2	0.58	366	0.64	0.01	0.59
ZZ119203		40.2	2.75	5.29	0.11	0.04	0.03	0.022	0.04	7.2	7.8	0.68	345	0.64	0.02	0.74
ZZ119204		20.0	1.64	3.26	0.10	0.03	0.01	0.010	0.04	2.8	4.4	0.40	260	0.40	0.02	0.55
ZZ119205		61.1	3.38	5.01	0.11	0.03	0.01	0.011	0.11	2.8	10.7	1.58	441	0.82	0.01	0.44
ZZ119206		23.8	2.04	4.31	0.10	0.04	0.02	0.020	0.05	7.6	7.9	0.35	405	0.90	0.02	0.83
ZZ119207		74.4	2.35	4.83	0.13	0.05	0.04	0.024	0.05	14.5	12.1	0.55	475	0.65	0.02	0.96
ZZ119208		59.9	3.08	5.00	0.12	0.03	0.02	0.019	0.06	7.2	8.0	0.96	287	0.66	0.02	0.62
ZZ119209		26.7	2.25	4.47	0.11	0.07	0.02	0.019	0.06	7.8	8.3	0.48	225	0.69	0.01	0.88
ZZ119210		100.0	2.77	4.27	0.12	0.03	0.02	0.019	0.12	7.4	8.5	1.08	612	0.49	0.02	0.57
ZZ119211		20.6	1.18	2.69	0.11	0.03	0.03	0.010	0.04	5.3	4.5	0.32	222	0.36	0.03	0.54
ZZ119212		34.2	1.03	2.15	0.11	0.03	0.04	0.009	0.03	3.8	2.0	0.25	529	0.47	0.03	0.37
ZZ119213		37.3	1.97	3.41	0.13	0.04	0.03	0.014	0.05	6.9	5.3	0.54	302	0.46	0.02	0.64
ZZ119214		5.3	0.29	1.06	0.08	<0.02	0.01	<0.005	0.02	1.8	0.6	0.08	44	0.31	0.04	0.19
ZZ119215		44.4	2.52	4.82	0.09	0.05	0.04	0.029	0.04	7.0	8.7	0.54	420	0.60	0.02	0.61
ZZ119216		72.4	3.21	5.60	0.10	0.10	0.02	0.022	0.06	7.0	8.7	0.73	370	0.73	0.02	0.66
ZZ119217		71.8	2.29	4.37	0.10	0.05	0.12	0.023	0.07	12.0	13.6	0.65	494	0.57	0.03	0.83
ZZ119218		31.6	1.49	2.63	0.10	0.02	0.02	0.011	0.04	5.6	3.2	0.28	297	0.52	0.04	0.43
ZZ119219		20.9	1.44	2.95	0.08	<0.02	0.02	0.012	0.05	3.9	5.2	0.30	193	0.47	0.03	0.35
ZZ119220		28.2	2.33	4.30	0.08	0.03	0.03	0.019	0.06	5.6	9.3	0.49	456	0.71	0.02	0.60
ZZ119221		172.0	5.67	8.81	0.15	0.07	0.02	0.005	0.04	1.3	20.3	4.57	906	0.23	0.01	0.39
ZZ119222		66.8	2.55	4.06	0.13	0.07	0.05	0.021	0.10	10.6	9.7	0.77	468	1.25	0.03	0.84
ZZ119223		16.9	2.11	4.45	0.09	0.03	0.01	0.017	0.07	8.1	8.9	0.47	311	0.75	0.01	0.91
ZZ119224		16.7	2.11	4.19	0.08	0.02	0.01	0.016	0.10	5.2	8.3	0.36	179	0.78	0.02	0.82
ZZ119225		51.1	2.75	4.47	0.12	0.06	0.10	0.023	0.08	13.3	8.8	0.57	443	0.76	0.04	0.81
ZZ119226		22.2	2.09	3.95	0.08	<0.02	0.03	0.017	0.05	7.4	6.8	0.33	252	0.63	0.02	0.69
ZZ119227		22.3	2.53	4.66	0.08	0.03	0.04	0.023	0.09	6.9	8.5	0.46	388	0.79	0.02	0.77
ZZ119228		38.3	2.39	4.05	0.10	0.03	0.04	0.021	0.07	11.3	9.7	0.57	549	0.75	0.03	0.80
ZZ119229		69.3	2.83	4.11	0.12	0.09	0.09	0.020	0.07	10.2	8.1	1.09	469	0.56	0.04	0.63
ZZ119230		32.3	2.80	5.25	0.09	0.02	0.02	0.020	0.10	6.6	8.4	0.70	502	1.10	0.02	0.65



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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119191		15.3	110	4.2	11.7	<0.001	<0.01	0.22	2.6	0.2	0.4	18.6	<0.01	0.02	1.1	0.088	
ZZ119192		24.9	180	4.2	11.1	<0.001	<0.01	0.30	6.6	0.3	0.3	28.2	<0.01	0.02	1.9	0.085	
ZZ119193		29.0	200	4.0	7.4	<0.001	<0.01	0.49	5.1	0.2	0.3	23.7	<0.01	0.02	1.3	0.081	
ZZ119194		13.1	150	3.7	10.6	<0.001	<0.01	0.19	2.5	<0.2	0.3	20.3	<0.01	0.02	0.9	0.071	
ZZ119195		9.4	140	2.7	9.3	<0.001	<0.01	0.17	1.8	<0.2	0.2	13.8	<0.01	0.01	0.7	0.048	
ZZ119196		19.4	190	4.0	12.0	<0.001	0.01	0.22	2.3	<0.2	0.3	20.4	<0.01	0.02	0.6	0.062	
ZZ119197		16.6	320	3.0	6.5	<0.001	<0.01	0.22	3.8	0.2	0.2	22.6	<0.01	0.02	1.0	0.056	
ZZ119198		29.5	530	4.1	15.4	<0.001	0.01	0.22	4.6	0.5	0.3	32.5	<0.01	0.02	1.3	0.077	
ZZ119199		99.2	370	1.7	29.3	<0.001	0.01	0.09	5.0	0.3	0.2	22.6	<0.01	0.02	0.5	0.114	
ZZ119200		26.4	540	6.2	9.0	<0.001	0.02	0.40	9.8	0.5	0.3	66.4	<0.01	0.03	1.3	0.060	
ZZ119201		15.2	170	9.6	15.0	<0.001	<0.01	0.41	2.9	0.2	0.5	17.0	<0.01	0.04	1.1	0.086	
ZZ119202		25.1	300	5.9	7.2	<0.001	<0.01	0.29	6.8	0.4	0.4	38.1	<0.01	0.02	1.9	0.074	
ZZ119203		29.8	470	5.7	11.4	<0.001	<0.01	0.31	5.6	0.3	0.4	40.6	<0.01	0.02	1.3	0.073	
ZZ119204		14.9	210	8.0	6.1	<0.001	0.01	0.16	2.1	<0.2	0.2	21.2	<0.01	0.03	0.4	0.062	
ZZ119205		41.3	670	8.2	14.5	<0.001	0.01	0.19	4.0	<0.2	0.2	33.4	<0.01	0.04	0.5	0.092	
ZZ119206		14.2	370	5.4	6.6	<0.001	0.01	0.33	4.1	0.3	0.4	30.0	<0.01	0.02	1.5	0.056	
ZZ119207		27.3	400	6.4	5.5	<0.001	0.01	0.30	7.8	0.5	0.4	38.3	<0.01	0.03	2.1	0.065	
ZZ119208		41.3	250	10.2	14.6	<0.001	0.01	0.34	6.1	<0.2	0.3	30.9	<0.01	0.03	1.0	0.077	
ZZ119209		18.2	230	6.1	10.6	<0.001	<0.01	0.31	4.7	<0.2	0.4	34.7	<0.01	0.03	1.6	0.074	
ZZ119210		56.5	410	19.7	18.4	<0.001	0.01	0.22	7.0	0.3	0.2	35.6	<0.01	0.02	0.7	0.063	
ZZ119211		7.9	740	2.6	4.0	<0.001	0.05	0.15	2.0	0.4	0.2	48.3	<0.01	0.01	0.4	0.046	
ZZ119212		9.3	760	2.2	2.3	<0.001	0.06	0.18	1.8	0.4	<0.2	53.8	<0.01	0.01	0.2	0.033	
ZZ119213		17.4	670	3.8	6.3	<0.001	0.01	0.19	4.3	0.4	0.2	35.7	<0.01	0.01	1.0	0.060	
ZZ119214		2.1	480	1.1	0.9	<0.001	0.02	0.06	0.5	0.2	<0.2	17.3	<0.01	<0.01	<0.2	0.022	
ZZ119215		22.2	350	5.4	5.5	<0.001	0.01	0.42	5.6	0.2	0.3	42.7	<0.01	0.02	1.1	0.059	
ZZ119216		30.0	230	6.8	9.6	<0.001	<0.01	0.36	6.0	0.3	0.4	41.6	<0.01	0.02	1.4	0.086	
ZZ119217		22.5	790	7.8	8.2	0.001	0.05	0.43	6.5	0.9	0.3	56.2	<0.01	0.02	1.5	0.072	
ZZ119218		12.7	600	3.3	3.3	<0.001	0.02	0.23	2.7	0.3	0.2	31.4	<0.01	0.02	0.5	0.047	
ZZ119219		11.2	410	4.0	6.0	<0.001	0.01	0.27	2.1	0.2	0.2	25.9	<0.01	0.01	0.2	0.045	
ZZ119220		19.4	410	6.6	11.1	<0.001	0.01	0.44	4.2	0.2	0.3	35.8	<0.01	0.02	1.0	0.058	
ZZ119221		124.0	1100	1.9	3.8	<0.001	0.04	0.14	4.9	0.3	<0.2	46.8	<0.01	0.03	0.3	0.160	
ZZ119222		27.0	850	15.2	10.3	0.001	0.04	0.33	6.2	1.0	0.3	58.2	<0.01	0.02	1.6	0.076	
ZZ119223		13.7	440	5.6	10.1	<0.001	<0.01	0.26	3.4	0.3	0.4	28.6	<0.01	0.02	1.6	0.092	
ZZ119224		12.8	160	5.4	13.7	<0.001	0.01	0.33	2.6	0.3	0.3	20.9	<0.01	0.02	0.9	0.073	
ZZ119225		23.6	650	8.9	5.8	0.001	0.01	0.67	7.2	0.6	0.4	62.5	<0.01	0.04	2.0	0.076	
ZZ119226		13.5	300	6.0	5.4	<0.001	0.01	0.38	3.7	0.4	0.3	32.3	<0.01	0.02	1.1	0.054	
ZZ119227		18.0	300	6.7	11.7	<0.001	0.01	0.38	4.2	0.3	0.4	35.5	<0.01	0.02	1.2	0.068	
ZZ119228		21.7	900	5.5	6.1	0.001	0.03	0.44	4.9	0.9	0.3	70.7	<0.01	0.02	1.1	0.066	
ZZ119229		36.9	640	5.7	6.2	<0.001	0.02	0.52	7.3	0.7	0.3	181.5	<0.01	0.02	1.9	0.077	
ZZ119230		26.1	330	10.9	9.9	<0.001	<0.01	0.29	4.6	0.2	0.4	33.7	<0.01	0.03	1.1	0.084	



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		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119191		0.06	0.24	52	0.09	2.17	26	2.8	<0.001
ZZ119192		0.09	0.32	56	0.12	4.44	33	5.4	<0.001
ZZ119193		0.08	0.33	68	0.08	3.18	31	3.4	<0.001
ZZ119194		0.06	0.20	48	0.09	1.92	23	2.5	<0.001
ZZ119195		0.04	0.16	33	0.07	1.37	16	0.9	<0.001
ZZ119196		0.06	0.19	44	0.12	1.53	24	0.7	<0.001
ZZ119197		0.05	0.34	41	0.09	4.42	23	1.8	<0.001
ZZ119198		0.07	0.58	53	0.12	4.10	37	2.0	<0.001
ZZ119199		0.07	0.21	94	0.07	2.92	44	2.7	<0.001
ZZ119200		0.08	0.90	70	0.12	8.80	49	2.1	<0.001
ZZ119201		0.08	0.27	74	0.16	1.87	37	1.8	0.003
ZZ119202		0.10	0.47	69	0.08	4.76	38	3.7	<0.001
ZZ119203		0.09	0.37	70	0.10	3.93	41	1.8	0.001
ZZ119204		0.04	0.17	43	0.09	1.39	36	1.0	<0.001
ZZ119205		0.05	0.17	72	0.10	1.88	67	0.9	<0.001
ZZ119206		0.09	0.47	50	0.14	4.33	40	1.3	<0.001
ZZ119207		0.08	0.69	56	0.13	14.30	39	1.8	<0.001
ZZ119208		0.09	0.34	71	0.09	3.52	50	1.3	<0.001
ZZ119209		0.08	0.38	57	0.12	3.95	37	2.5	0.002
ZZ119210		0.08	0.41	60	0.09	4.96	82	1.0	<0.001
ZZ119211		0.04	0.38	31	0.44	3.21	23	1.1	<0.001
ZZ119212		0.03	0.35	27	0.12	2.75	20	1.0	<0.001
ZZ119213		0.06	0.51	50	0.08	4.59	33	1.3	0.001
ZZ119214		0.02	0.13	8	<0.05	0.90	6	<0.5	<0.001
ZZ119215		0.08	0.47	63	0.08	4.74	42	1.9	0.001
ZZ119216		0.11	0.37	81	0.07	3.33	43	3.8	<0.001
ZZ119217		0.10	0.78	58	0.13	10.65	55	2.1	0.001
ZZ119218		0.04	0.31	39	0.07	3.87	25	0.7	<0.001
ZZ119219		0.05	0.25	37	0.10	2.33	26	<0.5	<0.001
ZZ119220		0.10	0.39	57	0.14	3.42	43	0.9	<0.001
ZZ119221		0.05	0.23	106	0.11	2.40	79	1.7	<0.001
ZZ119222		0.09	0.54	59	0.13	8.75	56	2.4	0.003
ZZ119223		0.07	0.41	57	0.14	3.73	33	1.1	0.011
ZZ119224		0.07	0.28	54	0.11	1.94	37	0.7	<0.001
ZZ119225		0.09	0.62	61	0.14	12.10	51	2.4	0.004
ZZ119226		0.07	0.37	53	0.14	4.59	29	0.6	<0.001
ZZ119227		0.08	0.49	62	0.14	3.43	42	1.2	<0.001
ZZ119228		0.08	1.76	54	0.13	8.64	45	1.2	0.003
ZZ119229		0.10	0.65	65	0.10	10.15	43	3.8	0.003
ZZ119230		0.08	0.39	69	0.11	3.26	63	0.7	<0.001



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Sample Description	Method	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
ZZ119231		0.36	0.09	1.79	9.6	<0.02	<10	100	0.36	0.10	0.46	0.07	15.70	10.4	51	0.83
ZZ119232		0.50	0.04	1.17	8.6	<0.02	<10	110	0.24	0.08	0.36	0.07	10.95	6.4	26	0.58
ZZ119233		0.36	0.74	1.11	23.2	<0.02	<10	80	0.57	0.17	0.83	1.15	10.70	29.6	24	1.92
ZZ119241		0.32	0.05	1.67	39.2	0.02	<10	80	0.42	0.11	0.75	0.05	18.70	23.5	55	6.43
ZZ119242		0.40	0.07	1.38	12.7	<0.02	<10	110	0.33	0.08	1.29	0.06	14.75	13.7	62	1.35
ZZ119243		0.43	0.12	1.48	15.6	<0.02	<10	120	0.42	0.10	1.12	0.14	14.30	14.1	58	1.28
ZZ119244		0.31	0.06	1.01	9.0	<0.02	<10	100	0.34	0.06	1.06	0.06	13.15	13.5	79	1.46
ZZ119245		0.53	0.08	1.72	17.5	<0.02	<10	90	0.40	0.08	0.97	0.18	19.45	20.6	84	1.26
ZZ119246		0.58	0.16	1.92	15.0	<0.02	10	130	0.43	0.07	2.47	0.12	14.95	22.4	82	1.38
ZZ119247		0.41	0.12	2.13	31.1	<0.02	<10	50	0.44	0.07	0.85	0.07	15.25	32.6	150	1.67
ZZ119248		0.33	0.11	2.52	41.8	<0.02	<10	80	0.67	0.08	1.05	0.10	12.90	45.2	175	2.71
ZZ119249		0.30	0.18	1.87	10.7	<0.02	<10	80	0.33	0.06	0.88	0.07	10.35	22.3	87	2.28
ZZ119250		0.45	0.23	1.67	6.0	<0.02	<10	170	0.23	0.05	1.06	0.09	8.79	19.5	64	1.52
ZZ119251		0.39	0.11	1.82	18.4	<0.02	<10	100	0.33	0.09	0.45	0.05	12.95	17.0	67	1.35
ZZ119252		0.44	0.09	1.79	17.5	<0.02	<10	110	0.45	0.09	0.57	0.05	19.65	13.4	52	1.13
ZZ119253		0.39	0.07	1.57	27.8	<0.02	<10	70	0.51	0.08	0.55	0.04	18.20	18.0	69	1.78
ZZ119254		0.35	0.10	1.81	21.9	<0.02	<10	80	0.29	0.08	0.81	0.08	12.40	21.3	79	4.40
ZZ119255		0.42	0.07	2.10	28.9	<0.02	<10	90	0.57	0.11	0.53	0.08	23.9	21.5	93	1.28
ZZ119256		0.45	0.20	1.06	15.2	<0.02	<10	100	0.33	0.07	1.43	0.35	12.40	17.8	43	1.05
ZZ119257		0.47	0.19	1.16	23.7	<0.02	10	150	0.75	0.17	5.24	0.21	15.70	21.3	73	2.95
ZZ119258		0.39	0.14	1.61	19.6	<0.02	<10	140	0.39	0.06	1.58	0.10	15.65	28.0	131	2.29
ZZ119259		0.51	0.19	2.01	10.1	<0.02	<10	120	0.42	0.06	6.26	0.17	10.15	31.5	163	2.25
ZZ119260		0.37	0.22	0.78	118.5	<0.02	<10	40	0.15	0.17	0.38	0.22	6.04	3.0	12	1.38
ZZ119261		0.34	0.47	1.96	17.5	<0.02	<10	140	0.54	0.13	2.16	0.38	10.95	24.9	93	3.22
ZZ119262		0.43	0.29	2.16	24.8	<0.02	10	170	0.51	0.10	4.67	0.48	21.1	32.4	175	2.50
ZZ119263		0.40	0.21	2.08	13.3	<0.02	<10	40	0.34	0.08	4.44	0.14	19.45	31.0	63	2.10
ZZ119264		0.33	0.05	1.07	11.1	<0.02	<10	70	0.29	0.04	0.48	0.05	11.75	7.9	30	0.45
ZZ119265		0.43	0.04	0.82	11.5	<0.02	<10	70	0.20	0.04	0.83	0.08	12.65	7.5	25	0.43
ZZ119266		0.40	0.05	1.48	15.6	<0.02	<10	70	0.52	0.08	0.53	0.08	25.8	15.0	46	0.72
ZZ119267		0.39	0.09	1.19	7.0	<0.02	<10	80	0.30	0.05	1.32	0.06	16.20	12.2	43	0.48
ZZ119268		0.32	0.05	0.42	0.8	<0.02	<10	30	0.07	0.02	0.48	0.13	3.96	2.9	9	0.21
ZZ119269		0.27	0.11	1.45	7.4	<0.02	10	90	0.26	0.05	1.46	0.22	8.74	13.9	93	0.66
ZZ119270		0.39	0.06	0.67	2.1	<0.02	<10	30	0.15	0.04	0.64	0.04	6.40	6.5	19	0.20
ZZ119271		0.28	0.07	0.87	3.6	<0.02	<10	30	0.19	0.03	0.49	0.05	11.25	7.3	25	0.25
ZZ119272		0.38	0.20	3.03	18.4	<0.02	<10	90	0.54	0.09	0.74	0.08	16.40	37.1	112	0.96
ZZ119273		0.44	0.15	2.19	7.3	<0.02	<10	110	0.33	0.05	2.05	0.16	10.50	26.7	93	0.47
ZZ119274		0.33	0.16	2.19	4.6	<0.02	<10	140	0.28	0.07	1.21	0.12	10.25	25.0	184	0.59
ZZ119275		0.32	0.16	2.13	10.2	<0.02	<10	140	0.40	0.06	1.18	0.20	12.55	21.3	45	0.68
ZZ119276		0.52	0.61	2.73	8.9	<0.02	<10	180	0.47	0.08	0.81	0.26	11.35	28.9	79	0.51
ZZ119277		0.36	0.26	2.14	8.6	<0.02	10	60	0.54	0.06	1.48	0.13	20.3	31.2	101	0.55



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		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119231		30.9	2.71	5.06	0.09	0.15	0.02	0.020	0.08	7.1	9.4	0.60	283	0.87	0.02	0.78
ZZ119232		15.9	2.16	3.64	0.08	0.05	0.02	0.015	0.06	5.1	6.2	0.34	246	0.70	0.02	0.72
ZZ119233		424	3.62	3.18	0.12	0.05	0.03	0.013	0.06	5.1	4.9	0.46	1540	0.97	0.04	0.27
ZZ119241		192.5	4.73	5.21	0.10	0.08	0.02	0.033	0.13	7.9	6.6	0.68	634	1.15	0.03	0.32
ZZ119242		72.1	2.96	3.97	0.11	0.06	0.03	0.021	0.10	7.6	7.6	1.05	447	0.53	0.03	0.54
ZZ119243		81.3	3.26	4.36	0.10	0.05	0.04	0.025	0.10	7.5	8.3	0.88	515	0.49	0.03	0.50
ZZ119244		62.5	2.71	3.08	0.11	0.03	0.06	0.018	0.05	7.5	5.2	0.75	515	0.35	0.04	0.26
ZZ119245		107.5	3.56	4.99	0.13	0.07	0.04	0.022	0.08	10.4	11.5	1.31	765	0.78	0.03	0.49
ZZ119246		170.5	3.63	5.32	0.12	0.06	0.06	0.022	0.09	8.3	13.0	1.45	813	0.43	0.04	0.42
ZZ119247		147.5	4.46	5.56	0.14	0.14	0.02	0.024	0.10	8.9	10.8	1.26	715	0.71	0.03	0.37
ZZ119248		147.0	5.69	6.39	0.15	0.14	0.03	0.028	0.06	6.8	11.3	1.46	1120	1.01	0.03	0.19
ZZ119249		87.8	4.02	5.42	0.14	0.08	0.02	0.022	0.10	4.8	9.3	1.02	746	0.51	0.04	0.28
ZZ119250		56.0	2.78	4.53	0.11	0.05	0.01	0.014	0.10	3.5	8.3	1.08	1410	0.44	0.07	0.37
ZZ119251		39.8	3.32	5.39	0.09	0.13	0.01	0.025	0.10	5.6	8.2	0.71	500	0.76	0.02	0.48
ZZ119252		51.9	3.31	5.31	0.10	0.20	0.03	0.025	0.13	9.5	9.0	0.65	401	0.70	0.02	0.60
ZZ119253		81.4	3.44	4.46	0.11	0.08	0.02	0.023	0.05	7.2	6.9	0.62	691	0.82	0.03	0.36
ZZ119254		107.0	3.75	5.23	0.14	0.09	0.01	0.018	0.08	6.2	11.9	0.83	477	0.82	0.03	0.30
ZZ119255		93.0	5.18	5.75	0.11	0.19	0.02	0.038	0.11	13.1	7.7	0.85	669	2.52	0.01	0.43
ZZ119256		104.5	2.61	3.19	0.10	0.04	0.03	0.017	0.07	6.7	5.8	0.71	731	0.68	0.02	0.30
ZZ119257		104.0	3.30	3.59	0.05	0.11	0.04	0.032	0.06	7.9	7.5	1.20	786	0.90	0.02	0.54
ZZ119258		148.0	4.03	4.98	0.06	0.09	0.02	0.028	0.11	8.4	7.6	1.36	928	0.68	0.02	0.25
ZZ119259		213	4.88	5.59	0.06	0.10	0.01	0.033	0.08	5.1	12.7	3.17	1000	0.54	0.03	0.14
ZZ119260		13.6	1.45	2.98	<0.05	0.04	0.02	0.016	0.04	2.9	3.3	0.18	176	1.24	0.01	0.56
ZZ119261		91.5	4.10	5.13	0.05	0.11	0.02	0.041	0.32	4.9	7.3	1.34	1110	1.32	0.04	0.21
ZZ119262		184.0	4.98	6.14	0.05	0.12	0.02	0.040	0.19	11.2	11.4	1.87	1240	0.83	0.01	0.17
ZZ119263		201	4.80	6.27	<0.05	0.08	0.03	0.042	0.04	9.8	10.6	1.48	866	0.75	0.01	<0.05
ZZ119264		44.1	1.95	3.02	<0.05	0.08	0.02	0.019	0.15	6.0	4.4	0.41	330	0.36	0.02	0.50
ZZ119265		37.7	1.90	2.56	0.05	0.06	0.03	0.017	0.05	6.7	3.9	0.49	367	0.30	0.02	0.46
ZZ119266		66.9	3.28	4.38	<0.05	0.08	0.05	0.030	0.13	12.8	8.4	0.71	523	0.82	0.01	0.71
ZZ119267		95.5	2.13	3.20	<0.05	0.04	0.04	0.021	0.09	8.7	6.2	0.71	330	0.39	0.02	0.51
ZZ119268		32.9	0.72	1.44	<0.05	<0.02	0.01	0.010	0.06	1.9	1.3	0.21	99	0.17	0.04	0.22
ZZ119269		107.0	2.64	3.35	<0.05	0.03	0.05	0.019	0.23	4.3	5.0	1.07	487	0.62	0.03	0.34
ZZ119270		44.1	1.21	1.89	<0.05	0.02	0.01	0.012	0.10	3.0	3.0	0.37	242	0.35	0.04	0.27
ZZ119271		49.8	1.49	2.23	<0.05	0.03	0.02	0.013	0.12	6.9	3.1	0.40	180	0.43	0.03	0.37
ZZ119272		250	5.93	7.14	0.09	0.11	0.02	0.032	0.62	10.3	12.0	1.66	968	1.37	0.01	0.36
ZZ119273		200	4.32	5.18	0.06	0.07	0.02	0.025	0.49	5.4	9.4	1.57	865	1.12	0.01	0.27
ZZ119274		146.0	3.46	5.27	0.06	0.06	0.01	0.020	0.46	5.1	7.9	2.10	657	0.47	0.01	0.36
ZZ119275		156.0	3.48	4.92	0.07	0.07	0.02	0.021	0.63	6.7	8.7	1.36	831	0.76	0.01	0.49
ZZ119276		248	4.80	6.22	0.07	0.11	0.05	0.040	0.70	6.1	9.1	1.45	1080	0.70	0.01	0.34
ZZ119277		229	4.91	5.06	0.05	0.07	0.03	0.031	0.40	11.2	8.1	1.28	980	0.86	0.01	0.21



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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119231		21.5	180	20.6	7.7	<0.001	<0.01	0.29	5.7	0.4	0.4	31.0	<0.01	0.03	2.2	0.100	
ZZ119232		13.0	190	4.9	7.4	<0.001	<0.01	0.29	3.0	0.3	0.3	28.1	<0.01	0.01	1.3	0.071	
ZZ119233		24.3	700	38.2	3.8	<0.001	0.03	0.36	9.7	0.8	<0.2	45.9	<0.01	0.16	0.4	0.050	
ZZ119241		27.0	260	5.9	17.9	<0.001	0.01	0.51	14.4	0.7	0.3	42.6	<0.01	0.07	1.6	0.049	
ZZ119242		28.8	490	4.5	7.4	<0.001	0.01	0.27	9.5	0.4	0.3	90.9	<0.01	0.02	1.5	0.066	
ZZ119243		27.9	560	6.1	9.8	<0.001	0.02	0.36	10.0	0.5	0.3	68.7	<0.01	0.03	1.2	0.060	
ZZ119244		29.0	800	3.7	4.1	<0.001	0.02	0.36	8.2	0.5	0.2	62.8	<0.01	0.02	0.7	0.037	
ZZ119245		40.2	690	6.8	7.8	<0.001	0.01	0.42	11.7	0.6	0.3	58.9	<0.01	0.04	1.6	0.083	
ZZ119246		33.0	760	6.4	8.1	<0.001	0.02	0.35	12.3	0.7	0.3	109.5	<0.01	0.03	1.0	0.075	
ZZ119247		58.0	240	7.7	9.4	<0.001	0.01	0.33	19.4	0.7	0.3	62.7	<0.01	0.03	1.4	0.094	
ZZ119248		61.4	470	11.8	6.6	<0.001	0.01	0.39	26.2	0.9	0.3	102.5	<0.01	0.06	1.1	0.077	
ZZ119249		24.3	290	4.0	13.0	<0.001	0.01	0.26	15.7	0.4	0.2	70.4	<0.01	0.04	0.9	0.085	
ZZ119250		23.6	760	2.5	9.8	<0.001	0.01	0.18	7.8	0.4	0.2	65.6	<0.01	0.02	0.6	0.100	
ZZ119251		20.8	120	6.3	13.8	<0.001	<0.01	0.30	9.4	0.3	0.3	37.8	<0.01	0.02	1.5	0.080	
ZZ119252		22.4	250	5.5	11.6	<0.001	<0.01	0.34	9.0	0.5	0.3	39.7	<0.01	0.03	2.2	0.101	
ZZ119253		23.9	260	4.8	6.2	<0.001	0.01	0.32	13.1	0.4	0.3	49.8	<0.01	0.02	1.6	0.057	
ZZ119254		23.9	290	6.0	9.5	<0.001	0.01	0.20	11.1	0.5	0.2	59.4	<0.01	0.04	1.2	0.112	
ZZ119255		36.6	160	10.7	10.0	<0.001	0.01	0.39	19.1	1.0	0.3	44.1	<0.01	0.06	2.5	0.072	
ZZ119256		22.0	430	4.2	9.8	<0.001	0.02	0.28	7.6	0.5	0.2	82.0	<0.01	0.05	0.6	0.038	
ZZ119257		37.7	790	9.8	8.0	0.001	0.03	0.69	12.7	0.6	0.5	328	<0.01	0.05	2.0	0.027	
ZZ119258		50.7	620	4.2	12.0	0.001	0.02	0.16	14.8	0.4	0.4	81.0	<0.01	0.10	0.9	0.049	
ZZ119259		43.5	1090	4.6	7.5	0.001	0.03	0.27	21.2	0.6	0.4	242	<0.01	0.08	0.8	0.037	
ZZ119260		5.9	180	15.0	5.7	0.001	0.01	0.41	1.1	<0.2	0.4	28.2	<0.01	0.04	1.5	0.019	
ZZ119261		29.6	590	22.0	24.5	0.001	0.02	0.35	17.0	0.4	0.5	132.5	<0.01	0.06	1.2	0.033	
ZZ119262		60.6	1170	15.1	15.1	0.001	0.08	0.17	16.2	0.8	0.5	181.5	<0.01	0.09	1.0	0.015	
ZZ119263		29.9	1290	5.0	2.9	0.001	0.02	0.14	13.0	0.6	0.4	176.5	<0.01	0.12	1.4	<0.005	
ZZ119264		17.6	270	2.9	7.2	0.001	0.02	0.23	4.6	<0.2	0.4	31.7	<0.01	0.02	1.1	0.059	
ZZ119265		19.5	570	2.7	4.1	0.001	0.02	0.22	3.6	0.4	0.4	75.1	<0.01	0.03	0.9	0.061	
ZZ119266		28.0	380	7.5	7.8	0.001	0.01	0.59	7.1	0.5	0.5	44.6	<0.01	0.04	1.8	0.067	
ZZ119267		26.2	650	3.2	6.7	0.001	0.03	0.33	5.0	0.6	0.4	65.8	<0.01	0.05	0.7	0.056	
ZZ119268		7.2	310	0.9	4.1	0.001	0.01	0.12	0.8	<0.2	0.3	31.8	<0.01	0.02	<0.2	0.032	
ZZ119269		42.2	910	2.3	10.7	0.001	0.03	0.29	5.2	0.6	0.4	84.6	<0.01	0.07	0.4	0.055	
ZZ119270		10.4	260	1.3	2.6	0.001	0.01	0.10	2.0	<0.2	0.3	30.2	<0.01	0.04	0.3	0.037	
ZZ119271		12.5	310	1.4	5.1	0.001	0.02	0.15	2.8	0.3	0.3	25.0	<0.01	0.03	0.5	0.051	
ZZ119272		55.0	430	4.3	27.0	0.001	0.01	0.35	13.7	0.7	0.5	53.7	<0.01	0.13	1.3	0.115	
ZZ119273		34.8	1170	2.8	14.8	0.001	0.04	0.24	8.6	0.5	0.4	94.3	<0.01	0.11	0.5	0.054	
ZZ119274		95.9	880	2.6	15.4	0.001	0.04	0.14	6.0	0.3	0.4	75.8	<0.01	0.08	0.4	0.074	
ZZ119275		28.2	990	3.8	19.2	0.001	0.04	0.29	5.7	0.3	0.4	64.0	<0.01	0.09	0.7	0.083	
ZZ119276		36.0	950	26.6	18.6	0.001	0.03	5.28	10.0	0.7	0.4	60.2	<0.01	0.14	0.9	0.070	
ZZ119277		39.9	950	4.2	15.8	0.001	0.04	0.31	9.9	0.9	0.4	56.7	<0.01	0.13	1.4	0.053	



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ICP21	
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119231		0.08	0.41	64	0.14	3.54	66	4.6	<0.001
ZZ119232		0.08	0.31	55	0.11	2.37	36	2.0	<0.001
ZZ119233		0.06	0.24	69	0.11	5.30	99	1.4	0.001
ZZ119241		0.09	0.91	134	0.07	7.22	44	2.4	0.002
ZZ119242		0.07	0.62	73	0.09	6.79	45	2.0	<0.001
ZZ119243		0.08	0.62	83	0.08	7.53	46	1.5	<0.001
ZZ119244		0.05	0.85	67	0.08	7.24	33	1.1	<0.001
ZZ119245		0.09	0.57	91	0.12	10.05	50	1.9	0.005
ZZ119246		0.07	0.37	93	0.11	8.60	52	1.8	0.001
ZZ119247		0.07	0.43	110	0.08	9.49	45	4.3	<0.001
ZZ119248		0.10	0.43	130	0.05	8.55	71	4.1	<0.001
ZZ119249		0.05	0.21	110	0.10	4.10	39	2.3	<0.001
ZZ119250		0.08	0.17	75	0.08	3.09	59	1.5	<0.001
ZZ119251		0.09	0.29	87	0.07	3.02	37	3.8	<0.001
ZZ119252		0.09	0.53	83	0.11	6.64	39	6.8	0.001
ZZ119253		0.07	0.36	89	0.06	4.76	33	2.8	<0.001
ZZ119254		0.04	0.55	116	0.10	3.60	41	2.8	<0.001
ZZ119255		0.09	1.15	123	0.08	10.95	57	7.7	<0.001
ZZ119256		0.04	0.31	60	0.08	5.75	41	1.1	<0.001
ZZ119257		0.34	1.39	77	0.09	9.75	51	3.0	<0.001
ZZ119258		0.04	0.17	104	0.07	7.17	58	2.5	<0.001
ZZ119259		0.04	0.32	119	0.07	6.68	68	2.0	<0.001
ZZ119260		0.61	0.42	28	0.07	2.07	79	1.4	<0.001
ZZ119261		0.22	0.36	101	0.07	6.36	136	3.0	<0.001
ZZ119262		0.08	0.46	120	0.09	11.25	137	3.1	0.003
ZZ119263		0.02	0.32	134	0.06	9.46	68	1.3	0.001
ZZ119264		0.05	0.29	50	0.08	5.88	24	2.8	0.001
ZZ119265		0.04	0.63	51	0.06	5.93	31	1.9	<0.001
ZZ119266		0.10	0.53	72	0.10	9.72	52	3.4	0.001
ZZ119267		0.06	0.73	53	0.07	9.28	41	1.4	<0.001
ZZ119268		0.02	0.15	19	<0.05	1.13	20	<0.5	<0.001
ZZ119269		0.05	0.25	65	0.08	4.29	52	0.8	0.001
ZZ119270		0.02	0.08	33	<0.05	2.28	16	0.6	<0.001
ZZ119271		0.03	0.31	40	0.08	6.42	18	1.2	0.002
ZZ119272		0.11	0.28	151	0.10	11.95	75	3.1	0.006
ZZ119273		0.06	0.16	110	0.09	5.97	78	2.0	0.004
ZZ119274		0.06	0.13	92	0.12	5.35	60	1.7	0.003
ZZ119275		0.10	0.19	89	0.11	6.34	74	2.1	0.002
ZZ119276		0.07	0.20	121	0.09	7.37	96	2.6	0.003
ZZ119277		0.08	0.34	108	0.10	11.35	66	2.0	0.005



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Sample Description	Method	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR															
ZZ119278		0.37	0.12	2.34	8.9	<0.02	<10	70	0.33	0.07	0.48	0.05	10.40	22.4	120	0.93
ZZ119279		0.42	0.15	1.60	6.8	<0.02	<10	50	0.25	0.06	0.39	0.05	9.01	11.9	55	0.57
ZZ119280		0.33	0.47	2.04	41.4	<0.02	<10	90	0.53	0.08	0.58	0.32	21.3	19.9	87	1.40
ZZ119281		0.40	0.14	2.54	19.4	<0.02	<10	50	0.51	0.07	0.49	0.18	14.25	21.6	117	1.84
ZZ119282		0.37	0.15	1.30	10.6	<0.02	<10	70	0.26	0.07	0.33	0.09	13.05	10.8	43	1.42
ZZ119283		0.38	0.24	1.91	10.3	<0.02	<10	90	0.45	0.06	0.52	0.08	11.65	23.6	127	2.27
ZZ119284		0.48	0.03	1.25	10.2	<0.02	<10	50	0.21	0.06	0.39	0.03	11.15	11.3	49	1.10
ZZ119285		0.55	0.03	1.69	15.5	<0.02	<10	140	0.40	0.09	0.51	0.05	23.5	12.3	47	0.73
ZZ119286		0.43	0.09	1.40	10.9	<0.02	<10	120	0.33	0.07	0.69	0.04	17.65	13.1	51	0.68
ZZ119287		0.46	0.02	2.67	14.7	<0.02	<10	100	0.32	0.06	0.59	0.03	8.71	20.6	131	0.96
ZZ119288		0.42	0.03	1.39	8.6	<0.02	<10	80	0.31	0.07	0.34	0.03	12.25	8.1	40	0.66
ZZ119289		0.51	0.04	1.38	9.2	0.02	<10	100	0.38	0.08	0.49	0.03	18.25	8.3	37	0.55
ZZ119290		0.53	0.07	1.29	8.5	<0.02	<10	70	0.25	0.05	0.34	0.03	10.20	10.2	44	0.76
ZZ119291		0.42	0.09	1.43	7.1	<0.02	<10	160	0.30	0.10	0.51	0.07	13.85	8.1	30	0.66
ZZ119292		0.31	0.07	0.97	5.2	<0.02	<10	60	0.28	0.05	0.99	0.06	11.60	6.4	24	0.61
ZZ119293		0.41	0.06	0.67	3.3	<0.02	<10	40	0.13	0.05	0.17	0.04	7.44	4.5	14	0.45
ZZ119294		0.41	0.34	0.37	1.1	<0.02	<10	30	0.05	0.02	0.12	0.06	3.60	2.3	5	0.31
ZZ119295		0.42	0.21	1.73	16.4	<0.02	<10	120	0.30	0.07	0.46	0.05	12.95	12.9	63	0.90
ZZ119296		0.48	0.07	1.02	7.2	<0.02	<10	70	0.17	0.06	0.32	0.08	8.30	5.8	17	0.57
ZZ119297		0.48	0.09	1.00	6.2	<0.02	<10	120	0.15	0.08	0.30	0.17	10.05	6.9	17	0.75
ZZ119298		0.40	0.16	1.99	15.6	<0.02	<10	120	0.40	0.09	0.47	0.07	17.40	12.4	43	1.78
ZZ119299		0.37	0.54	1.52	26.3	<0.02	<10	110	0.47	0.11	1.23	0.10	26.0	20.8	37	1.95
ZZ119300		0.42	0.17	1.56	19.9	<0.02	<10	100	0.36	0.07	0.49	0.06	19.10	10.5	35	0.96
ZZ119301		0.41	0.08	1.49	9.4	0.04	<10	90	0.28	0.07	0.36	0.05	9.24	10.1	29	0.76
ZZ119302		0.34	0.06	1.74	20.9	<0.02	<10	70	0.56	0.07	0.64	0.03	27.2	16.9	54	1.09
ZZ119303		0.35	0.19	1.33	6.7	<0.02	<10	90	0.27	0.07	0.42	0.05	12.35	13.1	32	0.75
ZZ119304		0.38	0.08	0.49	2.6	<0.02	<10	70	0.11	0.03	0.45	0.08	10.35	4.5	9	0.25
ZZ119305		0.32	0.08	1.28	8.1	<0.02	<10	110	0.28	0.08	0.86	0.05	18.70	9.3	34	0.63
ZZ119306		0.48	0.08	1.48	12.4	<0.02	<10	130	0.35	0.09	0.75	0.02	22.4	12.3	38	0.63
ZZ119307		0.32	0.06	1.46	8.4	<0.02	<10	90	0.33	0.06	0.53	0.03	15.50	10.6	33	0.96
ZZ119308		0.36	0.08	1.32	12.4	<0.02	<10	90	0.26	0.07	0.39	0.13	12.50	10.2	32	1.04
ZZ119309		0.34	0.32	1.71	12.6	<0.02	<10	110	0.27	0.08	0.34	0.20	7.73	10.0	30	1.17
ZZ119310		0.23	0.07	1.10	7.1	<0.02	<10	140	0.23	0.07	0.74	0.07	15.50	7.8	24	0.50
ZZ119311		0.47	0.11	1.54	8.5	<0.02	<10	170	0.22	0.12	0.33	0.11	10.80	9.3	27	1.04
ZZ119312		0.33	0.10	1.48	8.1	<0.02	<10	120	0.25	0.10	0.31	0.06	13.00	8.2	30	0.93
ZZ119313		0.39	0.08	1.47	5.9	<0.02	<10	190	0.26	0.11	0.41	0.19	14.45	8.0	31	0.75
ZZ119314		0.44	0.12	1.78	13.3	<0.02	<10	70	0.39	0.07	0.29	0.06	11.00	8.5	38	1.22
ZZ119315		0.31	0.29	1.15	11.4	<0.02	<10	100	0.47	0.14	0.47	0.49	12.60	20.7	22	1.66



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		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
ZZ119278		126.0	3.90	5.62	0.06	0.05	0.01	0.023	0.53	4.7	13.2	1.36	493	0.67	0.01	0.62
ZZ119279		33.9	2.70	4.55	<0.05	0.04	0.01	0.021	0.10	4.3	7.9	0.72	263	0.70	0.02	0.85
ZZ119280		81.2	3.72	5.58	<0.05	0.11	0.03	0.034	0.08	12.0	10.3	0.98	699	1.36	0.03	0.53
ZZ119281		49.7	4.11	6.59	<0.05	0.08	0.01	0.028	0.07	6.2	11.4	1.39	507	0.85	0.01	0.65
ZZ119282		26.5	2.24	3.82	<0.05	0.07	0.01	0.022	0.10	5.2	6.8	0.54	365	0.79	0.02	0.70
ZZ119283		65.8	3.86	5.45	<0.05	0.09	0.01	0.029	0.19	5.4	9.6	1.09	885	0.76	0.02	0.49
ZZ119284		22.1	2.21	3.78	<0.05	0.07	0.01	0.019	0.12	5.6	8.1	0.80	337	0.47	0.02	0.77
ZZ119285		32.9	2.88	4.96	<0.05	0.10	0.02	0.032	0.11	10.3	9.4	0.67	414	0.78	0.02	1.18
ZZ119286		31.7	2.57	4.15	<0.05	0.06	0.03	0.026	0.06	7.8	8.3	0.83	700	0.63	0.03	0.78
ZZ119287		38.7	4.02	6.35	<0.05	0.06	0.02	0.027	0.06	4.0	11.0	1.81	432	0.60	0.01	0.53
ZZ119288		23.8	2.32	4.07	<0.05	0.05	0.01	0.024	0.07	6.1	8.7	0.56	246	0.65	0.02	0.80
ZZ119289		35.9	2.32	4.19	<0.05	0.08	0.02	0.024	0.09	9.6	10.9	0.57	274	0.61	0.02	0.84
ZZ119290		29.0	2.18	3.77	<0.05	0.02	0.02	0.022	0.08	4.6	6.1	0.62	233	0.47	0.02	0.69
ZZ119291		23.5	2.17	4.99	<0.05	0.03	0.01	0.025	0.06	7.0	8.4	0.44	659	0.73	0.02	1.06
ZZ119292		21.9	1.67	3.05	<0.05	0.06	0.02	0.021	0.08	5.3	11.4	0.51	255	0.87	0.03	0.83
ZZ119293		15.0	1.18	2.49	<0.05	0.03	0.01	0.010	0.07	3.3	3.0	0.21	173	0.67	0.02	0.63
ZZ119294		8.2	0.60	1.39	<0.05	0.02	0.02	<0.005	0.04	1.5	1.0	0.08	147	0.06	0.02	0.28
ZZ119295		40.4	2.88	4.98	<0.05	0.17	0.03	0.021	0.07	5.4	5.2	0.60	391	0.82	0.01	0.67
ZZ119296		21.7	1.89	3.44	<0.05	0.04	0.01	0.015	0.09	3.8	4.9	0.28	179	0.41	0.02	0.68
ZZ119297		19.2	1.78	4.18	<0.05	0.02	0.02	0.013	0.06	4.7	4.4	0.23	524	0.58	0.01	0.69
ZZ119298		41.0	3.16	5.88	<0.05	0.13	0.02	0.023	0.06	8.3	6.3	0.58	467	0.64	0.01	0.95
ZZ119299		167.5	3.34	4.75	0.05	0.12	0.06	0.023	0.10	14.9	6.0	0.67	627	0.69	0.01	0.62
ZZ119300		66.8	2.78	4.72	<0.05	0.08	0.03	0.024	0.06	7.9	6.2	0.51	402	0.71	0.01	0.68
ZZ119301		24.1	2.34	4.58	<0.05	0.02	0.01	0.016	0.04	4.2	5.5	0.46	371	0.59	0.01	0.64
ZZ119302		90.7	3.61	4.74	0.05	0.09	0.04	0.025	0.07	13.6	5.3	0.71	495	0.40	0.01	0.63
ZZ119303		29.1	2.19	4.28	<0.05	<0.02	0.01	0.017	0.04	5.0	5.0	0.44	579	0.66	0.02	0.63
ZZ119304		18.4	0.91	1.97	<0.05	<0.02	0.02	0.007	0.02	4.8	1.5	0.16	366	0.20	0.03	0.29
ZZ119305		52.8	2.17	4.10	<0.05	0.05	0.05	0.019	0.05	9.4	8.0	0.58	332	0.56	0.02	0.87
ZZ119306		56.2	2.75	4.55	<0.05	0.06	0.04	0.021	0.04	11.4	10.3	0.68	404	1.31	0.01	0.95
ZZ119307		59.2	2.61	4.68	<0.05	0.07	0.03	0.022	0.04	8.8	7.9	0.57	360	0.50	0.02	0.68
ZZ119308		67.6	2.26	4.02	<0.05	0.03	0.01	0.018	0.06	5.8	6.6	0.44	319	0.41	0.02	0.67
ZZ119309		32.4	2.53	5.26	<0.05	0.03	0.02	0.020	0.02	3.8	7.1	0.48	309	0.63	0.01	0.74
ZZ119310		26.9	1.90	3.59	<0.05	0.03	0.03	0.016	0.04	7.4	6.5	0.42	521	0.93	0.02	0.78
ZZ119311		17.1	2.47	6.49	<0.05	0.03	0.01	0.019	0.06	5.5	10.2	0.37	408	0.84	0.01	0.93
ZZ119312		39.3	2.19	4.73	<0.05	0.06	0.01	0.016	0.04	6.7	7.2	0.42	363	0.56	0.01	0.98
ZZ119313		17.4	2.03	5.24	<0.05	0.04	0.01	0.016	0.03	7.3	7.9	0.43	742	0.66	0.01	0.93
ZZ119314		30.4	2.67	4.91	<0.05	0.02	0.02	0.020	0.05	5.1	6.4	0.46	232	0.54	0.01	0.77
ZZ119315		150.5	2.31	3.44	<0.05	0.04	0.03	0.013	0.08	5.4	4.6	0.33	1180	0.64	0.02	0.51



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ119278		39.7	410	3.7	22.0	0.001	0.02	0.24	6.0	0.3	0.5	33.7	<0.01	0.12	1.0	0.141
ZZ119279		22.4	140	3.6	10.0	0.001	0.01	0.26	3.5	0.2	0.5	27.8	<0.01	0.04	1.0	0.112
ZZ119280		49.5	450	8.2	9.1	0.001	0.01	0.70	11.1	0.8	0.6	37.7	<0.01	0.05	2.2	0.076
ZZ119281		57.8	610	5.9	9.2	0.001	0.01	0.32	7.7	0.3	0.6	30.0	<0.01	0.04	1.4	0.111
ZZ119282		21.6	150	5.3	23.5	0.001	<0.01	0.32	3.9	<0.2	0.5	20.8	<0.01	0.03	1.2	0.084
ZZ119283		64.9	410	5.0	34.9	0.001	0.01	0.23	11.2	0.3	0.5	27.8	<0.01	0.03	1.2	0.097
ZZ119284		27.0	210	4.3	25.4	0.001	<0.01	0.24	3.8	<0.2	0.5	23.5	<0.01	0.02	1.3	0.103
ZZ119285		26.4	480	6.1	10.8	0.001	0.01	0.39	6.3	0.4	0.7	42.6	<0.01	0.04	2.6	0.094
ZZ119286		30.4	480	4.5	6.5	0.001	0.02	0.32	6.0	0.4	0.5	49.8	<0.01	0.03	1.4	0.063
ZZ119287		73.8	240	4.7	6.8	0.001	<0.01	0.30	5.4	0.2	0.5	42.5	<0.01	0.03	1.0	0.105
ZZ119288		20.7	160	5.6	13.3	0.001	<0.01	0.29	3.7	<0.2	0.6	29.2	<0.01	0.03	1.4	0.088
ZZ119289		19.9	450	5.5	6.9	0.001	0.01	0.31	5.0	0.3	0.6	35.6	<0.01	0.03	2.2	0.088
ZZ119290		26.8	280	3.8	12.4	0.001	0.01	0.26	3.4	<0.2	0.5	27.9	<0.01	0.03	0.8	0.069
ZZ119291		15.4	380	5.9	9.4	0.001	0.01	0.24	3.5	<0.2	0.7	35.8	<0.01	0.03	1.4	0.080
ZZ119292		14.1	320	5.3	8.5	0.002	0.06	0.32	3.2	0.9	0.5	49.1	<0.01	0.02	0.9	0.053
ZZ119293		10.2	290	4.6	5.3	0.001	<0.01	0.19	1.7	0.2	0.2	14.7	<0.01	0.02	0.7	0.051
ZZ119294		2.8	190	4.1	3.0	<0.001	<0.01	0.06	0.7	<0.2	<0.2	10.0	<0.01	0.01	0.2	0.030
ZZ119295		38.4	160	5.9	10.0	<0.001	0.01	0.31	6.3	0.5	0.4	32.7	<0.01	0.03	1.5	0.069
ZZ119296		10.8	410	5.0	7.5	<0.001	<0.01	0.44	2.7	<0.2	0.3	25.8	<0.01	0.02	0.9	0.052
ZZ119297		10.7	680	4.9	8.7	<0.001	<0.01	0.20	2.5	0.2	0.3	26.2	<0.01	0.03	0.6	0.054
ZZ119298		24.8	220	6.7	8.5	<0.001	0.01	0.38	7.0	0.4	0.4	35.7	<0.01	0.04	2.1	0.084
ZZ119299		31.7	480	7.7	8.6	<0.001	0.02	1.69	9.8	0.7	0.3	48.6	<0.01	0.07	1.5	0.044
ZZ119300		24.4	340	6.7	6.4	<0.001	0.02	0.51	7.5	0.4	0.3	33.2	<0.01	0.03	1.7	0.052
ZZ119301		19.1	280	4.7	5.9	<0.001	<0.01	0.23	3.5	0.2	0.3	26.3	<0.01	0.02	0.6	0.056
ZZ119302		40.3	390	5.5	8.2	<0.001	0.01	0.38	13.3	0.7	0.3	48.7	<0.01	0.02	1.8	0.054
ZZ119303		19.7	400	4.8	4.5	<0.001	0.01	0.18	3.2	0.2	0.3	29.1	<0.01	0.02	0.6	0.053
ZZ119304		6.8	550	1.4	1.8	<0.001	0.02	0.14	1.2	<0.2	<0.2	29.8	<0.01	0.01	<0.2	0.035
ZZ119305		22.7	640	4.7	4.8	<0.001	0.02	0.26	5.4	0.7	0.3	45.0	<0.01	0.02	1.5	0.071
ZZ119306		22.6	520	6.6	4.5	0.001	0.02	0.29	6.4	2.0	0.4	38.6	<0.01	0.03	2.0	0.070
ZZ119307		23.8	270	5.3	5.4	<0.001	<0.01	0.37	8.5	0.3	0.3	36.7	<0.01	0.02	1.5	0.067
ZZ119308		20.9	450	5.4	8.9	<0.001	0.01	0.27	4.7	0.4	0.3	28.1	<0.01	0.03	0.9	0.052
ZZ119309		20.3	240	6.2	3.7	<0.001	0.01	0.31	3.6	0.4	0.3	30.7	<0.01	0.04	0.7	0.055
ZZ119310		14.4	710	4.7	5.2	<0.001	0.03	0.26	3.5	0.6	0.3	43.6	<0.01	0.01	1.0	0.058
ZZ119311		13.4	420	9.0	14.0	<0.001	<0.01	0.34	3.4	0.2	0.5	30.3	<0.01	0.03	1.0	0.066
ZZ119312		15.0	250	7.5	5.4	<0.001	<0.01	0.26	3.5	0.3	0.4	24.8	<0.01	0.02	1.5	0.073
ZZ119313		14.0	400	9.9	4.9	<0.001	<0.01	0.20	3.6	0.3	0.5	30.4	<0.01	0.02	1.7	0.084
ZZ119314		21.9	340	6.1	11.6	<0.001	0.01	0.29	4.3	0.3	0.4	27.0	<0.01	0.03	1.0	0.059
ZZ119315		16.4	700	24.2	6.4	<0.001	0.03	0.26	4.8	0.4	0.2	33.3	<0.01	0.14	0.6	0.055



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Au- ICP21	
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ119278		0.12	0.23	104	0.11	3.34	54	1.5	0.003
ZZ119279		0.06	0.23	77	0.09	2.14	34	1.6	<0.001
ZZ119280		0.11	0.52	87	0.11	11.35	112	3.8	0.004
ZZ119281		0.11	0.39	105	0.10	4.58	92	3.0	0.002
ZZ119282		0.08	0.26	56	0.09	2.49	41	2.6	<0.001
ZZ119283		0.07	0.28	89	0.07	3.92	64	3.5	<0.001
ZZ119284		0.10	0.28	59	0.12	2.75	37	2.6	<0.001
ZZ119285		0.09	0.62	66	0.13	5.34	44	3.9	0.006
ZZ119286		0.06	0.44	58	0.10	6.06	36	2.0	0.004
ZZ119287		0.10	0.26	97	0.09	2.61	45	2.6	0.001
ZZ119288		0.08	0.37	59	0.11	3.02	32	2.1	0.001
ZZ119289		0.08	0.43	56	0.14	7.21	36	3.1	0.002
ZZ119290		0.06	0.28	52	0.10	2.63	28	0.8	0.001
ZZ119291		0.07	0.46	57	0.13	3.46	39	1.4	0.001
ZZ119292		0.06	0.33	39	0.13	3.62	32	2.2	0.002
ZZ119293		0.04	0.18	29	0.08	1.50	22	1.1	<0.001
ZZ119294		<0.02	0.06	17	<0.05	0.66	22	0.5	<0.001
ZZ119295		0.09	0.36	68	0.08	3.49	36	6.4	0.002
ZZ119296		0.06	0.24	44	0.11	1.88	31	1.3	<0.001
ZZ119297		0.05	0.29	46	0.11	2.21	38	0.5	<0.001
ZZ119298		0.10	0.47	78	0.11	4.46	49	4.6	0.002
ZZ119299		0.06	0.40	74	0.17	12.80	44	3.2	0.005
ZZ119300		0.09	0.38	61	0.11	5.08	38	2.5	<0.001
ZZ119301		0.08	0.26	61	0.08	2.00	31	0.5	0.001
ZZ119302		0.07	0.69	73	0.07	12.35	39	3.1	0.003
ZZ119303		0.06	0.26	55	0.10	2.19	33	<0.5	0.003
ZZ119304		0.03	0.24	24	0.05	3.22	14	<0.5	0.002
ZZ119305		0.06	0.73	52	0.15	6.83	36	1.8	0.003
ZZ119306		0.07	0.87	62	0.21	7.74	46	1.8	0.002
ZZ119307		0.07	0.47	61	0.11	5.16	35	2.8	0.004
ZZ119308		0.08	0.32	51	0.13	3.28	44	1.1	0.001
ZZ119309		0.11	0.25	65	0.11	1.62	39	0.9	0.002
ZZ119310		0.05	0.39	45	0.28	4.41	37	0.9	0.004
ZZ119311		0.10	0.28	71	0.21	2.12	61	1.1	<0.001
ZZ119312		0.07	0.34	55	0.15	2.64	47	2.0	0.002
ZZ119313		0.09	0.36	57	0.13	3.26	67	1.3	0.002
ZZ119314		0.09	0.36	66	0.08	2.36	36	1.0	0.001
ZZ119315		0.05	0.33	54	0.10	3.98	98	1.1	0.001



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

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