

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

Telephone: 604-688-2568

Fax: 604-688-2578

ASSESSMENT REPORT

describing

PROSPECTING AND GEOCHEMICAL SAMPLING

at the

HARTLESS JOE PROPERTY

Hart 1	YC26563	Joe 1-10	YC37091-YC37100
Hart 2-4	YC30012-YC30014	Joe 11-12	YC98499-YC98500
Hart 5-28	YC37057-YC37080	Joe 13-30	YE43243-YE43260
Hart 29-40	YD35289-YD35300	Joe 31-94	YF49391-YF49454
Hart 41-46	YD00305-YD00310	Joe 95-170	YF49875-YF49950
Hart 47-98	YF47807-YF47858	Les 1-10	YC37081-YC37090
Hart 99-163	YF49119-YF49183	Les 11-12	YC88019-YC88020

NTS 105D/15

Latitude 60°55'N; Longitude 134°50'W

Field work performed from July 7 to July 13 and September 5 to September 6, 2017

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

J. Morton, B.Sc., P.Geo.

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INTRODUCTION

The Hartless Joe property covers high-grade epithermal gold-silver mineralization. It is located within the northern portion of Stikinia, an accreted terrane that hosts several precious-metal rich, epithermal vein and exhalite deposits such as the Brucejack Mine and former Eskay Creek and Premier mines. The property is wholly owned by Strategic Metals Ltd.

This report describes prospecting and geochemical sampling, which were conducted from July 7 to 13 and September 5 to 6, 2017. Archer, Cathro & Associates (1981) Limited managed the program on behalf of Strategic Metals. The author supervised and participated in the exploration program and interpreted all resulting data. The author's Statement of Qualifications is provided in Appendix I, and a Statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Hartless Joe property is located in south-central Yukon at latitude 60°55' north and longitude 134°50' west on NTS map sheet 105D/15 (Figure 1). The property covers an area of approximately 6757 ha (67.57 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>
Hart 1	YC26563	March 1, 2033
Hart 2-4	YC30012-YC30014	March 1, 2033
Hart 5-28	YC37057-YC37080	March 1, 2033
Hart 29-40	YD35289-YD35300	March 1, 2030
Hart 41-46	YD00305-YD00310	March 1, 2027
Hart 47-98	YF47807-YF47858	March 1, 2024
Hart 99-163	YF49119-YF49183	March 1, 2022
Joe 1-10	YC37091-YC37100	March 1, 2033
Joe 11-12	YC98499-YC98500	March 1, 2028
Joe 13-30	YE43243-YE43260	March 1, 2027
Joe 31-94	YF49391-YF49454	March 1, 2024
Joe 95-170	YF49875-YF49950	March 1, 2022
Les 1-10	YC37081-YC37090	March 1, 2033
Les 11-12	YC88019-YC88020	March 1, 2027

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

In 2017, mobilization of camp gear, personnel and supplies to and from the property was provided by a Bell 206B helicopter operated by Capital Helicopters (1995) Inc. of Whitehorse. The property is not directly road accessible. The closest ground access is along an old bulldozer trail, which terminates approximately 20 km south of the property.

The property is located within the traditional territories of the Kwanlin Dün First Nation and the Ta'an Kwäch'an Council. In July 2016, Ecofor Consulting Ltd. conducted a Heritage Resource Impact Assessment in order to determine the potential impacts of mineral exploration. Work areas in the central part of the property were found to have limited potential for heritage resources, and no further heritage resource work was recommended.

HISTORY AND PREVIOUS WORK

The earliest record of staking and exploration in the vicinity of the Hartless Joe property dates from the late 1960s. In 1967, J. Smith recorded the Ben 1 to 22 claims after discovering the Ace Showing, a low-sulphide quartz vein. Silicified material collected from a shallow hand trench dug across a northwest-trending shear zone within this showing reportedly returned 27.4 g/t gold, 78.9 g/t silver, 2.2% lead and 1.9% zinc over 10 cm (Deklerk and Traynor, 2005).

In 1968, Esensee Exploration Ltd. performed soil geochemical sampling and ground magnetic and electromagnetic surveys over part of the Ben claim block. Although the surveys suggested the presence of two possible gold-bearing fissure veins (Deklerk and Traynor, 2005), the claims expired without receiving additional work.

In 1985, the Geological Survey of Canada (GSC) conducted reconnaissance-scale stream sediment and water geochemical sampling across NTS map sheet 105D. Stream sediment samples collected in the vicinity of the Hartless Joe property yielded intermittent, strongly anomalous values for gold and some of its pathfinder elements. Peak values include 1810 ppb gold, 0.4 ppm silver, 120 ppm copper and 244 ppb mercury (Heon, 2003).

In 1989, Valor Ventures Ltd. staked one Joe claim to protect the Ace Showing (Deklerk and Traynor, 2005). No record of work is available for this claim, and it subsequently expired.

In 1997, C. Hart discovered two showings on the property, the Grumpy and Joe Creek showings, while conducting 1:50,000 scale geological mapping on behalf of the Yukon Geological Survey (YGS). The most significant discovery, the Grumpy Showing, is located about 2000 m southwest of the Ace Showing and consists of quartz stringer and vein material associated with a one-half to one metre wide siliceous felsic dyke within a north-trending fault zone. A specimen collected by the YGS yielded 10.6 g/t gold (Hart, 1997).

Later that year, G. Grant restaked the Ace Showing as the KC 1 to 6 claims, but no work was filed and the claims were allowed to expire (Deklerk and Traynor, 2005).

In February 2004, prospector R. Hamel staked one claim in order to cover the Grumpy Showing. ATAC Resources Ltd. purchased Hamel's claim in August 2004 and conducted a one day program of claim staking, cursory prospecting and soil geochemical sampling in the vicinity of the showing. This work identified talus fragments of quartz vein with modest amounts of galena, sphalerite, arsenopyrite and pyrite. Samples of mineralized vein material assayed from 1 to 251 g/t gold and 13.5 to 4540 g/t silver (Wengzynowski, 2006). Following this work, ATAC Resources expanded the Heartless Joe claim block by staking an additional 33 claims.

In July 2005, ATAC Resources performed contour and grid soil sampling, prospecting and mapping on the Hartless Joe property. This work better defined the mineralization at the Ace and Grumpy showings, and resulted in the discovery of two new showings: the Joe 4, and Les 2 (Wengzynowski, 2006).

In early 2006, ATAC Resources optioned the property to New Shoshoni Ventures Ltd., which conducted airborne geophysical surveys but did not report results. New Shoshoni terminated the option in spring 2007.

In 2007, ATAC Resources conducted a three-phase exploration program on the Hartless Joe property, consisting of: 1) rock and soil geochemical sampling; 2) helicopter-borne variable-time domain electromagnetic (VTEM) and magnetic surveys; and 3) reconnaissance-scale induced polarization (IP) and resistivity surveys. This work resulted in the discovery of a sixth mineralized showing, the Les 7, where a sample of quartz vein talus with clots of pyrite and galena yielded values of 73 g/t gold, 183 g/t silver, 2.95% lead and 0.22% zinc. This showing is now referred to as the King Showing. Magnetic surveys identified linear lows that correspond with known faults, and a small ovoid high southwest of the Grumpy Showing. IP and chargeability surveys identified a weak, shallow conductor 500 m northeast of the magnetic ovoid (D. Eaton, 2008).

In March 2008, Ferus Resources Ltd. signed an optional purchase agreement with ATAC Resources and, that summer, completed 612.2 m of diamond drilling in three holes. Diamond drilling attempted to test previously identified geochemical and geophysical anomalies, but returned disappointing results. A complete report pertaining to this work can be found in D. Eaton (2008) while results are summarized in the Diamond Drilling section below. In January 2009, the option was dropped.

In January 2010, Strategic Metals purchased the 42 claims comprising the Hartless Joe property from ATAC Resources. That fall, Strategic Metals staked an additional 12 claims in order to cover prospective ground to the southeast.

In 2012, Strategic Metals conducted a 5-day work program on the Hartless Joe property, consisting of rock and soil geochemical sampling and drill pad construction. A total of eight rock samples were collected in conjunction with 153 contour soil samples, near the Joe 4 and King showings (Drechsler, 2013).

In August 2015, Strategic Metals performed contour soil sampling and prospecting on the property, and in October 2016 completed an airborne LIDAR survey. Prospecting on the property identified a mineralized, quartz-rich horizon at the King Showing. Chip sampling across the horizon yielded an a weighted average grade of 60 g/t, 554 g/t silver, 5.01% lead and 0.35% copper over 1.2 m (Morton, 2016).

In 2016, Strategic Metals performed prospecting, hand trenching, geochemical sampling and 367.3 m of diamond drilling in six holes. Prospecting resulted in the discovery of a flat-lying, gold-bearing quartz vein at the Queen Showing, where a continuous chip sample returned 462 g/t gold, 79.6 g/ silver, 0.28% copper and 1% lead over 40 cm. A second prospecting discovery, the

Jack Showing, was identified 350 m east of the Queen Showing, where an outcrop sample yielded 4.53 g/t gold. It covers a similar, flat-lying quartz vein. At the King Showing, hand trenching exposed the mineralized horizon along a strike length of 82 m. Five diamond drill holes were collared from a single pad and designed to intersect the down-dip extension of the King horizon. Three of the holes, HJ-16-01, -03, and -05, returned elevated values for gold and silver, but failed reproduce the strong results obtained from surface samples. A sixth drill hole, targeting the Queen Showing, cut the footwall stratigraphy observed in outcrop but failed to intersect the gold-rich quartz vein. A complete report pertaining to this work can be found in Morton (2017), while results are summarized in the Diamond Drilling section below.

GEOMORPHOLOGY

The property is situated on and to the south of Joe Mountain within the Yukon Plateau. It is drained by Cap and Joe creeks, which flow southerly into the M'Clintock and Yukon rivers and, ultimately, into the Pacific Ocean. There is abundant water for camp and diamond drilling purposes on the property.

The property lies within subalpine and alpine terrain at elevations ranging from 1585 to 1850 m above sea level. Local topography consists of steep, unvegetated slopes separated by broad glacial valleys with marshy moss-covered floors. Outcrop exposures are limited to higher elevations and are most common in north-facing cirques.

The climate at the Hartless Joe property 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 early June to late September.

REGIONAL GEOLOGY

The Hartless Joe property lies within Stikinia, a predominantly island-arc terrane that extends through northern British Columbia into central Yukon (Figure 3).

In 1961, the Geological Survey of Canada (GSC) published a geological map of the Whitehorse area (NTS 105D) at 1:253,400 scale (Wheeler, 1961). In 1994, the YGS performed 1:50,000 scale mapping of the Joe Mountain region (Hart and Hunt, 1997 and Hart, 1997) and in 2003, completed a Yukon-wide geological compilation, which update the lithological unit names in the Hartless Joe area (Gordey and Makepeace, 2003). In 2005, the YGS released a paper on reconnaissance geological and geochemical studies of the Joe Mountain Formation (Piercey 2005).

In 2015, the YGS initiated a mapping project east of Lake Laberge in the Teslin Mountain area (105E/2) at a 1:50,000 scale (Bordet, 2016). Mapping in 2016 further refined the stratigraphic and structural relationships in the map area (Bordet, 2017).

The main lithological units are described below in Table I, while regional geology is shown on Figure 4.

Table I – Lithological Units (after Gordey and Makepeace, 2003 and Bordet, 2016)

Map Suite	Age	Map Unit	Description
Mount Nansen Group	Mid-Cretaceous	mKN	Byng Creek Volcanics: light weathering, black to light orange, quartz-eye rhyolite and dacite flows, tuffs, breccias and assorted fragmental volcanics with tourmaline breccia.
Whitehorse Suite	Mid-Cretaceous	mKgW	Biotite-hornblende granodiorite, hornblende-quartz diorite and hornblende diorite; leucocratic, biotite-hornblende granodiorite with sparse grey-pink potassium feldspar phenocrysts.
		mKqW	Grey, medium to coarse grained, generally equigranular granitic rocks of felsic composition.
Teslin Plutonic Suite	Lower Cretaceous	EKgT	White to pale grey weathering, recessive, leucocratic, fine to coarse grained equigranular hornblende-biotite granite, granodiorite, quartz monzonite and quartz monzodiorite, locally with sparse grey and pink potassium feldspar phenocrysts; associated aplitic phases and dykes.
Laberge Group	Lower to Middle Jurassic	JL	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.
		JL1	Richthofen Formation: dark weathering, massive to finely laminated, black mudstone, limey mudstone and hornfels, locally with wispy brown laminae or limestone horizons.
Aksala Formation	Upper Triassic	uTrAK1	Casca Member: Brown shale, black and minor red siltstone, greenish, calcareous greywacke and interbedded bioclastic, argillaceous limestone; igneous- or limestone-clast pebble and cobble conglomerate; lahaaric debris flows; rare feldspar-augite porphyry flows.
		uTrAK2	Hancock Member: Massive to thick bedded limestone; minor thin bedded argillaceous to sooty limestone; coarsely crystalline, massive dolostone; minor laminated chert; massive to poorly bedded, limestone conglomerate debris flows and fanglomerate.
Joe Mountain Formation	Middle Triassic	mTrJ1	Black weathering, fine-grained, aphyric, pillowed basalt flows with calcite veining and weak but pervasive chloritic alteration. These pillows are under a package of gritty and limey sediments.

		mTJ2	Chaotic assemblage of recessive weathering, volcanogenic sandstone, siltstone, shale and gritty sandstone. Includes limestone or limey beds, and resistant, dark weathering, chaotic and massive to poorly bedded, heterolithic, diamictite, conglomerate, and fragmental or gritty limestone.
		mTJ3	Dark grey weathering, generally unaltered, fine-grained and feldspar and pyroxene-phyric, pillowed basalt flows and massive microdiorite. Locally interbedded with mTJM2.
		mTJ4	Dark weathering, massive, variable textured, coarse-grained and locally pegmatitic, pyroxene gabbro and diorite.

Stikinia is the largest of the exotic terranes that have been accreted to the western margin of ancestral North America. In southern Yukon, this terrane is 80 km across and comprises four tectonic elements: Paleozoic Stikine Assemblage, Mid-Triassic Joe Mountain volcanic complex, Upper Triassic Lewes River Arc, and Upper Triassic to Mid-Jurassic Whitehorse Trough Supergroup (Hart, 1997).

Joe Mountain Formation volcanoclastic rocks form the lowest stratigraphic level in the Hartless Joe area. They comprise massive to flow-banded or pillowed, subalkaline to calc-alkaline basalt and basaltic andesite, poorly sorted volcanic conglomerate, mafic tuff, volcanic mudstone, sandstone and minor carbonates (Bordet, 2017).

Overlying this basement are sedimentary rocks of the Whitehorse Trough Supergroup. The trough was a fault-bounded, marginal basin that formed off the west coast of North America and filled with up to seven kilometres of largely arc-derived clastic rocks. Units comprising the Whitehorse Trough Supergroup extend over a strike length of 600 km, spanning the area between Carmacks, Yukon and Dease Lake, British Columbia. The Whitehorse Trough Supergroup is divided into two main stratigraphic components: Upper Triassic Aksala Formation (part of the Lewes River Group) and Upper Triassic to Middle Jurassic formations of the Laberge Group (Hart, 1997). Locally, the contact between Joe Mountain Formation and the overlying Aksala Formation may represent a stratigraphic disconformity (Bordet, 2017).

Three large Cretaceous aged plutons are located near the claim block: the Lower Cretaceous M'Clintock Lakes and Laurier Creek plutons, which are located immediately east and north of the property, respectively; and the mid-Cretaceous Cap Creek pluton, which is located immediately west of the property. The Laurier Creek, (formerly M'Clintock River), and M'Clintock Lakes plutons are part of the Teslin Plutonic Suite, which is characterized as homogenous, coarse grained, biotite-hornblende granodiorite to quartz monzonite. The Cap Creek pluton is represented by several phases, but dominantly comprises medium to coarse grained, biotite-hornblende granodiorite and quartz-diorite. In the Hartless Joe area, three phases of dykes are recognized. The oldest phase consists of diabase dykes that cut solely rocks of the Hartless Joe Formation, while two other are felsic phases that appear to cut the entire stratigraphy (Bordet, 2017; Hart, 1997). Northwest of the property, preliminary age dating of the

felsic dykes have returned dates of 138 to 136 Ma – a range that is not associated with any known igneous suite in the Yukon (Bordet, 2018).

In the Hartless Joe area, the north- to northwest-trending Laurier Creek fault marks the western boundary of the Joe Mountain Formation. It forms a distinctive valley to the north of the property, and may have facilitated strike-slip motion and/or reactivation of a pre-existing structure (Bordet, 2017). In the immediate property area, an extensive system of imbricate faults and fault arrays appear to merge into the Laurier Creek fault (Hart, 1997). The Laurier Creek fault may be part of a larger northwest-trending set of dextral strike-slip faults, known as the Teslin fault system. Dextral displacement along faults of the Teslin system is associated with synkinematic emplacement of Early to mid-Cretaceous plutons through central Yukon (Nelson and Colpron, 2007). The fault array on Hartless Joe property is interpreted to be an asymmetric pull-apart basin, resulting from a deflection along the Laurier Creek fault (Figure 5).

PROPERTY GEOLOGY

No systematic geological mapping has been completed on the Hartless Joe property by Strategic Metals, or preceding exploration companies. The only known mapping was performed by the YGS and, as such, the following descriptions are based on its publications (Hart, 1997; Hart and Hunt, 1997 and Piercey, 2005). Figure 6 illustrates the property geology.

The Hartless Joe property is largely underlain by Joe Mountain Formation volcanics (mTrJ1 to mTrJ4), which are locally subdivided into four units: 1) a lower unit of dark basaltic flows; 2) a clastic and calcareous sedimentary unit; 3) a thick upper unit of basalt flows and microdiorite; and 4) associated gabbro and diabase intrusions.

Aksala Formation sediments are found within the southwestern portion of the claim block, comprising the Casca Member (uTrAK1) and the Hancock Member (uTrAK2), a distinctive limey sub-unit. Aksala Formation strata are lithologically variable and in this area comprise various sedimentary rocks including limey siltstone, siltstone, shale, sandstone, conglomerate, hornfels and diamictite, all locally with limestone. The Hancock Member of the Aksala Formation consists of: white weathering, resistant, massive to poorly bedded bioclastic and micritic limestone, marble and skarn; and recessive, flaggy, dark grey limestone and sandy limestone.

The youngest of the formational units found on the property is the Richthofen Formation (JL1), which was deposited by a southeast-prograding submarine fan (or fans) during the Early Jurassic. The Richthofen Formation is characterized as turbiditic mudstone and sandstone with local limestone horizons, and unconformably overlies Aksala Formation in the Hartless Joe map area (Lowey, 2005).

Bedding in the central part of the property is mapped as dipping moderately south to southeast; however, work by Strategic Metals in the area of the King and Queen showings has identified sub-horizontal bedding, which is exhibited as terraced volcanic flows. In the southwestern part of the property, a series of east-trending antiforms and synforms occur within Aksala Formation and Joe Mountain Formation rocks.

Three major dyke swarms are mapped in the Hartless Joe area: in the southern part of the property, west of the claims, and in the northwestern part of the property. The swarms roughly follow an arc that is concave to the east.

MINERALIZATION

The Hartless Joe property hosts gold- and silver-bearing epithermal-style mineralization that occurs within veins, silica- and carbonate- breccias, and as stratigraphically-controlled horizons. Ten showings have been identified on the property and are referred to as the Grumpy, Gusano, Joe Creek, Les 2, Joe 4, MK, Ace, King, Queen and Jack. All of the mineral occurrences are hosted in Joe Mountain Formation volcanics, and are characterized by varying amounts of gold and silver, with trace to minor amounts of copper, lead and zinc. Mercury- and antimony-in-rock values are erratically distributed and not appreciably enriched in zones of mineralization. Arsenic is strongly associated with gold mineralization at the Grumpy Showing, where samples have yielded arsenic values of up to 5310 ppb. The remaining mineral occurrences are characterized by low arsenic values.

In 2017, Strategic Metals collected a total of 45 rock samples from the property. The 2017 rock sample locations are plotted on Figure 7. Results from all programs since 2005 are illustrated thematically for gold, silver and copper on Figures 8 to 10, respectively.

The 2017 rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals laboratories in Whitehorse, YT and North Vancouver, BC, respectively. Each sample was dried, fine crushed to better than 90% passing 2 mm and then a 1 kg split was pulverized to better than 95% passing 106 microns. For a selected 17 samples, >100 micron material remaining on the screen was then analyzed for coarse gold by fire assay with a gravimetric finish (Au-SCR21). 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 and inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Overlimit silver values were determined by four acid digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Ag-OG46). Rock Sample Descriptions and Certificates of Analysis for the 2016 samples are provided in Appendices IV and V respectively.

The 2017 work program focused on the north and south-central parts of the property and identified one new area of significant precious metal mineralization – the MK Showing. Descriptions of all showings on the Hartless Joe property are provided in the following paragraphs. Rock Sample Descriptions from this program are located in Appendix IV, while Certificates of Analysis appear in Appendix V.

The **Grumpy Showing** is located in the southern part of the property, at the head of Cap Creek. It is hosted within a series of northwest-trending splay or wrench faults that have juxtaposed

Aksala Formation sedimentary rock against Joe Mountain Formation volcanics, and is associated with a prominent recessive topographic linear. The showing was discovered by Craig Hart and Julie Hunt (1997) during a YGS regional mapping program. The occurrence was originally described as occupying a fault zone at the head of Cap Creek. A grab sample collected from a north-trending, siliceous, felsic dyke, containing quartz stringers, yielded 10.6 g/t gold (Hart, 1997). Subsequent work has outlined a broad area of mineralized quartz-carbonate float, extending north of the original discovery, along the surface trace of a fault, and to the east, along the fold axis of an east-trending anticline. Float samples collected within a 670 by 400 m area have yielded values of up to 251 g/t gold and 4540 g/t silver, with notable enrichment in arsenic. Table II compiles the most significant assay results from the Grumpy Showing.

Table II - Significant Results from the Grumpy Showing

Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
B395829	0.87	88.0	522	23	0.03	0.04	0.01
B395830	0.80	211	453	80	0.02	0.00	0.01
B395831	55.3	5010	143	1590	0.09	0.55	0.06
B395832	18.5	2310	213	364	0.11	0.73	0.06
B395833	5.32	50.0	5310	17	0.01	0.02	0.01
M011209	15.65	4540	139	1350	0.01	0.62	0.03
M011210	1.00	13.5	225	6	0.00	0.00	0.00
M011211	3.54	82.7	51	16	0.01	0.05	0.12
M011212	2.17	339	94	98	0.02	0.11	0.14
M011213	2.88	33.5	138	6	0.01	0.01	0.03
M011214	251.0	1270	413	148	0.02	0.93	0.13
C105708	9.97	3.8	66	13	0.01	0.04	0.06
C105710	0.10	<0.2	700	2540	0.00	0.00	0.01
C105713	1.09	6.6	58	5	0.01	0.10	0.27
C105714	27.00	466	190	76	0.01	0.10	0.34
C105716	3.03	4.0	3770	7	0.00	0.00	0.00
B395830	0.80	211.0	453	80	0.02	trace	0.01
B395833	5.32	50.0	5310	17	0.01	0.02	0.01

Mineralization at the Grumpy Showing occurs in rusty weathering quartz-carbonate veins, and to a lesser extent, quartz-carbonate healed volcanic breccia and silicified sedimentary rock. Veins typically exhibit a syntaxial or comb texture, and sulphide minerals occur as millimetre-scale bands and blebs. Sulphide minerals comprise pyrite, galena, minor chalcopyrite, and an unidentified grey-black mineral. Microscopic examination of polished sections has identified the presence of grey-black tellurides or sulphosalts developed along the grain boundaries of known sulphides (Drechsler, 2013).

Samples of quartz-carbonate healed breccias are characterized by the presence of disseminated chalcopyrite, an unidentified grey-black sulphide, and trace galena. Chlorite- and sericite-altered silicified sedimentary rock with disseminated pyrite may be vein wallrock or stratigraphically-controlled mineralization.

The **Les 2 Showing** is located 430 m northeast of the Grumpy Showing, along a northwest-trending fault, and is associated with a recessive topographic linear. In 2005, two float samples of light orange weathering, milky white quartz vein and siliceous green wallrock, with abundant galena and pyrite, returned 117 and 76.1 g/t silver. Another sample, comprising mineralized jasperoid with moderate white to yellow quartz stockwork veinlets, minor magnetite, and orange limonitic pits returned 0.99 g/t gold (Wengzynowski, 2006). No follow up work has been performed in this area. Table III compiles the significant assay results from the Les 2 Showing.

Table III - Significant Results from the Les 2 Showing

Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
B395834	0.99	9.4	25	4	0.00	0.00	0.00
B395846	0.02	31.4	10	1	0.00	0.09	0.00
B395847	0.02	37.9	26	1	0.10	0.08	0.01
B395902	0.02	117	1	1	0.00	0.25	0.00
B395903	0.07	76.1	11	1	0.02	0.66	0.00

The **King Showing**, which was previously referred to as the Les 7 Showing, lies 900 m northeast of the Les 2 Showing. The showing comprises a mineralized quartz-rich band in outcrop, which has been traced along an 82 m strike length, and is approximately 50 to 60 cm wide. The quartz band is hosted in a recessive, limey and chloritic, volcanic mudstone, which forms the top of a volcanic flow. The mudstone is approximately two to four metres thick. Sulphide minerals within the quartz-rich band, which is either a flat-lying vein or an exhalative horizon, include galena, pyrite and chalcopyrite. Enveloping mineralization in the mudstone unit comprises malachite, azurite, plumbo-jarosite(?) and disseminated pyrite.

In 2015, a continuous chip sample collected across the band yielded 60 g/t gold, 554 g/t silver, 5.01% lead and 0.35% copper over 1.2 m (Morton, 2016). In 2016, hand trenching better exposed the mineralized band at this location, and chip samples returned 22.3 g/t gold, 195 g/t silver, 4.5% zinc, 2.0% lead and 0.22% copper over 0.5 m. The band was also exposed in a hand trench dug 82 m to the east, where it yielded 43.0 g/t gold, 376 g/t silver, 1.3% zinc, 2.0% lead and 0.1% copper over 2.1 m. A third hand trench, located 34 m southwest of the first trenches, intersected the favourable mudstone unit but failed to expose the mineralized band. Table IV compiles significant assay results from the King Showing.

Table IV - Significant Results from the King Showing

Type	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Float	C105732	73.0	183	111	68	0.10	2.95	0.22
Float	M652141	0.058	20.8	5.1	1.11	3.31	0.00	0.01
Chip sample – 1.2 m	R608488	60.0	554	555	56.3	0.35	5.01	2.32
Chip sample – 0.5 m	K288995*	23.2	195	146	38.1	0.22	2.02	4.45
Chip sample – 2.1 m	K288999- K289000*	43.0	376	43.5	86.0	0.14	2.04	1.31

* Sample collected in 2016

The **Ace Showing** is located 420 m southeast of the King Showing, and covers a 10 cm wide, flat-lying, quartz-carbonate band, which has been traced along a 95 m strike length. It sits above a pale, feldspar-phyric latite(?) dyke, and below a thin-bedded volcanic mudstone, which is overlain by pillowed basalt. Sulphides comprise less than 10% of the mineralized band, and include pyrite, galena, sphalerite and rare tetrahedrite. Malachite and limonite are also present.

This showing was discovered in 1967, and a historical channel sample reportedly assayed 27.4 g/t gold, 78.9 g.t silver, 2.2% lead and 1.9% zinc over 10 cm (Deklerk and Traynor, 2005). Sampling of the mineralized talus has returned up to 190.5 g/t gold and 5780 g/t silver (Wengzynowski, 2006). In 2016, four outcrop samples of the horizon, collected over a 95 m strike length, returned an average grade of 7.4 g/t gold and 462.5 g/t silver. Table V lists significant assay results from the Ace Showing.

Table V - Significant Results from the Ace Showing

Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
P396841	149.0	53.8	2	3	0.05	0.60	0.04
B395837	190.5	5780	167	1350	0.13	5.58	0.06
K288977*	16.85	1420	53.7	123	0.20	0.44	0.50
K288978*	3.80	82.8	11.7	5.53	0.02	0.09	<0.01
K288979*	3.69	180	170.5	15.1	0.04	0.27	0.13
K288980*	5.26	167	204.0	17.85	0.03	0.17	0.07

* Sample collected in 2016

The **Queen Showing** was discovered in 2016, and lies 120 m south of the Ace Showing. It consists of a 50 cm wide, flat-lying, rusty weathering, coarse crystalline quartz vein, exposed along a strike length of approximately 25 m. The vein is hosted in a narrow volcanic mudstone bed at the margin of a 1.1 m wide, plagioclase-phyric, latite dyke. Sulphide minerals are scarce in the vein, but fine grained native gold is observed in illite-filled fractures, with rare chalcopyrite and galena. In 2016, continuous chip sampling across the vein yielded 462 g/t gold, 79.6 g/t silver, 0.28% copper and 1% lead over 40 cm.

The **Jack Showing** was also discovered in 2016. It is located 350 m east of the Queen Showing, and comprises a 25 cm wide, flat-lying, rusty weathering, coarse crystalline quartz vein. The vein is hosted in a narrow horizon of volcanic mudstone, and contains rare clots of pyrite, chalcopyrite and goethite. In 2016, an outcrop sample returned 4.53 g/t gold.

The **Joe Creek Showing** lies 1320 m northwest of the King Showing, along a northwest-trending fault, that is marked by a recessive topographic linear. This showing was discovered by Craig Hart and Julie Hunt (1997) and covers banded and massive quartz talus with sparsely disseminated pyrite and arsenopyrite. In 2005, a sample collected from the showing yielded 46.5 g/t silver (Wengzynowski, 2006).

The **Joe 4 Showing** lies 880 m northeast of the Joe Creek Showing and covers mineralized quartz vein and quartz-healed breccia talus in a northwest-trending gully. In 2005, a sample of

quartz-cemented andesite breccia returned 16.4 g/t silver and 1.81% copper. Sulphide minerals in this sample included pyrite, chalcopyrite, pyrrhotite, and an unknown blue mineral (covellite?) hosted within both the quartz matrix and andesite clasts. Another more weakly mineralized sample of breccia returned 22.4 g/t silver. A sample of cream-white weakly oxidized quartz vein with abundant limonitic pits, malachite, azurite and residual chalcopyrite yielded 1.91% copper (Wengzynowski, 2006). Table VI compiles the significant assay results from the Joe 4 Showing.

Table VI - Significant Results from the Joe 4 Showing

Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
B395828	0.02	4.8	8	1	1.91	0.00	0.02
B395839	0.58	22.4	5	8	0.01	0.03	0.00
B395841	0.17	16.4	10	5	1.81	0.01	0.01
B395839	0.58	22.4	5	8	0.01	0.03	trace

The **MK Showing** was discovered in 2017, and is located one kilometre north-northwest of the Joe 4 Showing. It covers a shallowly dipping quartz vein that occupies the margin of an approximately four metre wide, stratigraphy-parallel, leucocratic dyke. Five rock samples of the vein, each hosting varying amounts of galena, arsenopyrite, pyrite and minor chalcopyrite, returned an average grade of 23.8 g/t gold and 56.8 g/t silver, with peak values of 37.5 g/t gold and 91.7 g/t silver. Copper values were generally low.

In 2017, several boulder samples, collected along the ridge south of the Grumpy Showing, yielded values up to 49.8 g/t gold and 365 g/t silver. This area has been named the **Gusano Showing**. The source of the mineralized boulders has not been identified, and no follow-up work has been performed in the area.

SOIL GEOCHEMISTRY

Most soil geochemical sampling performed between 2005 and 2017 has been conducted on widely spaced, reconnaissance traverses across the core of the Hartless Joe property. Tighter-spaced, grid sampling has only been done in the vicinity of the Grumpy and Ace showings.

In 2017, Strategic Metals collected 400 contour soil samples in order to extend geochemical coverage to the north and the south. The 2017 sample locations are shown on Figure 11, while results from all programs for gold, silver, copper, arsenic, lead and zinc are illustrated thematically on Figures 12 to 17, respectively. Certificates of Analysis for the 2017 samples are provided in Appendix V.

Soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 15 to 50 cm deep holes dug by handheld auger. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analyzed for 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 analyzed for gold by fire assay with inductively coupled plasma and atomic emission spectroscopy finish (Au-ICP21).

Soil development on the property is variable, which may explain why low gold-in-soil values were obtained in some areas where well mineralized float was discovered. The largest cluster of anomalous values occurs in the vicinity of the Grumpy Showing, where numerous samples taken in a 1200 by 600 m area exceed 100 ppb gold. The highest gold value at the Grumpy Showing is 1370 ppb. Samples from the Ace Showing were lower but still anomalous, with most samples in a 450 by 200 m area returning between 20 and 100 ppb gold. A 450 by 300 m cluster of strongly elevated, coincident gold, silver and copper values is centred on the King Showing. Soil samples collected in this area yielded values of up to 1440 ppb gold, 8.19 ppm silver and 985 ppm copper. A string of contour soil samples in the area of the MK Showing returned the highest copper value on the property (1955 ppm), as well as very strongly elevated gold (798 ppb) and strongly elevated silver (3.12 ppm) values. The highest gold value on the Hartless Joe property (2230 ppb) came from a reconnaissance sample taken near the Joe Creek Showing.

Moderate to strong gold, silver and lead values have also been identified in a number of other areas on the property, forming clusters up to 300 m long near some of the showings. Arsenic and antimony are sporadically elevated (up to 1440 ppm arsenic and 16 ppm antimony) in the vicinity of the Grumpy and Les 2 showings. Zinc is subdued across most of the property; however, a string of six contour soil samples collected from the area of the MK Showing are notably enriched in zinc.

Soil geochemistry on the property can be divided into two distinct sub-sets that exhibit a marked north-south metal zonation. The northerly set, Group A, is more strongly enriched in copper and zinc, while the southerly set, Group B, is more strongly enriched in arsenic and lead. Statistical analysis of groups A and B, detailed in Tables VII and VIII, suggests a strong linear relationship between gold, arsenic and lead in the southern set, and a strong linear relationship between silver and zinc in the northern set. This lateral zonation may represent a hydrothermal fluid temperature gradient, or overprinting phases of mineralization.

Table VII – Group A Pearson Correlation Coefficients

	Au	As	Cu	Fe	Ag	Pb	Zn
Au							
As	0.707						
Cu	0.225	0.249					
Fe	0.162	0.184	0.594				
Ag	0.574	0.709	0.520	0.500			
Pb	0.630	0.763	0.152	0.096	0.616		
Zn	0.556	0.743	0.606	0.387	0.777	0.614	

Table VIII – Group B Pearson Correlation Coefficients

	Au	As	Cu	Fe	Ag	Pb	Zn
Au							
As	0.789						
Cu	0.179	0.298					
Fe	0.216	0.332	0.757				
Ag	0.396	0.538	0.379	0.344			
Pb	0.649	0.780	0.301	0.224	0.406		
Zn	0.190	0.248	0.652	0.510	0.383	0.365	

GEOPHYSICAL AND LIDAR SURVEYS

In 2007, ATAC Resources commissioned Geotech Ltd. of Aurora, Ontario to fly a helicopter-borne VTEM and magnetic survey across the property. That same year, ATAC Resources also contracted Aurora Geosciences Ltd. to perform an induced polarization (IP) and resistivity survey on two lines located 520 m apart in the vicinity of Grumpy Showing (S. Eaton, 2008).

The total field magnetic readings on the Hartless Joe property range from 56900 nT to 58400 nT, which is characterized as high contrast (S. Eaton, 2008). Most of the highest readings are in areas underlain by mafic volcanic units in the northern and eastern parts of the block. Figure 18 illustrates the vertical magnetic gradient of the property. The following observations can be made based on this data. An isolated ovoid magnetic high in the southwestern corner of the block could represent a buried mafic pluton. There is a general north- to northwest-trending fabric to the data, and some of the magnetic lows correspond with known fault structures.

The VTEM response is quiet except for an anomaly in the southwestern part of the block, which is mostly underlain by sediments (Figure 19). The anomaly is about 500 m long and 200 m wide and is weakly conductive. It is located in a fault-bound block about 500 m southwest of the Grumpy Showing and 500 m northeast of the isolated ovoid magnetic high that is interpreted as a buried mafic pluton. The conductor is about 150 m below surface (Figure 17) and was interpreted as possibly representing a shallowly dipping horizon containing disseminated sulphide minerals (S. Eaton, 2008). This target was tested by diamond drilling in summer 2008. Only minor amounts of sulphide minerals were intersected and the conductor appears to have been caused by graphite on fractures (D. Eaton, 2008).

Chargeability data for both reconnaissance IP lines are shown on Figure 20. The northwesterly IP line features a large anomaly with low chargeability that is suggestive of dominantly pyritic, stratigraphically controlled mineralization (S. Eaton, 2008). The highest chargeability reading was obtained at the south end of the line where well mineralized vein float has been discovered. The southeasterly line identified what appears to be a lithological boundary (probably a fault) near a ridge crest, with more conductive rocks on its north side. Three chargeability features are

modelled to come to surface in areas where strong gold-in-soil geochemical anomalies have been outlined.

In October 2015, airborne LIDAR surveys were completed across much of the current property (Morton, 2016). The surveys highlighted a number of curvi-linear and linear geomorphological features in the central part of the property, which are interpreted as shallowly dipping bedding planes and steeply dipping, north- to northwest-trending faults. Sediment deposits, such as debris cones and alluvial fans, are also visible in the LIDAR imagery.

DIAMOND DRILLING

In 2008, a total of 612.2 m of diamond drilling was completed in three holes on the Hartless Joe property (D. Eaton, 2008). The holes tested a VTEM anomaly and part of the Grumpy Showing at depth.

Hole HJ08-01 targeted a VTEM anomaly identified by ATAC Resources in 2007. It intersected mostly dark grey, fetid limestone, which is cut by numerous narrow dykes and sills comprised of feldspar±quartz porphyry or diorite in composition. Neither type of intrusion has significantly altered the adjacent wallrocks, but pyrite is locally developed. Samples of the pyritic limestone and feldspar porphyry returned low values for gold, silver and associated pathfinder metals.

Holes HJ08-02 and HJ08-03 were drilled in opposite directions from the same drill pad at the Grumpy Showing. A number of felsic dykes, up to 30 m wide, were intersected near the collars of each hole. The holes also cut numerous, 1 to 10 cm wide, quartz±carbonate veinlets. Sedimentary rocks were most abundant in the lower part of the westerly directed hole (HJ08-02), while volcanic rocks dominate the bottom half of the easterly directed hole (HJ08-03), beneath a strong gouge-filled fault. Although pyrite was widely dispersed and locally abundant in the holes, only low gold and silver values were obtained. Key pathfinder minerals observed in mineralized float, such as arsenopyrite and galena, were absent. Hole HJ08-03 was terminated in a gougy fault zone about 50 m above its target depth. This hole does not appear to have reached the down-dip projection of gold- and silver-rich vein float in the overlying talus.

In 2012, Strategic Metals constructed a drill pad near the centre of the Grumpy Showing, about 400 m east of the collars of holes HJ08-02 and -03. This pad is positioned to test across strong soil geochemical trends and mineralized float trains, which occur on either side of it. Holes from this pad could also test chargeability anomalies and strataform mineralization.

In 2016, Strategic Metals completed a total of 367.3 m of diamond drilling in 6 holes. Five of the holes (HJ-16-01 to -05) targeted the King Showing. The sixth hole tested beneath the Queen Showing (HJ-16-06). Key data concerning the 2008 and 2016 drill holes are shown on Table IX.

Table IX – Diamond Drill Hole Data

Hole	Easting (m)	Northing (m)	Elevation (m)	Azimuth	Dip	Depth (m)
HJ08-01	514903	6751989	1615	270°	-45°	246.89
HJ08-02	515127	6752234	1707	290°	-45°	197.81
HJ08-03	515127	6752234	1707	110°	-45°	167.34
HJ-16-01	516567	6753488	1553	020°	-60°	67.0
HJ-16-02	516567	6753488	1553	000°	-90°	70.1
HJ-16-03	516567	6753488	1553	070°	-45°	56.4
HJ-16-04	516567	6753488	1553	200°	-45°	48.8
HJ-16-05	516567	6753488	1553	305°	-60°	50.3
HJ-16-06	517168	6752812	1734	350°	-65°	74.7

Holes HJ-16-01 to HJ-16-05 were all drilled from the same pad at the King Showing, in a radial pattern designed to test 22 m to 53 m down-dip of the flat-lying mineralized horizon. Every hole but HJ-16-04 intersected the favourable volcanic mudstone unit, which is divided into two distinct sub-units: an upper, black, pyritic and bioturbated mudstone with rare, mm-scale, trace fossil burrows; and a lower, tan to medium grey, brecciated mudstone with deformed, elongate rip-up(?) clasts in a dark mud matrix. Patches, bands and ribbons of quartz and quartz-carbonate occur throughout the horizon, but are most concentrated at the contact between the two sub-units, and are associated with strong silica- and hematite-alteration. The quartz is often banded and is locally colloform, brecciated and undulatory. Moderate, very fine grained pyrite occurs with quartz and both mudstone units: as disseminations, round clots in mudstone, and along selvages of quartz-carbonate ribbons. Rare, very fine grained sphalerite, chalcopyrite and trace galena is associated with the most intense alteration. Three of the holes, HJ-16-01, -03, and -05, returned elevated values for gold and silver, but failed reproduce the strong results obtained from surface samples. Table X summarizes the results below, while Figures 21 and 22 illustrate cross-sections of the five drill holes at the King Showing.

Table X – 2016 Diamond Drilling Assay Highlights

Hole	From (m)	To (m)	Interval (m)	Au (g/t)	Ag (g/t)
HJ-16-01	4.98	5.22	0.66	0.73	4.98
	22.42	25.20	2.78	1.57	44.7
HJ-16-03	30.12	31.73	1.61	0.97	3.92
HJ-16-05	29.77	30.63	0.86	0.32	14.95

One hole, HJ-16-06, targeted the Queen Showing, approximately 20 m down-dip from the surface exposure. This hole cut a 0.21 m wide, plagioclase-pyritic, latite dyke, which was hosted in a 6.86 m wide interval of dark, calcareous mudstone. One unmineralized, five centimetre wide, quartz-sericite vein was intersected near the bottom of the interval. The geochemical response for all elements of interest was low.

DEPOSIT TYPE

Mineralization at the Hartless Joe property shows greatest affinity to the low sulphidation style of epithermal gold-silver deposits. This style of mineralization is also commonly known as “Comstock” or “bonanza.” Deposits are typically associated with magmatic arcs or continental volcanic fields featuring large extensional structures. Most are hosted within predominantly volcanic packages of mainly calc-alkaline andesitic composition, which are cut by regional-scale fault and fracture systems related to grabens, calderas or dome complexes or by large extensional faults. Sub-volcanic intrusions and localized clastic basins are sometimes present (Panteleyev, 1996). At some deposits (i.e. Eskay Creek), mineralizing fluids vented into local water-filled basins and deposited stratabound or stratiform sulphides (Alldrick, 1995).

Low sulphidation epithermal deposits are formed by hydrothermal systems at shallow depths (less than one kilometre below surface). Most comprise quartz-rich veins, stockworks and breccias containing varying amounts of gold, silver, electrum, argentite and pyrite plus lesser sphalerite, chalcopyrite, galena, tetrahedrite and sulphosalt minerals. Besides quartz, gangue minerals can include chalcedony, amethyst, calcite, adularite, sericite, barite, fluorite, rhodochrosite, hematite and chlorite. Common textures include open space filling, multiple-stage brecciation, colloform banding, crustification, and symmetrical or other banding (Panteleyev, 1996).

Low sulphidation epithermal mineralization is localized in hot springs and underlying hydrothermal conduits, typically developed along complex, intersecting and bifurcating fault systems. Cooling, depressurization and fluid mixing are important controls regarding metal deposition. There may be a genetic link to underlying or nearby porphyry or skarn deposits related to deeper parts of the hydrothermal system. Silver-rich portions of the deposits generally have higher base metal contents than gold or gold-silver enriched parts. Vertical zoning is observed over distances of 250 to 350 m, with a base-metal deficient, gold- and silver-rich top, giving way to a silver-rich base metal zone, then to an underlying base metal zone with little silver, and finally to relatively barren pyrite (Panteleyev, 1996).

Subaqueous hot springs are a particular subset of the deposit model. They are deposited in water-filled reservoirs in active continental volcanic areas or in restricted submarine basins in volcanic arcs. Typically they are fed by fault or fracture systems that exhibit the type of mineralization and alteration described in the previous paragraphs. The hydrothermal fluids vent on the floor of the reservoir or into unconsolidated sediments, where metals are precipitated to form stratabound or stratiform deposits (Alldrick, 1995).

Discordant, low sulphidation epithermal deposits are found in many parts of the world and they can be of any age. Many are Tertiary, but Jurassic deposits are particularly common in Stikinia of northern British Columbia. Well known deposits in that region include Lawyers and Baker in the Toodoggone District, Premier and Brucejack near Stewart and Cinola on the Queen Charlotte Islands. International deposits include Comstock in Nevada, Creede in Colorado, Republic in Washington, El Bronce in Chile, Guanajuato in Mexico, Colqui in Peru and Ladolam in Papua-New Guinea. The median grade and tonnage of 41 Comstock-type “bonanza” deposits is

770,000 tonnes at 7.5 g/t gold and 110 g/t silver with minor copper, lead and zinc (Panteleyev, 1996).

Concordant, subaqueous hot spring gold-silver deposits are less common. The best known deposits are Eskay Creek in northern B.C. and Orotezan in Japan. Eskay Creek commenced commercial production in 1994 and it produced about 93,320 kg (3 million ounces) of gold (Stanley, 2007 and Barrick, 2008). In early 2008, mining ceased at Eskay Creek.

DISCUSSION AND CONCLUSIONS

The Hartless Joe property is favourably located in Stikinia, within a package of volcanic and sedimentary rocks that are cut by numerous large-scale and complex faults. Stikinia hosts several significant epithermal gold-silver mines and deposits in British Columbia within geological environments that are similar to that at the Hartless Joe property.

Prospecting on the property has identified a number of high-grade gold-silver showings. Most of these showings are classified as epithermal veins or breccias; however, in some cases, the geological setting is ambiguous. Occurrences of flat-lying, banded, mineralized quartz may be flat-lying veins developed preferentially in intra-volcanic mudstones, or sub-aqueous exhalative horizons.

In 2017, prospecting resulted in the discovery of two new showings in the northern and southern parts of the property – the MK and Gusano showings. Soil sampling expanded the geochemical coverage to the north and south, returning numerous high values for copper and gold near the MK Showing. Rock samples collected from the MK Showing assayed up to 37.5 g/t gold and 91.7 g/t silver, while rock samples collected from several large, mineralized boulders at the Gusano Showing yielded values up to 49.8 g/t gold and 365 g/t silver. The source of the boulders at the Gusano Showing has not been identified.

Further work on the Hartless Joe property should continue to evaluate undrilled showings and areas where anomalous geochemical or geophysical results have been obtained. Work at the MK Showing should be designed to assess the tenor and geometry of the gold-bearing quartz vein. Prospecting and hand-trenching should be directed toward identifying the source of the mineralized boulders at the Gusano Showing. Reconnaissance-scale soil geochemical coverage should be extended to cover the entire property, and detailed geological mapping in conjunction with prospecting should be performed in the vicinity of all showings and geochemical anomalies. Diamond drilling should be performed to test the chargeability anomalies beneath the Grumpy Showing and any areas identified as highly prospective by future prospecting, geological mapping and soil sampling.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink, appearing to be 'J. Morton', written over a horizontal line.

J. Morton, B.Sc., P.Geo.

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jack Morton, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from Simon Fraser University in 2013 with a B.Sc. in Earth Science.
2. From 2007 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia, and Northwest Territories.
3. I am a Professional Geologist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (License Number 45807).
4. I supervised the field program and have interpreted all data resulting from this work.



J. Morton, B.Sc., P.Geo.

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
Hart 1-163, Joe 1-170 and Les 1-12 Mineral Claims
February 1, 2018

Labour

D. Eaton geologist 25 hours April to December at \$120/hr	3,150.00
H. Burrell geologist 25 hours April to December at \$111/hr	2,913.75
J. Morton geologist 67 hours April to December at \$96/hr	6,753.60
N. Petersen geologist 16 hours April to December at \$64/hr	1,075.20
K. Willms geologist 8 hours April to December at \$62/hr	520.80
N. Ganderton field assistant 16 hours April to December at \$57/hr	957.60
M. Kulla field assistant 56 hours April to December at \$55/hr	3,234.00
W. Fairclough field assistant 16 hours April to December at \$55/hr	924.00
K. Whiting 16 hours April to December at \$55/hr	924.00
R. Ledoux field assistant 56 hours April to December at \$51/hr	2,998.80
T. Ledoux field assistant 56 hours April to December at \$51/hr	2,998.80
O. Wolfe field assistant 16 hours April to December at \$47/hr	789.60
W. Schneider expedite 5 hours April to December at \$96/hr	504.00
C. Beck office and expedite 12 hours April to December at \$81/hr	1,020.60
L. Corbett expedite 13.5 hours April to December at \$81/hr	1,148.18
L. Smith office and expedite 14 hours April to December at \$81/hr	1,190.70
V. Cournoyer-Derome expedite 9 hours April to December at \$51/hr	481.95
J. Mariacher office 12 hours April to December at \$90/hr	1,134.00
S. Newman office 26 hours April to December at \$68/hr	<u>1,856.40</u>
	34,575.98

Expenses (including management)

Field room and board 37 1/2 days at \$195/day	8,208.04
Capital Helicopters 10.1 hours Bell 206 at \$1,075/hr plus fuel	13,521.11
ALS Chemex	15,479.88
JP Exploration	6,030.48
Truck rental and fuel	<u>915.11</u>
	44,154.62

\$78,730.60

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: K291622 UTM: 515962 mE Nad83, Zone 8
Elevation: 5442 m UTM: 6751862 mN

Comments: Float sample, removed from a 50x30x30cm boulder, comprising crustiform, vuggy, orange weathering, milky white quartz, with vugs filled with limonite and limonite on fracture surfaces, as well as bands and clots of euhedral, fine to coarse grained, pyrite.

Sample Number: K291623 UTM: 515941 mE Nad83, Zone 8
Elevation: 5521 m UTM: 6751844 mN

Comments: Float sample of orange weathering, banded and crustiform quartz, with sparse limonite in clots throughout.

Sample Number: K291624 UTM: 515882 mE Nad83, Zone 8
Elevation: 5668 m UTM: 6751805 mN

Comments: Float sample of punky, dark brown weathering, quartz breccia, with vugs filled with live limonite, pale yellow clay, and chocolate brown oxide, as well as rare fine grained pyrite.

Sample Number: K291625 UTM: 515741 mE Nad83, Zone 8
Elevation: 5813 m UTM: 6751397 mN

Comments: Subcrop sample comprising punky, limonitic quartz with sparse, disseminated coarse grains of euhedral pyrite throughout, and pale yellow clay on fracture surfaces. Collected from a topographic bench of rusty, orange soil, that is bearing approx. 010 degrees.

Sample Number: K291626 UTM: 515779 mE Nad83, Zone 8
Elevation: 5880 m UTM: 6751452 mN

Comments: Float sample, removed from a 40x40x40cm boulder, comprising orange weathering, milky white quartz with abundant limonite on fractures and sparse clots of medium to coarse grained, euhedral pyrite.

Sample Number: K291627 UTM: 515790 mE Nad83, Zone 8
Elevation: 5581 m UTM: 6750989 mN

Comments: Float sample, removed from a 40x25x25cm boulder, comprising banded milky white quartz with dark bands of sheared, chloritic wall rock, and hosting moderate clots of fine grained pyrite, sparse galena and trace malachite within the dark bands.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: K291628 UTM: 515635 mE Nad83, Zone 8
Elevation: 5414 m UTM: 6750799 mN

Comments: Float grab of rusty weathering volcanic mudstone, hosting a 1cm wide veinlet of vuggy, pale yellow-green (scorodite?) stained quartz, with moderate fine grained arsenopyrite. No rep, and rock on site is not representative.

Sample Number: K291629 UTM: 515688 mE Nad83, Zone 8
Elevation: 5427 m UTM: 6751021 mN

Comments: Float sample, removed from a 40x40x30cm boulder, comprising orange-brown weathering, banded, milky white quartz with sparse clots of limonite and dark, smokey quartz bands hosting abundant (3%) very fine grained arsenopyrite.

Sample Number: K291630 UTM: 515695 mE Nad83, Zone 8
Elevation: 5421 m UTM: 6751019 mN

Comments: Float sample of rusty weathering, banded, limonitic quartz with sparse bands of fine grained pyrite dendritic manganese on fracture surfaces.

Sample Number: K292837 UTM: 516801 mE Nad83, Zone 8
Elevation: 5505 m UTM: 6755597 mN

Comments: Fist-sized float sample of white to grey, sugary quartz with sparse clots of chlorite, very fine grained chalcopryite and a dark metallic mineral. Collected in a scree slope under cliffs. Rock on site is not representative.

Sample Number: K292838 UTM: 516657 mE Nad83, Zone 8
Elevation: 5390 m UTM: 6755712 mN

Comments: Float sample of rusty brown to orange weathering, smokey quartz breccia with abundant clots of live limonite, rare fine grained chalcopryite, pyrite, and a silvery non-magnetic mineral. Collected in a talus slope at the base of massive gabbro cliffs that are cut by a vertical, pale grey, leucocratic dyke.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: K292839 UTM: 516203 mE Nad83, Zone 8
Elevation: 5984 m UTM: 6755870 mN

Comments: Float sampe of orange weathering, fractured and banded, milky white quartz, with rare pyrite, chalcopyrite and a dark silver metallic mineral (electrum?) in clots and within fractures. Collected one metre from sample K293320, in a talus slow and below a bleached leucocratic dyke.

Sample Number: K292840 UTM: 516229 mE Nad83, Zone 8
Elevation: 6004 m UTM: 6755867 mN

Comments: Float sample, collected from a 25x25x25cm boulder, comprising orange weathering, fractured and banded, milky white quartz, with sparse clots of very fine grained pyrite and a dark metallic mineral. Collected in a talus slope near a ridge top.

Sample Number: K292841 UTM: 516220 mE Nad83, Zone 8
Elevation: 5985 m UTM: 6755842 mN

Comments: Float sample, collected from a 45x25x25cm boulder, of rock with the same lithology as sample K292840, but with sparse clots of coarse grained galena. Collected along the top of a ridge, in an area of abundant quartz-carbonate breccia in float.

Sample Number: K292842 UTM: 516214 mE Nad83, Zone 8
Elevation: 5998 m UTM: 6755841 mN

Comments: Subcrop sample of orange weathering, limonitic, fractured quartz with sparse clots of pyrite and galena, and large vugs filled with sooty fine grained pyrite and very fine grained arsenopyrite. Collected at the bottom of a bleached leucocratic dyke, bearing 181/19 south, and 15-20 metres wide.

Sample Number: K292843 UTM: 516182 mE Nad83, Zone 8
Elevation: 5930 m UTM: 6755893 mN

Comments: Float grab of banded, orange weathering, quartz-carbonate, with smokey bands of silica hosting disseminated very fine grained arsenopyrite(?). Removed from a 40x30x20cm boulder in a talus slope, below a leucocratic dyke.

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: K293313 UTM: 516535 mE Nad83, Zone 8
Elevation: 5925 m UTM: 6757461 mN

Comments: Oranged stained exterior with tan-white interior slightly banded/sheeted. From fracture or vein between dark green-black outcrop/wallrock?

Sample Number: K293314 UTM: 516376 mE Nad83, Zone 8
Elevation: 5757 m UTM: 6757181 mN

Comments: Orange-tan weathered finely crystalline with rare quartz veins and minor quartz phenocrysts and rare black specks. From 5x10m orange stained talus below cliff of dark green-black cut by minor chlorite (?) veins

Sample Number: K293315 UTM: 516289 mE Nad83, Zone 8
Elevation: 5872 m UTM: 6757172 mN

Comments: Rusty red-orange dyke with orange (limonitic?) bands and coatings from a fracture/vein 3m wide

Sample Number: K293316 UTM: 515560 mE Nad83, Zone 8
Elevation: 6137 m UTM: 6756741 mN

Comments: Orange very fine grained heavily veined with dark orange (limonitic?) bands. From below orange outcrop of similar material (less veins) in a large structure trending approximately 335 (northwest-southeast)

Sample Number: K293317 UTM: 515482 mE Nad83, Zone 8
Elevation: 6179 m UTM: 6756614 mN

Comments: Orange stained very fine grained with minor orange coatings (limonitic?). Cut by millimetre quartz veins with rare fine grained disseminated chalcopryrite, rare fine red bands. Approximately 1m wide between dark green-grey fine grained rock.

Sample Number: K293318 UTM: 516310 mE Nad83, Zone 8
Elevation: 5490 m UTM: 6756005 mN

Comments: Grey-white fine grained siliceous-calcic (fizzes mildly to HCL) cobble with disseminated chalcopryrite and pyrite with small blebs/phenocrysts of quartz. From talus mix of fine grained dark grey volcanics and orange cobbles/pebbles. ~2% of material

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: K293319 UTM: 516171 mE Nad83, Zone 8
Elevation: 5864 m UTM: 6755914 mN

Comments: Orange weathered with very fine grained tan-brown interior cut by tan-orange quartz veins (mm-cm in size). Minor to rare chalcopyrite or pyrite. From possible outcrop in talus and outcrop of light grey plagioclase phenocrystic volcanic. Orange material is subcrop/talus approximately 5 x 5m in area. Taken from a possible piece of outcrop. Some orange boulders in the area are mildly to heavily brecciated (clast to matrix dominated). Fizzes mildly to HCL.

Sample Number: K293320 UTM: 516197 mE Nad83, Zone 8
Elevation: 5960 m UTM: 6755864 mN

Comments: Quartz boulder with minor/rare chalcopyrite, pyrite and rare galena. In talus/outcrop of orange, fine grained grey volcanics, and light grey plagioclase rich volcanics. In line with K293319

Sample Number: K293321 UTM: 516224 mE Nad83, Zone 8
Elevation: 6147 m UTM: 6755777 mN

Comments: 30cm wide quartz vein with dark green bands/veinlets and rare pyrite and chalcopyrite. Vein cuts through green-grey fine grained volcanics. In line with the orange weathered material of K293319 and K293320.

Sample Number: K293322 UTM: 517260 mE Nad83, Zone 8
Elevation: 5531 m UTM: 6756137 mN

Comments: Plagioclase pheric breccia clasts with dark orange matrix. No visible mineralization. Plagioclase is in pale grey angular clasts up to 5 cm in size. From float train of orange weathered rocks bounded by green-grey fine grained volcanics. ~5% of rocks in area.

Sample Number: K293323 UTM: 517321 mE Nad83, Zone 8
Elevation: 6019 m UTM: 6755851 mN

Comments: Dark green-black boulders with green-black-brown weathered surface. Rare fine grained chalcopyrite/pyrite. Inside is dark green-black with orange and green coatings, black-dark brown crumbly coatings and small fine grained black-brown crystals (powder is red-brown when scratched). From 15m wide saddle, maybe subcrop (?). Saddle is dominated by dark orange brecciated materials. This sample is ~1% of rocks in area.

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: K293324 UTM: 517323 mE Nad83, Zone 8
Elevation: 6023 m UTM: 6755843 mN

Comments: Dark orange-red to light orange weathered brecciated pebbles, boulders and subcrop/outcrop in the same saddle as K293323. No visible mineralization. No rep.

Sample Number: K293325 UTM: 517384 mE Nad83, Zone 8
Elevation: 5834 m UTM: 6755701 mN

Comments: Dark orange weathered fine grained rock with limonitic veins and dark brown-black oxide coatings. From talus on a vegetated slope, in a band of orange weathered rocks ~30m wide.

Sample Number: K293326 UTM: 517462 mE Nad83, Zone 8
Elevation: 5735 m UTM: 6755782 mN

Comments: 2 quartz boulders with limonitic coatings and rare dendritic patterns inside along fractures. Rare disseminated very fine grained sulphides (?). From float train of grey-green fine grained volcanics cut by minor quartz and chlorite veins. <1% of rocks in the float train.

Sample Number: K293327 UTM: 517689 mE Nad83, Zone 8
Elevation: 5271 m UTM: 6756500 mN

Comments: Orange weathered mildly brecciated unit cut by clear-white quartz and orange weathered limonitic veins/matrix. Bands of tan quartz (?). Rare finely disseminated sulphides and rare green mineral (malachite?). From 15m wide north facing gully composed of similarly weathered material. Orange weathered, mildly brecciated unit cut by white quartz veins and orange weathered limonitic matrix. Bands of tan quartz and rare finely disseminated sulphides and rare malachite (?). 15m wide north facing gully of similarly weathered material. Bounded on both sides by light to dark grey fine grained volcanics. No rep.

Sample Number: K293328 UTM: 517482 mE Nad83, Zone 8
Elevation: 5780 m UTM: 6755442 mN

Comments: Slightly banded quartz veined cobble with <1mm dark bands. In large debris chute of orange weathered brecciated rocks, light to dark grey plagioclase rich rocks, dark grey and oxidized boulders. Minor chalcopyrite observed in sample. No rep

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: K293329 UTM: 517467 mE Nad83, Zone 8
Elevation: 5818 m UTM: 6755420 mN

Comments: Quartz vein on edge of dark green-black massive volcanic unit. Chalcopyrite and rare pyrite. Vein outcrops for 3m and has strike/dip of 194/53. Vein is approximately 30 cm thick.

Sample Number: K293330 UTM: 517491 mE Nad83, Zone 8
Elevation: 5912 m UTM: 6755378 mN

Comments: Massive quartz boulder with oxidized staining/coatings, blebs of dark brown-black oxidized material, pyrite, chalcopyrite and dark grey veinlets. Along same vein as K293329. Vein is covered by talus of light grey plagioclase-rich dyke material and dark green-black rusty volcanic units. No rep.

Sample Number: K293331 UTM: 517492 mE Nad83, Zone 8
Elevation: m UTM: 6755362 mN

Comments: Massive quartz boulder from the top of K293329, K293330 quartz vein (continues uphill but unsafe to follow). Vein is up to 50 cm wide and contains minor chalcopyrite and pyrite. A small 5cm quartz vein cuts through light grey fine grained volcanic unit, which hosts rare pyrite and chalcopyrite. No rep

Sample Number: K293332 UTM: 518098 mE Nad83, Zone 8
Elevation: 5215 m UTM: 6755732 mN

Comments: Massive quartz boulder with slight tan weathered surface and a faint green tint internally, rare sulphides/pyrite/chalcopyrite and black oxidized blebs/flakes. From talus of grey-black massive-to-fine grained volcanic unit which is cut by chlorite-epidote(?) veins. No rep

Sample Number: K293333 UTM: 518110 mE Nad83, Zone 8
Elevation: 5213 m UTM: 6755723 mN

Comments: Quartz boulder with minor chalcopyrite/pyrite and black blebs of an unidentified mineral, rare green (malachite?) staining. From above K293332 in talus. No rep

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: K293334 UTM: 518132 mE Nad83, Zone 8
Elevation: 5251 m UTM: 6755741 mN

Comments: Quartz vein and boulders with malachite and rare azurite coatings cutting through dark green volcanic unit. Minor limonitic staining in quartz vein. No rep

Sample Number: K293335 UTM: 518069 mE Nad83, Zone 8
Elevation: 5052 m UTM: 6755801 mN

Comments: Orange-red cobble with quartz veins/bands with open cavities rarely filled by a pale pink mineral. Rare chalcopryrite, pyrite, and sulphides(?). 1% of material of talus dominated by dark grey-black fine grained pyroxene and plagioclase rich volcanic unit. No rep.

Sample Number: K293336 UTM: 518171 mE Nad83, Zone 8
Elevation: 5240 m UTM: 6755896 mN

Comments: Orange limonitic cobble in 2m wide fracture. Light pale green crystalline inside with orange weathered matrix/coatings. Rare disseminated chalcopryrite/pyrite. ~1% of rock, rest is green-grey plagioclase and pyroxene rich volcanic unit rockfall

Sample Number: K293337 UTM: 518301 mE Nad83, Zone 8
Elevation: 5373 m UTM: 6756010 mN

Comments: Quartz vein ~20cm thick. Steeply dipping to the south. Rare malachite?

Sample Number: K293338 UTM: 518358 mE Nad83, Zone 8
Elevation: 5438 m UTM: 6756024 mN

Comments: Boulders of quartz vein with dark to light green clasts/inclusions (volcanic unit?). Rare disseminated chalcopryrite/pyrite. 5% of float. Some clasts have bright orange-red rusty surfaces. Some boulders have drusy quartz or comb-like textures. Vein outcrops approximately 20m uphill to the east.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: W420570 UTM: 517608 mE Nad83, Zone 8
Elevation: 5607 m UTM: 6752903 mN

Comments: Subcrop sample of rusty weathering quartz, with moderate clots of medium to coarse grained pyrite and dark black oxide(?), as well as trace malachite in hairline fractures. Collected immediately below a 10cm wide, shallowly dipping, quartz vein that cuts volcanic mudstone.

Sample Number: W420571 UTM: 517591 mE Nad83, Zone 8
Elevation: 5679 m UTM: 6752906 mN

Comments: 15cm chip sample across orange-brown weathering, banded quartz, with clots of chlorite and rare pyrite. Taken across the same vein as samples W420570 and K282986. No rep.

Sample Number: W420572 UTM: 517583 mE Nad83, Zone 8
Elevation: 5676 m UTM: 6752907 mN

Comments: Outcrop sample, collected along the same vein as samples W420570 and K282986, of strongly orange-red weathering, banded quartz with sparse clots of coarse grained pyrite throughout. No rep.

APPENDIX IV
CERTIFICATES OF ANALYSIS



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

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LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Page: 1
Total # Pages: 5 (A - D)
Plus Appendix Pages
Finalized Date: 7- OCT- 2017
Account: MTT

CERTIFICATE WH17197001

Project: Hartless Joe

This report is for 125 Soil samples submitted to our lab in Whitehorse, YT, Canada on 13- SEP- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JOAN MARIACHER	JACK MORTON
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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



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Page: 2 - A
 Total # Pages: 5 (A - D)
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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17197001

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
ZZ123431		0.33	0.02	1.72	5.8	<0.02	<10	80	0.29	0.14	0.17	0.10	15.65	9.6	49	1.31
ZZ123432		0.22	0.10	2.08	5.8	<0.02	<10	80	0.47	0.13	1.38	0.21	17.40	12.7	54	2.10
ZZ123433		0.28	0.03	1.29	3.5	<0.02	<10	50	0.19	0.11	0.10	0.14	12.45	6.3	31	0.98
ZZ123434		0.30	0.07	2.03	4.0	<0.02	<10	60	0.39	0.13	0.14	0.21	15.00	8.2	45	1.31
ZZ123435		0.25	0.04	1.39	3.5	<0.02	<10	40	0.18	0.11	0.08	0.12	9.92	6.2	33	0.95
ZZ123436		0.34	0.03	1.92	5.2	<0.02	<10	80	0.33	0.10	0.21	0.12	16.30	13.0	56	1.02
ZZ123437		0.24	0.14	1.49	3.1	<0.02	<10	70	0.26	0.07	0.25	0.19	14.30	7.0	30	0.77
ZZ123438		0.36	0.05	1.89	4.9	<0.02	<10	80	0.31	0.09	0.21	0.09	14.10	10.6	52	0.93
ZZ123439		0.39	0.09	2.00	5.2	<0.02	<10	110	0.31	0.07	0.40	0.10	16.75	14.6	64	0.81
ZZ123440		0.35	0.04	2.29	5.9	<0.02	<10	90	0.33	0.12	0.23	0.11	16.40	10.5	58	1.14
ZZ123441		0.28	0.06	2.00	3.7	<0.02	<10	100	0.31	0.14	0.22	0.09	14.55	8.0	48	1.59
ZZ123442		0.23	0.07	1.56	2.7	<0.02	<10	70	0.27	0.08	0.25	0.15	10.90	6.9	36	0.90
ZZ123443		0.33	0.05	1.93	4.5	<0.02	<10	60	0.31	0.10	0.16	0.13	13.70	9.2	48	1.05
ZZ123444		0.37	0.06	2.14	5.8	<0.02	<10	110	0.36	0.12	0.35	0.14	15.80	13.3	61	1.25
ZZ123445		0.27	0.05	2.07	5.4	<0.02	<10	70	0.36	0.11	0.18	0.13	15.90	10.8	55	1.03
ZZ123446		0.27	0.06	1.83	4.9	<0.02	<10	100	0.26	0.12	0.17	0.13	12.95	9.0	52	1.06
ZZ123447		0.21	0.05	2.19	5.4	<0.02	<10	70	0.36	0.11	0.15	0.16	17.55	9.2	49	1.07
ZZ123448		0.28	0.03	1.20	5.0	<0.02	<10	90	0.16	0.15	0.19	0.12	12.25	7.5	41	1.06
ZZ123449		0.19	0.05	1.75	5.2	<0.02	<10	70	0.28	0.09	0.18	0.13	13.95	10.1	48	0.91
ZZ123450		0.27	0.05	2.19	5.2	<0.02	<10	90	0.36	0.10	0.15	0.14	13.45	9.2	50	1.04
ZZ123451		0.25	0.09	1.88	5.1	<0.02	<10	60	0.28	0.08	0.14	0.14	10.65	9.0	46	0.83
ZZ123452		0.26	0.09	1.38	5.8	<0.02	<10	70	0.23	0.14	0.13	0.12	11.85	8.4	39	1.10
ZZ123453		0.26	0.06	1.48	5.5	0.03	<10	70	0.30	0.15	0.15	0.13	15.35	6.6	36	0.94
ZZ123454		0.27	0.10	1.22	3.3	<0.02	<10	70	0.24	0.13	0.11	0.13	11.00	4.1	26	0.90
ZZ123455		0.23	0.03	1.47	4.2	<0.02	<10	60	0.27	0.13	0.10	0.11	13.15	6.9	36	0.92
ZZ123457		0.22	0.09	1.65	4.2	<0.02	<10	70	0.32	0.09	0.15	0.24	13.50	7.2	42	0.85
ZZ123458		0.33	0.07	1.91	4.3	<0.02	<10	90	0.32	0.09	0.16	0.14	15.40	8.0	46	0.83
ZZ123459		0.25	0.08	1.56	4.1	0.02	<10	80	0.28	0.08	0.12	0.12	12.45	7.9	39	0.84
ZZ123460		0.12	0.11	1.03	2.6	<0.02	<10	50	0.16	0.07	0.09	0.16	7.48	4.1	24	0.57
ZZ123461		0.27	0.06	2.33	5.7	<0.02	<10	80	0.40	0.07	0.22	0.16	14.05	10.9	58	0.82
ZZ123462		0.25	0.11	1.52	4.1	<0.02	<10	70	0.25	0.10	0.12	0.29	10.60	8.0	40	0.91
ZZ123463		0.21	0.05	1.67	3.8	<0.02	<10	90	0.31	0.11	0.12	0.13	11.95	7.6	42	0.98
ZZ123464		0.23	0.14	1.46	3.9	<0.02	<10	70	0.25	0.11	0.10	0.22	10.50	6.5	38	0.80
ZZ123465		0.20	0.09	1.90	4.6	<0.02	<10	80	0.36	0.12	0.14	0.18	15.25	8.0	44	0.94
ZZ123466		0.30	0.08	2.14	6.1	<0.02	<10	80	0.38	0.07	0.19	0.18	15.95	9.9	47	0.77
ZZ123467		0.23	0.13	1.70	4.7	<0.02	<10	70	0.27	0.07	0.20	0.14	12.90	8.5	45	0.78
ZZ123468		0.34	0.05	1.79	5.2	<0.02	<10	70	0.31	0.08	0.18	0.11	13.35	9.2	48	0.82
ZZ123469		0.25	0.08	1.87	5.3	<0.02	<10	80	0.36	0.09	0.19	0.25	15.20	9.2	46	0.90
ZZ123470		0.14	0.14	0.94	2.4	<0.02	<10	60	0.21	0.07	0.06	0.14	5.89	3.9	23	0.72
ZZ123471		0.20	0.04	1.65	5.0	<0.02	<10	70	0.22	0.10	0.14	0.14	11.65	8.0	46	0.95



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH17197001

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
ZZ123431		19.6	2.68	6.61	0.09	0.05	0.02	0.017	0.06	7.6	9.0	0.71	356	0.66	<0.01	1.43
ZZ123432		36.3	2.78	5.85	0.09	0.06	0.04	0.024	0.06	8.6	8.2	0.76	629	0.67	<0.01	0.76
ZZ123433		15.5	1.81	5.38	0.09	0.05	0.02	0.015	0.04	5.9	5.2	0.41	219	0.62	<0.01	0.84
ZZ123434		20.5	2.38	6.91	0.10	0.04	0.04	0.021	0.06	7.8	8.4	0.62	348	0.58	<0.01	0.79
ZZ123435		13.7	1.97	5.77	0.09	0.04	0.03	0.017	0.04	5.1	4.5	0.35	344	0.66	<0.01	0.76
ZZ123436		28.0	2.72	6.54	0.10	0.05	0.02	0.019	0.06	8.5	9.3	0.86	485	0.64	<0.01	0.95
ZZ123437		23.7	1.67	4.39	0.10	0.04	0.02	0.014	0.05	10.2	5.1	0.46	236	0.47	0.01	0.43
ZZ123438		24.5	2.42	5.63	0.09	0.04	0.02	0.018	0.06	7.0	8.1	0.73	381	0.61	0.01	0.63
ZZ123439		37.8	2.77	5.39	0.11	0.06	0.01	0.018	0.07	8.2	9.4	1.00	548	0.45	0.01	0.67
ZZ123440		21.0	2.90	7.12	0.10	0.06	0.02	0.023	0.05	8.5	9.6	0.75	344	0.85	<0.01	1.38
ZZ123441		24.2	2.31	6.76	0.09	0.04	0.03	0.020	0.04	7.3	7.5	0.63	398	0.61	<0.01	0.87
ZZ123442		15.6	1.79	4.87	0.09	0.04	0.03	0.016	0.04	5.5	6.1	0.53	350	0.47	0.01	0.51
ZZ123443		21.3	2.31	5.87	0.10	0.05	0.02	0.018	0.05	7.0	7.5	0.64	382	0.57	<0.01	0.94
ZZ123444		28.8	3.15	6.85	0.09	0.05	0.02	0.023	0.08	8.2	10.4	0.95	527	0.68	0.01	0.97
ZZ123445		24.0	2.61	6.27	0.10	0.05	0.04	0.021	0.05	8.0	8.6	0.74	396	0.66	<0.01	0.76
ZZ123446		21.7	2.55	6.60	0.09	0.04	0.03	0.022	0.06	6.7	7.2	0.65	343	0.63	<0.01	0.77
ZZ123447		22.9	2.51	6.38	0.10	0.05	0.03	0.023	0.06	9.0	8.3	0.65	312	0.82	0.01	0.86
ZZ123448		13.9	2.47	6.89	0.09	0.05	0.01	0.016	0.08	6.4	5.2	0.52	374	0.71	<0.01	1.75
ZZ123449		23.6	2.48	5.86	0.10	0.05	0.02	0.018	0.06	7.1	8.6	0.68	463	0.66	0.01	0.70
ZZ123450		24.6	2.56	6.17	0.09	0.04	0.03	0.020	0.07	6.8	8.6	0.61	374	0.68	0.01	0.89
ZZ123451		24.5	2.46	5.92	0.10	0.05	0.04	0.018	0.06	5.5	7.3	0.58	366	0.62	0.01	0.69
ZZ123452		13.2	2.42	6.19	0.09	0.04	0.02	0.018	0.07	6.0	6.5	0.47	574	1.12	<0.01	1.00
ZZ123453		13.8	2.45	5.55	0.09	0.04	0.02	0.022	0.08	7.0	7.2	0.49	298	0.65	<0.01	0.91
ZZ123454		11.6	1.61	5.48	0.10	0.04	0.03	0.015	0.05	5.8	4.6	0.32	268	0.67	0.01	0.81
ZZ123455		14.0	2.10	5.74	0.09	0.04	0.03	0.019	0.06	6.5	5.9	0.46	325	0.70	<0.01	0.89
ZZ123457		15.3	2.12	5.16	0.10	0.04	0.03	0.018	0.05	7.5	7.0	0.50	304	0.67	<0.01	0.55
ZZ123458		21.4	2.15	5.36	0.10	0.04	0.04	0.021	0.04	7.4	11.9	0.56	296	0.69	0.01	0.49
ZZ123459		17.7	2.02	5.00	0.09	0.04	0.03	0.018	0.05	6.0	6.7	0.50	313	0.60	0.01	0.47
ZZ123460		15.6	1.41	3.95	<0.05	<0.02	0.03	0.012	0.04	3.9	3.3	0.29	211	1.04	0.02	0.30
ZZ123461		23.8	2.66	5.76	<0.05	0.03	0.03	0.020	0.09	7.0	10.9	0.72	307	0.58	0.02	0.75
ZZ123462		15.8	2.07	5.65	<0.05	<0.02	0.04	0.017	0.05	5.5	6.5	0.45	449	0.65	0.02	0.45
ZZ123463		14.6	2.07	5.76	<0.05	<0.02	0.03	0.016	0.04	5.8	7.1	0.45	364	0.88	0.01	0.55
ZZ123464		15.1	2.08	6.06	<0.05	0.02	0.05	0.016	0.05	5.3	5.2	0.41	430	0.79	0.01	0.65
ZZ123465		17.9	2.22	5.97	<0.05	<0.02	0.04	0.021	0.07	8.0	9.1	0.58	321	0.54	0.02	0.56
ZZ123466		24.4	2.40	5.17	<0.05	0.02	0.03	0.020	0.07	8.1	9.6	0.69	296	0.45	0.02	0.59
ZZ123467		20.2	2.22	5.52	<0.05	0.02	0.03	0.017	0.06	6.7	8.7	0.62	279	0.67	0.02	0.50
ZZ123468		21.3	2.40	5.89	<0.05	0.02	0.03	0.017	0.05	7.1	10.0	0.71	299	0.49	0.02	0.71
ZZ123469		20.5	2.34	5.82	<0.05	<0.02	0.04	0.020	0.08	8.0	9.9	0.62	365	0.59	0.02	0.55
ZZ123470		10.0	1.25	3.44	<0.05	<0.02	0.04	0.011	0.04	2.7	2.4	0.19	687	0.77	0.02	0.16
ZZ123471		15.2	2.43	6.33	<0.05	0.02	0.04	0.018	0.06	6.0	9.3	0.63	380	0.61	0.02	0.90



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

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Sample Description	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	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	0.01	0.01	0.2	0.005	
ZZ123431	24.7	300	5.9	10.0	<0.001	0.02	0.32	3.3	0.3	0.5	12.6	<0.01	0.04	1.0	0.130	
ZZ123432	28.5	1670	5.9	9.6	<0.001	0.13	0.34	2.3	1.0	0.3	28.4	0.01	0.03	0.4	0.039	
ZZ123433	14.0	340	4.3	6.5	<0.001	0.03	0.22	1.3	0.4	0.4	9.5	<0.01	0.04	0.2	0.088	
ZZ123434	19.6	640	5.3	10.0	<0.001	0.06	0.25	1.4	0.7	0.5	12.0	<0.01	0.04	<0.2	0.072	
ZZ123435	12.3	440	4.3	5.8	<0.001	0.04	0.26	1.0	0.6	0.4	7.5	<0.01	0.03	<0.2	0.073	
ZZ123436	32.4	420	4.8	7.3	<0.001	0.03	0.33	2.9	0.5	0.4	13.7	<0.01	0.04	0.5	0.121	
ZZ123437	15.8	860	2.9	4.8	<0.001	0.06	0.19	1.3	0.5	0.2	14.9	<0.01	0.03	<0.2	0.051	
ZZ123438	27.2	610	4.6	7.2	<0.001	0.05	0.28	2.0	0.5	0.3	12.0	<0.01	0.03	0.2	0.080	
ZZ123439	38.1	560	3.7	6.8	<0.001	0.02	0.27	5.6	0.4	0.2	16.8	<0.01	0.04	1.1	0.104	
ZZ123440	25.6	470	5.7	6.5	<0.001	0.01	0.33	5.1	0.6	0.5	12.4	<0.01	0.03	1.3	0.128	
ZZ123441	21.9	640	4.9	6.4	<0.001	0.06	0.26	1.7	0.5	0.5	13.3	<0.01	0.03	<0.2	0.082	
ZZ123442	16.6	710	3.1	5.7	<0.001	0.06	0.19	1.1	0.4	0.3	11.9	<0.01	0.02	<0.2	0.059	
ZZ123443	24.1	460	4.4	8.3	<0.001	0.03	0.30	2.4	0.5	0.4	11.7	<0.01	0.03	0.3	0.106	
ZZ123444	33.1	470	5.3	9.7	<0.001	0.03	0.34	3.6	0.4	0.4	15.7	<0.01	0.04	0.4	0.108	
ZZ123445	27.7	570	4.9	6.7	<0.001	0.03	0.31	2.0	0.5	0.4	12.1	<0.01	0.03	<0.2	0.076	
ZZ123446	24.2	520	5.2	7.5	<0.001	0.05	0.32	1.7	0.5	0.4	14.4	<0.01	0.04	<0.2	0.079	
ZZ123447	24.0	550	4.9	5.8	<0.001	0.04	0.31	2.0	0.6	0.4	11.2	<0.01	0.03	0.2	0.079	
ZZ123448	15.6	250	5.5	19.4	<0.001	0.01	0.32	3.0	0.3	0.6	15.0	<0.01	0.04	0.8	0.156	
ZZ123449	24.8	550	4.0	6.0	<0.001	0.05	0.34	2.0	0.5	0.3	12.1	<0.01	0.03	0.2	0.084	
ZZ123450	21.7	530	4.7	8.1	<0.001	0.05	0.39	2.2	0.5	0.4	11.8	<0.01	0.04	0.2	0.089	
ZZ123451	18.4	530	3.9	6.3	<0.001	0.04	0.30	1.8	0.7	0.3	9.9	<0.01	0.04	<0.2	0.097	
ZZ123452	14.5	510	6.3	12.2	<0.001	0.03	0.34	1.6	0.4	0.5	12.3	<0.01	0.03	0.2	0.103	
ZZ123453	15.2	360	5.1	8.8	<0.001	0.03	0.30	2.0	0.4	0.4	13.9	<0.01	0.03	0.3	0.088	
ZZ123454	9.9	390	4.8	7.3	<0.001	0.03	0.25	1.1	0.4	0.4	12.2	<0.01	0.04	<0.2	0.077	
ZZ123455	15.0	350	6.2	8.2	<0.001	0.02	0.29	2.1	0.4	0.4	9.2	<0.01	0.03	0.3	0.097	
ZZ123457	16.8	670	4.0	5.9	<0.001	0.06	0.25	1.1	0.5	0.3	11.4	<0.01	0.03	<0.2	0.055	
ZZ123458	18.8	770	3.5	3.4	<0.001	0.07	0.22	1.4	0.7	0.3	12.6	<0.01	0.03	<0.2	0.050	
ZZ123459	15.9	590	3.4	6.4	<0.001	0.05	0.24	1.2	0.5	0.3	9.4	<0.01	0.03	<0.2	0.058	
ZZ123460	12.8	560	4.9	6.4	0.001	0.07	0.20	0.4	0.2	0.2	8.8	<0.01	0.01	<0.2	0.035	
ZZ123461	25.3	480	4.5	6.9	<0.001	0.06	0.29	2.4	0.6	0.3	14.1	<0.01	0.02	0.2	0.111	
ZZ123462	16.1	780	5.0	9.2	<0.001	0.09	0.29	0.6	0.3	0.4	10.7	<0.01	0.02	<0.2	0.042	
ZZ123463	15.4	620	4.7	8.0	<0.001	0.06	0.26	1.0	0.4	0.4	11.3	<0.01	0.02	<0.2	0.058	
ZZ123464	15.0	780	4.5	8.7	<0.001	0.09	0.30	0.9	0.3	0.5	10.5	<0.01	0.02	<0.2	0.065	
ZZ123465	18.7	640	4.9	8.5	<0.001	0.07	0.30	1.2	0.3	0.4	11.6	<0.01	0.03	<0.2	0.062	
ZZ123466	22.8	530	4.0	5.2	<0.001	0.05	0.36	2.4	0.3	0.2	12.1	<0.01	0.01	0.3	0.087	
ZZ123467	20.2	490	4.0	5.3	<0.001	0.05	0.28	1.9	0.3	0.3	13.9	<0.01	0.02	<0.2	0.075	
ZZ123468	21.9	340	4.1	6.3	<0.001	0.03	0.29	2.6	0.2	0.3	10.7	<0.01	0.02	0.2	0.113	
ZZ123469	20.3	660	4.3	7.4	<0.001	0.05	0.31	1.6	0.3	0.3	13.6	<0.01	0.02	<0.2	0.066	
ZZ123470	7.9	1100	3.0	9.6	<0.001	0.10	0.22	0.2	0.4	0.2	7.6	<0.01	0.02	<0.2	0.008	
ZZ123471	18.2	350	5.1	8.6	<0.001	0.03	0.28	2.3	0.3	0.4	10.4	<0.01	0.02	0.3	0.118	



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

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Sample Description	Method Analyte Units 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
ZZ123431		0.07	0.43	68	0.27	3.89	49	0.9	0.001
ZZ123432		0.07	1.52	70	0.16	10.25	59	0.8	<0.001
ZZ123433		0.06	0.43	48	0.18	2.19	35	0.6	<0.001
ZZ123434		0.08	0.61	58	0.18	4.60	54	<0.5	<0.001
ZZ123435		0.07	0.46	54	0.16	2.08	34	0.5	0.003
ZZ123436		0.06	0.47	67	0.22	5.14	48	0.9	<0.001
ZZ123437		0.06	0.71	46	0.13	11.70	34	<0.5	<0.001
ZZ123438		0.06	0.46	64	0.16	4.43	40	0.5	0.003
ZZ123439		0.06	0.41	70	0.18	7.48	50	0.9	0.002
ZZ123440		0.11	0.53	77	0.28	4.94	45	0.8	0.001
ZZ123441		0.10	0.50	62	0.16	3.81	43	0.5	0.002
ZZ123442		0.07	0.41	47	0.13	2.65	35	<0.5	0.001
ZZ123443		0.06	0.42	60	0.19	4.27	43	0.7	0.002
ZZ123444		0.07	0.56	74	0.21	6.47	61	0.7	<0.001
ZZ123445		0.08	0.53	68	0.19	5.04	48	0.5	0.001
ZZ123446		0.08	0.51	69	0.19	3.79	47	0.5	0.003
ZZ123447		0.08	0.57	62	0.19	5.70	47	0.6	0.001
ZZ123448		0.06	0.33	70	0.24	2.41	54	0.9	0.001
ZZ123449		0.06	0.47	63	0.16	4.62	50	0.6	0.001
ZZ123450		0.08	0.49	67	0.21	5.17	52	0.6	0.001
ZZ123451		0.07	0.46	66	0.17	4.30	42	0.6	0.001
ZZ123452		0.06	0.51	62	0.19	3.51	49	0.5	0.001
ZZ123453		0.05	0.47	50	0.20	4.01	53	0.5	0.001
ZZ123454		0.05	0.55	46	0.16	3.51	39	<0.5	<0.001
ZZ123455		0.06	0.52	56	0.18	3.40	41	0.5	0.001
ZZ123457		0.06	0.54	53	0.14	6.52	42	<0.5	0.001
ZZ123458		0.06	0.79	58	0.13	7.69	51	<0.5	<0.001
ZZ123459		0.06	0.45	54	0.18	4.67	38	<0.5	0.002
ZZ123460		0.04	0.39	37	0.10	2.08	34	<0.5	0.001
ZZ123461		0.07	0.53	67	0.21	6.55	45	0.8	0.009
ZZ123462		0.07	0.54	56	0.16	2.87	47	<0.5	0.023
ZZ123463		0.07	0.55	57	0.16	3.67	35	0.5	<0.001
ZZ123464		0.07	0.57	56	0.15	2.82	44	0.5	<0.001
ZZ123465		0.08	0.57	55	0.19	5.98	50	<0.5	0.001
ZZ123466		0.07	0.50	61	0.19	6.68	43	0.7	0.002
ZZ123467		0.06	0.48	58	0.16	5.14	39	0.5	0.001
ZZ123468		0.06	0.44	66	0.18	4.91	45	0.7	0.002
ZZ123469		0.07	0.58	60	0.18	5.13	49	<0.5	0.002
ZZ123470		0.05	0.51	38	0.11	1.65	24	<0.5	<0.001
ZZ123471		0.06	0.39	68	0.23	3.35	47	0.7	0.001



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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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
ZZ123472		0.26	0.09	1.87	5.5	<0.02	<10	90	0.27	0.08	0.17	0.12	13.70	9.7	46	0.94
ZZ123473		0.27	0.05	1.78	4.6	<0.02	<10	100	0.25	0.08	0.19	0.11	10.35	11.3	55	1.03
ZZ123474		0.29	0.07	2.17	6.8	<0.02	<10	110	0.32	0.10	0.19	0.10	14.35	12.4	60	1.30
ZZ123475		0.23	0.17	1.64	4.8	<0.02	<10	110	0.25	0.10	0.19	0.12	12.30	9.6	48	1.27
ZZ123476		0.24	0.10	1.76	3.9	<0.02	<10	80	0.30	0.07	0.16	0.21	11.70	8.5	44	0.90
ZZ123477		0.15	0.08	1.09	3.0	<0.02	<10	90	0.24	0.09	0.13	0.18	8.49	10.2	28	0.86
ZZ123478		0.14	0.17	1.37	3.0	<0.02	<10	80	0.27	0.09	0.13	0.24	8.83	4.9	30	0.80
ZZ123479		0.27	0.06	1.68	4.5	<0.02	<10	120	0.32	0.10	0.23	0.32	12.60	10.9	45	1.21
ZZ123480		0.38	0.12	2.10	19.9	<0.02	<10	90	0.33	0.13	0.41	0.19	14.00	28.5	56	3.35
ZZ123481		0.32	0.22	2.75	13.4	0.03	<10	130	0.49	0.19	0.30	0.29	22.2	47.0	58	3.62
ZZ123482		0.28	0.04	1.72	9.8	<0.02	<10	60	0.30	0.15	0.19	0.08	16.40	11.3	46	2.39
ZZ123483		0.48	0.09	2.11	8.9	<0.02	<10	90	0.42	0.15	0.31	0.14	20.3	20.5	47	1.80
ZZ123484		0.45	0.17	2.95	3.7	<0.02	<10	370	0.64	0.16	1.22	0.30	25.6	33.0	98	3.03
ZZ123485		0.49	0.14	2.47	3.6	<0.02	<10	310	0.68	0.11	1.10	0.19	27.9	21.5	57	2.97
ZZ123486		0.51	0.15	2.62	4.4	<0.02	<10	250	0.63	0.12	1.09	0.22	29.6	29.1	74	3.06
ZZ123487		0.30	0.39	3.08	30.8	<0.02	<10	180	0.53	0.14	0.89	0.77	19.55	57.4	87	7.63
ZZ123488		0.63	0.36	2.87	19.9	<0.02	<10	90	0.42	0.14	0.71	2.21	16.55	75.7	43	5.01
ZZ123489		0.50	0.36	2.80	33.8	0.02	<10	120	0.39	0.12	0.69	0.92	13.40	64.9	54	6.03
ZZ123490		0.51	0.33	2.75	29.5	<0.02	<10	90	0.35	0.11	0.86	1.44	13.45	59.5	62	5.91
ZZ123791		0.08	1.29	1.84	170.5	0.03	<10	80	0.51	0.14	0.66	1.56	16.85	23.9	42	5.39
ZZ123792		0.05	0.55	1.90	74.9	<0.02	<10	100	0.43	0.15	1.28	1.83	14.95	26.2	68	5.58
ZZ123793		0.10	0.23	2.95	17.6	<0.02	<10	90	0.25	0.05	0.52	0.84	9.80	28.0	178	3.58
ZZ123794		0.08	0.14	0.70	3.5	<0.02	10	70	0.13	0.05	3.05	4.43	5.02	5.6	36	0.42
ZZ123795		0.17	0.33	2.41	109.5	0.05	<10	70	0.32	0.07	0.48	0.87	15.45	24.9	100	2.22
ZZ123796		0.08	0.13	1.53	6.6	<0.02	<10	70	0.17	0.08	0.36	0.27	6.99	10.8	27	1.49
ZZ123797		0.07	0.31	3.86	8.6	<0.02	<10	40	0.22	0.04	1.17	2.00	6.20	26.8	229	2.25
ZZ123798		0.17	0.19	4.25	9.9	<0.02	<10	40	0.19	0.04	0.58	0.77	6.62	32.7	273	3.07
ZZ123799		0.10	0.17	1.78	8.9	<0.02	<10	60	0.28	0.08	0.94	0.82	11.25	18.6	77	1.20
ZZ123800		0.06	0.25	1.56	8.4	<0.02	<10	110	0.36	0.09	1.24	1.07	19.00	16.0	57	0.95
ZZ123801		0.09	0.27	2.46	10.7	<0.02	<10	70	0.43	0.16	0.32	0.35	16.95	22.1	87	2.60
ZZ123802		0.04	0.10	0.38	1.9	<0.02	<10	150	0.10	0.05	0.78	1.09	4.32	5.2	12	0.42
ZZ123803		0.59	0.19	2.35	6.8	<0.02	<10	110	0.38	0.17	0.61	0.29	14.80	41.0	64	5.42
ZZ123804		0.47	0.07	1.26	4.5	<0.02	<10	80	0.31	0.08	0.55	0.19	18.60	15.4	33	1.08
ZZ123805		0.44	0.10	2.04	5.8	<0.02	<10	90	0.38	0.13	0.33	0.16	20.6	13.1	36	1.38
ZZ123806		0.35	0.06	2.17	5.4	<0.02	<10	80	0.43	0.14	0.16	0.15	18.60	9.1	34	1.33
ZZ123807		0.26	0.08	1.80	5.2	<0.02	<10	90	0.31	0.13	0.15	0.11	16.50	8.1	35	1.15
ZZ123808		0.27	0.05	2.19	13.3	<0.02	<10	90	0.38	0.13	0.22	0.13	15.80	12.9	46	1.17
ZZ123809		0.37	0.10	1.77	14.9	<0.02	<10	90	0.29	0.14	0.22	0.14	14.40	17.2	40	1.44
ZZ123810		0.40	0.07	2.17	8.8	<0.02	<10	60	0.33	0.17	0.23	0.09	16.90	20.9	33	2.46
ZZ123811		0.47	0.06	2.68	12.2	<0.02	<10	100	0.55	0.15	0.26	0.12	19.15	18.9	49	1.39



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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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
ZZ123472	27.2	2.44	5.93	<0.05	0.02	0.03	0.019	0.07	7.1	9.9	0.69	316	0.59	0.02	0.61
ZZ123473	30.8	2.85	7.27	<0.05	0.02	0.02	0.021	0.07	5.3	10.5	0.76	555	0.62	0.02	0.71
ZZ123474	37.4	3.26	7.86	<0.05	0.02	0.04	0.027	0.09	7.5	13.0	0.88	392	0.63	0.02	0.87
ZZ123475	26.9	2.38	6.58	<0.05	0.02	0.03	0.021	0.07	6.4	9.4	0.67	306	0.70	0.02	0.88
ZZ123476	26.9	2.33	5.84	<0.05	<0.02	0.04	0.018	0.07	5.8	7.8	0.58	494	0.57	0.02	0.44
ZZ123477	14.0	1.77	4.93	<0.05	<0.02	0.04	0.012	0.05	4.0	4.4	0.33	1430	0.80	0.02	0.32
ZZ123478	16.3	1.82	4.78	<0.05	<0.02	0.06	0.014	0.05	4.7	4.9	0.36	334	0.58	0.01	0.31
ZZ123479	30.3	2.42	6.08	<0.05	<0.02	0.03	0.020	0.10	6.2	9.3	0.63	1000	0.77	0.02	0.42
ZZ123480	332	4.50	6.81	<0.05	<0.02	0.04	0.029	0.05	6.6	12.4	0.95	526	1.56	0.03	0.50
ZZ123481	528	5.56	7.56	0.05	0.02	0.04	0.031	0.07	9.6	14.5	1.18	727	0.98	0.03	0.87
ZZ123482	63.1	3.00	6.69	<0.05	<0.02	0.06	0.023	0.05	7.5	12.2	0.69	308	1.03	0.02	0.90
ZZ123483	94.2	3.48	6.78	<0.05	<0.02	0.04	0.025	0.05	9.6	12.3	0.78	446	1.08	0.03	0.74
ZZ123484	85.1	3.82	8.46	0.06	0.07	0.03	0.029	0.06	13.5	15.5	1.73	919	0.97	0.03	0.32
ZZ123485	57.7	3.62	7.31	0.06	0.06	0.01	0.030	0.07	15.7	11.5	1.18	599	0.61	0.03	0.25
ZZ123486	77.4	3.71	7.73	0.06	0.05	0.02	0.032	0.06	15.1	13.5	1.34	813	1.04	0.03	0.33
ZZ123487	279	6.18	10.60	0.07	0.05	0.04	0.053	0.05	9.3	23.7	2.44	1330	0.91	0.06	0.34
ZZ123488	251	8.78	12.05	0.07	0.05	0.06	0.077	0.04	7.4	17.9	1.94	2630	1.61	0.04	0.27
ZZ123489	246	6.94	9.83	0.08	0.06	0.03	0.054	0.05	6.1	19.1	1.92	1560	0.87	0.06	0.23
ZZ123490	264	6.07	9.65	0.07	0.05	0.03	0.044	0.06	6.2	19.4	1.88	1160	1.12	0.07	0.32
ZZ123791	129.0	5.02	4.70	0.06	0.04	0.06	0.046	0.06	12.3	13.7	1.02	996	3.57	0.02	0.38
ZZ123792	118.0	4.67	4.85	0.05	0.08	0.09	0.048	0.07	11.9	13.0	1.16	1220	2.90	0.02	0.40
ZZ123793	107.5	4.99	8.51	0.12	0.05	0.02	0.037	0.08	6.5	19.5	2.79	916	1.26	0.02	0.31
ZZ123794	21.4	1.04	1.89	<0.05	0.04	0.16	0.012	0.04	2.7	4.5	0.44	690	0.62	0.02	0.25
ZZ123795	106.5	4.50	6.87	0.09	0.04	0.02	0.037	0.08	8.9	15.7	1.97	1020	1.89	0.02	0.29
ZZ123796	47.9	2.50	4.85	<0.05	<0.02	0.08	0.021	0.04	3.9	7.2	0.72	500	0.80	0.02	0.42
ZZ123797	87.5	5.73	10.85	0.19	0.06	0.06	0.049	0.05	4.8	28.1	3.95	897	3.01	0.01	0.36
ZZ123798	105.5	6.22	13.80	0.19	0.06	0.03	0.050	0.05	4.4	26.7	4.49	1100	1.15	0.01	0.25
ZZ123799	71.9	3.17	5.03	0.05	0.03	0.10	0.029	0.04	6.6	12.6	1.33	764	2.87	0.01	0.48
ZZ123800	38.6	2.95	4.39	<0.05	0.03	0.06	0.027	0.04	12.2	10.5	0.94	717	2.67	0.02	0.48
ZZ123801	98.4	3.63	7.04	0.05	0.02	0.06	0.035	0.06	8.6	14.5	1.52	943	0.99	0.02	0.64
ZZ123802	10.7	0.80	1.22	<0.05	<0.02	0.19	0.008	0.08	1.8	1.3	0.16	587	0.50	0.01	0.39
ZZ123803	100.5	4.08	8.29	0.07	0.04	0.04	0.036	0.07	6.6	19.0	1.45	1180	0.69	0.05	0.42
ZZ123804	51.2	2.05	4.41	0.07	0.04	0.05	0.015	0.05	9.0	9.7	0.66	381	0.67	0.04	0.63
ZZ123805	45.8	2.18	5.93	<0.05	0.02	0.04	0.019	0.06	9.7	10.3	0.62	314	0.84	0.03	0.74
ZZ123806	17.3	2.21	6.24	<0.05	<0.02	0.05	0.020	0.05	9.1	10.4	0.48	389	0.64	0.02	0.76
ZZ123807	18.8	1.98	5.36	<0.05	<0.02	0.06	0.016	0.05	7.7	8.9	0.44	254	0.66	0.02	0.61
ZZ123808	29.4	2.31	4.78	<0.05	0.03	0.03	0.021	0.05	7.5	12.2	0.58	325	0.85	0.02	0.79
ZZ123809	37.4	2.41	5.37	<0.05	<0.02	0.06	0.019	0.05	7.3	11.5	0.55	504	1.39	0.02	0.69
ZZ123810	86.6	3.31	6.43	<0.05	0.02	0.06	0.021	0.06	8.3	14.6	0.65	274	1.02	0.03	1.20
ZZ123811	37.8	2.99	6.54	<0.05	0.05	0.04	0.028	0.06	9.0	13.9	0.79	417	0.89	0.03	1.41



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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		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	0.01	0.01	0.2	0.005
ZZ123472		21.9	490	4.2	6.6	<0.001	0.04	0.35	2.4	0.3	0.3	11.0	<0.01	0.02	0.2	0.089
ZZ123473		25.5	390	4.4	6.8	<0.001	0.04	0.33	3.2	0.3	0.4	13.8	<0.01	0.03	0.2	0.137
ZZ123474		28.4	430	5.0	8.7	<0.001	0.03	0.44	4.7	0.3	0.4	11.9	<0.01	0.03	0.5	0.131
ZZ123475		21.6	370	4.8	11.4	<0.001	0.03	0.35	3.7	0.2	0.4	13.7	<0.01	0.03	0.4	0.121
ZZ123476		19.8	810	3.6	7.6	<0.001	0.09	0.34	1.1	0.4	0.3	12.5	<0.01	0.02	<0.2	0.057
ZZ123477		12.1	880	5.2	10.1	<0.001	0.07	0.24	0.5	0.3	0.3	11.8	<0.01	0.03	<0.2	0.037
ZZ123478		12.6	1240	3.1	7.7	<0.001	0.13	0.27	0.4	0.3	0.3	11.7	<0.01	0.02	<0.2	0.014
ZZ123479		23.2	840	4.1	14.1	<0.001	0.09	0.37	1.1	0.2	0.3	20.2	<0.01	0.04	<0.2	0.053
ZZ123480		41.2	670	6.5	4.4	<0.001	0.06	0.86	5.3	0.9	0.3	32.3	<0.01	0.06	0.7	0.076
ZZ123481		55.1	630	8.1	8.3	<0.001	0.05	0.61	5.8	1.4	0.4	27.7	<0.01	0.10	1.8	0.090
ZZ123482		27.3	580	6.3	6.8	<0.001	0.07	0.44	2.5	0.5	0.4	12.8	<0.01	0.04	0.4	0.078
ZZ123483		37.5	820	6.9	7.7	<0.001	0.06	0.45	3.7	0.5	0.4	22.1	<0.01	0.05	0.9	0.082
ZZ123484		48.0	700	26.3	3.1	<0.001	0.02	0.15	11.2	0.4	0.4	59.9	<0.01	0.04	2.4	0.103
ZZ123485		25.6	870	13.1	3.4	<0.001	0.02	0.14	8.0	0.5	0.3	66.6	<0.01	0.04	3.2	0.077
ZZ123486		40.6	820	12.6	3.6	<0.001	0.02	0.21	10.4	0.4	0.3	60.7	<0.01	0.03	6.1	0.080
ZZ123487		72.8	800	15.1	3.9	<0.001	0.05	1.45	20.7	0.7	0.4	60.2	<0.01	0.04	1.2	0.092
ZZ123488		56.7	880	9.9	3.9	0.001	0.10	0.73	23.0	1.1	0.4	46.4	<0.01	0.12	0.7	0.056
ZZ123489		63.9	690	9.0	3.2	<0.001	0.03	1.65	19.5	0.8	0.3	54.6	<0.01	0.07	0.8	0.099
ZZ123490		67.7	650	9.5	3.1	<0.001	0.07	1.57	15.7	1.2	0.3	61.4	<0.01	0.07	0.8	0.105
ZZ123791		45.8	1160	24.8	6.1	0.001	0.06	2.40	11.7	2.5	0.2	47.8	<0.01	0.10	0.7	0.041
ZZ123792		54.1	1190	16.6	5.3	<0.001	0.10	2.17	14.4	2.4	0.2	89.4	<0.01	0.09	0.8	0.025
ZZ123793		76.2	610	3.9	4.1	<0.001	0.03	1.12	14.9	1.2	0.2	33.5	<0.01	0.05	0.7	0.119
ZZ123794		14.7	1290	3.3	1.9	<0.001	0.22	0.49	2.4	0.9	<0.2	120.5	<0.01	0.02	0.2	0.016
ZZ123795		51.3	820	5.4	5.5	<0.001	0.02	0.86	15.1	1.1	0.2	36.6	<0.01	0.05	1.3	0.080
ZZ123796		15.0	1090	4.0	4.1	<0.001	0.09	0.40	2.5	0.5	0.2	27.4	<0.01	0.03	<0.2	0.028
ZZ123797		83.2	730	3.3	5.2	<0.001	0.04	1.02	26.2	2.0	0.2	60.3	<0.01	0.07	0.5	0.129
ZZ123798		89.9	480	3.1	6.1	<0.001	0.02	0.60	22.7	0.9	0.2	33.8	<0.01	0.06	0.6	0.127
ZZ123799		50.8	1110	8.5	4.2	<0.001	0.10	1.18	5.7	1.1	0.2	53.0	<0.01	0.05	0.5	0.044
ZZ123800		45.1	910	6.5	4.5	0.001	0.07	0.94	4.3	1.9	0.2	73.5	<0.01	0.05	0.4	0.040
ZZ123801		42.0	1150	11.1	7.9	<0.001	0.05	0.64	9.0	0.9	0.3	23.6	<0.01	0.05	0.6	0.090
ZZ123802		8.0	1380	2.6	3.5	<0.001	0.21	0.17	1.0	0.4	<0.2	42.5	<0.01	0.02	<0.2	0.025
ZZ123803		48.9	830	11.1	4.3	<0.001	0.01	0.29	13.3	0.4	0.4	59.1	0.01	0.07	1.3	0.094
ZZ123804		25.6	690	5.0	3.8	<0.001	0.01	0.26	4.1	0.2	0.2	31.2	<0.01	0.03	1.8	0.087
ZZ123805		25.0	1010	6.2	7.3	<0.001	0.04	0.30	3.0	0.4	0.3	17.6	<0.01	0.04	1.5	0.072
ZZ123806		16.9	690	6.7	8.6	<0.001	0.06	0.32	1.1	0.4	0.4	12.4	<0.01	0.03	0.2	0.048
ZZ123807		18.5	690	5.5	6.4	<0.001	0.06	0.31	1.0	0.3	0.3	11.5	<0.01	0.03	<0.2	0.044
ZZ123808		33.4	650	4.4	5.4	<0.001	0.04	0.45	3.3	0.4	0.2	12.0	<0.01	0.04	1.5	0.061
ZZ123809		30.2	710	5.1	8.0	<0.001	0.06	0.52	2.5	0.4	0.3	12.4	<0.01	0.05	0.4	0.066
ZZ123810		39.6	540	5.3	7.4	<0.001	0.04	0.42	3.6	0.6	0.3	11.8	<0.01	0.07	1.4	0.096
ZZ123811		42.4	610	6.1	7.7	<0.001	0.03	0.48	5.3	0.5	0.4	13.4	0.01	0.05	2.3	0.091



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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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
ZZ123472		0.07	0.43	65	0.19	5.10	44	0.6	0.002
ZZ123473		0.06	0.41	80	0.18	4.40	52	0.7	0.003
ZZ123474		0.09	0.47	89	0.25	6.01	54	0.7	<0.001
ZZ123475		0.08	0.42	70	0.24	4.73	44	0.6	<0.001
ZZ123476		0.07	0.43	62	0.12	5.03	45	<0.5	<0.001
ZZ123477		0.08	0.39	48	0.13	2.21	35	<0.5	<0.001
ZZ123478		0.05	0.46	44	0.15	2.73	35	<0.5	0.001
ZZ123479		0.07	0.53	63	0.21	5.94	69	<0.5	0.003
ZZ123480		0.06	0.64	82	1.17	8.69	72	<0.5	0.023
ZZ123481		0.11	0.92	90	0.91	8.50	112	0.7	0.017
ZZ123482		0.07	0.57	70	1.49	3.76	43	0.5	0.005
ZZ123483		0.08	0.74	79	0.67	6.51	58	<0.5	0.004
ZZ123484		0.04	1.26	91	0.56	12.40	70	2.9	0.037
ZZ123485		0.04	1.96	69	2.48	15.35	57	3.0	0.060
ZZ123486		0.04	2.03	82	1.25	15.25	59	2.0	0.012
ZZ123487		0.08	0.65	152	0.47	25.1	149	1.6	0.014
ZZ123488		0.07	0.37	219	0.54	39.5	636	0.8	0.018
ZZ123489		0.10	0.78	148	0.90	23.6	187	1.6	0.020
ZZ123490		0.08	0.81	131	1.59	19.30	366	1.6	0.027
ZZ123791		0.07	1.11	82	2.12	22.0	158	1.2	0.091
ZZ123792		0.08	1.47	93	0.36	24.0	139	2.4	0.028
ZZ123793		0.09	0.46	151	0.20	14.55	91	1.5	0.014
ZZ123794		0.05	0.80	30	0.05	5.28	59	1.2	NSS
ZZ123795		0.10	0.68	123	2.02	13.70	94	1.4	0.120
ZZ123796		0.06	0.37	70	0.27	3.49	50	<0.5	0.034
ZZ123797		0.17	0.73	249	0.16	14.65	191	1.7	0.001
ZZ123798		0.16	0.42	240	0.13	12.70	104	1.6	0.006
ZZ123799		0.08	0.69	95	0.19	10.65	97	1.0	0.085
ZZ123800		0.07	0.78	85	0.15	13.40	87	0.8	<0.001
ZZ123801		0.11	0.77	105	0.23	13.05	89	0.5	0.002
ZZ123802		0.03	0.21	16	0.06	1.13	53	<0.5	<0.001
ZZ123803		0.07	0.92	108	0.74	16.00	65	1.1	0.798
ZZ123804		0.05	1.02	55	1.94	8.46	37	1.2	0.011
ZZ123805		0.07	0.90	56	0.66	7.14	49	0.5	0.004
ZZ123806		0.10	0.67	54	0.33	4.55	43	<0.5	0.002
ZZ123807		0.09	0.59	49	0.26	3.16	34	<0.5	<0.001
ZZ123808		0.06	0.74	53	0.61	4.46	39	0.7	0.002
ZZ123809		0.06	0.54	58	1.29	4.50	48	<0.5	0.006
ZZ123810		0.10	0.56	67	0.81	5.80	46	0.6	0.004
ZZ123811		0.09	0.64	71	2.05	5.87	43	1.3	0.015



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

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Sample Description	Method	WEI- 21	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
ZZ123812		0.32	0.05	1.72	11.8	<0.02	<10	80	0.30	0.14	0.18	0.16	13.85	9.0	38	1.19
ZZ123813		0.40	0.63	1.86	27.1	0.03	<10	50	0.73	0.08	0.54	0.21	16.70	53.5	48	8.22
ZZ123814		0.37	0.09	1.85	15.3	<0.02	<10	120	0.36	0.14	0.36	0.11	18.95	15.4	43	2.71
ZZ123815		0.42	0.14	2.30	19.7	<0.02	<10	100	0.48	0.20	0.23	0.15	18.75	36.8	46	2.50
ZZ123816		0.30	0.08	1.45	17.2	<0.02	<10	60	0.30	0.16	0.16	0.09	15.25	9.3	31	1.50
ZZ123817		0.29	0.09	2.00	7.6	<0.02	<10	90	0.38	0.17	0.19	0.09	16.20	14.8	35	2.38
ZZ123818		0.44	0.26	1.94	40.0	0.06	<10	110	0.50	0.17	0.45	0.19	21.6	30.3	41	3.79
ZZ123819		0.34	0.16	3.01	10.0	<0.02	<10	170	0.39	0.12	0.59	0.21	24.0	32.3	111	1.95
ZZ123764		0.25	0.40	2.12	50.2	0.02	<10	130	0.42	0.15	0.46	0.59	19.95	23.0	79	2.92
ZZ123765		0.21	0.28	1.87	17.2	<0.02	<10	100	0.38	0.14	0.48	0.69	20.9	21.0	75	1.80
ZZ123766		0.13	0.26	2.46	14.3	<0.02	<10	110	0.46	0.33	0.39	0.25	20.1	28.8	86	3.25
ZZ123767		0.16	0.21	2.82	17.4	<0.02	<10	110	0.50	0.39	0.55	0.28	23.7	31.0	109	4.49
ZZ123768		0.04	0.07	0.68	4.4	<0.02	<10	50	0.13	0.08	1.75	0.40	6.24	11.0	34	0.70
ZZ123769		0.06	0.09	1.81	7.5	<0.02	<10	70	0.22	0.08	0.32	0.27	8.43	19.2	105	5.84
ZZ123770		0.07	0.15	1.63	10.8	<0.02	<10	120	0.44	0.12	1.23	0.40	19.05	16.4	60	3.66
ZZ123771		0.04	0.26	1.27	5.1	<0.02	<10	160	0.28	0.12	0.89	2.01	16.60	13.2	35	1.44
ZZ123772		0.06	0.20	1.97	21.9	<0.02	<10	120	0.37	0.13	0.60	0.49	15.25	20.9	81	3.23
ZZ123773		0.10	0.20	2.47	21.7	<0.02	<10	100	0.37	0.10	0.61	0.44	16.30	19.8	127	3.30
ZZ123774		0.05	0.23	0.86	11.5	<0.02	<10	110	0.19	0.09	1.47	1.21	7.79	10.3	30	1.35
ZZ123775		0.05	0.16	2.37	9.2	<0.02	<10	110	0.23	0.07	0.95	1.99	9.73	20.3	135	5.15
ZZ123776		0.10	0.43	2.26	21.3	<0.02	<10	130	0.46	0.16	0.59	0.73	25.4	21.0	80	2.32
ZZ123777		0.08	0.35	1.35	22.8	<0.02	<10	70	0.29	0.13	0.57	0.30	12.15	10.5	30	1.70
ZZ123778		0.05	0.24	1.69	15.4	<0.02	<10	130	0.27	0.12	1.07	0.88	13.80	15.6	56	2.07
ZZ123779		0.10	0.38	1.06	8.7	0.06	<10	60	0.21	0.09	0.31	0.42	11.00	7.5	27	1.65
ZZ123780		0.05	0.17	0.56	2.6	<0.02	<10	50	0.12	0.06	0.12	0.32	5.45	3.4	12	0.56
ZZ123781		0.09	0.22	1.20	10.5	<0.02	<10	90	0.32	0.14	0.34	0.29	12.20	8.0	19	1.90
ZZ123782		0.08	0.16	1.76	10.3	<0.02	<10	160	0.40	0.15	0.49	0.45	22.6	14.9	49	1.59
ZZ123783		0.08	0.13	1.56	9.3	<0.02	<10	110	0.33	0.14	0.30	0.27	16.30	10.5	42	1.32
ZZ123784		0.05	0.13	0.39	2.4	<0.02	10	260	0.08	0.05	1.47	2.01	4.26	7.6	13	0.56
ZZ123785		0.14	0.08	2.39	14.4	<0.02	<10	120	0.41	0.14	0.21	0.43	22.4	17.6	59	1.32
ZZ123786		0.08	0.21	1.13	7.1	<0.02	<10	110	0.22	0.12	0.25	0.44	9.83	9.8	31	1.14
ZZ123787		0.07	0.49	1.54	70.6	0.02	<10	90	0.32	0.12	0.74	0.71	20.1	15.4	40	2.74
ZZ123788		0.07	0.68	2.45	34.9	0.02	<10	110	0.46	0.17	0.84	1.28	18.20	24.4	88	4.43
ZZ123789		0.14	0.38	2.47	36.4	<0.02	<10	80	0.33	0.09	0.45	1.13	16.15	24.4	113	2.48
ZZ123790		0.04	0.59	1.87	93.4	<0.02	<10	100	0.42	0.13	0.97	0.66	14.65	20.4	58	3.13
ZZ123491		0.56	3.12	2.43	77.6	0.02	<10	30	0.10	0.42	0.36	0.65	4.18	28.8	101	4.12
ZZ123492		0.38	1.02	4.22	25.2	0.03	<10	80	0.32	0.33	0.94	1.35	12.10	153.5	71	8.80
ZZ123493		0.44	0.75	3.40	50.5	0.03	<10	70	0.34	0.29	0.59	1.48	10.40	115.5	66	6.13
ZZ123494		0.45	0.36	3.30	14.1	0.02	<10	60	0.37	0.30	0.63	0.24	10.80	106.0	47	6.63
ZZ123495		0.48	0.49	4.19	12.3	0.02	<10	60	0.37	0.36	0.61	0.14	14.20	66.9	61	6.71



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	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
ZZ123812	22.0	2.21	5.16	<0.05	<0.02	0.05	0.019	0.04	7.3	10.0	0.42	197	1.04	0.02	1.04
ZZ123813	100.5	9.20	6.65	0.05	0.05	0.09	0.104	0.11	6.6	10.4	0.61	1890	0.63	0.02	0.13
ZZ123814	55.5	2.52	5.54	<0.05	<0.02	0.04	0.022	0.06	10.5	12.5	0.64	418	1.51	0.03	0.69
ZZ123815	90.2	3.67	6.85	<0.05	<0.02	0.06	0.030	0.08	9.5	15.3	0.67	617	1.47	0.02	0.84
ZZ123816	29.1	2.24	5.95	<0.05	<0.02	0.06	0.019	0.04	7.5	9.9	0.38	241	1.00	0.02	0.83
ZZ123817	44.0	2.74	6.99	<0.05	<0.02	0.10	0.024	0.07	8.3	10.0	0.52	439	1.01	0.02	0.84
ZZ123818	56.3	4.83	6.12	<0.05	<0.02	0.05	0.039	0.09	10.6	11.1	0.72	991	1.68	0.04	0.48
ZZ123819	100.5	3.23	7.04	0.05	0.06	0.04	0.022	0.08	9.4	18.4	1.15	650	0.51	0.09	0.92
ZZ123764	79.5	4.75	6.19	<0.05	0.04	0.04	0.045	0.06	12.5	12.9	1.23	824	1.69	0.02	0.70
ZZ123765	65.2	3.73	5.93	0.07	0.06	0.06	0.034	0.05	12.2	12.7	1.31	671	2.97	0.02	0.74
ZZ123766	69.2	5.24	8.21	0.07	0.05	0.03	0.053	0.05	10.6	14.1	1.83	923	0.90	0.02	0.62
ZZ123767	68.0	4.79	9.01	0.06	0.03	0.07	0.053	0.06	10.0	15.9	2.06	1240	0.94	0.02	0.52
ZZ123768	16.3	1.22	2.29	<0.05	0.02	0.19	0.027	0.04	2.5	3.2	0.45	537	0.53	0.02	0.34
ZZ123769	24.7	3.09	6.66	<0.05	<0.02	0.07	0.030	0.03	3.8	8.9	1.71	754	0.85	0.01	0.36
ZZ123770	44.2	2.58	4.88	<0.05	0.02	0.07	0.038	0.04	9.7	9.2	0.91	1030	0.70	0.01	0.61
ZZ123771	29.0	1.78	3.61	<0.05	<0.02	0.14	0.023	0.05	10.3	5.6	0.56	945	1.11	0.02	0.41
ZZ123772	55.7	3.70	5.91	<0.05	0.02	0.06	0.040	0.08	8.3	11.0	1.10	972	1.26	0.02	0.54
ZZ123773	66.6	4.26	7.75	0.05	0.03	0.04	0.041	0.07	9.5	14.4	1.88	730	0.98	0.02	0.61
ZZ123774	30.1	1.61	2.79	<0.05	0.03	0.09	0.020	0.08	5.3	4.4	0.45	779	0.90	0.01	0.45
ZZ123775	51.6	3.69	6.98	0.06	0.03	0.06	0.039	0.12	5.4	14.2	2.33	1040	0.98	0.02	0.45
ZZ123776	67.7	4.18	6.41	<0.05	0.03	0.04	0.041	0.06	14.8	14.3	1.24	866	3.24	0.02	0.58
ZZ123777	30.2	2.32	3.95	<0.05	<0.02	0.04	0.020	0.05	6.7	7.5	0.54	546	0.88	0.02	0.48
ZZ123778	39.2	2.81	5.12	<0.05	<0.02	0.10	0.031	0.09	6.5	11.0	0.91	991	0.98	0.02	0.53
ZZ123779	22.0	1.84	4.05	<0.05	<0.02	0.04	0.019	0.04	6.7	5.7	0.40	324	0.65	0.02	0.29
ZZ123780	8.4	1.06	2.41	<0.05	<0.02	0.06	0.008	0.03	2.4	1.9	0.17	173	0.42	0.02	0.19
ZZ123781	19.9	1.65	3.75	<0.05	<0.02	0.04	0.020	0.04	7.2	5.4	0.30	648	0.89	0.03	0.43
ZZ123782	35.0	2.57	5.20	<0.05	<0.02	0.04	0.023	0.10	10.9	11.2	0.78	665	0.99	0.02	0.59
ZZ123783	24.0	2.51	5.24	<0.05	<0.02	0.07	0.021	0.06	7.3	11.4	0.62	455	0.98	0.02	0.68
ZZ123784	12.8	0.76	1.36	<0.05	<0.02	0.16	0.008	0.10	1.9	1.9	0.22	1080	0.70	0.02	0.36
ZZ123785	60.9	3.34	6.19	<0.05	0.02	0.04	0.029	0.05	8.9	13.4	1.10	529	1.64	0.01	0.82
ZZ123786	18.4	2.01	4.16	<0.05	<0.02	0.08	0.017	0.04	4.7	4.8	0.36	723	1.46	0.02	0.40
ZZ123787	66.0	3.26	4.44	0.05	0.04	0.05	0.033	0.06	13.2	10.8	0.77	525	2.11	0.02	0.72
ZZ123788	83.8	4.51	6.58	0.05	0.07	0.05	0.045	0.07	13.2	15.4	1.48	1010	2.59	0.03	0.63
ZZ123789	90.4	4.64	7.16	0.07	0.04	0.02	0.035	0.06	10.5	16.9	1.96	830	2.68	0.02	0.47
ZZ123790	97.8	3.96	4.91	<0.05	0.04	0.08	0.043	0.04	12.5	10.7	1.02	935	2.37	0.02	0.54
ZZ123491	907	16.15	10.00	0.10	0.04	0.05	0.324	0.03	1.4	9.9	1.38	480	6.41	0.05	0.34
ZZ123492	1955	11.80	10.70	0.10	0.07	0.05	0.071	0.07	5.4	18.7	1.93	1370	5.98	0.05	0.57
ZZ123493	1410	11.45	11.90	0.09	0.05	0.04	0.084	0.05	4.4	16.8	2.10	1480	2.95	0.05	0.34
ZZ123494	550	9.85	9.46	0.08	0.03	0.04	0.034	0.05	4.7	16.7	1.38	768	2.61	0.04	0.45
ZZ123495	672	9.14	9.87	0.09	0.05	0.04	0.047	0.06	5.7	15.6	1.30	738	2.14	0.04	0.57



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

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Sample Description	Method Analyte Units 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	0.01	0.01	0.2	0.005
ZZ123812		22.9	460	5.3	6.3	<0.001	0.04	0.48	2.5	0.3	0.4	12.0	0.01	0.03	0.5	0.073
ZZ123813		68.7	840	8.6	7.4	<0.001	0.06	1.16	42.5	0.2	0.4	21.8	<0.01	0.03	0.6	0.008
ZZ123814		38.2	830	5.8	8.8	<0.001	0.05	0.50	3.7	0.6	0.3	28.5	<0.01	0.04	0.8	0.066
ZZ123815		49.4	790	7.4	12.1	<0.001	0.08	0.59	4.3	0.7	0.4	14.2	<0.01	0.07	0.7	0.069
ZZ123816		17.2	720	6.4	7.3	<0.001	0.08	0.46	1.4	0.4	0.4	12.6	<0.01	0.05	0.2	0.056
ZZ123817		21.5	860	7.2	13.0	<0.001	0.13	0.43	2.1	0.6	0.4	13.8	<0.01	0.05	0.2	0.064
ZZ123818		43.5	990	11.5	9.0	<0.001	0.04	2.31	13.9	0.7	0.3	27.2	<0.01	0.11	1.1	0.058
ZZ123819		130.0	660	7.6	8.9	<0.001	0.03	0.37	8.0	0.3	0.3	31.3	<0.01	0.04	2.2	0.118
ZZ123764		58.3	790	7.8	7.4	<0.001	0.03	1.36	19.2	0.9	0.3	28.8	<0.01	0.07	1.7	0.045
ZZ123765		51.2	710	6.7	5.3	<0.001	0.02	0.74	12.9	1.0	0.3	29.4	<0.01	0.06	2.2	0.068
ZZ123766		58.6	730	9.8	7.4	<0.001	0.03	0.46	20.7	0.3	0.3	19.2	<0.01	0.09	1.7	0.069
ZZ123767		66.3	1080	10.8	8.4	<0.001	0.07	0.59	13.8	0.6	0.3	21.5	<0.01	0.07	0.7	0.057
ZZ123768		23.1	1070	3.6	1.6	<0.001	0.21	0.34	2.9	0.5	0.2	38.5	<0.01	0.03	0.3	0.020
ZZ123769		43.4	900	3.1	3.6	<0.001	0.09	0.23	4.6	0.3	0.3	13.5	<0.01	0.03	<0.2	0.040
ZZ123770		36.6	1260	5.3	5.1	<0.001	0.11	0.35	4.7	0.5	0.2	43.3	<0.01	0.04	0.4	0.033
ZZ123771		22.2	1350	5.1	6.6	<0.001	0.16	0.39	1.1	0.8	0.2	50.4	<0.01	0.03	<0.2	0.019
ZZ123772		46.2	1290	6.1	8.3	<0.001	0.10	0.97	9.5	0.8	0.3	34.9	<0.01	0.04	0.4	0.034
ZZ123773		56.9	750	7.4	6.8	<0.001	0.06	0.58	14.0	1.0	0.3	36.6	<0.01	0.05	0.8	0.075
ZZ123774		16.0	1680	4.8	5.5	<0.001	0.21	0.53	2.5	0.6	0.2	74.3	<0.01	0.02	0.3	0.020
ZZ123775		51.0	950	4.4	9.9	<0.001	0.10	0.52	13.1	0.5	0.2	54.0	<0.01	0.05	0.5	0.061
ZZ123776		56.4	960	9.1	7.1	<0.001	0.07	1.05	11.0	1.2	0.3	39.0	<0.01	0.08	0.7	0.041
ZZ123777		19.4	1050	6.1	4.3	<0.001	0.10	0.59	2.8	0.6	0.2	40.5	<0.01	0.03	0.2	0.035
ZZ123778		29.1	1620	7.6	10.2	<0.001	0.15	0.60	3.7	0.5	0.3	72.1	<0.01	0.04	0.3	0.034
ZZ123779		14.1	710	4.3	4.6	<0.001	0.07	0.39	1.4	0.3	0.2	25.3	<0.01	0.02	<0.2	0.035
ZZ123780		6.2	660	2.6	2.5	<0.001	0.07	0.20	0.3	0.3	<0.2	11.5	<0.01	0.01	<0.2	0.024
ZZ123781		13.9	960	7.4	4.1	<0.001	0.09	0.75	1.2	0.5	0.2	25.2	<0.01	0.02	<0.2	0.026
ZZ123782		38.1	870	7.9	11.2	<0.001	0.06	0.56	2.3	0.4	0.3	30.1	<0.01	0.03	0.2	0.052
ZZ123783		22.9	780	7.3	8.1	<0.001	0.08	0.52	1.8	0.4	0.3	22.5	<0.01	0.04	<0.2	0.060
ZZ123784		8.3	1560	3.3	7.0	<0.001	0.20	0.20	0.3	0.3	<0.2	89.5	<0.01	0.01	<0.2	0.013
ZZ123785		46.5	540	8.0	6.5	<0.001	0.04	0.72	5.3	0.5	0.3	14.6	<0.01	0.05	0.8	0.077
ZZ123786		14.6	1160	6.3	6.6	<0.001	0.13	0.47	0.8	0.6	0.3	24.2	<0.01	0.03	<0.2	0.029
ZZ123787		35.3	1030	6.3	5.1	<0.001	0.06	2.39	6.6	1.4	0.2	42.6	<0.01	0.06	1.5	0.049
ZZ123788		59.9	1080	16.1	8.9	<0.001	0.07	1.77	12.9	1.7	0.2	53.0	<0.01	0.08	1.1	0.049
ZZ123789		63.2	790	7.2	6.0	<0.001	0.03	1.16	13.7	1.4	0.2	37.8	<0.01	0.07	1.1	0.080
ZZ123790		44.6	1320	9.3	4.0	<0.001	0.11	2.14	9.4	2.1	0.2	67.0	<0.01	0.07	0.4	0.035
ZZ123491		41.2	980	11.0	1.8	0.002	0.45	2.72	20.9	10.3	0.4	26.5	<0.01	0.27	0.5	0.161
ZZ123492		94.7	910	15.5	3.4	0.004	0.33	0.95	11.9	8.0	0.4	84.2	<0.01	0.34	0.9	0.159
ZZ123493		79.9	820	12.1	2.8	0.002	0.39	1.49	15.8	5.8	0.3	37.2	<0.01	0.18	0.8	0.140
ZZ123494		72.0	980	11.1	3.2	0.001	0.14	0.94	8.0	3.9	0.3	38.9	<0.01	0.32	0.8	0.111
ZZ123495		58.9	1260	8.0	3.9	0.001	0.20	0.62	10.9	5.0	0.3	37.9	<0.01	0.24	1.0	0.115



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

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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
ZZ123812		0.07	0.45	57	0.44	3.05	32	0.5	0.004
ZZ123813		0.20	0.26	202	1.14	45.2	97	0.6	0.060
ZZ123814		0.08	1.05	59	2.07	6.84	53	<0.5	0.008
ZZ123815		0.11	0.75	68	0.75	11.50	67	<0.5	0.006
ZZ123816		0.07	0.60	54	0.39	3.95	38	<0.5	0.003
ZZ123817		0.10	0.72	70	0.64	6.00	45	<0.5	0.004
ZZ123818		0.13	0.94	92	1.77	15.25	69	<0.5	0.097
ZZ123819		0.13	0.63	80	0.71	10.75	55	1.6	0.006
ZZ123764		0.07	0.90	104	0.25	19.20	96	1.1	0.028
ZZ123765		0.06	0.72	98	0.26	15.90	95	1.8	0.008
ZZ123766		0.07	0.46	136	0.34	22.1	71	1.2	0.007
ZZ123767		0.09	0.71	135	0.38	18.80	67	0.7	0.003
ZZ123768		0.04	0.19	32	0.20	4.37	34	0.7	<0.001
ZZ123769		0.08	0.26	116	0.16	4.68	44	<0.5	0.011
ZZ123770		0.06	0.55	69	1.23	15.25	44	0.5	0.001
ZZ123771		0.08	0.45	43	0.11	11.05	54	<0.5	0.002
ZZ123772		0.08	0.65	95	0.18	13.30	78	0.6	<0.001
ZZ123773		0.07	0.88	140	0.16	14.90	78	0.9	0.015
ZZ123774		0.05	0.44	41	0.17	6.45	58	0.8	0.019
ZZ123775		0.09	0.50	130	0.14	9.31	96	0.8	0.007
ZZ123776		0.08	0.98	108	0.25	19.55	90	0.7	0.006
ZZ123777		0.05	0.63	51	0.18	7.31	48	<0.5	0.017
ZZ123778		0.08	0.48	71	0.24	6.92	82	<0.5	NSS
ZZ123779		0.05	0.49	50	0.17	7.41	38	<0.5	0.002
ZZ123780		0.03	0.31	29	0.09	1.40	24	<0.5	<0.001
ZZ123781		0.06	0.72	34	0.41	6.52	42	<0.5	0.007
ZZ123782		0.10	0.54	60	0.25	7.27	67	<0.5	0.007
ZZ123783		0.07	0.45	60	0.31	3.39	58	<0.5	0.094
ZZ123784		0.03	0.16	18	0.08	0.90	97	<0.5	<0.001
ZZ123785		0.10	0.49	83	0.32	7.09	82	0.6	0.017
ZZ123786		0.11	0.43	56	0.21	2.36	43	<0.5	0.005
ZZ123787		0.06	0.63	66	5.23	16.50	81	1.3	0.166
ZZ123788		0.10	1.23	106	0.44	19.80	138	2.4	0.036
ZZ123789		0.09	0.79	139	0.35	15.80	122	1.4	0.012
ZZ123790		0.09	1.26	86	0.31	21.0	111	1.4	0.016
ZZ123491		0.06	0.85	142	1.62	7.03	614	1.4	0.036
ZZ123492		0.17	1.16	129	1.75	19.50	710	2.4	0.098
ZZ123493		0.07	1.00	148	0.69	19.45	547	1.7	0.047
ZZ123494		0.07	1.23	126	3.38	13.70	97	0.8	0.688
ZZ123495		0.08	0.76	123	0.83	23.5	90	1.3	0.018



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

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Sample Description	Method Analyte Units 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
		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
ZZ123496		0.61	0.20	2.55	9.0	0.03	<10	100	0.32	0.25	0.50	0.21	14.80	61.3	36	5.74
ZZ123497		0.38	0.13	1.48	12.7	<0.02	<10	70	0.29	0.13	0.28	0.17	15.85	31.2	30	2.04
ZZ123498		0.41	0.20	2.24	6.1	0.05	<10	100	0.27	0.19	0.78	0.28	9.81	33.6	35	4.64
ZZ123499		0.49	0.58	2.97	57.4	<0.02	<10	110	0.45	0.28	0.53	0.45	18.35	81.1	46	8.00
ZZ123500		0.51	0.31	2.61	21.3	0.02	<10	90	0.45	0.22	0.40	0.24	18.90	58.9	48	6.06



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method Analyte Units 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	
ZZ123496		254	5.13	8.10	0.05	<0.02	0.05	0.032	0.06	6.4	14.4	0.86	821	1.57	0.05	0.52
ZZ123497		171.5	3.59	4.73	0.05	0.02	0.04	0.020	0.05	7.4	8.7	0.65	394	0.98	0.03	0.56
ZZ123498		199.0	4.09	7.28	<0.05	<0.02	0.07	0.025	0.13	4.7	13.9	0.82	431	1.43	0.06	0.46
ZZ123499		661	8.78	8.23	0.06	0.04	0.07	0.048	0.07	8.8	13.9	1.24	1320	1.82	0.04	0.38
ZZ123500		239	5.55	8.23	0.05	0.02	0.07	0.042	0.07	8.6	14.9	1.23	1100	1.57	0.05	0.53

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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method	Analyte	Units	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				
					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	0.01	0.01	0.2	0.005	
ZZ123496					45.5	1350	7.9	6.3	<0.001	0.10	0.45	4.7	1.7	0.3	29.0	<0.01	0.13	0.4	0.085	
ZZ123497					27.7	860	5.2	3.8	<0.001	0.04	0.53	4.1	0.9	0.2	16.1	<0.01	0.05	1.1	0.069	
ZZ123498					36.2	1150	13.2	9.0	<0.001	0.11	0.34	3.7	1.1	0.3	29.8	<0.01	0.15	0.2	0.088	
ZZ123499					56.8	1030	20.2	4.6	0.001	0.19	1.43	14.9	3.2	0.3	40.8	<0.01	0.13	1.6	0.074	
ZZ123500					50.5	1210	11.8	5.7	<0.001	0.06	0.84	11.5	1.3	0.4	35.2	<0.01	0.09	0.7	0.074	

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 Plus Appendix Pages
 Finalized Date: 7- OCT- 2017
 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17197001

Sample Description	Method Analyte Units LOR	ME- MS41 Tl 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
ZZ123496		0.09	0.73	97	0.89	13.70	93	<0.5	0.027
ZZ123497		0.06	0.63	66	1.31	7.00	57	0.6	0.011
ZZ123498		0.08	0.43	89	2.00	7.98	100	<0.5	0.538
ZZ123499		0.09	1.57	120	7.91	22.5	135	1.0	0.034
ZZ123500		0.11	0.92	113	1.16	18.10	93	<0.5	0.012



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 7- OCT- 2017
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17197001

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: NSS is non- sufficient sample.
ALL METHODS

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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Plus Appendix Pages
Finalized Date: 31- OCT- 2017
Account: MTT

CERTIFICATE WH17209263

Project: HARTLESS JOE

This report is for 3 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27- SEP- 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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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS	WH17209263
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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
W420570		1.86	0.450	1.45	0.21	9.5	0.25	<10	<10	<0.05	0.01	0.39	3.32	0.28	3.9	18
W420571		1.85	0.089	0.49	0.37	4.2	0.03	<10	<10	<0.05	<0.01	2.31	0.17	1.05	5.7	24
W420572		1.04	6.44	5.09	0.41	18.1	6.66	<10	<10	<0.05	0.02	1.11	0.23	0.28	13.7	15



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CERTIFICATE OF ANALYSIS	WH17209263
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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			
					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
W420570					0.13	213	1.76	0.79	<0.05	<0.02	0.01	0.025	0.01	<0.2	1.3	0.15	89	0.25	0.01
W420571					0.15	92.5	1.15	1.24	<0.05	<0.02	<0.01	0.010	0.01	0.4	2.4	0.31	221	0.20	0.01
W420572					0.22	147.0	2.13	1.35	<0.05	<0.02	<0.01	0.006	0.01	<0.2	2.4	0.32	182	0.61	0.01



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH17209263

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			
					Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
					ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
W420570					<0.05	5.7	20	5.4	0.2	<0.001	0.63	0.22	0.9	0.6	<0.2	4.2	<0.01	0.03	<0.2
W420571					<0.05	6.9	30	1.7	0.2	<0.001	0.17	0.14	2.7	0.2	<0.2	28.7	<0.01	0.01	<0.2
W420572					<0.05	12.9	50	15.5	0.2	<0.001	0.45	0.60	1.0	<0.2	<0.2	15.3	<0.01	0.03	<0.2



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH17209263

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Tl 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
W420570		0.016	<0.02	<0.05	11	0.18	0.55	130	<0.5
W420571		0.018	<0.02	<0.05	18	0.26	2.43	10	<0.5
W420572		<0.005	<0.02	<0.05	32	0.07	0.89	18	<0.5



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CERTIFICATE OF ANALYSIS WH17209263

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

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



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Finalized Date: 24- OCT- 2017
Account: MTT

CERTIFICATE WH17218829

Project: Hartless Joe

This report is for 75 Soil samples submitted to our lab in Whitehorse, YT, Canada on 6- OCT- 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
ME- MS61	48 element four acid ICP- MS
Au- ICP21	Au 30g FA ICP- AES Finish ICP- AES

To: **STRATEGIC METALS LTD.**
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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17218829

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY01563		0.45	0.006	0.07	7.37	6.4	790	1.09	0.11	2.42	0.22	41.7	16.7	115	1.58	32.1
YY01564		0.45	0.004	0.06	7.39	5.4	820	1.15	0.10	2.34	0.19	40.6	14.8	94	1.49	30.2
YY01565		0.33	0.009	0.08	7.42	7.1	870	1.27	0.14	1.98	0.23	41.4	16.3	102	2.36	35.2
YY01566		0.40	0.002	0.05	7.54	7.0	880	1.32	0.12	2.12	0.18	43.1	16.7	105	1.95	33.6
YY01567		0.28	<0.001	0.06	7.13	6.6	800	1.11	0.12	1.93	0.15	33.3	18.9	112	2.14	33.6
YY01568		0.39	0.005	0.08	7.48	8.2	830	1.09	0.12	1.87	0.19	36.6	18.8	108	1.97	36.7
YY01682		0.40	0.011	0.31	7.46	16.2	1120	1.27	0.16	1.97	0.24	48.2	16.8	126	3.31	63.8
YY01683		0.42	0.004	0.11	6.83	11.6	1090	1.31	0.13	1.90	0.21	35.1	14.0	103	2.30	43.0
YY01684		0.39	0.011	0.23	6.95	32.1	1100	1.33	0.14	2.20	0.18	43.5	15.3	119	2.49	96.2
YY01685		0.38	0.004	0.24	6.88	12.2	1420	1.37	0.17	2.04	0.14	47.6	15.4	140	2.65	48.3
YY01686		0.33	0.003	0.24	6.37	14.2	990	1.23	0.18	1.75	0.19	38.9	14.0	95	2.77	55.2
YY01687		0.43	0.018	0.30	7.21	28.1	870	1.37	0.14	2.13	0.25	53.8	12.8	83	4.78	80.0
YY01688		0.47	0.055	0.70	7.81	47.2	1050	1.31	0.16	2.14	0.36	48.5	19.9	111	3.60	87.5
YY01689		0.41	0.005	0.15	6.69	13.5	990	1.23	0.16	1.52	0.36	37.4	13.5	107	2.89	35.5
YY01690		0.41	0.033	0.23	7.29	33.7	920	1.37	0.13	1.53	0.40	45.0	19.0	119	3.44	54.6
YY01691		0.33	0.018	0.28	7.26	34.6	850	1.22	0.13	1.65	0.36	44.2	19.0	105	4.74	62.9
YY01692		0.43	0.018	0.38	7.50	38.2	820	1.27	0.12	1.87	0.47	43.2	22.5	122	4.32	70.2
YY01693		0.54	0.006	0.30	7.44	19.0	1030	1.25	0.16	2.24	0.37	44.2	20.3	142	3.61	68.3
YY01694		0.30	0.004	0.29	7.97	28.5	710	1.22	0.15	1.68	0.24	37.2	29.2	118	6.13	101.0
YY01695		0.40	0.058	1.69	10.10	133.0	970	0.95	0.15	0.66	0.34	18.00	52.1	30	26.0	226
YY01696		0.44	0.003	0.20	7.08	10.4	1000	1.33	0.14	1.91	0.13	46.1	14.7	90	2.38	62.3
YY01697		0.38	0.007	0.32	7.41	20.5	1040	1.27	0.18	1.90	0.21	44.9	17.6	109	3.52	55.0
YY01698		0.32	0.007	0.24	6.87	14.5	920	1.27	0.15	1.84	0.22	50.0	14.2	85	3.21	82.2
YY01699		0.53	0.028	0.20	7.42	15.3	940	1.45	0.15	2.21	0.22	60.5	19.1	91	3.72	149.5
YY01700		0.33	0.011	0.11	7.23	14.0	880	1.23	0.16	1.61	0.27	39.7	12.7	81	3.09	67.3
YY01701		0.38	0.010	0.50	7.37	30.6	880	1.07	0.14	1.88	0.76	32.5	20.8	138	4.28	78.3
YY01722		0.41	0.001	0.09	7.56	5.7	770	1.17	0.09	2.27	0.12	36.1	17.4	111	1.31	35.1
YY01723		0.46	0.007	0.08	7.29	7.4	770	1.18	0.12	2.16	0.13	42.2	17.5	107	1.82	38.6
YY01724		0.42	<0.001	0.07	7.31	7.2	860	1.28	0.12	1.87	0.14	42.7	15.0	97	1.86	28.9
YY01725		0.39	<0.001	0.08	7.03	6.5	790	1.18	0.13	1.63	0.20	40.9	13.1	94	2.04	26.8
YY01726		0.31	0.002	0.07	7.05	5.8	700	1.07	0.12	1.83	0.26	39.0	18.5	94	2.38	34.7
YY01727		0.34	<0.001	0.07	7.28	6.1	820	1.15	0.13	1.99	0.16	40.5	15.0	102	1.98	30.5
YY01728		0.29	0.001	0.08	7.15	6.3	840	1.28	0.13	1.86	0.22	39.0	15.5	99	1.91	27.2
YY01729		0.36	0.001	0.07	7.38	6.5	850	1.38	0.14	1.82	0.22	40.2	13.2	83	1.96	28.3
YY01730		0.29	<0.001	0.07	6.86	6.0	740	1.11	0.11	1.70	0.21	35.2	15.1	93	1.56	26.5
YY01731		0.34	0.007	0.05	6.83	6.7	910	1.26	0.13	1.42	0.22	34.0	11.7	90	1.79	21.1
YY01732		0.33	<0.001	0.06	6.87	6.4	850	1.19	0.14	1.83	0.21	42.6	14.5	97	1.81	23.0
YY01733		0.30	0.003	0.07	6.67	6.0	850	1.22	0.13	1.67	0.15	33.3	14.3	100	2.03	23.3
YY01734		0.37	0.006	0.07	6.85	6.9	750	1.03	0.10	2.04	0.20	36.2	18.1	108	1.65	34.0
YY01735		0.36	0.002	0.04	6.78	6.7	810	1.09	0.13	1.82	0.17	31.0	16.0	106	2.25	25.1



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 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17218829

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY01563		4.24	15.40	0.07	1.4	0.060	1.20	21.4	15.5	1.54	870	0.82	2.29	7.4	40.5	850
YY01564		3.83	15.40	0.06	1.4	0.053	1.26	20.9	15.6	1.35	784	0.76	2.36	6.9	35.9	740
YY01565		4.16	16.25	0.06	1.6	0.056	1.30	22.0	19.3	1.47	889	0.86	1.98	7.8	41.8	1220
YY01566		4.13	15.95	0.06	1.4	0.054	1.32	22.2	18.2	1.50	807	0.67	2.16	7.7	41.7	940
YY01567		4.33	15.70	0.06	1.3	0.059	1.14	17.2	17.9	1.53	940	0.78	1.95	6.8	44.2	1150
YY01568		4.40	15.50	0.06	1.3	0.054	1.24	18.9	18.2	1.50	836	0.79	1.99	6.8	42.8	780
YY01682		4.15	15.00	0.06	1.4	0.049	1.52	25.4	19.5	1.65	842	1.02	2.13	7.5	57.7	700
YY01683		3.29	13.80	0.06	1.3	0.042	1.51	17.8	15.4	1.33	704	0.94	2.17	7.1	47.8	850
YY01684		3.70	14.30	0.06	1.3	0.047	1.41	22.1	16.9	1.49	760	0.97	2.10	7.3	49.9	730
YY01685		3.66	14.10	0.06	1.4	0.046	1.40	23.3	18.8	1.58	725	1.25	2.04	8.1	60.5	670
YY01686		3.69	13.70	0.06	1.4	0.045	1.24	20.0	16.4	1.21	787	2.43	1.78	7.3	33.8	1340
YY01687		3.78	15.35	0.07	1.6	0.051	1.42	25.2	18.0	1.18	726	0.69	1.93	9.4	31.9	1180
YY01688		4.65	16.15	0.08	1.6	0.058	1.55	24.7	19.7	1.62	1060	1.29	2.05	7.9	52.1	1000
YY01689		3.62	13.90	0.06	1.6	0.047	1.41	19.0	16.5	1.19	813	1.06	1.82	7.7	35.2	1690
YY01690		4.28	14.85	0.07	1.5	0.052	1.40	22.4	19.4	1.57	903	1.41	2.03	7.3	51.7	920
YY01691		4.66	15.45	0.07	1.5	0.061	1.36	22.8	19.9	1.43	965	1.33	1.84	7.5	45.5	1040
YY01692		5.02	15.60	0.07	1.5	0.062	1.34	23.2	20.5	1.76	1000	1.53	2.09	6.8	54.2	1040
YY01693		4.48	15.45	0.06	1.5	0.049	1.49	23.7	18.9	1.75	943	1.20	2.16	7.6	60.9	890
YY01694		6.89	18.85	0.08	1.9	0.088	1.16	21.3	54.4	1.61	1180	1.17	1.56	6.8	54.9	1310
YY01695		10.70	22.0	0.06	0.8	0.093	3.29	7.1	7.0	0.46	1970	2.01	0.76	3.3	22.0	900
YY01696		3.57	14.25	0.07	1.5	0.047	1.44	22.3	14.9	1.29	717	0.59	2.15	7.8	40.5	640
YY01697		4.20	14.85	0.06	1.5	0.054	1.49	20.4	18.3	1.47	907	0.93	2.10	8.0	49.0	830
YY01698		3.92	14.70	0.07	1.9	0.049	1.46	25.3	16.7	1.05	836	1.29	1.94	9.2	24.9	750
YY01699		4.30	15.05	0.08	1.9	0.053	1.49	28.6	17.7	1.28	1060	1.08	2.06	9.1	34.6	1110
YY01700		4.02	15.50	0.07	1.8	0.045	1.49	19.9	18.0	1.16	796	1.29	2.00	8.2	25.0	1150
YY01701		5.06	14.85	0.07	1.2	0.056	1.30	20.2	21.4	1.99	948	2.50	1.77	5.5	62.5	1300
YY01722		4.04	15.40	0.06	1.4	0.058	1.14	17.8	15.1	1.62	777	0.72	2.51	6.9	47.1	490
YY01723		4.22	15.20	0.07	1.5	0.052	1.13	20.5	17.5	1.63	808	0.74	1.97	6.9	44.8	980
YY01724		3.75	14.70	0.08	1.5	0.051	1.32	20.8	16.7	1.37	706	0.65	2.04	7.9	39.0	1020
YY01725		3.62	14.90	0.08	1.9	0.052	1.27	20.7	15.6	1.27	637	0.78	1.85	8.1	34.8	1080
YY01726		4.42	15.70	0.07	1.9	0.060	1.16	19.2	15.6	1.42	1060	0.80	1.73	7.7	33.3	1430
YY01727		3.94	15.35	0.07	1.5	0.050	1.27	21.2	16.9	1.45	852	0.71	1.97	8.1	36.5	1430
YY01728		3.85	15.20	0.08	2.0	0.054	1.27	20.1	16.8	1.39	922	0.75	1.93	8.0	38.7	1380
YY01729		3.60	15.25	0.07	1.7	0.046	1.43	20.2	16.9	1.27	681	0.90	2.03	8.3	31.7	1210
YY01730		3.55	13.45	0.07	1.5	0.049	1.14	17.4	14.6	1.22	874	0.78	1.84	7.0	37.0	1570
YY01731		3.35	13.50	0.07	1.5	0.044	1.44	16.9	15.5	1.04	710	0.82	1.74	7.9	32.6	1450
YY01732		3.57	14.55	0.07	1.7	0.050	1.38	22.3	15.6	1.21	757	0.74	1.92	9.1	34.0	1480
YY01733		3.68	14.90	0.06	1.6	0.049	1.27	16.9	15.8	1.25	903	0.83	1.84	8.0	36.4	1480
YY01734		4.05	14.00	0.07	1.3	0.050	1.12	17.4	17.4	1.60	858	0.82	1.91	5.9	45.8	1020
YY01735		4.08	15.05	0.06	1.5	0.051	1.25	15.5	16.2	1.44	1100	0.84	1.81	7.6	39.1	1110



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

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY01563		10.0	38.7	<0.002	0.02	0.94	20.5	1	1.2	309	0.55	<0.05	5.33	0.487	0.30	1.7
YY01564		9.6	39.5	<0.002	0.02	0.86	18.5	<1	1.1	341	0.50	<0.05	4.81	0.452	0.30	1.6
YY01565		11.6	48.4	<0.002	0.04	0.96	18.3	1	1.2	279	0.53	<0.05	6.43	0.432	0.40	2.0
YY01566		11.0	44.4	<0.002	0.02	1.00	19.1	<1	1.1	292	0.54	<0.05	6.03	0.444	0.36	1.7
YY01567		10.2	42.5	<0.002	0.04	0.97	19.3	<1	1.1	244	0.48	<0.05	5.69	0.455	0.33	1.6
YY01568		10.5	43.2	<0.002	0.02	1.04	19.3	<1	1.1	253	0.51	<0.05	4.94	0.444	0.35	1.6
YY01682		12.6	51.6	<0.002	0.03	1.45	18.4	1	1.2	336	0.52	<0.05	6.12	0.399	0.38	1.8
YY01683		10.7	52.1	<0.002	0.03	1.31	14.5	<1	0.9	357	0.53	<0.05	4.34	0.347	0.37	1.4
YY01684		11.3	50.0	<0.002	0.03	1.33	17.1	1	1.0	339	0.49	<0.05	5.45	0.380	0.36	1.7
YY01685		12.7	50.7	<0.002	0.03	1.33	16.4	1	1.1	357	0.53	0.05	5.57	0.365	0.41	1.9
YY01686		11.8	50.0	<0.002	0.08	1.08	14.9	1	1.0	296	0.53	0.05	4.80	0.369	0.35	1.7
YY01687		11.8	51.2	<0.002	0.06	0.95	16.1	1	1.2	325	0.68	<0.05	7.00	0.407	0.37	2.0
YY01688		18.0	55.1	<0.002	0.04	1.49	21.1	<1	1.2	320	0.57	0.06	6.53	0.422	0.43	2.1
YY01689		11.9	53.8	<0.002	0.06	1.28	15.2	<1	1.1	283	0.56	0.05	5.29	0.363	0.37	1.7
YY01690		12.5	48.8	<0.002	0.04	2.04	21.3	<1	1.1	304	0.52	0.06	5.39	0.399	0.39	1.7
YY01691		12.3	48.8	<0.002	0.04	1.64	22.7	1	1.0	280	0.60	<0.05	5.63	0.405	0.38	1.8
YY01692		11.6	45.8	<0.002	0.03	2.11	24.9	1	1.1	311	0.50	<0.05	5.48	0.442	0.37	1.9
YY01693		12.6	52.4	<0.002	0.03	1.64	21.0	1	1.1	345	0.53	<0.05	5.67	0.419	0.39	2.0
YY01694		11.0	44.7	<0.002	0.06	1.29	33.5	1	1.3	237	0.46	<0.05	4.73	0.626	0.34	1.7
YY01695		18.6	90.2	<0.002	0.11	5.75	47.7	2	1.0	79.5	0.22	0.13	1.25	0.720	0.83	0.5
YY01696		12.2	49.0	<0.002	0.02	1.25	15.7	<1	1.1	327	0.55	<0.05	5.75	0.381	0.37	1.8
YY01697		14.1	53.8	<0.002	0.04	1.33	17.6	1	1.1	331	0.55	0.05	5.54	0.397	0.39	1.8
YY01698		11.9	52.3	<0.002	0.03	1.18	15.3	1	1.2	309	0.70	<0.05	6.60	0.399	0.41	2.3
YY01699		12.4	51.6	<0.002	0.04	1.21	17.6	1	1.3	342	0.66	<0.05	7.97	0.438	0.37	2.3
YY01700		11.0	50.7	<0.002	0.04	1.22	15.1	1	1.1	326	0.63	<0.05	6.16	0.421	0.36	1.9
YY01701		11.5	47.7	<0.002	0.07	2.07	25.1	1	0.9	304	0.38	0.06	4.64	0.373	0.47	1.9
YY01722		8.7	33.7	<0.002	0.02	0.85	21.3	1	1.0	297	0.47	<0.05	4.90	0.478	0.27	1.9
YY01723		10.0	40.5	<0.002	0.04	0.87	20.0	1	1.0	256	0.52	0.05	5.44	0.438	0.31	1.7
YY01724		10.6	48.0	<0.002	0.04	0.97	17.3	<1	1.1	277	0.56	<0.05	5.82	0.418	0.33	1.8
YY01725		10.9	44.5	<0.002	0.04	0.93	16.0	1	1.2	246	0.59	<0.05	5.82	0.424	0.34	1.8
YY01726		9.7	42.2	<0.002	0.05	0.78	18.6	<1	1.2	250	0.54	<0.05	5.13	0.514	0.30	1.8
YY01727		10.1	45.4	<0.002	0.05	0.84	17.3	<1	1.2	278	0.61	0.05	5.73	0.444	0.33	1.9
YY01728		10.7	46.8	<0.002	0.05	0.88	17.3	<1	1.1	263	0.58	<0.05	5.26	0.430	0.34	1.9
YY01729		10.2	47.9	<0.002	0.03	0.90	15.2	<1	1.1	320	0.59	<0.05	5.46	0.431	0.34	1.8
YY01730		10.0	41.7	<0.002	0.06	0.82	16.3	1	1.0	242	0.49	<0.05	5.04	0.409	0.28	1.7
YY01731		10.6	52.0	<0.002	0.07	0.94	13.1	<1	1.1	250	0.56	<0.05	5.75	0.359	0.35	1.8
YY01732		10.7	53.0	<0.002	0.06	0.93	15.6	1	1.2	275	0.72	<0.05	6.02	0.408	0.35	2.5
YY01733		10.9	51.7	<0.002	0.06	0.91	16.3	1	1.1	247	0.56	<0.05	4.59	0.410	0.34	1.6
YY01734		9.1	39.4	<0.002	0.05	0.82	18.7	<1	0.9	249	0.42	<0.05	4.55	0.405	0.27	1.4
YY01735		10.4	51.6	<0.002	0.04	0.93	17.4	<1	1.1	238	0.56	0.06	4.36	0.433	0.33	1.5



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

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 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY01563		153	1.0	21.0	84	45.8
YY01564		133	0.9	19.9	77	45.8
YY01565		139	1.0	19.0	89	49.6
YY01566		141	1.0	20.1	76	46.8
YY01567		151	1.0	18.5	79	42.6
YY01568		149	1.0	19.4	80	42.6
YY01682		145	1.4	18.9	82	46.1
YY01683		114	1.2	14.0	66	42.3
YY01684		130	1.3	18.1	69	43.6
YY01685		121	1.1	18.1	67	46.4
YY01686		126	1.2	15.7	62	55.1
YY01687		126	1.8	19.1	95	51.6
YY01688		160	2.6	21.6	96	51.4
YY01689		120	1.3	15.1	76	57.5
YY01690		153	1.9	18.3	87	49.6
YY01691		173	2.1	22.6	91	56.5
YY01692		181	2.2	23.8	101	48.9
YY01693		155	1.7	22.3	89	49.4
YY01694		262	2.6	35.1	116	64.2
YY01695		391	9.0	25.6	162	27.8
YY01696		124	1.2	16.5	61	49.4
YY01697		140	1.5	16.4	79	48.8
YY01698		139	2.1	16.7	70	63.0
YY01699		145	1.9	19.2	84	58.8
YY01700		139	1.5	14.0	81	59.7
YY01701		199	2.0	22.8	141	41.6
YY01722		149	0.9	20.1	68	47.3
YY01723		143	0.9	20.3	78	45.8
YY01724		126	1.0	18.6	69	50.2
YY01725		119	1.1	17.3	68	60.0
YY01726		153	1.1	19.9	79	56.1
YY01727		134	1.0	20.0	80	47.9
YY01728		130	0.9	19.0	77	59.1
YY01729		123	0.9	16.7	80	73.8
YY01730		117	1.0	17.3	67	52.2
YY01731		100	0.9	15.1	73	45.8
YY01732		115	1.1	18.0	76	53.6
YY01733		122	0.9	16.5	69	54.7
YY01734		136	0.8	16.5	79	43.0
YY01735		136	1.0	16.1	77	54.1



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

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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY01736		0.41	0.001	0.04	7.21	6.8	770	1.12	0.10	2.12	0.14	34.0	17.9	111	1.62	28.8
YY01737		0.40	0.001	0.07	6.99	5.5	740	1.08	0.12	1.72	0.18	33.9	12.3	77	1.58	24.1
YY01738		0.37	<0.001	0.06	7.12	6.3	770	1.07	0.10	1.98	0.16	31.3	15.2	95	1.55	29.8
YY01739		0.44	0.003	0.05	7.12	6.3	760	1.02	0.10	2.04	0.13	33.1	18.6	106	1.54	30.4
YY01740		0.37	0.003	0.07	7.40	6.9	880	1.24	0.11	2.06	0.16	36.4	17.2	111	1.80	36.6
YY01741		0.33	0.014	0.06	7.01	6.1	770	1.06	0.10	1.86	0.20	32.6	14.8	93	1.54	28.1
YY01742		0.22	<0.001	0.09	6.52	3.5	680	1.16	0.11	2.29	0.18	33.2	11.2	58	1.43	26.8
YY01743		0.32	0.002	0.13	7.67	8.3	710	1.03	0.13	2.33	0.19	39.6	20.2	103	1.90	51.3
YY01744		0.36	<0.001	0.09	6.47	6.9	790	1.02	0.12	1.70	0.32	28.8	17.4	108	2.05	29.0
YY01745		0.29	0.001	0.09	7.05	7.5	840	1.11	0.11	1.80	0.23	32.4	14.8	104	1.68	29.9
YY01746		0.37	0.006	0.05	6.91	7.0	760	1.24	0.11	1.67	0.20	33.3	14.3	102	1.58	28.5
YY01747		0.34	0.010	0.11	7.46	8.2	760	1.00	0.10	2.08	0.19	28.7	18.9	112	1.81	43.3
YY01748		0.43	0.006	0.05	7.32	7.3	680	0.93	0.08	2.50	0.16	31.3	17.4	100	1.17	37.4
YY01749		0.34	<0.001	0.07	6.76	8.0	740	1.14	0.13	1.68	0.22	30.4	15.0	99	1.87	29.9
YY01750		0.42	<0.001	0.15	7.52	8.9	720	1.02	0.09	2.09	0.12	30.2	21.0	102	1.73	46.3
YY01985		0.40	0.004	0.06	7.27	8.7	740	0.97	0.08	2.39	0.12	30.5	18.9	104	1.27	39.6
YY01986		0.42	0.005	0.09	7.45	10.3	750	1.01	0.10	2.31	0.16	32.0	21.7	106	1.46	45.5
YY01987		0.37	0.004	0.11	7.28	8.7	670	0.99	0.08	2.11	0.12	29.4	18.7	110	1.47	40.9
YY01988		0.40	0.001	0.07	7.50	7.0	700	0.96	0.10	2.36	0.12	28.9	17.3	95	1.38	41.9
YY01989		0.31	0.002	0.09	7.64	7.5	750	0.98	0.09	1.98	0.17	30.2	21.0	111	1.50	43.1
YY01990		0.42	0.002	0.08	7.83	9.5	810	1.02	0.10	2.21	0.15	30.2	21.6	109	1.88	51.8
YY01991		0.44	0.003	0.08	7.50	6.6	750	1.01	0.09	2.43	0.19	32.8	18.3	103	1.39	44.1
YY01992		0.39	<0.001	0.10	6.96	7.8	710	1.00	0.10	1.74	0.18	32.3	16.1	101	1.70	41.7
YY01993		0.32	<0.001	0.05	7.33	7.5	900	1.21	0.13	1.67	0.15	31.8	14.6	99	2.34	39.7
YY01994		0.37	0.001	0.06	7.46	6.5	770	1.05	0.10	2.32	0.14	33.3	19.0	108	1.62	44.9
ZZ123951		0.35	<0.001	0.06	7.01	7.5	830	1.13	0.14	1.74	0.19	40.1	14.9	90	2.28	30.3
ZZ123952		0.30	0.004	0.08	7.21	7.5	870	1.22	0.14	1.96	0.23	38.8	14.9	93	2.03	32.6
ZZ123953		0.34	0.001	0.06	7.00	6.4	810	1.15	0.12	1.93	0.26	38.6	12.8	89	1.95	30.1
ZZ123954		0.42	<0.001	0.03	7.20	5.9	820	1.19	0.09	2.06	0.24	31.6	13.7	82	1.27	26.0
ZZ123955		0.32	0.015	0.06	6.79	5.9	800	1.12	0.11	2.04	0.23	39.5	12.7	89	1.79	28.1
ZZ123956		0.29	0.001	0.08	7.24	5.9	870	1.28	0.13	2.38	0.11	46.3	18.1	91	2.11	58.7
ZZ123957		0.43	0.002	0.13	7.16	6.1	660	0.99	0.10	3.02	0.19	46.7	28.4	122	1.77	78.2
ZZ123958		0.42	0.003	0.06	7.15	7.4	700	1.12	0.10	2.68	0.16	48.9	21.4	120	1.73	73.7
ZZ123959		0.47	0.003	0.09	7.12	8.8	630	1.05	0.11	2.57	0.22	42.4	31.1	148	1.81	92.3
ZZ123960		0.35	0.006	0.04	7.64	5.8	700	1.03	0.09	2.97	0.17	40.9	25.6	109	1.49	69.5



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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17218829

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY01736		4.13	15.00	0.06	1.4	0.049	1.14	16.9	16.6	1.59	872	0.73	2.01	6.9	44.3	1010
YY01737		3.53	14.90	0.06	1.7	0.042	1.30	17.4	15.7	1.18	668	0.95	1.88	6.7	27.8	1300
YY01738		4.06	14.45	0.06	1.2	0.053	1.09	16.0	16.1	1.46	841	0.62	2.02	6.1	35.1	1160
YY01739		4.07	14.80	0.06	1.3	0.057	1.11	16.4	16.5	1.65	851	0.66	2.08	6.3	44.6	730
YY01740		4.05	15.00	0.07	1.4	0.050	1.32	18.8	18.4	1.59	853	0.62	2.00	7.2	45.9	1070
YY01741		3.69	14.05	0.07	1.4	0.050	1.16	15.6	15.3	1.36	727	0.63	1.98	6.2	36.8	1060
YY01742		2.94	14.10	0.06	1.6	0.037	1.25	17.3	14.9	1.06	671	0.92	1.93	5.9	24.1	1610
YY01743		4.51	15.85	0.07	1.4	0.057	1.11	22.6	17.8	1.71	971	0.81	2.13	5.6	48.6	820
YY01744		3.96	14.20	0.06	1.4	0.051	1.22	14.3	15.5	1.28	1380	1.01	1.77	6.8	35.6	1660
YY01745		4.06	14.10	0.08	1.4	0.052	1.26	16.2	17.3	1.32	777	0.85	1.96	6.6	35.9	880
YY01746		3.77	13.60	0.06	1.5	0.052	1.16	16.4	17.7	1.28	695	0.75	1.78	6.6	35.5	1090
YY01747		4.66	15.15	0.06	1.2	0.057	1.17	15.0	18.1	1.66	965	0.91	2.03	5.5	46.6	830
YY01748		4.32	14.25	0.06	1.2	0.059	0.99	16.3	15.3	1.59	907	0.81	2.39	5.0	40.6	540
YY01749		4.10	14.45	0.07	1.4	0.054	1.11	15.4	17.1	1.31	921	0.95	1.77	7.1	36.8	920
YY01750		4.81	15.25	0.06	1.1	0.061	0.97	15.4	17.7	1.70	1040	0.94	2.13	4.9	43.1	650
YY01985		4.30	14.15	0.07	1.1	0.057	0.98	16.6	15.8	1.59	927	1.12	2.35	4.9	40.7	740
YY01986		4.52	15.10	0.07	1.2	0.063	1.06	16.4	16.6	1.61	987	1.56	2.33	5.4	42.3	700
YY01987		4.51	14.40	0.09	1.2	0.059	0.94	15.1	17.1	1.62	870	1.24	2.19	5.0	44.3	590
YY01988		4.45	14.65	0.07	1.3	0.059	0.96	15.3	16.5	1.62	892	0.64	2.34	5.1	39.8	680
YY01989		4.56	15.10	0.07	1.1	0.057	1.05	15.5	17.6	1.66	999	0.83	2.25	5.1	43.7	850
YY01990		4.93	15.45	0.07	1.2	0.060	1.07	15.5	18.7	1.80	1020	0.71	2.19	5.5	49.4	800
YY01991		4.34	14.90	0.07	1.3	0.053	1.08	17.5	16.5	1.67	903	0.81	2.37	5.4	45.1	750
YY01992		4.18	14.25	0.07	1.5	0.055	1.03	16.6	17.2	1.41	794	0.94	1.80	6.1	42.7	1230
YY01993		4.13	15.85	0.08	1.5	0.059	1.27	16.4	18.0	1.31	715	0.94	1.90	7.2	36.9	640
YY01994		4.52	15.55	0.08	1.2	0.061	1.04	17.0	18.3	1.65	958	0.73	2.26	6.1	44.0	660
ZZ123951		3.76	14.90	0.06	1.3	0.052	1.17	19.6	18.3	1.27	878	0.95	1.86	7.5	32.9	1110
ZZ123952		3.64	14.95	0.08	1.4	0.051	1.30	18.8	17.6	1.29	806	0.83	2.06	7.7	34.8	960
ZZ123953		3.59	14.45	0.07	1.3	0.050	1.22	19.3	16.4	1.19	732	0.68	2.06	7.2	30.2	980
ZZ123954		3.17	13.75	0.07	1.2	0.050	1.25	15.9	14.4	1.11	612	0.63	2.34	5.9	31.7	670
ZZ123955		3.49	14.70	0.09	1.5	0.050	1.25	20.7	13.4	1.10	711	1.03	2.16	6.6	30.3	890
ZZ123956		3.57	15.40	0.07	1.7	0.044	1.24	23.0	16.9	1.27	796	0.90	2.00	8.1	43.6	960
ZZ123957		4.69	14.75	0.08	1.5	0.057	1.04	23.3	18.4	1.67	1000	0.80	1.94	7.1	63.8	1020
ZZ123958		4.35	14.20	0.08	1.6	0.054	1.07	24.2	17.1	1.66	859	1.05	1.97	7.7	57.1	690
ZZ123959		5.56	14.00	0.06	1.5	0.058	0.92	20.0	18.7	2.05	1060	1.80	1.74	7.0	107.0	900
ZZ123960		4.27	14.90	0.09	1.3	0.058	1.07	18.8	15.7	1.65	816	0.72	2.11	7.7	59.9	740



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CERTIFICATE OF ANALYSIS WH17218829

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
YY01736		9.5	40.6	<0.002	0.04	0.84	20.0	<1	1.0	260	0.49	0.05	4.67	0.441	0.30	1.5
YY01737		9.3	41.5	<0.002	0.05	0.77	14.3	1	1.0	318	0.48	<0.05	4.83	0.396	0.29	1.6
YY01738		9.4	37.2	<0.002	0.04	0.83	19.2	<1	0.9	247	0.44	<0.05	4.11	0.432	0.28	1.4
YY01739		9.6	37.8	<0.002	0.02	0.83	20.2	1	1.0	252	0.46	<0.05	4.98	0.450	0.28	1.5
YY01740		9.7	47.9	<0.002	0.03	0.92	18.6	1	1.1	268	0.53	<0.05	5.31	0.408	0.33	1.6
YY01741		9.2	40.0	<0.002	0.05	0.81	17.3	<1	1.0	261	0.43	<0.05	4.15	0.409	0.28	1.4
YY01742		7.7	38.0	<0.002	0.10	0.59	11.9	<1	0.9	389	0.43	<0.05	4.20	0.338	0.24	1.7
YY01743		12.4	41.5	<0.002	0.03	0.91	23.7	<1	0.9	251	0.37	<0.05	4.82	0.489	0.30	1.6
YY01744		10.2	59.4	<0.002	0.06	0.88	16.5	<1	1.0	230	0.46	<0.05	3.80	0.422	0.33	1.3
YY01745		10.0	45.1	<0.002	0.04	0.91	16.6	<1	1.0	260	0.45	<0.05	4.17	0.407	0.32	1.4
YY01746		9.7	41.1	<0.002	0.05	0.88	16.8	<1	1.0	237	0.47	0.05	4.29	0.378	0.29	1.5
YY01747		9.6	42.1	<0.002	0.02	1.02	21.1	<1	1.0	245	0.41	0.05	3.34	0.456	0.31	1.3
YY01748		8.0	30.1	<0.002	0.01	1.00	23.5	<1	0.9	269	0.34	<0.05	3.38	0.480	0.25	1.4
YY01749		9.7	43.3	<0.002	0.04	0.92	17.4	1	1.1	225	0.52	0.05	3.73	0.410	0.31	1.4
YY01750		9.1	34.1	<0.002	0.02	1.01	23.3	<1	1.0	234	0.32	<0.05	3.29	0.471	0.30	1.2
YY01985		8.8	30.8	<0.002	0.02	0.99	23.5	<1	0.9	265	0.32	<0.05	3.32	0.483	0.30	1.2
YY01986		10.1	33.6	<0.002	0.02	1.23	24.2	<1	0.9	263	0.36	<0.05	3.75	0.491	0.35	1.5
YY01987		8.8	30.3	<0.002	0.02	0.98	23.6	1	0.9	235	0.34	0.05	3.07	0.479	0.29	1.3
YY01988		8.2	30.2	<0.002	0.02	0.86	24.6	1	0.9	254	0.33	<0.05	3.13	0.486	0.25	1.2
YY01989		9.5	33.1	<0.002	0.03	0.88	23.5	1	0.9	240	0.34	<0.05	3.38	0.470	0.34	1.3
YY01990		9.3	37.0	<0.002	0.02	1.17	23.3	<1	0.9	249	0.37	0.05	3.51	0.482	0.31	1.3
YY01991		8.3	33.1	<0.002	0.01	0.93	22.8	<1	0.9	291	0.39	<0.05	3.96	0.484	0.26	1.4
YY01992		8.9	38.1	<0.002	0.06	0.90	18.8	1	1.0	226	0.42	<0.05	3.97	0.430	0.29	1.8
YY01993		12.3	45.7	<0.002	0.02	1.19	16.0	<1	1.2	245	0.48	<0.05	4.64	0.442	0.43	1.5
YY01994		10.0	34.7	<0.002	0.01	0.98	20.4	<1	1.1	268	0.39	0.05	3.84	0.503	0.32	1.3
ZZ123951		13.0	44.5	<0.002	0.05	0.97	14.8	<1	1.2	247	0.49	<0.05	6.47	0.393	0.40	1.8
ZZ123952		13.0	45.9	<0.002	0.04	1.10	15.3	1	1.2	281	0.54	<0.05	5.99	0.388	0.38	1.9
ZZ123953		14.0	43.4	<0.002	0.04	1.03	15.0	<1	1.1	283	0.46	<0.05	5.79	0.398	0.34	1.6
ZZ123954		12.4	40.5	<0.002	0.02	0.96	14.7	<1	1.0	301	0.40	<0.05	4.21	0.361	0.30	1.3
ZZ123955		12.2	45.5	<0.002	0.04	1.07	15.2	<1	1.1	277	0.49	<0.05	5.19	0.399	0.34	1.5
ZZ123956		14.2	45.0	<0.002	0.05	0.87	14.2	<1	1.2	303	0.57	<0.05	7.08	0.379	0.36	2.3
ZZ123957		12.5	36.7	<0.002	0.05	0.82	17.9	1	1.1	271	0.48	0.06	6.12	0.442	0.30	2.1
ZZ123958		10.9	37.6	<0.002	0.04	0.99	17.0	<1	1.1	278	0.55	<0.05	7.42	0.428	0.33	1.9
ZZ123959		9.9	32.2	<0.002	0.06	1.14	17.0	<1	1.0	246	0.46	<0.05	6.67	0.397	0.30	2.1
ZZ123960		8.8	34.7	<0.002	0.02	0.89	17.5	<1	1.1	308	0.53	<0.05	5.19	0.471	0.27	1.6



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CERTIFICATE OF ANALYSIS WH17218829

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY01736		140	0.9	18.1	73	46.2
YY01737		112	0.9	14.6	71	56.2
YY01738		140	1.0	17.9	80	40.6
YY01739		146	0.9	17.8	73	39.6
YY01740		135	0.9	19.0	79	47.9
YY01741		127	0.8	16.5	72	50.8
YY01742		91	0.6	14.0	68	56.0
YY01743		160	1.0	26.8	87	44.9
YY01744		133	0.9	15.4	88	44.8
YY01745		133	1.5	16.6	72	46.1
YY01746		124	0.8	17.0	70	50.1
YY01747		163	0.9	20.9	88	37.9
YY01748		163	0.8	21.6	78	39.6
YY01749		138	0.8	17.1	76	46.9
YY01750		174	1.2	20.2	82	35.2
YY01985		170	1.0	21.1	73	36.3
YY01986		178	1.0	22.0	78	38.8
YY01987		172	1.0	19.8	77	38.0
YY01988		168	1.0	21.3	77	37.6
YY01989		166	0.9	21.2	84	35.7
YY01990		177	1.1	20.3	86	37.5
YY01991		163	1.0	21.3	83	41.6
YY01992		141	0.9	20.1	76	44.7
YY01993		146	1.1	15.9	73	46.2
YY01994		165	1.1	21.2	82	38.5
ZZ123951		125	1.0	16.9	74	42.1
ZZ123952		118	1.0	17.8	78	43.1
ZZ123953		121	1.0	16.4	79	41.4
ZZ123954		109	1.0	16.7	55	34.6
ZZ123955		124	1.0	16.4	63	45.8
ZZ123956		113	1.0	18.5	65	51.2
ZZ123957		145	1.5	21.5	81	43.1
ZZ123958		132	1.0	20.2	86	45.8
ZZ123959		136	0.8	19.6	86	47.2
ZZ123960		140	0.8	19.4	69	40.5



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CERTIFICATE OF ANALYSIS WH17218829

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
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- MS61



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CERTIFICATE WH17218981

Project: Hartless Joe

This report is for 16 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- SEP- 2017.

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
SCR- 21	Screen 1kg to 106 to 106um
FND- 03	Find Reject for Addn Analysis
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR24	Au Screen FA Double Minus 50g	WST- SIM
Au- AA26	Ore Grade Au 50g FA AA finish	AAS
Au- AA26D	Ore Grade Au 50g FA AA Dup	AAS

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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Sample Description	Method	Au- SCR24	Au- SCR24	Au- SCR24	Au- SCR24	Au- SCR24	Au- AA26	Au- AA26D	
	Analyte	Au Total	Au (+) F	Au (-) F	Au (+) m	WT. + Fr	WT. - Fr	Au	
	Units	ppm	ppm	ppm	mg	g	g	ppm	
Method	Units	LOR							
K291622		0.56	0.48	0.57	0.024	50.00	598.9	0.59	0.55
K291623		0.11	<0.05	0.12	<0.001	45.87	641.3	0.12	0.12
K291624		1.39	2.12	1.37	0.033	15.53	606.4	1.40	1.34
K291625		45.1	83.0	42.8	3.160	38.09	622.5	43.1	42.4
K291626		0.40	0.45	0.40	0.005	11.05	602.9	0.41	0.39
K291627		10.50	42.8	9.42	0.837	19.54	579.6	9.48	9.36
K291628		<0.05	<0.05	<0.05	<0.001	8.10	575.8	0.04	0.03
K291629		5.90	3.96	5.98	0.104	26.24	659.6	6.07	5.89
K291630		3.30	13.35	3.18	0.113	8.46	680.2	3.22	3.13
K292837		<0.05	<0.05	<0.05	<0.001	42.46	264.9	0.02	0.03
K292838		<0.05	<0.05	<0.05	<0.001	68.60	600.7	0.04	0.04
K292839		6.41	22.7	5.77	0.575	25.38	645.9	5.74	5.80
K292840		19.80	143.5	16.95	2.172	15.12	656.4	16.65	17.20
K292841		25.5	136.0	19.75	4.618	34.02	654.6	19.95	19.55
K292842		23.9	331	18.10	4.356	13.14	695.7	18.20	18.00
K292843		1.04	1.27	1.02	0.073	57.42	537.7	0.99	1.04



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Page: **Appendix 1**
Total # Appendix Pages: **1**
Finalized Date: **30- OCT- 2017**
Account: **MTT**

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17218981

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. FND- 03	SPL- 21	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au- AA26	Au- AA26D	Au- SCR24
	PUL- 32	SCR- 21	BAG- 01



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Page: 1
Total # Pages: 2 (A)
Plus Appendix Pages
Finalized Date: 5- NOV- 2017
Account: MTT

CERTIFICATE WH17228180

Project: Hartless Joe

This report is for 3 Rock samples submitted to our lab in Whitehorse, YT, Canada on 27- SEP- 2017.

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
SCR- 21	Screen 1kg to 106 to 106um
FND- 03	Find Reject for Addn Analysis
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um
BAG- 01	Bulk Master for Storage

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- SCR21	Au Screen Fire Assay - 100 to 106 um	WST- SIM
Au- AA25	Ore Grade Au 30g FA AA finish	AAS
Au- AA25D	Ore Grade Au 30g FA AA Dup	AAS

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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 Finalized Date: 5- NOV- 2017
 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17228180

Sample Description	Method Analyte Units LOR	Au- SCR21	Au- SCR21	Au- SCR21	Au- SCR21	Au- SCR21	Au- SCR21	Au- AA25	Au- AA25D
		Au Total ppm	Au (+) F ppm	Au (-) F ppm	Au (+) m mg	WT. + Fr g	WT. - Fr g	Au ppm	Au ppm
		0.05	0.05	0.05	0.001	0.01	0.1	0.01	0.01
W420570		0.51	1.84	0.47	0.056	30.48	968.2	0.49	0.45
W420571		0.09	0.21	0.09	0.006	28.07	1010.5	0.09	0.09
W420572		7.53	115.5	6.78	0.597	5.16	743.2	7.18	6.37



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Total # Pages: 6 (A - D)
Plus Appendix Pages
Finalized Date: 9- AUG- 2017
Account: MTT

CERTIFICATE WH17146623

Project: Hartless Joe

This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 14-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
ME- MS61	48 element four acid ICP- MS
Au- ICP21	Au 30g FA ICP- AES Finish ICP- AES

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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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17146623

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR																
ZZ117001		0.25	0.005	0.13	7.74	20.6	600	1.07	0.62	1.49	0.24	25.7	40.0	135	10.95	107.0
ZZ117002		0.22	0.004	0.10	7.67	8.7	810	1.25	0.32	1.48	0.13	34.2	18.2	120	11.50	38.0
ZZ117003		0.41	0.001	0.12	7.99	21.7	680	1.30	0.24	2.86	0.17	33.9	26.6	133	4.83	66.0
ZZ117004		0.35	0.002	0.06	8.40	5.7	740	1.37	0.11	2.45	0.13	39.1	21.3	155	3.61	60.2
ZZ117005		0.33	0.001	0.11	8.00	19.7	690	1.18	0.20	2.72	0.19	32.2	23.9	121	3.67	58.3
ZZ117006		0.35	0.001	0.12	7.65	24.3	730	1.16	0.27	2.31	0.13	32.1	21.5	121	3.86	46.3
ZZ117007		0.29	<0.001	0.07	7.56	27.5	600	1.06	0.24	3.17	0.17	27.5	20.2	118	2.34	38.0
ZZ117008		0.31	0.003	0.13	7.81	29.0	670	1.10	0.27	2.89	0.19	31.0	23.6	126	3.45	58.8
ZZ117009		0.30	<0.001	0.09	7.65	27.4	690	1.14	0.22	3.10	0.22	44.1	20.4	119	2.36	41.3
ZZ117010		0.38	0.007	0.16	9.04	19.4	500	0.75	0.26	2.55	0.17	20.3	44.0	194	7.18	115.0
ZZ117011		0.30	0.011	0.11	10.05	20.7	430	0.55	0.13	1.93	0.17	9.10	49.8	219	6.82	118.0
ZZ117012		0.26	0.002	0.15	9.26	6.5	350	0.84	0.15	1.78	0.21	15.65	46.5	150	7.79	113.0
ZZ117013		0.29	<0.001	0.13	8.45	13.8	260	0.40	0.13	3.07	0.21	5.47	38.9	344	6.51	97.4
ZZ117014		0.25	0.001	0.14	8.17	25.0	660	1.09	0.34	2.90	0.17	31.6	24.6	147	3.52	71.8
ZZ117015		0.27	<0.001	0.11	7.17	11.8	610	1.01	0.25	2.42	0.20	27.0	23.2	113	3.49	60.2
ZZ117016		0.33	<0.001	0.14	8.12	21.0	750	1.03	0.23	2.74	0.14	27.7	27.0	137	4.16	74.4
ZZ117017		0.25	0.001	0.10	8.32	16.4	720	0.97	0.21	2.37	0.17	30.4	25.6	124	3.75	59.5
ZZ117018		0.47	0.001	0.11	7.93	8.6	850	1.12	0.19	2.31	0.11	33.3	21.0	110	4.34	55.8
ZZ117019		0.33	0.004	0.11	8.17	3.8	650	1.00	0.18	2.74	0.16	28.8	26.6	139	3.61	76.0
ZZ117020		0.29	<0.001	0.05	7.66	4.9	680	1.07	0.20	2.29	0.17	32.2	24.5	93	3.47	59.3
ZZ117021		0.31	<0.001	0.10	8.08	6.0	870	1.38	0.23	2.68	0.19	36.9	22.3	98	4.83	79.5
ZZ117022		0.31	0.001	0.05	8.17	10.3	690	1.03	0.20	2.28	0.15	27.2	28.7	130	2.89	124.5
ZZ117023		0.34	0.001	0.08	8.09	6.1	790	1.11	0.18	2.39	0.13	33.1	24.6	148	3.36	69.1
ZZ117024		0.17	<0.001	0.15	6.71	7.5	560	1.05	0.22	2.56	0.19	28.4	28.2	96	3.56	193.5
ZZ117025		0.32	<0.001	0.15	7.74	5.1	680	1.07	0.22	2.65	0.18	29.5	31.7	104	4.28	141.5
ZZ117026		0.26	0.001	0.09	7.08	6.0	800	1.10	0.18	2.56	0.20	29.9	23.4	92	3.02	86.0
ZZ117027		0.29	0.001	0.07	7.32	4.4	560	0.99	0.20	2.80	0.16	25.9	28.7	82	3.33	78.0
ZZ117028		0.27	0.001	0.09	7.17	7.0	890	1.44	0.19	2.12	0.14	46.1	16.7	85	3.35	121.5
ZZ117029		0.14	0.002	0.17	7.27	6.7	400	0.74	0.20	2.83	1.00	24.4	51.7	83	6.41	1330
ZZ117030		0.20	0.004	0.18	8.65	27.5	580	1.12	0.20	1.83	0.28	23.3	35.9	172	8.89	191.0
ZZ117031		0.26	0.003	0.14	7.72	4.6	790	1.21	0.20	1.90	0.16	34.3	21.7	99	5.03	143.0
ZZ117032		0.35	0.007	0.12	7.46	5.0	640	1.11	0.21	2.38	0.21	31.6	32.9	122	4.10	595
ZZ117033		0.28	<0.001	0.07	7.01	5.8	760	1.32	0.26	2.09	0.11	32.2	18.1	113	2.60	67.3
ZZ117034		0.25	0.064	0.15	7.71	4.1	610	1.25	0.18	2.92	0.19	25.1	29.4	189	4.37	155.5
ZZ117035		0.21	0.002	0.15	7.55	3.6	540	0.91	0.16	4.01	0.28	14.65	48.5	249	2.99	159.5
ZZ117036		0.29	0.003	0.12	7.70	2.2	710	1.19	0.18	3.12	0.23	13.75	41.0	170	4.17	112.5
ZZ117037		0.24	0.006	0.31	8.09	5.5	390	0.80	0.16	3.59	0.23	16.55	52.9	131	3.97	240
ZZ117038		0.26	0.006	0.21	7.81	6.5	640	1.09	0.20	3.47	0.26	28.8	47.7	78	3.70	146.5
ZZ117039		0.30	<0.001	0.12	7.51	3.5	900	1.54	0.18	2.09	0.14	46.3	10.8	47	2.22	35.3
ZZ117040		0.23	0.004	0.14	7.38	5.9	1020	1.44	0.25	2.32	0.19	56.5	16.2	90	2.33	39.9



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 Finalized Date: 9- AUG- 2017
 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17146623

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ117001		4.83	16.30	0.11	1.1	0.052	1.18	11.9	35.2	1.77	1200	2.64	1.16	5.1	80.6	880
ZZ117002		3.98	15.85	0.11	1.2	0.052	1.48	17.8	55.0	1.52	753	1.60	1.60	7.6	46.4	750
ZZ117003		4.66	16.55	0.11	1.2	0.047	1.13	18.1	36.3	2.12	843	1.47	2.03	6.2	74.1	600
ZZ117004		3.39	16.20	0.12	1.5	0.036	1.21	22.0	28.7	2.01	612	0.49	2.35	7.2	62.0	570
ZZ117005		4.41	16.90	0.09	1.3	0.059	1.13	17.1	24.2	2.08	861	1.16	2.09	6.2	64.0	910
ZZ117006		4.13	16.20	0.10	1.3	0.046	1.23	17.9	23.9	1.78	687	1.34	1.91	6.7	62.3	780
ZZ117007		4.18	14.30	0.10	1.1	0.045	1.08	13.9	18.3	1.92	716	1.66	2.39	5.3	53.4	470
ZZ117008		4.39	15.55	0.11	1.1	0.049	1.14	15.6	23.7	2.01	791	1.53	2.12	5.5	68.1	680
ZZ117009		3.92	15.30	0.09	1.4	0.045	1.14	24.6	18.8	1.95	745	1.27	2.23	7.4	59.0	700
ZZ117010		4.53	15.10	0.10	0.9	0.035	0.82	9.5	43.6	3.19	1000	1.06	1.47	3.8	160.0	540
ZZ117011		5.35	16.70	0.06	0.4	0.039	0.51	4.3	83.7	2.46	1540	0.73	0.91	1.1	134.5	190
ZZ117012		5.40	17.20	0.06	1.1	0.040	0.47	7.0	53.3	2.54	1480	0.92	0.76	3.3	95.7	560
ZZ117013		4.14	14.80	0.06	0.5	0.033	0.39	2.6	48.7	3.22	1320	0.53	1.01	1.4	109.5	320
ZZ117014		4.40	15.35	0.10	1.2	0.050	1.04	14.2	24.0	2.14	844	1.60	2.09	5.7	73.6	510
ZZ117015		3.63	14.40	0.08	1.0	0.042	0.97	13.3	18.5	1.76	763	1.48	1.59	5.3	62.6	1130
ZZ117016		4.35	16.70	0.08	1.2	0.053	1.04	13.1	24.6	2.29	776	1.21	1.79	5.5	78.9	590
ZZ117017		4.40	17.05	0.08	1.3	0.053	1.05	15.0	25.9	2.11	929	0.98	1.86	5.7	67.6	960
ZZ117018		3.94	16.15	0.10	1.3	0.048	1.21	17.2	24.2	1.87	729	0.80	1.83	6.5	57.6	840
ZZ117019		4.19	17.05	0.10	1.3	0.044	0.89	13.3	25.5	2.44	852	0.74	1.74	5.1	70.9	710
ZZ117020		4.40	15.35	0.10	1.2	0.039	1.00	15.6	16.0	1.73	787	3.01	1.81	6.7	48.5	1140
ZZ117021		3.68	18.20	0.11	1.6	0.042	1.20	16.8	20.7	1.73	758	1.24	1.86	6.6	57.6	880
ZZ117022		3.93	15.95	0.10	1.2	0.041	1.05	13.0	20.7	2.14	695	1.54	1.59	6.6	113.0	900
ZZ117023		4.11	17.75	0.10	1.3	0.048	1.06	14.3	24.0	2.24	800	0.85	1.90	6.4	61.1	530
ZZ117024		3.51	14.20	0.11	1.1	0.041	0.98	13.2	18.7	1.61	850	4.79	1.42	5.4	71.1	1510
ZZ117025		4.25	17.30	0.11	1.4	0.044	1.06	13.7	23.5	2.31	1120	1.67	1.80	5.7	63.2	940
ZZ117026		3.61	14.80	0.11	1.2	0.040	0.98	13.6	19.2	1.72	831	2.42	1.59	5.6	49.6	1110
ZZ117027		3.98	15.90	0.10	1.1	0.039	0.88	11.6	17.3	1.63	885	2.64	1.46	6.0	47.6	1310
ZZ117028		3.55	16.60	0.11	1.7	0.051	1.43	20.5	19.6	1.38	680	2.43	1.96	11.3	42.7	770
ZZ117029		4.78	14.65	0.07	0.7	0.063	0.56	9.5	33.5	2.43	3970	5.44	0.77	2.6	68.2	1030
ZZ117030		6.27	17.90	0.09	0.9	0.062	0.83	11.2	76.8	1.77	1620	3.22	1.04	3.6	74.3	870
ZZ117031		3.88	17.40	0.09	1.4	0.044	1.17	16.7	26.5	1.51	855	3.86	1.59	6.1	41.6	1100
ZZ117032		4.32	16.35	0.09	1.3	0.046	0.95	14.8	21.2	1.78	817	14.35	1.50	5.7	52.6	1200
ZZ117033		3.51	15.55	0.10	1.2	0.044	1.16	14.9	18.6	1.42	704	14.60	1.62	6.8	40.2	930
ZZ117034		4.18	16.45	0.12	1.4	0.047	0.92	10.2	24.0	2.45	998	3.32	1.40	5.6	67.4	1010
ZZ117035		4.79	17.00	0.06	1.2	0.045	0.59	6.6	25.0	3.01	1490	1.29	1.23	2.9	80.6	480
ZZ117036		4.94	18.30	0.07	1.1	0.049	1.07	5.8	22.7	3.01	1520	0.94	1.20	3.7	65.9	470
ZZ117037		5.59	17.30	0.10	1.1	0.048	0.68	7.2	23.5	3.24	1120	1.61	1.36	3.8	176.0	680
ZZ117038		4.64	17.80	0.09	1.4	0.042	1.07	13.9	17.9	1.80	919	2.74	1.73	4.8	61.6	1240
ZZ117039		2.82	18.30	0.12	2.3	0.029	1.81	24.1	21.2	0.95	580	1.21	2.44	7.9	19.3	860
ZZ117040		3.53	16.05	0.14	1.5	0.042	1.46	30.4	17.1	1.40	748	0.62	2.32	8.7	35.8	970



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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 LIMITED
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 Finalized Date: 9- AUG- 2017
 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17146623

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
ZZ117001		13.0	60.4	<0.002	0.05	1.31	23.0	1	1.0	149.0	0.36	0.07	3.60	0.442	0.53	1.7
ZZ117002		10.8	58.8	<0.002	0.04	3.69	21.2	1	1.1	239	0.54	<0.05	4.89	0.428	0.50	1.6
ZZ117003		11.3	29.0	<0.002	0.02	1.30	24.1	1	0.9	244	0.45	<0.05	10.35	0.411	0.38	2.6
ZZ117004		8.4	40.3	<0.002	0.01	0.72	21.3	1	0.8	269	0.54	<0.05	10.70	0.302	0.38	2.6
ZZ117005		10.5	35.9	<0.002	0.04	1.13	22.9	1	1.0	251	0.41	<0.05	5.74	0.433	0.37	1.9
ZZ117006		11.3	47.4	<0.002	0.05	1.17	20.3	1	1.0	236	0.49	0.07	6.27	0.427	0.40	2.0
ZZ117007		9.6	34.9	<0.002	0.03	1.41	20.8	1	0.8	258	0.40	<0.05	3.85	0.435	0.34	1.5
ZZ117008		10.3	42.3	<0.002	0.03	1.31	22.5	1	0.9	246	0.37	0.05	5.44	0.415	0.38	1.8
ZZ117009		10.1	39.3	<0.002	0.02	1.20	20.6	1	1.0	284	0.62	<0.05	7.52	0.425	0.33	2.0
ZZ117010		7.0	15.9	<0.002	0.03	1.35	20.6	1	0.6	231	0.26	<0.05	2.96	0.295	0.28	1.2
ZZ117011		6.9	7.7	<0.002	0.01	2.75	37.7	1	0.2	153.0	0.07	<0.05	1.38	0.185	0.22	0.8
ZZ117012		7.9	5.8	<0.002	0.01	0.93	35.5	1	0.5	119.0	0.22	<0.05	1.98	0.294	0.20	0.9
ZZ117013		5.3	3.6	<0.002	0.02	2.15	35.6	<1	0.3	270	0.11	0.05	0.77	0.194	0.15	0.4
ZZ117014		10.2	36.7	<0.002	0.04	1.51	22.0	1	0.8	244	0.43	0.05	5.35	0.379	0.35	1.6
ZZ117015		9.0	40.0	<0.002	0.09	0.85	17.0	1	0.8	209	0.36	<0.05	3.96	0.330	0.28	1.4
ZZ117016		10.2	24.8	<0.002	0.04	1.07	20.4	1	0.8	237	0.37	<0.05	4.91	0.384	0.33	1.6
ZZ117017		10.4	35.2	<0.002	0.05	0.99	21.4	1	0.9	230	0.39	<0.05	5.10	0.393	0.38	1.7
ZZ117018		10.2	43.9	<0.002	0.05	0.83	20.3	1	0.9	261	0.46	<0.05	8.71	0.346	0.35	2.0
ZZ117019		10.4	24.7	<0.002	0.04	0.65	23.1	1	0.8	237	0.34	<0.05	4.18	0.339	0.28	1.4
ZZ117020		10.7	38.7	<0.002	0.09	0.85	16.9	1	0.9	220	0.48	<0.05	4.49	0.337	0.31	1.4
ZZ117021		14.3	35.8	<0.002	0.04	0.78	17.4	1	1.0	308	0.46	<0.05	6.28	0.349	0.34	1.9
ZZ117022		10.3	37.8	<0.002	0.07	0.91	16.9	1	1.0	219	0.44	0.07	4.36	0.348	0.32	1.3
ZZ117023		11.0	28.4	<0.002	0.03	0.79	23.6	1	1.0	255	0.46	0.05	4.92	0.387	0.35	1.5
ZZ117024		9.5	37.2	<0.002	0.13	0.74	16.3	2	0.8	241	0.37	0.06	3.78	0.271	0.27	1.5
ZZ117025		10.1	29.3	<0.002	0.05	0.75	26.1	1	0.9	278	0.38	<0.05	4.11	0.326	0.30	1.4
ZZ117026		9.7	36.3	<0.002	0.08	0.82	18.3	1	0.8	234	0.38	0.05	3.97	0.298	0.28	1.3
ZZ117027		9.5	37.1	<0.002	0.10	0.74	17.0	1	0.9	188.5	0.42	0.05	3.26	0.288	0.27	1.5
ZZ117028		12.6	54.5	<0.002	0.04	1.05	17.1	1	1.4	282	0.75	0.05	6.16	0.373	0.39	2.3
ZZ117029		11.0	21.0	<0.002	0.11	0.72	39.8	2	0.6	143.0	0.18	<0.05	2.16	0.227	0.24	1.3
ZZ117030		10.6	27.6	<0.002	0.06	3.01	43.3	1	0.7	153.5	0.24	<0.05	3.13	0.268	0.28	1.5
ZZ117031		12.1	39.3	<0.002	0.07	0.86	18.5	1	0.9	238	0.40	<0.05	4.89	0.314	0.32	2.1
ZZ117032		11.2	39.3	<0.002	0.10	0.82	19.1	1	0.9	208	0.39	0.06	4.38	0.335	0.30	1.5
ZZ117033		11.5	46.6	<0.002	0.08	0.85	14.7	1	1.1	232	0.45	<0.05	4.75	0.330	0.34	1.4
ZZ117034		11.7	18.4	<0.002	0.04	0.73	20.3	1	1.0	211	0.38	<0.05	3.51	0.327	0.31	1.3
ZZ117035		7.4	5.2	<0.002	0.02	0.50	24.4	1	0.6	264	0.20	<0.05	1.64	0.324	0.18	0.8
ZZ117036		11.2	12.3	<0.002	0.01	0.47	27.8	1	1.0	230	0.26	<0.05	1.68	0.367	0.38	0.8
ZZ117037		14.0	8.2	<0.002	0.04	0.64	17.1	1	0.8	249	0.26	0.07	1.70	0.413	0.24	0.8
ZZ117038		13.0	31.6	<0.002	0.06	0.71	18.9	2	0.9	280	0.33	0.06	3.65	0.332	0.28	1.6
ZZ117039		12.1	51.5	<0.002	0.02	0.77	10.3	1	1.1	478	0.56	<0.05	6.51	0.342	0.36	2.3
ZZ117040		15.1	53.0	<0.002	0.01	0.97	17.0	1	1.2	353	0.59	0.05	8.19	0.391	0.40	2.2



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

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

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ117001		174	6.4	14.6	107	30.4
ZZ117002		139	3.7	14.9	58	40.0
ZZ117003		147	2.5	16.9	73	42.0
ZZ117004		107	1.2	13.5	55	48.8
ZZ117005		151	1.2	19.1	83	41.3
ZZ117006		143	11.3	16.0	81	49.0
ZZ117007		151	2.5	17.3	72	32.9
ZZ117008		152	1.8	17.0	80	34.9
ZZ117009		135	1.6	19.6	71	44.9
ZZ117010		115	2.0	10.9	66	27.0
ZZ117011		128	3.3	8.7	56	11.6
ZZ117012		151	2.4	13.3	68	44.2
ZZ117013		127	1.3	9.6	49	13.6
ZZ117014		141	4.4	14.6	69	35.5
ZZ117015		111	1.3	11.9	71	34.1
ZZ117016		141	2.8	13.7	77	38.9
ZZ117017		144	1.4	15.4	82	42.7
ZZ117018		125	1.2	15.1	66	42.9
ZZ117019		134	1.8	13.0	66	39.5
ZZ117020		143	1.2	11.5	82	39.1
ZZ117021		117	1.3	12.9	71	55.3
ZZ117022		117	1.5	11.1	74	36.7
ZZ117023		146	1.7	13.2	58	42.6
ZZ117024		104	1.6	13.0	79	37.4
ZZ117025		138	1.3	18.3	72	48.2
ZZ117026		113	1.3	12.7	70	36.5
ZZ117027		127	1.1	12.1	79	32.1
ZZ117028		111	1.4	15.5	65	57.7
ZZ117029		148	3.2	41.0	85	20.0
ZZ117030		177	3.6	27.7	91	27.3
ZZ117031		123	2.0	15.5	69	50.0
ZZ117032		131	1.8	15.5	78	39.4
ZZ117033		110	1.5	11.8	64	39.7
ZZ117034		128	1.4	13.0	71	48.7
ZZ117035		157	1.3	14.9	60	35.8
ZZ117036		178	1.8	13.9	60	33.9
ZZ117037		142	1.7	13.7	84	31.8
ZZ117038		138	2.5	15.0	85	51.0
ZZ117039		83	1.5	12.3	63	81.1
ZZ117040		117	1.5	19.0	61	50.0



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

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

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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
ZZ117041		0.42	0.011	0.28	8.07	6.8	1070	1.54	0.23	2.05	0.23	50.9	17.4	83	4.86	48.7
ZZ117042		0.21	0.011	0.19	6.79	7.3	350	0.89	0.24	3.61	0.35	21.2	71.2	75	3.26	306
ZZ117043		0.25	0.034	0.17	7.71	9.4	710	1.21	0.18	2.62	0.24	40.9	24.8	81	5.55	91.9
ZZ117044		0.24	0.005	0.04	5.79	5.3	840	1.20	0.16	1.48	0.34	42.4	10.4	71	2.28	19.6
ZZ117045		0.24	<0.001	0.04	7.73	4.0	740	1.45	0.10	1.46	0.13	48.2	15.9	135	8.65	28.7
ZZ117046		0.29	0.003	0.03	6.77	5.9	870	1.32	0.14	1.78	0.14	49.0	12.9	87	2.61	28.4
ZZ117047		0.23	0.002	0.07	6.41	4.9	930	1.24	0.14	1.58	0.24	37.3	9.7	72	2.73	17.3
ZZ117048		0.21	0.021	0.04	6.90	3.9	1000	1.34	0.11	1.94	0.14	46.9	10.1	69	1.65	23.1
ZZ117049		0.24	0.004	0.09	6.74	4.4	820	1.29	0.12	2.16	0.17	47.2	13.0	89	1.41	50.9
ZZ117050		0.27	0.002	0.06	7.55	4.8	880	1.25	0.17	2.00	0.18	44.3	18.0	92	2.80	35.7
ZZ117051		0.21	0.001	0.09	6.91	7.3	610	0.93	0.13	2.13	0.18	32.1	14.7	97	1.61	43.7
ZZ117052		0.23	0.009	0.16	7.08	8.7	750	1.23	0.28	2.08	0.47	51.5	50.8	90	3.86	149.0
ZZ117053		0.17	0.001	0.09	7.15	5.0	910	1.49	0.17	2.00	0.38	62.4	15.4	78	2.30	41.5
ZZ117054		0.34	0.003	0.10	7.35	7.2	870	1.35	0.15	2.21	0.23	66.0	17.1	74	4.00	59.5
ZZ117055		0.18	0.012	0.15	7.14	7.5	920	1.51	0.15	2.64	0.22	65.0	19.2	98	2.34	53.8
ZZ117056		0.35	0.009	0.17	8.13	10.5	680	1.13	0.13	2.57	0.37	35.0	31.7	122	6.24	82.2
ZZ117057		0.24	0.009	0.07	6.98	6.7	920	1.34	0.17	2.06	0.11	52.8	17.0	81	2.68	26.6
ZZ117058		0.27	0.053	0.08	6.87	5.3	820	1.39	0.16	2.11	0.18	54.7	13.6	75	3.42	27.8
ZZ117059		0.20	0.028	0.11	7.17	12.8	860	1.44	0.17	2.46	0.19	50.1	19.0	66	3.99	42.7
ZZ117060		0.27	0.029	0.14	6.66	7.9	800	1.51	0.17	2.26	0.31	68.2	18.9	75	2.46	31.8
ZZ117061		0.24	0.008	0.10	7.11	7.2	930	1.43	0.20	2.01	0.19	51.1	15.9	80	2.69	28.5
ZZ117062		0.16	0.008	0.09	6.82	7.1	930	1.47	0.18	1.81	0.17	55.0	12.5	79	2.05	24.9
ZZ117063		0.30	0.020	0.14	7.53	8.5	1000	1.57	0.19	2.18	0.18	68.1	13.4	85	2.96	42.2
ZZ117064		0.38	0.028	0.08	7.25	6.4	890	1.35	0.15	2.63	0.15	58.0	21.6	89	2.06	51.4
ZZ117065		0.32	0.032	0.03	7.10	5.8	810	1.23	0.13	3.02	0.15	68.1	23.0	114	1.66	73.2
ZZ117066		0.20	0.012	0.08	7.15	6.8	860	1.37	0.17	2.54	0.28	58.2	19.4	86	2.18	44.6
ZZ117067		0.23	0.006	0.16	8.04	9.1	870	1.29	0.21	2.25	0.20	43.6	28.6	115	8.82	44.3
ZZ117068		0.17	0.001	0.08	6.91	9.9	960	1.38	0.21	1.73	0.20	37.0	11.6	83	2.60	26.7
ZZ117069		0.26	<0.001	0.07	7.67	8.1	1060	1.59	0.21	1.89	0.17	44.2	14.2	94	2.87	29.3
ZZ117070		0.21	<0.001	0.12	7.34	3.2	880	1.34	0.19	1.89	0.16	39.2	9.3	35	1.90	26.4
ZZ117071		0.27	0.004	0.18	7.94	9.4	1050	1.47	0.22	2.32	0.22	45.1	22.4	107	3.46	54.8
ZZ117072		0.33	0.002	0.11	7.88	8.3	1030	1.40	0.21	1.97	0.18	40.8	18.3	103	3.16	56.6
ZZ117073		0.33	0.001	0.07	7.40	7.1	920	1.30	0.18	1.86	0.17	40.5	14.1	93	2.53	34.5
ZZ117074		0.24	0.003	0.08	7.29	7.3	880	1.37	0.18	2.06	0.17	47.7	15.2	87	2.22	52.3
ZZ117075		0.34	0.009	0.13	7.73	7.3	910	1.29	0.17	2.20	0.18	41.5	18.9	97	2.69	96.1
ZZ117076		0.27	0.003	0.25	8.57	9.3	940	1.32	0.20	2.17	0.19	40.2	24.7	112	4.35	120.5
ZZ117077		0.20	0.001	0.17	7.38	6.0	840	1.16	0.18	2.13	0.29	37.1	19.7	94	3.14	107.5
ZZ117078		0.29	0.006	0.15	7.63	8.0	800	1.29	0.16	2.31	0.17	42.3	19.5	106	2.93	82.4
ZZ117079		0.30	0.001	0.11	7.56	9.5	920	1.24	0.18	2.48	0.14	46.3	20.4	110	2.52	71.2
ZZ117080		0.15	<0.001	0.23	6.64	8.1	860	1.15	0.17	1.69	0.14	31.0	10.6	85	2.53	27.5



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

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

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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ117041		3.75	17.60	0.15	1.7	0.043	1.56	28.5	23.0	1.40	850	0.93	2.12	8.5	36.1	1140
ZZ117042		4.35	15.50	0.09	1.0	0.054	0.56	9.0	14.9	1.29	1200	1.34	1.18	3.2	53.7	1650
ZZ117043		3.77	17.75	0.12	1.5	0.049	1.20	20.8	19.5	1.34	801	1.34	1.67	6.8	41.4	1390
ZZ117044		3.00	15.45	0.11	1.4	0.047	1.52	22.3	14.3	0.78	435	0.77	1.67	8.9	20.9	1360
ZZ117045		3.39	16.50	0.09	1.1	0.050	1.25	19.8	28.7	1.83	849	0.63	1.76	6.8	42.0	430
ZZ117046		3.25	15.80	0.12	1.7	0.043	1.46	25.9	18.5	1.05	556	0.90	1.92	9.1	29.7	700
ZZ117047		2.80	14.65	0.09	1.3	0.032	1.47	18.2	16.0	0.90	444	0.74	1.90	8.1	25.8	890
ZZ117048		2.43	14.20	0.10	1.3	0.036	1.53	25.4	12.4	0.91	489	0.68	2.31	9.1	27.1	750
ZZ117049		3.23	14.25	0.12	1.4	0.041	1.29	25.1	14.6	1.18	542	1.38	2.08	8.1	30.3	630
ZZ117050		3.51	15.80	0.10	1.3	0.045	1.30	20.6	19.9	1.47	698	0.66	2.02	7.7	40.4	760
ZZ117051		3.31	13.65	0.10	1.1	0.043	1.00	16.6	16.5	1.37	515	0.88	1.72	5.2	42.5	750
ZZ117052		4.83	17.55	0.13	1.8	0.059	1.19	25.7	22.2	1.53	1000	1.42	1.83	9.4	58.8	1040
ZZ117053		3.67	17.35	0.14	2.0	0.052	1.47	31.6	18.7	1.12	901	1.01	2.08	9.8	28.3	1140
ZZ117054		4.02	16.90	0.14	2.0	0.049	1.41	34.0	19.3	1.28	876	0.82	2.14	9.7	28.8	830
ZZ117055		3.91	15.80	0.09	2.0	0.052	1.40	31.2	15.1	1.33	755	1.25	2.22	11.1	34.8	750
ZZ117056		5.10	17.70	0.07	1.6	0.055	1.04	16.9	25.0	1.82	1060	0.57	2.13	6.0	44.3	710
ZZ117057		3.91	15.95	0.08	1.7	0.049	1.38	23.8	16.9	1.12	804	0.90	2.05	10.6	26.3	940
ZZ117058		3.40	15.40	0.10	2.0	0.047	1.30	26.2	14.9	1.07	764	0.90	1.94	10.1	24.8	1110
ZZ117059		3.85	16.25	0.09	1.9	0.051	1.32	24.5	16.1	1.12	801	1.00	2.01	10.2	26.1	1090
ZZ117060		4.66	15.20	0.11	2.0	0.065	1.12	33.0	14.7	1.08	975	1.26	1.95	11.3	25.6	1240
ZZ117061		4.10	16.00	0.10	1.8	0.055	1.37	24.3	18.5	1.15	1040	1.04	2.09	10.5	29.4	1400
ZZ117062		3.50	15.10	0.09	1.8	0.047	1.36	24.3	17.3	1.05	704	0.83	1.99	10.4	28.3	1120
ZZ117063		3.88	16.65	0.10	2.1	0.047	1.52	33.2	19.7	1.10	707	0.90	2.12	12.1	29.3	900
ZZ117064		4.03	15.75	0.09	2.0	0.047	1.33	27.8	15.5	1.31	811	0.76	2.09	11.4	34.9	960
ZZ117065		4.66	16.00	0.09	2.1	0.055	1.24	34.2	14.4	1.47	856	0.99	2.08	12.0	36.8	640
ZZ117066		3.67	15.35	0.10	2.0	0.045	1.32	28.3	16.8	1.26	805	0.85	2.05	10.5	33.8	1270
ZZ117067		5.04	18.15	0.09	1.6	0.058	1.16	22.0	28.0	1.61	1080	0.92	1.95	6.6	45.5	820
ZZ117068		3.45	15.00	0.07	1.5	0.044	1.43	18.5	19.7	1.06	675	1.19	1.92	8.5	27.2	1660
ZZ117069		3.66	16.35	0.08	1.6	0.046	1.56	22.2	19.9	1.33	764	0.93	2.12	10.3	34.7	1250
ZZ117070		2.52	17.00	0.07	2.3	0.026	1.79	20.2	19.9	0.79	532	1.46	2.34	6.6	14.1	1130
ZZ117071		4.05	17.20	0.08	1.5	0.050	1.41	22.3	21.7	1.63	858	1.38	2.13	9.2	47.2	1100
ZZ117072		4.02	16.40	0.08	1.6	0.047	1.47	20.4	20.2	1.53	852	1.69	1.97	10.0	41.0	1280
ZZ117073		3.54	15.95	0.07	1.6	0.042	1.39	20.6	18.8	1.30	671	1.21	1.90	8.7	33.0	1250
ZZ117074		3.62	16.80	0.07	1.7	0.048	1.32	24.1	17.4	1.28	651	1.66	1.98	10.5	31.7	1060
ZZ117075		3.86	16.50	0.08	1.7	0.050	1.32	20.2	19.8	1.54	754	1.43	2.05	9.8	38.0	1010
ZZ117076		4.41	17.65	0.09	1.4	0.051	1.31	19.3	26.0	1.90	886	1.25	1.84	7.4	52.4	920
ZZ117077		3.80	15.55	0.07	1.4	0.042	1.22	17.6	20.7	1.60	863	1.39	1.77	6.8	40.1	1280
ZZ117078		3.86	15.60	0.09	1.3	0.048	1.25	21.2	20.0	1.69	711	0.96	1.96	8.3	41.9	850
ZZ117079		3.88	15.20	0.07	1.3	0.046	1.28	21.7	18.9	1.70	689	1.02	2.11	7.1	50.0	670
ZZ117080		3.77	14.35	0.06	1.3	0.042	1.26	16.1	20.6	1.02	475	1.28	1.68	7.8	26.3	740



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ117041		18.6	56.8	<0.002	0.03	1.10	18.1	1	1.1	327	0.60	0.06	14.25	0.361	0.43	3.0
ZZ117042		7.0	18.6	0.002	0.17	0.63	17.2	2	0.7	228	0.23	0.06	2.31	0.322	0.17	1.0
ZZ117043		13.1	45.2	<0.002	0.06	0.92	15.2	1	1.1	300	0.45	0.07	5.28	0.353	0.33	1.9
ZZ117044		13.0	80.3	<0.002	0.08	0.99	10.5	1	1.3	260	0.67	<0.05	5.94	0.348	0.40	1.8
ZZ117045		9.6	45.5	<0.002	0.03	0.82	20.8	1	1.1	249	0.51	<0.05	4.98	0.326	0.34	1.3
ZZ117046		12.3	54.9	<0.002	0.05	0.99	13.3	1	1.2	298	0.66	<0.05	7.45	0.370	0.38	2.1
ZZ117047		13.1	60.3	<0.002	0.07	0.98	11.2	1	1.2	283	0.67	<0.05	5.68	0.307	0.37	1.7
ZZ117048		12.4	53.5	<0.002	0.03	0.94	11.6	1	1.0	350	0.55	<0.05	9.43	0.290	0.38	1.9
ZZ117049		11.7	46.8	<0.002	0.05	0.82	13.9	1	1.0	309	0.53	<0.05	6.35	0.359	0.32	1.7
ZZ117050		18.0	48.0	<0.002	0.04	0.83	16.0	1	1.0	276	0.55	<0.05	8.57	0.352	0.36	1.8
ZZ117051		9.5	35.6	<0.002	0.08	0.74	16.0	1	0.8	233	0.37	<0.05	5.15	0.313	0.29	1.5
ZZ117052		17.6	46.9	<0.002	0.06	1.37	16.4	1	1.3	289	0.71	0.17	7.17	0.455	0.39	2.2
ZZ117053		14.8	53.9	<0.002	0.05	1.00	13.6	1	1.4	347	0.72	<0.05	8.08	0.427	0.38	2.3
ZZ117054		14.6	48.2	<0.002	0.03	1.07	16.1	2	1.3	369	0.77	<0.05	9.25	0.465	0.36	2.6
ZZ117055		17.3	48.6	<0.002	0.02	0.97	17.2	1	1.3	365	0.82	<0.05	9.87	0.477	0.33	3.0
ZZ117056		65.7	26.7	<0.002	0.02	0.97	26.9	1	1.0	250	0.40	<0.05	5.20	0.487	0.28	1.6
ZZ117057		14.0	50.6	<0.002	0.05	0.97	14.0	1	1.2	318	0.74	<0.05	7.49	0.426	0.35	2.1
ZZ117058		13.3	45.8	<0.002	0.07	0.78	12.6	1	1.1	339	0.73	<0.05	8.07	0.410	0.29	2.0
ZZ117059		15.2	46.1	<0.002	0.05	0.82	13.4	1	1.1	346	0.66	0.06	7.46	0.412	0.33	2.3
ZZ117060		12.9	39.5	<0.002	0.07	0.85	13.6	2	1.2	347	0.81	0.06	9.71	0.463	0.29	2.8
ZZ117061		14.6	52.8	<0.002	0.06	0.94	14.6	1	1.2	342	0.66	0.06	8.20	0.417	0.35	2.3
ZZ117062		14.4	50.0	<0.002	0.05	0.96	13.1	1	1.2	314	0.72	0.06	8.51	0.409	0.40	2.1
ZZ117063		14.8	54.3	<0.002	0.03	1.43	14.7	1	1.3	348	0.89	<0.05	10.05	0.454	0.38	2.7
ZZ117064		12.7	45.9	<0.002	0.04	0.87	16.8	1	1.2	331	0.85	<0.05	11.40	0.450	0.33	2.9
ZZ117065		11.5	44.0	<0.002	0.03	0.85	19.3	1	1.3	331	0.93	<0.05	10.30	0.547	0.30	2.4
ZZ117066		13.4	45.8	<0.002	0.05	0.89	15.9	1	1.2	346	0.71	<0.05	8.52	0.435	0.34	2.9
ZZ117067		14.1	38.5	<0.002	0.02	1.19	25.9	1	1.0	289	0.45	0.05	5.60	0.476	0.32	1.6
ZZ117068		15.6	54.6	<0.002	0.07	0.99	13.3	1	1.0	283	0.58	0.05	8.79	0.369	0.40	1.9
ZZ117069		16.4	62.0	<0.002	0.05	0.99	15.1	1	1.2	314	0.75	<0.05	8.10	0.387	0.44	2.2
ZZ117070		10.8	49.9	<0.002	0.07	0.61	7.9	1	0.8	471	0.47	<0.05	6.27	0.289	0.32	2.0
ZZ117071		16.5	52.8	<0.002	0.03	1.04	19.0	1	1.1	322	0.60	0.06	7.23	0.409	0.40	2.2
ZZ117072		15.6	55.6	<0.002	0.04	1.03	16.1	1	1.2	288	0.65	<0.05	9.36	0.414	0.42	2.5
ZZ117073		13.5	52.6	<0.002	0.05	0.92	14.5	1	1.1	280	0.62	<0.05	10.80	0.382	0.39	2.0
ZZ117074		13.7	50.7	<0.002	0.03	1.01	15.7	1	1.3	292	0.72	<0.05	8.04	0.412	0.38	2.2
ZZ117075		12.8	46.3	<0.002	0.03	0.88	18.2	1	1.2	297	0.66	<0.05	6.76	0.414	0.35	2.0
ZZ117076		13.6	51.7	<0.002	0.04	1.12	21.1	1	1.1	259	0.50	<0.05	7.36	0.400	0.37	1.6
ZZ117077		11.5	47.7	<0.002	0.08	0.82	15.9	1	0.9	267	0.48	<0.05	6.54	0.366	0.32	1.6
ZZ117078		12.3	46.4	<0.002	0.04	0.90	19.2	1	1.0	271	0.66	<0.05	6.68	0.396	0.32	2.3
ZZ117079		12.6	46.0	<0.002	0.03	0.95	18.6	1	0.9	296	0.51	<0.05	7.47	0.383	0.35	1.6
ZZ117080		12.1	52.3	<0.002	0.06	0.89	11.9	1	1.0	249	0.54	<0.05	5.25	0.359	0.35	1.4



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
ZZ117041		119	2.2	20.9	76	57.8
ZZ117042		140	0.8	25.3	96	27.6
ZZ117043		118	30.7	15.3	93	49.9
ZZ117044		97	1.2	11.4	46	46.9
ZZ117045		146	1.1	11.4	50	31.8
ZZ117046		102	1.3	13.0	52	53.8
ZZ117047		87	1.4	11.5	45	41.8
ZZ117048		82	1.0	13.2	41	40.3
ZZ117049		99	1.7	13.6	44	43.1
ZZ117050		110	1.2	13.1	55	43.0
ZZ117051		104	1.2	11.8	51	35.8
ZZ117052		146	4.3	17.5	109	53.3
ZZ117053		115	1.2	16.2	80	64.0
ZZ117054		130	1.7	22.2	71	61.2
ZZ117055		127	1.7	20.1	72	59.2
ZZ117056		184	1.8	21.5	120	53.4
ZZ117057		120	1.8	18.3	68	54.4
ZZ117058		108	1.9	15.1	70	62.0
ZZ117059		105	3.8	20.5	75	59.5
ZZ117060		102	1.6	28.6	98	66.0
ZZ117061		109	1.2	21.5	82	63.0
ZZ117062		108	1.2	16.7	67	57.9
ZZ117063		109	4.6	23.1	68	66.1
ZZ117064		124	1.4	20.0	64	58.5
ZZ117065		145	1.4	20.7	66	64.4
ZZ117066		116	1.4	21.5	82	66.0
ZZ117067		171	3.2	23.2	69	53.8
ZZ117068		108	1.4	12.8	61	48.1
ZZ117069		118	2.1	16.5	71	49.5
ZZ117070		68	0.9	10.3	56	85.1
ZZ117071		130	2.0	18.0	80	51.2
ZZ117072		128	1.9	16.3	85	52.8
ZZ117073		114	1.4	14.0	63	54.3
ZZ117074		116	1.7	17.0	61	56.3
ZZ117075		127	1.7	16.6	71	56.1
ZZ117076		141	1.9	15.9	79	47.2
ZZ117077		118	1.5	13.2	81	46.8
ZZ117078		129	1.9	16.4	61	43.1
ZZ117079		129	1.8	16.1	61	43.1
ZZ117080		114	1.3	11.5	49	42.3



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ117081		0.32	0.011	0.27	8.00	2.6	510	0.85	0.10	1.50	0.14	22.0	31.4	97	19.65	114.0
ZZ117082		0.17	0.003	0.10	7.79	3.3	90	0.81	0.05	7.54	0.24	4.40	43.3	167	11.60	28.9
ZZ117083		0.19	0.017	0.45	8.46	4.8	710	1.16	0.13	1.94	0.11	40.8	18.7	81	7.49	44.7
ZZ117084		0.20	0.003	0.13	6.13	5.3	740	1.07	0.18	2.01	0.20	32.4	16.7	89	2.60	165.5
ZZ117085		0.24	0.002	0.14	6.98	6.9	810	1.00	0.19	1.97	0.11	32.6	12.8	89	2.85	63.8
ZZ117086		0.19	0.007	0.10	6.77	5.6	770	1.06	0.16	2.08	0.17	37.0	14.2	100	4.27	46.0
ZZ117087		0.19	0.015	0.14	7.97	9.1	740	1.11	0.21	2.60	0.16	30.7	27.1	143	3.49	71.6
ZZ117088		0.17	0.005	0.30	7.69	12.1	710	1.14	0.25	2.48	0.17	33.4	34.6	155	5.06	201
ZZ117089		0.19	0.005	0.20	6.94	8.2	700	1.06	0.23	2.14	0.18	31.3	30.0	100	3.10	154.0
ZZ117090		0.27	0.004	0.29	7.84	12.6	900	1.23	0.36	2.15	0.16	45.5	27.9	110	7.59	239
ZZ117091		0.22	0.005	0.16	6.89	7.6	680	1.18	0.21	1.57	0.14	34.4	16.7	72	4.90	71.6
ZZ117092		0.15	0.009	0.42	7.19	8.5	820	1.65	0.31	1.96	0.16	44.1	27.8	87	4.87	182.5
ZZ117093		0.30	0.005	0.14	9.11	12.5	950	2.38	0.25	1.27	0.18	66.5	22.3	96	24.7	73.2
ZZ117094		0.33	0.012	0.19	8.07	14.1	910	1.35	0.25	1.98	0.28	42.2	27.6	167	8.21	68.1
ZZ117095		0.17	0.010	0.11	7.95	11.3	740	1.31	0.21	2.62	0.23	37.7	25.8	134	4.69	80.8
ZZ117096		0.22	0.019	0.10	8.07	18.5	460	0.92	0.12	3.28	0.18	23.3	40.5	207	7.38	72.9
ZZ117097		0.29	0.016	0.09	7.77	12.3	650	1.29	0.15	2.66	0.17	32.3	27.2	122	6.06	79.0
ZZ117098		0.26	0.004	0.15	8.49	22.3	610	1.19	0.13	2.08	0.20	27.0	38.7	199	7.67	93.6
ZZ117099		0.26	0.004	0.07	7.50	9.3	910	1.55	0.17	2.27	0.16	44.0	22.1	102	3.73	72.8
ZZ117100		0.19	0.004	0.11	7.24	7.5	1010	1.33	0.15	2.49	0.19	52.2	18.6	107	2.38	67.1
ZZ117252		0.15	0.001	0.10	6.88	10.9	590	1.15	0.19	2.70	0.40	32.2	25.3	87	6.93	68.9
ZZ117253		0.15	0.003	0.07	6.43	6.3	740	1.23	0.18	1.85	0.19	32.7	16.0	75	3.39	60.3
ZZ117254		0.12	0.001	0.06	6.84	7.2	690	1.19	0.16	2.43	0.17	33.6	23.3	72	4.32	70.5
ZZ117255		0.22	0.023	0.13	7.81	10.7	390	0.81	0.15	4.59	0.37	24.8	44.5	121	6.36	151.0
ZZ117256		0.16	0.003	0.05	6.93	7.5	780	1.32	0.15	2.47	0.18	36.7	19.6	88	2.54	45.6
ZZ117257		0.18	0.015	0.05	7.28	7.3	810	1.27	0.18	2.28	0.14	38.6	19.8	90	2.86	62.6
ZZ117258		0.10	<0.001	0.09	6.81	4.6	700	1.39	0.16	2.21	0.21	37.6	19.0	58	3.35	34.1
ZZ117259		0.22	<0.001	0.04	7.83	3.9	310	0.78	0.10	5.00	0.17	20.4	46.0	147	1.63	170.5
ZZ117260		0.14	<0.001	0.11	6.90	4.1	700	1.35	0.25	2.01	0.17	36.8	16.8	56	2.78	49.9
ZZ117261		0.14	<0.001	0.08	6.19	4.8	810	1.11	0.18	1.94	0.16	28.2	10.2	76	3.39	19.0
ZZ117262		0.19	0.053	0.15	7.65	7.2	850	1.41	0.16	2.62	0.15	48.1	21.3	100	6.65	62.4
ZZ117263		0.23	0.003	0.10	6.91	5.1	810	1.09	0.17	2.30	0.16	32.2	16.1	82	4.02	54.3
ZZ117264		0.23	<0.001	0.17	7.73	6.1	1490	1.24	0.27	2.77	0.20	39.8	22.6	120	7.07	53.6
ZZ117265		0.27	0.002	0.11	8.19	3.4	560	0.75	0.14	2.65	0.18	17.95	37.8	178	7.80	67.6
ZZ117266		0.20	0.001	0.16	9.21	4.8	520	1.12	0.11	1.72	0.43	21.2	37.7	308	12.20	110.0
ZZ117267		0.35	0.001	0.08	7.64	5.1	700	1.21	0.15	3.08	0.18	41.9	20.7	128	2.60	41.9
ZZ117268		0.27	0.002	0.12	7.21	7.9	750	1.30	0.16	2.75	0.18	41.7	18.3	100	2.44	39.9
ZZ117269		0.21	0.002	0.12	7.43	7.2	820	1.31	0.18	2.39	0.22	41.9	19.3	94	2.95	43.5
ZZ117270		0.26	0.002	0.11	7.47	5.9	750	1.29	0.15	2.84	0.16	38.5	20.2	94	2.88	44.3
ZZ117271		0.41	0.010	0.08	7.60	9.4	740	1.70	0.15	2.99	0.13	44.3	18.8	102	2.26	37.3



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

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

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ117081		5.39	17.15	0.07	1.1	0.057	0.94	11.9	44.4	3.08	1580	1.69	0.86	3.4	41.6	750
ZZ117082		6.03	19.85	<0.05	0.5	0.058	0.31	1.6	101.0	1.49	1140	2.38	0.07	0.5	57.3	290
ZZ117083		3.63	18.70	0.06	1.3	0.037	1.13	20.4	31.4	1.30	745	1.56	1.38	4.7	37.8	490
ZZ117084		3.30	13.30	0.06	1.3	0.041	1.15	16.0	16.8	1.16	794	15.10	1.59	6.7	29.2	1490
ZZ117085		3.64	15.75	0.07	1.6	0.046	1.29	16.4	18.1	1.31	540	11.10	1.95	7.6	30.6	1080
ZZ117086		3.66	14.10	0.07	1.3	0.041	1.16	18.4	17.2	1.37	782	3.04	1.71	6.9	32.7	1920
ZZ117087		4.50	16.30	0.07	1.2	0.049	1.07	15.0	21.4	2.11	916	4.40	1.91	5.9	60.9	970
ZZ117088		4.97	16.15	0.07	1.2	0.056	1.04	14.7	21.6	1.92	1010	9.90	1.76	6.3	60.4	1050
ZZ117089		4.05	15.25	0.06	1.2	0.049	1.03	15.6	18.3	1.50	839	10.20	1.58	6.3	47.2	1440
ZZ117090		4.69	17.85	0.06	1.4	0.053	1.10	21.6	23.2	1.72	972	5.37	1.71	7.1	52.9	1170
ZZ117091		3.69	16.85	0.09	1.4	0.052	0.88	16.0	20.0	1.32	738	2.40	1.76	5.9	34.1	1160
ZZ117092		4.15	15.85	0.11	1.5	0.050	1.22	22.3	20.1	1.41	874	17.40	1.79	7.3	43.0	1280
ZZ117093		5.33	23.4	0.10	2.3	0.058	1.82	26.5	29.3	1.25	1160	5.35	1.29	8.4	49.0	980
ZZ117094		4.49	18.10	0.11	1.4	0.052	1.24	22.0	26.7	1.89	1100	1.27	1.65	6.0	56.1	850
ZZ117095		4.53	16.60	0.09	1.2	0.050	1.07	16.8	21.2	1.74	851	2.96	1.84	6.5	57.6	820
ZZ117096		5.96	18.45	0.06	1.1	0.067	0.57	9.6	18.0	1.93	1180	0.78	1.62	3.5	62.9	730
ZZ117097		5.16	16.95	0.07	1.1	0.061	0.90	15.1	22.4	1.94	948	0.85	1.84	5.7	50.1	1070
ZZ117098		6.08	18.75	0.08	1.1	0.073	0.74	12.0	46.9	2.02	1300	0.69	1.38	4.0	65.8	930
ZZ117099		4.04	16.15	0.09	1.4	0.048	1.31	21.1	19.7	1.61	818	1.12	2.11	7.6	45.7	740
ZZ117100		3.69	15.40	0.10	1.3	0.051	1.43	27.6	16.6	1.52	754	0.90	2.37	7.4	41.3	830
ZZ117252		4.66	15.75	0.10	1.3	0.050	1.07	16.8	20.9	1.90	813	1.12	1.67	5.8	45.5	1780
ZZ117253		3.84	15.55	0.07	1.4	0.047	1.22	15.8	15.6	1.16	550	1.06	1.69	7.6	28.8	1490
ZZ117254		4.46	16.25	0.09	1.4	0.049	1.14	16.5	17.7	1.57	781	0.94	1.82	7.1	37.0	1360
ZZ117255		5.78	17.85	0.09	1.1	0.061	0.72	11.3	19.5	2.85	1040	0.91	1.68	4.0	61.7	1200
ZZ117256		4.42	16.80	0.10	1.6	0.054	1.32	18.4	16.8	1.53	715	0.96	2.01	8.6	32.5	940
ZZ117257		4.38	17.10	0.08	1.5	0.056	1.32	19.2	18.0	1.55	700	1.05	1.97	8.6	38.6	1000
ZZ117258		3.44	16.45	0.07	1.5	0.045	1.36	17.7	20.3	1.30	997	1.07	1.86	6.8	27.1	1270
ZZ117259		6.73	17.30	0.09	1.0	0.067	0.58	8.1	11.1	4.03	1200	0.73	2.05	4.2	111.5	730
ZZ117260		3.43	15.95	0.09	1.9	0.042	1.35	18.8	17.7	1.26	725	1.16	1.92	6.4	24.6	1350
ZZ117261		3.09	15.75	0.10	1.5	0.040	1.34	13.4	12.7	1.05	542	1.19	1.83	7.8	23.5	1140
ZZ117262		4.20	16.70	0.09	1.3	0.048	1.10	24.2	21.1	1.92	906	0.86	2.01	6.8	48.7	970
ZZ117263		3.50	15.15	0.08	1.2	0.061	1.14	16.0	18.3	1.52	816	0.99	1.88	6.3	32.7	1350
ZZ117264		3.93	17.50	0.09	1.4	0.055	1.14	19.9	25.0	2.66	834	1.01	1.91	6.0	66.4	1060
ZZ117265		4.80	15.55	0.08	0.8	0.058	0.81	8.0	38.1	4.71	1080	0.89	1.46	3.9	129.5	930
ZZ117266		5.76	16.25	0.09	0.7	0.051	1.19	10.4	45.6	1.68	1560	0.92	1.00	2.8	101.0	630
ZZ117267		4.02	16.30	0.09	1.6	0.045	1.06	21.1	17.4	2.14	777	0.58	2.37	7.6	53.5	820
ZZ117268		3.84	15.40	0.08	1.4	0.051	1.13	22.0	18.1	1.73	783	0.84	2.16	7.0	45.3	810
ZZ117269		3.98	16.85	0.10	1.4	0.052	1.21	21.6	20.2	1.61	786	0.79	2.08	7.4	42.3	840
ZZ117270		4.20	16.60	0.09	1.4	0.052	1.12	19.7	18.7	1.75	758	0.63	2.12	7.4	42.7	850
ZZ117271		4.20	16.55	0.09	1.5	0.046	1.14	23.6	17.0	1.79	767	0.79	2.35	7.6	43.2	670



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ117081		5.3	18.9	<0.002	0.03	1.02	36.2	1	0.7	135.5	0.28	<0.05	2.51	0.442	0.31	1.0
ZZ117082		11.6	16.0	<0.002	0.01	8.81	37.3	1	0.5	73.3	<0.05	<0.05	0.26	0.354	0.13	0.4
ZZ117083		14.4	39.4	<0.002	0.04	0.82	17.8	1	0.7	186.0	0.30	<0.05	6.01	0.294	0.33	1.6
ZZ117084		11.4	44.9	<0.002	0.13	0.78	13.6	1	0.9	256	0.48	<0.05	4.48	0.337	0.30	1.4
ZZ117085		11.8	50.9	<0.002	0.08	0.90	14.2	1	1.1	264	0.56	<0.05	4.89	0.373	0.34	1.6
ZZ117086		10.6	44.7	<0.002	0.09	0.88	14.9	1	1.0	258	0.51	<0.05	4.86	0.370	0.29	1.4
ZZ117087		11.4	43.3	<0.002	0.07	0.99	21.8	1	0.9	247	0.41	0.05	4.74	0.406	0.31	1.6
ZZ117088		12.5	41.7	<0.002	0.06	1.09	25.5	1	1.0	233	0.44	<0.05	5.38	0.395	0.32	1.5
ZZ117089		11.9	42.8	<0.002	0.11	0.90	16.5	1	0.9	220	0.43	0.05	4.83	0.347	0.32	1.6
ZZ117090		15.0	45.2	<0.002	0.06	1.29	21.4	1	1.0	251	0.48	0.07	7.14	0.399	0.36	2.7
ZZ117091		12.0	35.8	<0.002	0.08	0.84	13.7	1	0.9	245	0.36	0.05	5.51	0.307	0.25	1.9
ZZ117092		16.8	47.2	<0.002	0.08	0.98	16.6	1	1.2	260	0.47	0.05	5.83	0.341	0.38	2.3
ZZ117093		22.2	82.0	<0.002	0.05	2.36	18.8	1	1.6	180.5	0.53	0.05	8.54	0.356	0.63	2.7
ZZ117094		18.6	42.1	<0.002	0.04	1.38	22.8	1	0.9	261	0.39	<0.05	5.24	0.347	0.36	1.9
ZZ117095		11.1	36.9	<0.002	0.06	1.09	21.5	1	1.0	280	0.43	<0.05	4.27	0.418	0.30	2.0
ZZ117096		8.0	16.7	<0.002	0.03	1.73	37.8	1	0.8	246	0.25	<0.05	2.27	0.673	0.17	1.7
ZZ117097		9.7	31.3	<0.002	0.06	1.34	24.7	1	0.9	263	0.37	<0.05	3.79	0.504	0.26	1.3
ZZ117098		8.6	21.1	<0.002	0.05	2.38	37.1	2	0.9	195.0	0.27	0.05	2.72	0.500	0.22	1.3
ZZ117099		13.0	46.6	<0.002	0.03	1.11	17.2	1	1.1	312	0.53	<0.05	5.81	0.420	0.33	1.7
ZZ117100		12.1	47.3	<0.002	0.01	1.02	16.5	1	1.0	358	0.50	<0.05	6.99	0.373	0.37	1.6
ZZ117252		10.9	37.9	<0.002	0.11	1.11	18.7	1	1.0	242	0.39	0.06	4.56	0.415	0.28	1.5
ZZ117253		10.3	46.3	<0.002	0.09	0.98	14.1	2	1.2	237	0.51	0.05	4.48	0.386	0.36	1.6
ZZ117254		9.3	41.2	<0.002	0.09	0.88	17.2	1	1.1	283	0.47	<0.05	4.41	0.418	0.30	1.5
ZZ117255		8.8	22.4	<0.002	0.06	0.91	27.7	2	0.9	228	0.26	0.07	2.68	0.470	0.21	2.0
ZZ117256		10.9	46.5	<0.002	0.05	1.01	16.7	1	1.2	300	0.57	<0.05	7.80	0.528	0.32	2.0
ZZ117257		10.8	47.7	<0.002	0.05	1.11	16.8	1	1.3	279	0.59	<0.05	5.50	0.478	0.36	1.6
ZZ117258		9.8	42.7	<0.002	0.09	0.73	15.3	1	1.0	340	0.45	<0.05	4.93	0.325	0.28	1.7
ZZ117259		5.0	8.7	<0.002	0.02	0.45	25.9	1	1.0	220	0.26	<0.05	1.75	0.620	0.13	0.7
ZZ117260		9.2	39.7	<0.002	0.09	0.68	12.7	1	0.9	367	0.44	<0.05	4.97	0.362	0.31	1.7
ZZ117261		10.5	54.0	<0.002	0.08	0.90	12.2	1	1.2	282	0.53	<0.05	3.96	0.411	0.35	1.5
ZZ117262		14.0	38.4	<0.002	0.05	0.88	18.9	1	1.0	265	0.46	<0.05	6.87	0.411	0.31	2.3
ZZ117263		10.1	40.7	<0.002	0.08	0.83	15.7	1	1.0	256	0.43	<0.05	4.06	0.354	0.30	1.6
ZZ117264		17.5	25.9	<0.002	0.05	0.88	18.7	1	1.1	272	0.38	<0.05	4.23	0.358	0.32	2.1
ZZ117265		6.7	13.8	<0.002	0.05	0.68	23.0	1	0.6	198.0	0.28	<0.05	1.71	0.291	0.22	0.9
ZZ117266		10.1	37.6	<0.002	0.05	0.86	48.2	1	0.5	146.5	0.20	<0.05	2.26	0.280	0.32	0.9
ZZ117267		9.3	28.7	<0.002	0.02	0.74	19.7	1	1.1	289	0.48	<0.05	6.06	0.459	0.27	1.9
ZZ117268		10.4	39.1	<0.002	0.04	0.93	18.4	1	1.0	290	0.45	<0.05	6.02	0.434	0.31	2.0
ZZ117269		11.1	46.9	<0.002	0.03	1.00	18.7	1	1.1	288	0.47	<0.05	8.22	0.440	0.36	2.0
ZZ117270		9.7	40.2	<0.002	0.03	0.91	19.0	1	1.1	287	0.50	<0.05	5.51	0.474	0.32	1.7
ZZ117271		9.7	38.3	<0.002	0.01	1.00	20.4	1	1.1	292	0.48	0.05	6.19	0.507	0.31	1.7



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ117081		244	3.0	23.6	66	34.9
ZZ117082		245	10.5	15.6	97	12.9
ZZ117083		112	2.3	16.4	60	48.2
ZZ117084		112	1.4	12.7	67	40.5
ZZ117085		118	1.5	13.7	61	49.4
ZZ117086		124	4.9	13.1	57	44.2
ZZ117087		152	12.9	15.1	69	40.3
ZZ117088		165	11.9	17.5	78	39.1
ZZ117089		126	2.1	15.4	77	39.7
ZZ117090		148	18.0	18.8	76	49.0
ZZ117091		109	5.1	11.5	71	53.4
ZZ117092		122	2.9	16.8	73	66.2
ZZ117093		147	12.0	16.7	85	87.5
ZZ117094		143	7.2	17.8	93	47.3
ZZ117095		150	5.6	15.8	86	40.6
ZZ117096		251	58.4	20.5	71	32.5
ZZ117097		176	19.4	20.7	75	36.3
ZZ117098		208	12.9	27.9	79	31.6
ZZ117099		130	3.4	15.7	65	46.7
ZZ117100		122	1.8	18.1	62	42.4
ZZ117252		149	2.1	17.8	125	41.3
ZZ117253		134	1.0	14.3	65	47.3
ZZ117254		156	1.1	15.7	83	51.8
ZZ117255		188	1.1	20.8	116	37.3
ZZ117256		158	1.6	16.1	71	52.8
ZZ117257		151	1.4	16.5	72	49.4
ZZ117258		109	1.0	20.8	64	56.9
ZZ117259		214	0.6	21.4	82	28.2
ZZ117260		108	1.0	13.1	63	66.9
ZZ117261		119	1.4	10.9	57	52.9
ZZ117262		132	1.5	17.9	65	46.0
ZZ117263		115	1.2	14.6	71	40.0
ZZ117264		112	1.3	15.4	91	52.2
ZZ117265		120	1.0	12.7	84	26.2
ZZ117266		172	1.9	19.5	104	21.0
ZZ117267		132	1.4	18.7	69	54.2
ZZ117268		131	1.3	18.5	67	45.0
ZZ117269		136	1.5	19.1	75	47.8
ZZ117270		144	1.6	19.4	72	47.6
ZZ117271		150	1.6	23.5	67	47.7



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

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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

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	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ117272		0.30	0.002	0.10	7.63	9.7	770	1.27	0.19	2.89	0.21	38.4	20.3	108	2.64	41.5
ZZ117273		0.28	0.002	0.09	7.36	9.0	710	1.07	0.16	3.09	0.14	33.9	18.7	104	2.15	35.1
ZZ117274		0.44	0.002	0.13	7.51	8.2	740	1.08	0.17	2.91	0.16	38.3	18.9	97	2.29	42.7
ZZ117275		0.22	0.009	0.08	6.95	8.3	680	1.04	0.16	2.69	0.19	35.0	19.0	96	2.24	33.7
ZZ117276		0.21	0.002	0.09	7.04	7.0	700	1.09	0.15	2.87	0.17	39.0	18.2	95	2.03	32.1
ZZ117277		0.21	0.002	0.10	7.45	7.9	730	1.21	0.18	2.43	0.10	38.7	17.7	72	2.56	45.1
ZZ117278		0.16	<0.001	0.09	6.70	6.7	650	1.02	0.15	2.66	0.23	34.5	20.7	90	2.27	43.5
ZZ117279		0.28	<0.001	0.09	7.28	8.5	690	1.24	0.16	2.90	0.14	36.4	23.3	103	2.29	43.1
ZZ117280		0.32	0.004	0.05	7.17	4.8	620	1.08	0.17	3.52	0.14	38.6	22.9	109	1.66	31.7
ZZ117281		0.30	0.002	0.06	7.31	7.1	650	1.02	0.14	3.37	0.14	38.2	22.6	120	1.75	33.7
ZZ117282		0.29	0.006	0.10	7.53	8.6	740	1.23	0.17	3.05	0.21	38.0	23.9	118	2.26	38.0
ZZ117283		0.23	0.004	0.09	7.59	9.1	730	1.03	0.17	3.09	0.19	40.6	24.4	114	2.35	42.9
ZZ117284		0.30	0.007	0.06	7.34	6.0	660	1.05	0.15	3.53	0.14	35.0	21.6	114	1.62	31.1
ZZ117285		0.29	<0.001	0.08	7.32	7.2	690	1.01	0.16	3.31	0.13	36.7	23.3	117	2.28	36.8
ZZ117286		0.28	0.003	0.07	7.26	6.3	690	1.02	0.15	3.21	0.12	36.4	21.4	107	2.36	35.6
ZZ117287		0.23	0.007	0.04	6.88	5.3	610	0.97	0.13	3.27	0.20	30.6	18.5	103	1.73	27.2
ZZ117288		0.32	0.001	0.06	7.28	4.7	720	1.14	0.12	3.32	0.11	39.0	21.4	109	2.23	31.7
ZZ117289		0.25	0.008	0.05	7.02	5.0	700	1.14	0.12	3.02	0.16	36.3	16.5	104	1.68	25.9
ZZ117290		0.27	0.001	0.11	7.45	8.2	680	1.11	0.20	2.74	0.15	38.1	22.6	108	2.16	38.9
ZZ117291		0.20	0.002	0.07	7.36	8.9	710	1.06	0.18	2.90	0.14	36.2	23.0	109	2.43	45.9
ZZ117292		0.20	0.001	0.08	6.33	7.3	830	1.01	0.17	2.00	0.19	29.0	10.8	82	2.39	20.4
ZZ117293		0.23	<0.001	0.10	6.49	6.2	790	1.02	0.18	1.94	0.19	28.3	12.0	82	2.58	18.5
ZZ117294		0.13	0.001	0.21	5.00	5.0	700	0.96	0.14	2.01	0.28	25.0	18.1	67	2.15	20.8
ZZ117295		0.25	0.003	0.10	7.16	6.8	660	1.16	0.16	2.66	0.17	31.9	32.6	70	3.61	69.4
ZZ117296		0.31	0.012	0.11	7.02	7.2	780	1.20	0.15	2.32	0.17	39.9	26.9	81	3.80	68.5
ZZ117297		0.21	0.003	0.07	7.37	5.1	750	1.16	0.13	2.40	0.18	34.7	15.0	65	5.74	45.9
ZZ117298		0.19	0.003	0.07	6.15	6.0	980	1.27	0.16	1.53	0.11	33.8	11.6	75	2.51	22.2
ZZ117299		0.24	0.003	0.18	7.97	16.1	900	1.45	0.15	1.99	0.20	54.0	26.3	98	4.57	40.7
ZZ117300		0.27	<0.001	0.02	6.60	4.7	1090	1.29	0.10	1.75	0.10	35.2	8.2	65	1.47	11.4
ZZ117301		0.24	0.007	0.17	6.88	7.5	1080	1.42	0.13	1.88	0.16	42.3	11.6	80	1.85	28.1
ZZ117302		0.21	0.001	0.07	6.97	4.9	900	1.31	0.13	2.24	0.13	38.1	14.9	77	1.51	82.6
ZZ117303		0.21	0.002	0.07	6.79	29.2	760	1.11	0.14	2.06	0.15	29.8	17.0	107	2.42	37.3
ZZ117304		0.23	0.002	0.11	7.39	11.0	830	1.24	0.18	2.04	0.19	39.7	17.5	106	2.89	79.3
ZZ117305		0.37	0.005	0.16	7.16	7.8	920	1.55	0.13	2.48	0.30	70.2	23.5	90	2.82	92.2
ZZ117306		0.26	0.011	0.17	6.99	8.5	870	1.33	0.15	2.20	0.25	56.0	23.0	86	4.75	84.7
ZZ117307		0.17	0.004	0.15	6.55	8.2	840	1.21	0.16	1.97	0.24	50.7	21.7	84	3.33	58.2
ZZ117308		0.30	0.032	0.17	7.16	10.2	770	1.21	0.13	2.27	0.24	40.6	25.8	106	4.26	80.7
ZZ117309		0.22	0.014	0.18	7.28	8.2	780	1.19	0.11	2.40	0.20	42.7	24.7	92	4.07	69.7
ZZ117310		0.28	0.005	0.07	7.10	6.2	800	1.34	0.15	2.40	0.18	61.4	17.9	72	2.84	37.6
ZZ117311		0.23	0.031	0.12	6.61	8.0	830	1.39	0.18	2.12	0.19	45.4	21.0	69	5.42	39.2



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

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

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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
ZZ117272		4.39	16.30	0.11	1.4	0.056	1.10	18.7	18.9	1.80	873	0.90	2.15	7.1	49.7	880
ZZ117273		4.08	15.50	0.09	1.2	0.045	1.04	17.7	16.6	1.81	743	0.78	2.29	6.6	43.8	590
ZZ117274		4.10	16.30	0.11	1.4	0.049	1.15	20.3	17.6	1.73	751	0.91	2.26	6.9	43.9	760
ZZ117275		3.98	15.20	0.08	1.3	0.053	1.00	18.7	16.8	1.70	758	0.89	2.03	6.7	42.1	830
ZZ117276		3.80	15.10	0.08	1.4	0.049	1.03	20.6	15.4	1.69	763	0.78	2.19	7.0	40.0	680
ZZ117277		3.93	16.85	0.10	1.7	0.045	1.26	20.6	19.7	1.54	675	1.08	2.14	6.4	37.7	900
ZZ117278		3.92	13.85	0.07	1.3	0.045	0.94	17.2	16.5	1.61	819	0.87	1.87	5.8	41.1	990
ZZ117279		4.19	15.25	0.07	1.3	0.051	1.00	17.8	17.6	1.79	875	0.88	2.10	6.5	44.9	890
ZZ117280		4.21	14.60	0.07	1.5	0.047	0.96	18.5	13.5	1.95	841	0.62	2.27	6.9	41.0	670
ZZ117281		4.28	14.55	0.07	1.4	0.047	0.96	18.7	14.1	1.95	844	0.67	2.26	7.0	45.4	800
ZZ117282		4.23	15.40	0.06	1.5	0.047	1.08	17.5	17.9	1.85	989	0.83	2.20	7.3	46.9	850
ZZ117283		4.28	15.75	0.08	1.4	0.051	1.04	20.0	17.9	1.88	888	1.03	2.21	7.0	48.5	880
ZZ117284		4.11	14.35	0.06	1.3	0.047	0.99	16.9	13.5	1.91	804	0.70	2.43	6.5	41.6	660
ZZ117285		4.20	15.20	0.06	1.4	0.050	1.01	17.7	16.3	1.87	878	0.83	2.29	6.8	47.1	640
ZZ117286		3.98	14.85	0.06	1.4	0.044	1.02	17.8	14.9	1.83	777	0.71	2.34	6.7	43.7	710
ZZ117287		3.91	13.75	0.07	1.2	0.043	0.93	15.3	12.3	1.76	731	1.41	2.28	6.1	37.0	770
ZZ117288		3.95	14.70	0.07	1.3	0.047	1.04	18.5	13.8	1.82	746	0.65	2.38	6.8	41.5	710
ZZ117289		3.79	14.00	0.07	1.3	0.048	1.07	17.3	13.6	1.59	669	0.64	2.26	7.3	37.0	680
ZZ117290		4.28	15.05	0.07	1.3	0.049	0.96	19.0	17.5	1.77	789	1.09	2.04	6.8	44.1	1100
ZZ117291		4.25	14.90	0.07	1.4	0.050	1.03	17.5	17.3	1.75	836	1.02	2.11	7.3	44.4	910
ZZ117292		3.57	14.70	0.06	1.4	0.042	1.19	14.3	16.5	1.09	499	1.19	1.78	7.7	25.2	770
ZZ117293		3.50	14.85	0.06	1.4	0.043	1.23	13.8	15.6	1.08	588	1.48	1.81	7.8	26.1	740
ZZ117294		2.94	10.50	0.05	1.0	0.034	0.79	11.8	13.0	1.00	1500	1.07	1.32	5.0	27.3	1910
ZZ117295		4.12	16.40	0.07	1.4	0.049	1.10	14.7	16.4	1.33	993	1.12	1.79	5.9	32.7	1440
ZZ117296		3.78	15.85	0.07	1.5	0.046	1.24	18.7	19.2	1.30	866	1.02	1.76	7.4	36.4	1220
ZZ117297		2.93	15.40	0.06	1.4	0.035	1.10	15.3	14.0	1.06	696	0.94	1.56	6.2	28.8	1150
ZZ117298		3.17	13.60	0.05	1.4	0.040	1.51	15.4	18.2	0.90	593	0.90	1.82	7.9	24.8	1120
ZZ117299		4.77	16.85	0.10	1.3	0.057	1.30	28.7	35.8	1.23	1140	0.65	1.77	7.4	47.1	670
ZZ117300		2.36	14.00	0.06	1.2	0.033	1.70	18.2	13.3	0.85	423	0.45	2.35	7.1	21.8	460
ZZ117301		2.79	13.45	0.07	1.2	0.036	1.67	20.1	14.7	1.06	577	0.62	2.25	8.1	34.8	770
ZZ117302		3.06	13.35	0.06	1.3	0.039	1.32	19.0	13.0	1.18	545	1.65	2.27	7.4	30.7	420
ZZ117303		3.56	13.30	0.05	1.3	0.041	1.06	13.8	18.7	1.50	579	0.73	1.73	6.4	49.4	950
ZZ117304		3.77	14.65	0.06	1.4	0.043	1.27	20.7	22.1	1.51	593	1.00	1.83	6.9	46.2	770
ZZ117305		3.86	15.20	0.09	2.3	0.049	1.40	31.5	16.1	1.25	792	0.76	2.17	11.3	36.1	910
ZZ117306		3.91	15.05	0.07	1.9	0.049	1.32	25.9	17.7	1.38	770	0.78	2.10	8.5	35.6	910
ZZ117307		3.73	14.35	0.08	1.5	0.045	1.17	23.2	17.3	1.21	890	0.88	1.75	8.3	32.7	1890
ZZ117308		4.76	15.70	0.06	1.5	0.055	1.15	18.8	23.8	1.66	1040	0.60	2.00	8.5	40.4	840
ZZ117309		3.96	15.40	0.07	1.5	0.046	1.16	19.9	20.0	1.55	835	0.54	1.91	7.2	37.8	830
ZZ117310		4.04	15.95	0.08	1.8	0.050	1.29	29.7	16.4	1.28	766	0.84	2.09	9.7	26.9	970
ZZ117311		4.25	15.55	0.08	1.6	0.052	1.24	21.2	15.9	0.98	799	1.58	1.77	8.5	26.0	1060



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

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

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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
ZZ117272		10.4	38.0	<0.002	0.04	0.98	20.4	1	1.1	270	0.45	<0.05	6.30	0.475	0.34	1.9
ZZ117273		9.7	37.8	<0.002	0.02	0.88	20.0	1	1.0	279	0.44	<0.05	5.59	0.457	0.32	1.6
ZZ117274		10.0	39.4	<0.002	0.02	0.93	19.3	1	1.0	310	0.43	<0.05	6.72	0.466	0.32	2.0
ZZ117275		9.8	37.7	<0.002	0.05	0.85	18.5	1	1.0	251	0.42	<0.05	5.14	0.442	0.29	1.6
ZZ117276		9.5	36.1	<0.002	0.03	0.80	18.9	1	1.0	272	0.47	<0.05	5.50	0.447	0.30	1.6
ZZ117277		9.6	39.4	<0.002	0.05	0.78	15.7	1	0.9	360	0.41	<0.05	5.59	0.413	0.29	1.7
ZZ117278		9.8	33.9	<0.002	0.07	0.78	18.2	1	0.8	254	0.39	<0.05	4.81	0.426	0.25	1.5
ZZ117279		9.2	34.7	<0.002	0.04	0.83	23.1	1	0.9	270	0.45	<0.05	5.72	0.462	0.27	1.5
ZZ117280		7.4	29.6	<0.002	0.01	0.70	24.1	1	0.9	286	0.49	<0.05	4.75	0.523	0.22	1.5
ZZ117281		8.1	29.7	<0.002	0.02	0.78	23.3	1	0.9	273	0.51	<0.05	5.40	0.497	0.24	1.4
ZZ117282		9.8	35.7	<0.002	0.02	0.85	23.6	1	1.0	271	0.53	<0.05	5.54	0.481	0.29	1.7
ZZ117283		9.8	34.6	<0.002	0.03	0.86	23.9	1	0.9	271	0.50	<0.05	6.60	0.471	0.29	1.7
ZZ117284		8.6	27.8	<0.002	0.02	0.79	23.5	1	0.8	288	0.47	<0.05	5.34	0.498	0.24	1.4
ZZ117285		9.1	34.1	<0.002	0.02	0.83	24.6	1	0.9	273	0.47	<0.05	5.53	0.477	0.26	1.6
ZZ117286		8.8	34.4	<0.002	0.02	0.86	23.4	1	0.9	286	0.48	<0.05	5.58	0.467	0.25	1.5
ZZ117287		8.3	29.5	<0.002	0.03	0.71	21.7	1	0.8	263	0.45	<0.05	4.62	0.469	0.22	1.3
ZZ117288		8.5	27.9	<0.002	0.01	0.74	23.5	1	0.9	296	0.47	<0.05	4.93	0.493	0.25	1.4
ZZ117289		8.7	33.2	<0.002	0.02	0.73	18.7	1	0.9	302	0.56	<0.05	4.80	0.465	0.25	1.3
ZZ117290		9.7	32.9	<0.002	0.06	0.85	22.0	1	0.9	242	0.49	<0.05	6.28	0.475	0.30	1.5
ZZ117291		9.7	36.3	<0.002	0.04	0.86	22.1	1	1.0	258	0.51	<0.05	5.47	0.496	0.29	1.6
ZZ117292		10.7	44.3	<0.002	0.06	0.90	13.8	1	1.1	263	0.54	<0.05	4.55	0.416	0.33	1.6
ZZ117293		10.3	47.9	<0.002	0.05	0.89	13.7	1	1.1	241	0.56	<0.05	4.01	0.416	0.35	1.4
ZZ117294		8.0	35.2	<0.002	0.15	0.65	12.3	1	0.7	198.0	0.35	<0.05	3.38	0.312	0.25	1.1
ZZ117295		11.7	35.7	<0.002	0.10	0.96	14.8	1	0.9	296	0.41	<0.05	3.91	0.355	0.24	1.3
ZZ117296		12.7	42.6	<0.002	0.06	0.91	14.6	1	1.0	307	0.56	<0.05	6.22	0.368	0.31	1.8
ZZ117297		10.4	38.6	<0.002	0.06	0.72	11.2	1	0.9	277	0.44	<0.05	5.62	0.310	0.29	1.4
ZZ117298		11.8	57.7	<0.002	0.07	1.00	11.3	1	1.1	277	0.61	<0.05	4.79	0.337	0.38	1.6
ZZ117299		12.3	45.3	<0.002	0.03	1.29	28.7	1	1.1	303	0.49	<0.05	7.34	0.461	0.37	1.8
ZZ117300		13.5	55.0	<0.002	0.02	0.91	11.0	1	0.9	350	0.51	<0.05	6.21	0.288	0.39	1.4
ZZ117301		14.0	57.1	<0.002	0.02	1.05	12.4	1	0.9	347	0.58	<0.05	6.24	0.303	0.40	1.4
ZZ117302		11.2	41.3	<0.002	0.03	0.87	14.2	1	0.9	330	0.52	<0.05	5.29	0.360	0.30	1.4
ZZ117303		9.2	39.0	<0.002	0.06	0.84	16.0	1	0.8	244	0.48	<0.05	4.41	0.347	0.28	1.2
ZZ117304		11.6	45.8	<0.002	0.05	0.98	17.0	1	0.9	250	0.51	<0.05	7.61	0.362	0.36	1.6
ZZ117305		14.1	46.4	<0.002	0.02	0.93	15.9	1	1.3	360	0.80	<0.05	10.45	0.464	0.36	2.8
ZZ117306		13.7	45.5	<0.002	0.04	1.13	17.3	1	1.1	317	0.60	<0.05	7.44	0.436	0.36	2.0
ZZ117307		15.0	42.9	<0.002	0.09	1.01	14.9	1	1.1	286	0.64	<0.05	7.85	0.393	0.33	2.0
ZZ117308		12.1	37.1	<0.002	0.03	1.08	26.0	1	1.1	299	0.65	<0.05	5.69	0.449	0.29	1.7
ZZ117309		15.1	37.6	<0.002	0.04	0.93	18.9	1	0.9	279	0.51	<0.05	6.25	0.405	0.31	1.9
ZZ117310		11.1	42.6	<0.002	0.04	0.82	15.8	1	1.2	356	0.66	<0.05	8.11	0.477	0.30	2.1
ZZ117311		16.0	44.1	<0.002	0.06	0.92	12.3	1	1.1	305	0.62	0.05	6.82	0.385	0.33	1.8



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

To: STRATEGIC METALS LTD.
 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ117272		149	1.6	19.0	84	45.1
ZZ117273		146	1.7	17.0	64	41.9
ZZ117274		142	1.5	19.6	68	48.4
ZZ117275		139	3.3	15.9	69	42.5
ZZ117276		135	2.1	18.6	63	44.3
ZZ117277		126	1.4	15.4	69	57.8
ZZ117278		136	1.4	17.4	73	42.6
ZZ117279		149	1.5	18.6	74	45.1
ZZ117280		160	1.2	19.4	55	44.7
ZZ117281		157	2.0	19.0	62	44.8
ZZ117282		154	1.6	19.5	71	48.5
ZZ117283		154	1.7	19.4	69	45.0
ZZ117284		156	1.5	18.7	58	42.7
ZZ117285		155	1.5	19.0	59	46.7
ZZ117286		145	1.6	19.2	59	45.7
ZZ117287		145	1.5	16.7	63	38.5
ZZ117288		150	1.5	19.9	54	42.9
ZZ117289		135	1.2	17.0	58	42.0
ZZ117290		152	2.1	17.4	66	42.7
ZZ117291		155	2.1	18.7	71	46.2
ZZ117292		125	1.6	12.6	56	44.5
ZZ117293		125	1.4	12.6	51	50.4
ZZ117294		96	1.1	11.8	60	32.1
ZZ117295		123	1.0	19.1	93	47.5
ZZ117296		118	7.3	15.0	83	51.1
ZZ117297		89	1.5	11.3	73	46.8
ZZ117298		100	1.3	11.8	48	46.5
ZZ117299		152	3.2	25.5	71	42.7
ZZ117300		81	0.8	11.3	37	39.7
ZZ117301		88	1.3	14.0	50	37.2
ZZ117302		99	1.0	13.4	44	40.7
ZZ117303		111	1.0	11.7	57	40.9
ZZ117304		119	1.3	13.8	59	44.4
ZZ117305		124	1.2	22.6	69	70.0
ZZ117306		130	1.8	20.8	79	58.4
ZZ117307		120	1.3	17.7	76	52.6
ZZ117308		168	1.6	25.3	81	46.1
ZZ117309		133	3.9	19.5	72	48.2
ZZ117310		135	1.2	19.8	71	58.9
ZZ117311		97	1.8	17.9	75	55.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ117312		0.24	0.006	0.08	6.49	7.8	820	1.64	0.16	1.73	0.58	46.8	19.3	71	4.31	28.1
ZZ117313		0.26	0.003	0.10	6.51	6.4	810	1.29	0.15	1.59	0.23	41.5	9.4	60	1.98	23.1
ZZ117314		0.24	0.004	0.10	6.44	5.8	950	1.31	0.20	1.59	0.15	45.3	12.4	79	1.86	25.2
ZZ117315		0.41	0.026	0.11	7.32	14.2	860	1.57	0.19	2.45	0.24	70.5	18.9	73	2.21	42.6
ZZ117316		0.29	0.009	0.08	7.12	6.1	890	1.27	0.20	2.29	0.18	54.4	19.8	82	2.51	47.4
ZZ117317		0.37	0.006	0.12	7.45	5.8	800	1.24	0.20	2.44	0.11	52.3	18.4	84	2.32	98.7
ZZ117318		0.36	0.003	0.09	7.04	6.5	950	1.31	0.19	2.39	0.15	57.5	21.5	88	2.03	42.7
ZZ117319		0.20	0.003	0.05	7.35	5.7	760	1.18	0.16	2.52	0.12	54.0	18.9	81	2.12	24.3
ZZ117320		0.20	0.003	0.11	6.89	6.0	650	1.07	0.16	2.39	0.27	41.7	21.1	87	3.71	26.8
ZZ117321		0.35	0.002	0.07	7.32	7.9	730	1.25	0.16	2.84	0.10	47.7	20.8	91	2.46	31.5
ZZ117322		0.19	0.005	0.17	7.05	6.6	710	1.28	0.15	2.53	0.14	50.0	20.7	87	2.77	44.2
ZZ117323		0.27	0.005	0.15	7.23	7.6	750	1.16	0.16	2.44	0.14	42.8	20.4	82	3.05	37.4
ZZ117324		0.23	0.002	0.11	7.21	6.1	700	1.08	0.15	2.67	0.08	39.1	21.2	85	2.77	49.6
ZZ117325		0.19	0.002	0.14	6.82	6.2	670	1.03	0.15	2.69	0.11	39.2	26.0	76	2.71	76.5
ZZ117326		0.25	0.013	0.06	7.17	5.4	680	1.16	0.12	3.05	0.12	48.9	23.6	91	2.05	47.6
ZZ117327		0.21	0.003	0.10	7.11	6.9	660	1.05	0.15	2.53	0.30	43.9	26.0	94	2.71	55.0
ZZ117328		0.26	0.010	0.11	7.07	17.6	580	0.97	0.14	2.86	0.14	38.6	29.1	85	2.72	50.6
ZZ117329		0.24	0.003	0.08	7.39	6.7	650	1.06	0.14	2.98	0.17	46.2	27.5	105	2.40	50.3
ZZ117330		0.32	0.006	0.08	6.90	7.0	720	1.13	0.16	2.46	0.19	40.2	19.5	81	2.62	35.5
ZZ117331		0.22	0.005	0.10	7.27	7.0	670	1.17	0.18	2.76	0.20	42.1	24.1	88	3.03	47.3
ZZ117332		0.21	0.002	0.12	6.85	5.8	670	1.06	0.18	2.30	0.22	38.7	21.0	73	3.60	34.3
ZZ117333		0.25	0.013	0.11	6.91	6.8	740	1.18	0.12	2.51	0.15	49.8	18.5	75	2.47	63.1
ZZ117334		0.26	0.012	0.50	7.71	9.7	660	1.33	0.17	2.09	0.14	45.6	20.4	50	7.28	82.3
ZZ117335		0.28	0.011	0.20	7.33	6.5	420	0.83	0.18	2.86	0.11	25.7	30.5	170	6.69	70.5
ZZ117336		0.23	0.003	0.14	7.19	8.6	760	1.46	0.14	2.11	0.11	45.3	24.5	68	3.54	77.1
ZZ117337		0.26	0.006	0.16	6.97	8.1	760	1.14	0.16	2.27	0.12	42.7	18.9	79	4.50	41.3
ZZ117338		0.28	0.004	0.16	7.31	8.0	660	1.22	0.18	2.26	0.15	39.9	28.4	81	4.50	64.0
ZZ117339		0.28	0.006	0.12	8.57	46.5	730	0.98	0.11	2.29	0.16	39.3	29.7	152	10.75	46.2
ZZ117340		0.27	0.010	0.13	8.11	26.7	640	0.92	0.12	2.70	0.18	29.1	34.1	145	8.79	71.2
ZZ117341		0.25	0.005	0.12	7.71	10.7	820	1.15	0.15	2.37	0.15	42.2	24.3	83	4.21	42.7
ZZ117342		0.30	0.032	0.10	8.02	31.6	780	1.13	0.12	2.53	0.18	38.6	30.4	95	8.44	43.6
ZZ117343		0.24	0.013	0.11	7.75	77.8	630	1.03	0.12	2.98	0.25	38.1	30.1	99	5.57	60.3
ZZ117344		0.27	0.011	0.12	8.32	40.7	670	1.12	0.17	2.31	0.26	34.6	33.7	104	12.10	60.5
ZZ117345		0.27	0.013	0.18	8.00	18.6	670	1.12	0.14	2.78	0.22	36.4	30.3	84	8.88	54.0
ZZ117346		0.21	0.005	0.10	6.44	10.9	470	0.79	0.13	2.27	0.30	24.5	21.4	81	3.63	37.3
ZZ117347		0.31	0.004	0.12	8.02	17.6	600	1.13	0.13	2.84	0.14	32.3	31.5	140	4.37	59.9
ZZ117348		0.28	0.005	0.07	7.12	14.2	730	1.07	0.14	2.34	0.16	31.5	21.8	88	3.48	42.8
ZZ117349		0.22	0.009	0.12	6.87	10.4	790	1.17	0.16	1.80	0.29	38.1	19.9	78	4.01	32.7
ZZ117350		0.24	0.009	0.15	6.61	19.9	730	1.11	0.15	1.97	0.15	35.1	18.4	82	5.72	44.6
ZZ117351		0.19	0.006	0.12	7.54	9.6	880	1.38	0.21	1.66	0.10	43.4	10.1	30	7.26	35.2



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 North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
ZZ117312		5.32	16.75	0.09	1.6	0.092	1.08	19.2	19.4	1.02	2180	1.31	1.71	8.0	23.9	1710
ZZ117313		3.06	14.00	0.06	1.7	0.042	1.34	19.2	16.5	0.82	621	0.98	1.86	7.9	18.7	1540
ZZ117314		3.15	13.40	0.07	1.6	0.037	1.33	23.4	14.7	1.00	729	0.80	1.93	8.5	28.8	1440
ZZ117315		4.84	17.15	0.10	2.0	0.065	1.31	33.9	15.0	1.18	1020	0.85	2.36	11.2	27.3	1240
ZZ117316		3.68	14.50	0.08	2.0	0.040	1.32	26.8	13.5	1.21	741	0.81	2.06	9.4	32.4	1030
ZZ117317		4.60	16.80	0.09	2.1	0.044	1.42	25.4	16.1	1.26	675	1.42	2.15	10.3	34.9	1460
ZZ117318		3.88	14.60	0.08	2.2	0.045	1.35	28.5	13.8	1.21	798	0.83	2.05	10.6	35.2	1100
ZZ117319		4.05	15.55	0.08	1.8	0.049	1.16	26.5	15.0	1.39	718	0.78	2.10	9.6	32.3	620
ZZ117320		4.02	15.30	0.08	1.4	0.047	1.00	19.7	14.9	1.36	672	0.93	1.81	7.4	37.5	640
ZZ117321		4.23	15.95	0.08	1.9	0.052	1.15	23.3	15.2	1.63	715	0.68	2.15	9.1	38.0	520
ZZ117322		4.14	15.55	0.08	1.4	0.052	1.06	25.8	15.3	1.51	660	0.87	1.91	8.7	35.9	760
ZZ117323		4.16	15.65	0.07	1.6	0.051	1.13	21.2	15.2	1.47	682	0.92	1.97	8.9	35.0	750
ZZ117324		4.23	15.60	0.08	1.5	0.049	1.06	19.8	14.7	1.70	722	0.98	2.13	7.5	36.0	730
ZZ117325		4.07	14.35	0.08	1.3	0.048	0.97	19.7	14.2	1.54	851	0.93	1.73	6.7	40.5	1360
ZZ117326		4.43	15.70	0.08	1.7	0.052	1.11	24.3	13.6	1.74	734	0.86	2.11	9.3	39.6	630
ZZ117327		4.73	16.20	0.07	1.5	0.049	1.07	22.0	15.6	1.63	707	1.39	1.94	8.4	43.3	570
ZZ117328		5.25	15.30	0.08	1.4	0.054	0.96	18.9	13.8	1.85	774	1.05	2.09	7.4	46.0	650
ZZ117329		4.93	15.60	0.08	1.8	0.050	1.00	23.4	13.8	1.95	768	0.98	2.12	7.2	49.5	810
ZZ117330		4.17	15.55	0.07	1.7	0.050	1.12	20.0	15.3	1.45	672	1.04	1.98	8.6	33.5	630
ZZ117331		4.46	16.00	0.08	1.6	0.052	1.09	20.1	17.4	1.60	958	1.05	1.89	7.1	40.0	1080
ZZ117332		4.46	16.60	0.07	1.4	0.059	1.07	18.5	18.1	1.30	952	1.18	1.73	8.4	29.1	970
ZZ117333		4.43	16.60	0.07	1.8	0.059	1.24	24.8	15.5	1.36	698	0.90	1.96	10.0	31.0	750
ZZ117334		3.79	18.10	0.07	1.8	0.046	1.35	23.7	18.9	1.06	733	1.19	1.73	6.5	24.9	1220
ZZ117335		4.97	15.70	0.05	1.2	0.050	0.89	12.2	14.9	2.57	845	0.98	2.08	5.0	66.0	940
ZZ117336		3.84	15.45	0.08	1.7	0.052	1.21	19.6	16.6	1.15	611	0.97	1.85	7.9	32.6	1040
ZZ117337		4.23	16.85	0.07	1.8	0.057	1.25	20.5	17.2	1.32	692	1.06	1.90	8.5	31.2	960
ZZ117338		4.83	15.60	0.08	1.3	0.059	1.03	19.0	19.0	1.52	977	0.91	1.71	6.7	38.8	1720
ZZ117339		5.17	18.00	0.07	1.4	0.054	1.53	20.9	80.7	1.57	977	0.77	1.74	5.4	51.3	780
ZZ117340		5.27	16.80	0.07	1.1	0.059	1.19	14.4	53.1	1.98	974	0.68	1.93	4.9	58.7	720
ZZ117341		4.53	16.75	0.08	1.6	0.052	1.21	20.5	20.3	1.70	873	0.93	2.00	7.1	39.4	1100
ZZ117342		5.13	17.10	0.07	1.3	0.054	1.34	19.0	35.4	1.81	974	0.56	2.06	6.7	42.9	720
ZZ117343		4.91	16.70	0.07	1.3	0.052	1.09	18.2	36.9	2.06	895	0.67	2.01	6.4	44.5	820
ZZ117344		5.67	18.40	0.07	1.3	0.056	1.11	16.1	34.7	1.86	954	0.81	1.73	6.1	50.3	660
ZZ117345		4.64	17.90	0.06	1.3	0.050	1.17	17.6	22.0	1.92	983	0.93	1.79	5.7	41.4	1340
ZZ117346		3.92	14.00	0.05	1.2	0.042	0.88	11.8	16.6	1.53	873	0.92	1.52	4.8	33.4	1430
ZZ117347		4.73	17.20	0.06	1.6	0.047	1.16	15.7	20.2	2.25	839	1.08	2.23	5.6	59.7	990
ZZ117348		4.07	15.10	0.06	1.3	0.049	1.15	15.0	18.5	1.66	668	0.81	1.88	7.1	40.8	960
ZZ117349		3.81	14.45	0.06	1.5	0.045	1.19	18.6	21.4	1.27	1020	0.86	1.73	7.3	34.4	1620
ZZ117350		3.98	14.55	0.06	1.2	0.044	1.09	15.7	41.9	1.31	638	0.99	1.70	6.4	36.8	1340
ZZ117351		2.52	17.10	0.07	2.3	0.028	1.90	21.8	85.6	0.77	510	1.61	2.23	6.3	16.3	880



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
ZZ117312		12.8	39.5	<0.002	0.09	0.98	14.3	2	1.2	253	0.56	0.05	5.49	0.395	0.31	1.6
ZZ117313		12.6	42.9	<0.002	0.08	0.81	10.5	1	1.0	322	0.60	<0.05	7.13	0.347	0.33	2.1
ZZ117314		14.1	47.7	<0.002	0.07	0.89	12.1	1	4.0	290	0.61	<0.05	7.61	0.341	0.33	2.0
ZZ117315		12.7	44.1	<0.002	0.02	1.00	17.2	2	3.6	353	0.85	<0.05	9.16	0.518	0.32	2.9
ZZ117316		12.2	45.8	<0.002	0.06	0.88	13.7	1	5.6	324	0.64	<0.05	8.32	0.401	0.32	2.3
ZZ117317		11.7	46.5	<0.002	0.04	0.89	14.5	1	7.7	413	0.70	<0.05	7.34	0.489	0.29	2.2
ZZ117318		12.6	46.5	<0.002	0.05	0.94	15.0	1	4.5	340	0.75	<0.05	8.66	0.435	0.31	2.8
ZZ117319		9.4	39.5	<0.002	0.03	0.80	18.3	1	1.4	311	0.71	<0.05	7.22	0.495	0.28	2.0
ZZ117320		8.8	39.8	<0.002	0.04	0.96	19.5	1	1.5	248	0.54	<0.05	5.13	0.425	0.26	1.6
ZZ117321		9.2	39.8	<0.002	0.02	0.87	20.8	1	1.2	309	0.62	<0.05	6.84	0.517	0.28	2.2
ZZ117322		9.2	37.9	<0.002	0.04	0.74	18.6	1	1.5	275	0.57	<0.05	6.25	0.464	0.27	2.0
ZZ117323		10.2	41.0	<0.002	0.05	0.83	18.0	1	3.0	274	0.59	<0.05	5.96	0.469	0.29	1.9
ZZ117324		8.8	39.5	<0.002	0.05	0.78	19.4	1	6.2	272	0.54	<0.05	5.07	0.434	0.27	1.6
ZZ117325		8.6	36.2	<0.002	0.09	0.70	17.6	2	4.0	252	0.47	<0.05	5.24	0.402	0.25	1.8
ZZ117326		8.8	37.3	<0.002	0.03	0.73	20.5	1	2.7	304	0.67	<0.05	6.11	0.531	0.25	1.8
ZZ117327		9.2	39.7	<0.002	0.04	0.78	19.0	1	1.5	255	0.59	<0.05	5.60	0.487	0.26	1.6
ZZ117328		7.4	33.7	<0.002	0.05	0.80	20.6	1	1.4	258	0.52	<0.05	5.19	0.516	0.21	1.5
ZZ117329		8.6	35.9	<0.002	0.04	0.77	21.4	1	1.2	262	0.53	<0.05	6.14	0.520	0.24	1.7
ZZ117330		9.4	41.5	<0.002	0.04	0.89	18.1	1	1.1	265	0.62	<0.05	5.50	0.457	0.28	1.7
ZZ117331		10.2	42.1	<0.002	0.06	0.90	21.3	1	1.4	257	0.51	<0.05	6.00	0.469	0.29	2.0
ZZ117332		9.1	42.0	<0.002	0.06	0.90	18.2	1	1.6	248	0.59	<0.05	4.53	0.479	0.29	1.8
ZZ117333		9.7	42.9	<0.002	0.04	0.83	18.2	1	3.5	302	0.70	<0.05	6.75	0.530	0.29	2.0
ZZ117334		14.2	47.5	<0.002	0.07	0.93	14.0	1	4.7	271	0.48	<0.05	6.72	0.374	0.34	2.4
ZZ117335		9.0	29.9	<0.002	0.07	0.71	23.4	1	1.6	193.5	0.36	0.06	3.24	0.429	0.25	1.3
ZZ117336		11.0	44.0	<0.002	0.07	1.01	14.9	1	2.0	262	0.57	<0.05	5.70	0.425	0.32	2.4
ZZ117337		11.1	45.3	<0.002	0.06	1.01	18.0	1	1.2	260	0.56	<0.05	6.17	0.446	0.31	2.0
ZZ117338		10.3	39.5	<0.002	0.09	0.95	24.0	2	1.0	226	0.47	<0.05	5.64	0.418	0.29	1.9
ZZ117339		7.3	42.5	<0.002	0.03	3.66	26.7	1	0.8	254	0.39	<0.05	4.75	0.473	0.38	1.6
ZZ117340		8.3	36.3	<0.002	0.04	3.42	28.2	1	1.2	219	0.34	0.05	3.48	0.464	0.31	1.3
ZZ117341		10.9	43.3	<0.002	0.06	1.20	19.7	1	0.9	291	0.50	<0.05	5.76	0.441	0.33	1.8
ZZ117342		9.2	40.0	<0.002	0.02	2.49	26.4	1	1.0	274	0.47	<0.05	4.57	0.514	0.32	1.6
ZZ117343		8.9	32.7	<0.002	0.04	2.59	24.0	1	1.6	270	0.46	<0.05	5.26	0.493	0.27	1.6
ZZ117344		13.0	37.6	<0.002	0.03	2.54	25.3	1	1.8	230	0.42	0.08	4.33	0.450	0.32	1.5
ZZ117345		14.3	38.7	<0.002	0.07	1.58	22.6	1	1.4	244	0.40	<0.05	4.84	0.422	0.28	1.6
ZZ117346		7.5	32.2	<0.002	0.12	1.05	17.1	1	0.8	228	0.33	<0.05	3.12	0.387	0.20	1.1
ZZ117347		7.9	33.0	<0.002	0.06	1.57	21.1	1	0.8	324	0.39	<0.05	3.85	0.410	0.24	1.6
ZZ117348		9.8	42.4	<0.002	0.07	1.16	18.7	1	1.0	244	0.50	<0.05	4.26	0.433	0.29	1.4
ZZ117349		13.6	46.2	<0.002	0.08	1.33	14.9	1	0.9	247	0.53	<0.05	5.62	0.405	0.32	1.8
ZZ117350		14.0	41.0	<0.002	0.08	2.10	13.4	1	1.0	228	0.45	0.05	4.82	0.405	0.29	1.6
ZZ117351		14.0	55.1	<0.002	0.04	1.68	7.1	1	0.8	404	0.46	<0.05	6.85	0.256	0.36	2.9



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

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17146623

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
ZZ117312		89	1.3	28.2	121	51.4
ZZ117313		88	1.0	14.9	61	59.8
ZZ117314		91	1.1	13.9	52	55.3
ZZ117315		110	2.2	34.3	76	57.2
ZZ117316		115	1.3	16.0	63	59.0
ZZ117317		127	1.0	18.1	79	69.0
ZZ117318		122	1.2	18.0	62	67.4
ZZ117319		142	1.3	18.7	61	57.6
ZZ117320		144	1.6	17.2	51	43.6
ZZ117321		150	1.5	19.3	59	53.6
ZZ117322		142	1.8	17.7	55	48.3
ZZ117323		141	5.5	17.9	58	51.9
ZZ117324		144	7.9	17.2	61	46.9
ZZ117325		134	1.2	17.6	60	42.0
ZZ117326		151	2.2	19.0	62	51.0
ZZ117327		157	1.5	16.8	66	48.4
ZZ117328		162	1.2	18.9	70	40.5
ZZ117329		163	1.5	19.1	62	44.4
ZZ117330		148	1.9	16.4	64	47.7
ZZ117331		161	1.6	20.1	64	47.2
ZZ117332		157	1.8	19.4	71	50.7
ZZ117333		155	1.9	18.9	65	57.2
ZZ117334		122	2.6	20.1	74	59.9
ZZ117335		176	1.8	16.2	83	35.8
ZZ117336		126	2.1	20.1	64	50.6
ZZ117337		142	2.4	18.0	57	56.7
ZZ117338		153	2.1	29.5	75	40.4
ZZ117339		171	4.8	19.9	70	46.2
ZZ117340		179	2.9	20.0	71	36.2
ZZ117341		152	1.6	18.9	73	50.5
ZZ117342		182	2.6	21.7	69	40.1
ZZ117343		165	6.3	20.7	78	40.7
ZZ117344		188	3.2	18.3	84	40.0
ZZ117345		154	2.1	20.2	78	43.3
ZZ117346		133	1.7	13.0	70	43.8
ZZ117347		154	1.6	16.7	78	52.7
ZZ117348		139	1.8	15.9	71	43.6
ZZ117349		125	1.8	14.6	82	45.0
ZZ117350		135	2.7	16.0	67	39.5
ZZ117351		67	1.7	11.9	63	81.9



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE WH17148646

Project: Hartless Joe

This report is for 26 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17-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
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
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH17148646

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- GRA21	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	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.05	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1
K293313		0.78	<0.001		0.01	0.87	0.9	<0.02	<10	20	0.34	0.02	12.05	0.08	8.22	21.7
K293314		0.86	0.004		0.25	0.76	3.4	<0.02	<10	50	0.20	0.02	0.55	0.05	27.4	2.4
K293315		0.76	<0.001		0.01	0.54	1.1	<0.02	<10	30	0.10	0.01	16.85	0.17	2.36	20.8
K293316		0.66	<0.001		0.03	1.05	0.8	<0.02	<10	120	0.21	0.04	4.52	0.09	14.15	8.1
K293317		0.66	0.062		0.17	0.32	35.4	0.08	<10	50	0.30	0.11	11.60	0.25	9.82	42.3
K293318		1.00	0.044		2.25	0.54	6.1	0.04	<10	60	0.13	3.48	0.87	4.27	12.85	2.1
K293319		0.94	0.002		0.24	0.68	2.4	<0.02	<10	70	0.33	0.04	8.97	0.11	4.99	32.8
K293320		1.58	>10.0	37.5	24.2	0.04	81.3	>25.0	<10	<10	<0.05	0.65	0.11	2.64	0.52	1.3
K293321		0.78	0.671		1.23	0.28	2.7	0.42	<10	20	<0.05	0.03	0.44	0.66	0.34	3.5
K293322		1.32	0.048		0.07	0.31	5.7	0.11	<10	30	0.06	0.03	7.77	0.11	7.71	7.9
K293323		1.16	0.031		0.37	3.27	37.1	0.03	<10	20	0.22	0.82	11.15	0.20	7.84	50.4
K293324		1.40	<0.001		0.02	0.42	26.1	<0.02	<10	50	0.20	0.01	18.50	0.13	3.69	19.2
K293325		0.92	<0.001		0.06	0.65	6.6	<0.02	<10	120	0.25	0.01	12.50	0.12	2.70	22.9
K293326		1.28	0.142		1.24	0.06	2.7	0.09	<10	90	<0.05	0.19	0.34	9.35	2.62	1.0
K293327		1.14	<0.001		0.32	0.29	13.3	<0.02	<10	30	0.13	0.10	6.92	0.17	7.69	7.6
K293328		1.54	0.317		5.64	0.27	11.9	0.32	<10	80	0.05	3.43	0.41	0.15	1.16	4.3
K293329		1.10	0.425		42.7	0.31	6.5	0.50	<10	70	0.05	2.66	0.31	0.35	1.52	5.7
K293330		1.26	0.177		3.36	0.07	4.0	0.14	<10	10	<0.05	9.01	0.05	0.11	0.21	2.7
K293331		1.16	0.245		6.56	0.08	11.6	0.23	<10	10	<0.05	54.3	0.02	0.21	0.37	6.0
K293332		0.70	0.014		1.00	0.20	0.5	0.05	<10	<10	<0.05	0.28	0.24	0.16	0.08	7.5
K293333		1.40	0.006		0.94	0.07	0.4	<0.02	<10	<10	<0.05	0.30	0.05	0.10	0.04	3.2
K293334		1.52	0.002		0.95	2.76	0.6	<0.02	<10	80	0.09	0.39	2.03	0.48	0.98	37.5
K293335		0.62	<0.001		0.03	0.20	35.0	<0.02	<10	20	0.06	0.05	7.48	0.06	1.56	8.8
K293336		0.48	<0.001		0.22	0.77	113.5	<0.02	<10	30	0.38	0.08	9.82	0.11	0.96	44.4
K293337		1.08	<0.001		1.66	0.36	0.8	<0.02	<10	20	<0.05	2.50	0.52	0.03	0.11	2.2
K293338		1.48	<0.001		0.29	1.27	0.5	<0.02	<10	10	0.08	0.24	0.54	0.03	0.17	8.0



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS WH17148646

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	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	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
K293313		46	0.50	4.6	4.61	2.67	<0.05	0.03	<0.01	0.036	0.04	3.8	9.7	3.54	1430	0.11
K293314		3	1.03	2.0	0.81	2.45	<0.05	0.40	<0.01	<0.005	0.27	17.3	3.2	0.16	145	0.25
K293315		4	1.84	3.0	6.83	1.20	<0.05	<0.02	<0.01	0.041	0.06	0.7	1.2	1.16	1500	0.27
K293316		4	2.87	8.9	1.83	2.56	<0.05	0.27	<0.01	0.010	0.07	8.2	7.1	0.11	551	0.08
K293317		6	1.40	116.5	5.68	1.63	<0.05	0.03	0.04	0.026	0.03	2.5	2.5	3.11	1890	0.15
K293318		3	0.73	7.6	0.84	2.14	<0.05	0.62	<0.01	<0.005	0.18	7.8	2.9	0.15	105	0.21
K293319		38	5.78	46.0	6.13	2.41	<0.05	0.05	0.01	0.058	0.09	1.6	6.3	3.61	1320	0.10
K293320		10	0.10	19.9	1.08	0.16	<0.05	<0.02	0.01	0.057	0.02	0.3	0.2	0.01	35	1.16
K293321		15	0.40	7.3	0.82	0.98	<0.05	<0.02	<0.01	0.005	0.04	0.2	2.9	0.36	262	1.73
K293322		9	0.21	3.2	3.07	0.79	<0.05	0.09	0.01	0.007	0.03	3.8	1.7	3.09	723	0.30
K293323		69	0.97	20.7	9.57	8.89	0.09	0.02	0.01	0.044	0.01	3.1	24.3	3.19	1520	0.25
K293324		96	0.28	4.7	5.46	1.25	<0.05	<0.02	<0.01	0.016	0.05	1.5	3.8	4.74	1480	0.49
K293325		68	0.47	14.9	3.70	1.27	<0.05	<0.02	0.01	0.030	0.03	0.9	4.6	0.39	879	0.23
K293326		11	0.25	15.4	0.44	0.27	<0.05	0.02	0.03	0.012	0.03	1.5	0.3	0.03	82	1.05
K293327		8	0.34	51.5	2.46	0.69	<0.05	0.07	0.01	<0.005	0.05	4.1	1.5	3.01	439	1.36
K293328		19	0.41	77.1	1.16	0.99	<0.05	0.02	<0.01	<0.005	0.04	0.6	2.7	0.18	72	20.4
K293329		22	0.39	118.5	1.50	1.17	<0.05	<0.02	0.02	0.005	0.04	0.8	3.1	0.20	77	12.70
K293330		12	0.17	52.5	1.46	0.39	<0.05	<0.02	<0.01	<0.005	0.01	0.2	0.6	0.03	67	2.08
K293331		18	0.08	103.5	2.49	0.48	<0.05	<0.02	<0.01	0.005	0.01	0.2	0.4	0.03	38	7.33
K293332		6	<0.05	1985	0.71	0.53	<0.05	<0.02	<0.01	0.036	<0.01	<0.2	0.2	0.01	28	15.95
K293333		11	<0.05	1165	0.66	0.19	<0.05	<0.02	<0.01	0.028	<0.01	<0.2	0.2	0.01	40	26.8
K293334		191	2.00	9620	4.56	7.19	<0.05	<0.02	0.01	0.178	0.07	0.5	18.0	2.77	676	1.78
K293335		9	0.33	32.9	2.97	0.56	0.09	<0.02	0.01	0.011	0.05	0.7	1.2	1.27	750	10.85
K293336		190	0.25	160.0	4.60	2.02	0.10	0.02	0.01	0.039	0.03	0.4	16.0	1.49	731	0.63
K293337		20	0.06	177.0	0.64	1.11	0.10	<0.02	<0.01	0.005	<0.01	<0.2	4.8	0.36	123	5.36
K293338		33	0.30	299	1.65	4.08	0.09	<0.02	<0.01	0.015	0.02	<0.2	16.7	1.18	171	0.78



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CERTIFICATE OF ANALYSIS WH17148646

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	
		Na %	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
K293313		<0.01	<0.05	24.4	110	2.5	1.0	<0.001	<0.01	0.13	20.9	0.9	<0.2	209	<0.01	0.01
K293314		0.05	<0.05	2.2	340	7.3	7.0	0.003	0.05	0.31	0.5	0.2	<0.2	10.4	<0.01	<0.01
K293315		0.01	<0.05	18.9	330	1.0	1.2	<0.001	<0.01	0.06	16.0	0.7	<0.2	46.8	<0.01	0.01
K293316		0.03	<0.05	6.6	300	4.7	2.4	<0.001	<0.01	0.37	1.8	0.3	<0.2	21.8	<0.01	<0.01
K293317		<0.01	<0.05	15.7	430	4.8	1.3	<0.001	0.66	1.05	9.7	1.5	0.3	388	<0.01	0.10
K293318		0.04	0.50	1.6	270	801	5.4	<0.001	0.46	0.20	0.6	0.2	<0.2	11.2	0.01	0.05
K293319		0.01	<0.05	32.4	320	5.7	3.8	0.001	0.50	0.34	30.0	0.9	0.2	530	<0.01	0.02
K293320		<0.01	0.09	2.1	<10	338	0.7	<0.001	0.85	0.58	0.1	0.2	<0.2	2.2	<0.01	8.93
K293321		0.01	<0.05	5.6	30	25.5	0.9	<0.001	0.03	0.35	0.9	<0.2	<0.2	11.3	<0.01	0.71
K293322		<0.01	<0.05	17.4	300	7.9	1.0	<0.001	0.02	0.34	3.1	0.3	<0.2	112.0	<0.01	0.02
K293323		0.01	<0.05	41.5	660	10.0	0.4	0.001	2.51	0.38	19.2	2.3	0.2	257	<0.01	0.18
K293324		<0.01	<0.05	31.5	70	3.6	2.0	<0.001	0.02	0.77	15.6	0.8	<0.2	305	<0.01	0.01
K293325		<0.01	<0.05	46.2	120	5.2	1.2	<0.001	<0.01	1.03	20.4	0.5	<0.2	45.2	<0.01	<0.01
K293326		<0.01	0.09	2.5	20	165.0	0.9	<0.001	<0.01	0.99	0.2	<0.2	<0.2	3.9	<0.01	0.19
K293327		<0.01	<0.05	23.6	220	8.1	1.7	<0.001	0.18	4.99	1.2	0.3	<0.2	128.5	<0.01	0.01
K293328		<0.01	0.05	9.0	40	31.7	1.4	0.004	0.79	1.35	1.4	0.3	<0.2	8.3	<0.01	2.09
K293329		<0.01	0.06	6.2	40	55.2	1.5	0.002	0.89	18.50	1.4	0.5	<0.2	5.7	<0.01	1.26
K293330		<0.01	0.10	1.2	10	20.5	0.2	<0.001	0.02	0.64	0.3	0.3	<0.2	0.9	<0.01	3.38
K293331		<0.01	0.13	2.1	30	28.8	0.3	<0.001	0.01	2.63	0.3	0.6	<0.2	1.0	<0.01	20.9
K293332		<0.01	0.07	3.9	10	0.3	<0.1	0.001	0.01	<0.05	0.1	0.4	<0.2	2.5	<0.01	0.11
K293333		<0.01	0.10	3.4	<10	0.3	0.1	<0.001	0.09	0.05	<0.1	0.2	<0.2	5.6	<0.01	0.10
K293334		0.01	<0.05	57.1	70	0.8	2.7	<0.001	0.03	0.09	15.5	0.5	0.2	16.2	<0.01	0.05
K293335		<0.01	0.05	15.0	40	1.1	2.5	<0.001	0.08	4.57	6.5	0.5	<0.2	45.5	<0.01	0.01
K293336		0.01	<0.05	86.9	40	3.5	1.2	<0.001	0.44	0.82	42.7	0.6	<0.2	92.9	<0.01	0.02
K293337		<0.01	0.06	4.1	<10	52.7	0.1	<0.001	0.02	0.10	1.4	0.3	<0.2	4.7	<0.01	0.05
K293338		0.01	<0.05	17.2	<10	6.8	0.8	<0.001	0.04	0.05	8.3	0.2	<0.2	4.0	<0.01	0.01



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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17148646

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5
K293313		0.3	<0.005	<0.02	0.10	127	0.14	17.10	33	1.0
K293314		7.6	<0.005	0.07	1.30	4	0.28	3.46	28	14.4
K293315		<0.2	<0.005	<0.02	0.12	131	<0.05	11.45	50	<0.5
K293316		3.3	<0.005	0.03	0.56	17	0.09	3.22	27	11.6
K293317		<0.2	<0.005	0.04	<0.05	92	0.40	41.8	57	<0.5
K293318		7.7	0.037	0.06	1.84	4	0.47	3.02	207	21.1
K293319		<0.2	<0.005	0.03	0.06	146	0.21	20.2	74	0.6
K293320		<0.2	<0.005	<0.02	0.12	1	0.06	0.13	140	0.5
K293321		<0.2	0.025	0.02	<0.05	10	1.64	1.64	58	<0.5
K293322		1.6	<0.005	<0.02	0.39	61	0.06	3.05	49	3.2
K293323		<0.2	0.006	<0.02	0.22	130	0.12	23.2	40	0.8
K293324		<0.2	<0.005	0.02	0.05	79	0.14	17.80	44	<0.5
K293325		<0.2	<0.005	<0.02	0.16	103	0.19	9.91	40	<0.5
K293326		0.3	<0.005	<0.02	0.11	5	0.22	0.39	1460	0.5
K293327		1.5	<0.005	<0.02	0.55	30	0.12	3.76	83	2.1
K293328		<0.2	0.006	0.02	0.08	12	2.04	0.86	16	0.5
K293329		<0.2	<0.005	<0.02	0.08	16	1.82	1.36	15	<0.5
K293330		<0.2	<0.005	<0.02	0.24	5	0.99	0.63	6	<0.5
K293331		<0.2	<0.005	<0.02	0.86	8	2.15	0.22	7	<0.5
K293332		<0.2	<0.005	<0.02	0.08	3	0.18	0.12	7	<0.5
K293333		<0.2	<0.005	<0.02	0.08	1	0.09	0.05	10	<0.5
K293334		<0.2	<0.005	0.03	0.22	104	0.11	5.92	127	<0.5
K293335		<0.2	<0.005	0.03	<0.05	37	0.14	6.46	16	<0.5
K293336		<0.2	<0.005	<0.02	<0.05	147	0.17	4.06	34	<0.5
K293337		<0.2	<0.005	<0.02	<0.05	13	<0.05	0.43	3	<0.5
K293338		<0.2	<0.005	<0.02	<0.05	43	<0.05	1.57	13	<0.5



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CERTIFICATE OF ANALYSIS WH17148646

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 Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- GRA21	Au- ICP21	CRU- 31	LOG- 21
ME- MS41	PUL- 31	PUL- QC	SPL- 21
WEI- 21			



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CERTIFICATE WH17196983

Project: Hartless Joe

This report is for 16 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JOAN MARIACHER	JACK MORTON
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS41	Ultra Trace Aqua Regia ICP- MS	
Ag- OG46	Ore Grade Ag - Aqua Regia	ICP- AES
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES

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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CERTIFICATE OF ANALYSIS WH17196983

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	Au- GRA21	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	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm
		0.02	0.001	0.05	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1
K291622		1.62	0.524		0.86	0.12	335	0.52	<10	20	0.06	0.06	0.73	0.41	0.87	4.9
K291623		1.73	0.113		0.22	0.12	27.6	0.08	<10	10	<0.05	0.03	2.12	0.15	0.79	1.9
K291624		1.56	1.515		1.37	0.79	110.5	1.43	<10	20	0.08	0.09	0.10	1.01	1.68	8.3
K291625		1.52	>10.0	49.8	32.7	0.15	160.5	>25.0	<10	10	0.21	0.04	0.04	0.90	1.04	5.2
K291626		1.56	0.422		0.50	0.14	111.5	0.38	<10	10	0.05	0.05	0.03	0.53	0.70	3.5
K291627		1.49	>10.0	10.50	>100	0.14	60.3	9.22	<10	10	0.06	0.20	1.87	19.80	0.54	2.3
K291628		0.88	0.033		0.69	0.11	106.0	0.04	<10	20	0.14	0.19	4.01	0.10	4.37	6.4
K291629		1.47	5.97		28.6	0.28	8420	5.25	<10	10	<0.05	0.06	0.03	19.60	2.39	4.5
K291630		1.44	2.79		16.70	0.53	548	6.35	<10	20	0.12	0.15	0.04	7.84	2.65	4.1
K292837		0.58	0.029		1.82	0.09	18.6	0.03	<10	<10	<0.05	0.02	4.39	19.95	0.69	10.1
K292838		1.38	0.034		4.08	0.52	3.4	0.03	<10	<10	<0.05	0.13	0.21	15.20	1.51	5.8
K292839		1.18	5.34		28.7	0.09	48.6	4.86	<10	10	<0.05	0.28	0.78	0.38	1.64	1.2
K292840		1.64	>10.0	17.90	54.8	0.07	46.3	13.90	<10	10	<0.05	2.03	0.01	0.32	0.96	1.5
K292841		1.39	>10.0	28.9	84.4	0.05	30.1	12.50	<10	10	<0.05	0.90	0.05	0.16	1.49	0.5
K292842		1.84	>10.0	29.2	91.7	0.03	52.7	21.7	<10	<10	<0.05	1.43	0.01	0.15	0.58	0.2
K292843		1.62	1.230		3.14	0.25	64.7	0.89	<10	10	0.14	0.06	3.77	0.62	2.02	12.6



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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17196983

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	
		Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm
		1	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
K291622		13	0.42	17.3	1.87	0.26	<0.05	<0.02	0.01	0.008	0.07	0.4	0.4	0.03	241	0.25
K291623		15	0.31	4.7	1.10	0.27	<0.05	<0.02	<0.01	0.005	0.05	0.4	0.8	0.26	285	0.20
K291624		27	0.77	33.7	2.92	2.11	<0.05	<0.02	<0.01	0.009	0.07	0.9	7.1	0.75	321	0.58
K291625		13	0.48	56.2	2.81	0.32	<0.05	<0.02	0.02	0.022	0.06	0.3	0.7	0.02	93	0.19
K291626		12	0.26	30.3	1.40	0.37	<0.05	<0.02	<0.01	0.010	0.06	0.3	0.6	0.04	122	0.50
K291627		32	0.24	377	1.17	0.51	<0.05	<0.02	0.08	0.047	0.08	0.2	1.1	0.72	397	0.17
K291628		14	0.20	13.3	5.21	0.46	0.06	0.02	<0.01	0.012	0.05	8.5	0.2	0.32	422	1.84
K291629		19	0.10	83.8	2.04	1.40	<0.05	<0.02	0.02	0.159	0.02	0.9	1.8	0.18	59	2.46
K291630		44	0.62	105.5	2.49	2.24	<0.05	<0.02	<0.01	0.075	0.04	1.2	3.5	0.28	79	0.77
K292837		21	0.12	972	1.38	0.60	<0.05	0.08	0.01	0.019	<0.01	0.2	0.3	0.13	201	2.37
K292838		73	0.09	2200	2.45	4.10	<0.05	0.13	0.09	0.036	<0.01	0.4	1.3	0.64	608	2.02
K292839		12	0.23	14.0	0.82	0.33	<0.05	0.02	<0.01	0.017	0.06	1.0	0.3	0.02	76	0.30
K292840		16	0.18	28.7	1.02	0.24	<0.05	0.02	<0.01	0.050	0.02	0.5	0.5	0.01	38	0.28
K292841		13	0.20	4.5	0.47	0.16	<0.05	0.03	<0.01	0.007	0.03	0.9	0.3	0.01	43	0.17
K292842		12	0.10	3.0	0.52	0.12	0.06	<0.02	0.01	0.009	0.02	0.3	0.1	<0.01	30	0.25
K292843		26	0.54	70.8	2.24	0.77	0.06	0.04	0.01	0.016	0.05	1.0	1.8	1.41	544	1.26



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Sample Description	Method Analyte Units LOR	ME- MS41 Na %	ME- MS41 Nb ppm	ME- MS41 Ni ppm	ME- MS41 P ppm	ME- MS41 Pb ppm	ME- MS41 Rb ppm	ME- MS41 Re ppm	ME- MS41 S %	ME- MS41 Sb ppm	ME- MS41 Sc ppm	ME- MS41 Se ppm	ME- MS41 Sn ppm	ME- MS41 Sr ppm	ME- MS41 Ta ppm	ME- MS41 Te ppm
K291622		0.01	<0.05	17.0	90	103.5	1.8	<0.001	0.01	3.61	1.8	0.7	0.2	4.8	<0.01	0.11
K291623		0.01	<0.05	6.0	50	3.2	1.2	<0.001	0.08	2.01	1.2	0.3	<0.2	36.7	<0.01	0.01
K291624		0.01	<0.05	23.6	280	27.4	1.7	<0.001	0.01	1.09	2.8	1.4	<0.2	8.7	<0.01	0.20
K291625		<0.01	<0.05	3.6	70	658	1.6	<0.001	0.01	1.15	1.5	0.5	<0.2	2.3	<0.01	0.10
K291626		<0.01	<0.05	2.2	50	34.1	1.5	<0.001	0.01	0.77	0.8	0.3	<0.2	2.4	<0.01	0.04
K291627		0.01	<0.05	6.1	10	1500	1.7	<0.001	0.35	120.5	1.3	7.5	0.3	79.0	<0.01	0.68
K291628		<0.01	<0.05	8.9	3920	9.7	1.2	<0.001	2.27	1.22	1.2	7.2	<0.2	61.2	<0.01	0.11
K291629		0.02	<0.05	6.1	60	2310	0.5	<0.001	0.70	10.80	1.7	3.4	<0.2	3.0	<0.01	0.61
K291630		0.03	<0.05	13.0	120	1060	0.9	<0.001	0.09	1.02	4.4	1.3	<0.2	11.6	<0.01	0.83
K292837		0.03	<0.05	12.8	60	13.1	0.1	0.010	0.81	0.20	1.6	2.1	<0.2	7.2	<0.01	0.03
K292838		0.08	0.05	6.4	200	6.1	0.1	0.008	1.08	0.10	3.3	0.9	0.3	2.7	<0.01	0.03
K292839		0.01	<0.05	4.2	10	88.0	1.5	<0.001	0.38	0.53	0.1	<0.2	<0.2	7.1	<0.01	14.20
K292840		0.01	<0.05	7.4	20	244	0.6	<0.001	0.12	1.27	0.2	0.4	<0.2	1.1	<0.01	34.7
K292841		<0.01	<0.05	1.6	30	286	0.6	<0.001	0.11	0.67	<0.1	0.3	<0.2	1.8	<0.01	15.90
K292842		<0.01	<0.05	1.1	10	547	0.5	<0.001	0.19	0.57	0.1	0.4	<0.2	1.1	<0.01	36.7
K292843		<0.01	<0.05	19.0	20	117.0	1.7	<0.001	0.49	2.92	6.0	0.4	<0.2	86.7	<0.01	0.25



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 LIMITED
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 VANCOUVER BC V6B 1L8

Page: 2 - D
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2017
 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17196983

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm
		0.2	0.005	0.02	0.05	1	0.05	0.05	2	0.5	1
K291622		<0.2	<0.005	0.04	0.12	6	3.24	1.36	56	<0.5	
K291623		<0.2	<0.005	0.02	0.07	5	0.12	1.49	19	<0.5	
K291624		<0.2	<0.005	0.02	0.08	29	0.15	2.41	88	<0.5	
K291625		<0.2	<0.005	0.02	0.10	17	1.87	1.38	159	<0.5	
K291626		<0.2	<0.005	<0.02	0.05	6	0.14	0.92	53	<0.5	
K291627		<0.2	<0.005	0.02	<0.05	6	36.8	1.25	990	<0.5	365
K291628		<0.2	<0.005	0.02	0.60	17	0.30	21.4	22	0.9	
K291629		<0.2	<0.005	0.02	0.05	29	0.24	1.55	895	<0.5	
K291630		<0.2	<0.005	0.02	0.08	45	0.16	1.99	275	<0.5	
K292837		<0.2	0.067	<0.02	<0.05	11	0.06	3.21	4020	1.7	
K292838		<0.2	0.242	<0.02	<0.05	67	0.07	3.90	4620	3.9	
K292839		<0.2	<0.005	0.02	0.19	3	0.09	0.36	36	1.0	
K292840		<0.2	<0.005	<0.02	0.29	3	0.96	0.19	67	0.7	
K292841		0.2	<0.005	<0.02	0.12	1	0.27	0.24	9	0.9	
K292842		<0.2	<0.005	<0.02	<0.05	<1	0.09	<0.05	10	<0.5	
K292843		<0.2	<0.005	0.03	0.22	33	0.38	4.63	60	1.2	



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

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

Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 21- OCT- 2017
 Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH17196983

	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. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> <td style="width: 33%;">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							
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag- OG46</td> <td style="width: 33%;">Au- GRA21</td> <td style="width: 33%;">Au- ICP21</td> <td style="width: 33%;">ME- MS41</td> </tr> <tr> <td>ME- OG46</td> <td></td> <td></td> <td></td> </tr> </table>	Ag- OG46	Au- GRA21	Au- ICP21	ME- MS41	ME- OG46			
Ag- OG46	Au- GRA21	Au- ICP21	ME- MS41						
ME- OG46									

STRATEGIC METALS LTD.

FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

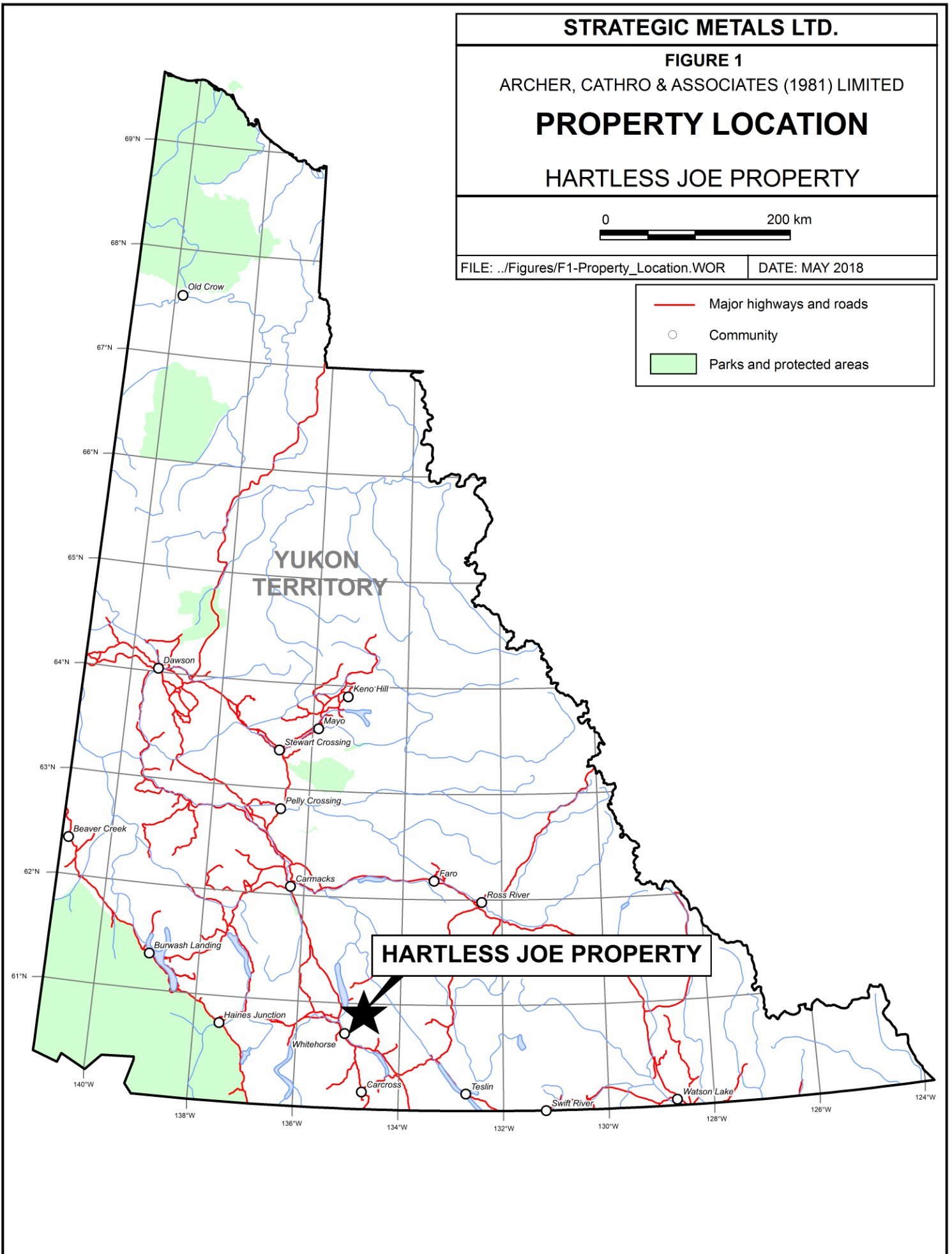
HARTLESS JOE PROPERTY

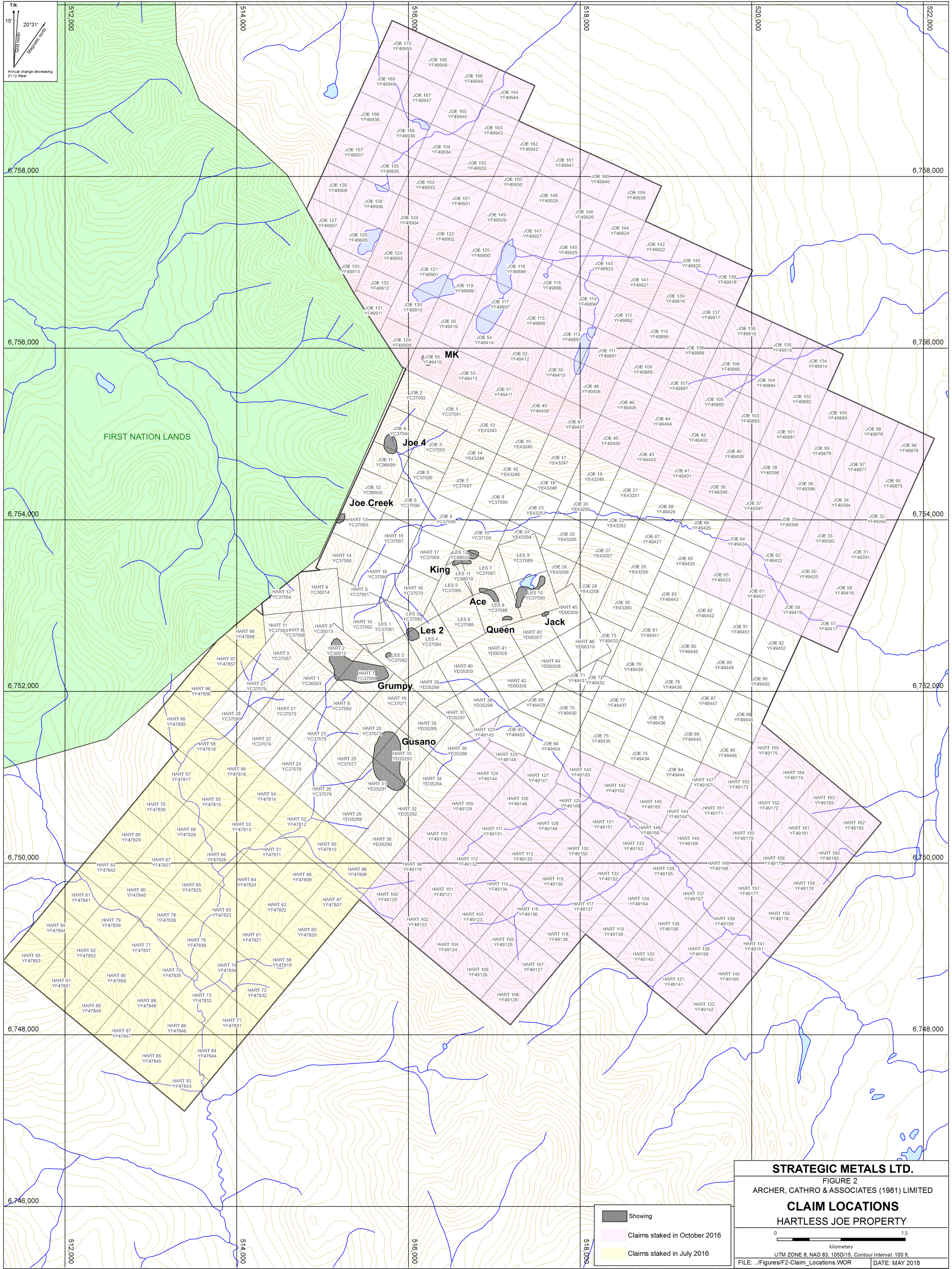


FILE: ../Figures/F1-Property_Location.WOR

DATE: MAY 2018

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





T.N.
15'
20°31'
Annual change decreasing
21.7y West

FIRST NATION LANDS

Joe Creek

Joe 4

King

Ace

Queen

Jack

Les 2

Grumpy

Gusano

- Showing
- Claims staked in October 2016
- Claims staked in July 2016

STRATEGIC METALS LTD.
FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS
HARTLESS JOE PROPERTY

0 1.5
kilometers

UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.

FILE: .../Figures/F2-Claim_Locations.WOR DATE: MAY 2018

STRATEGIC METALS LTD.

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

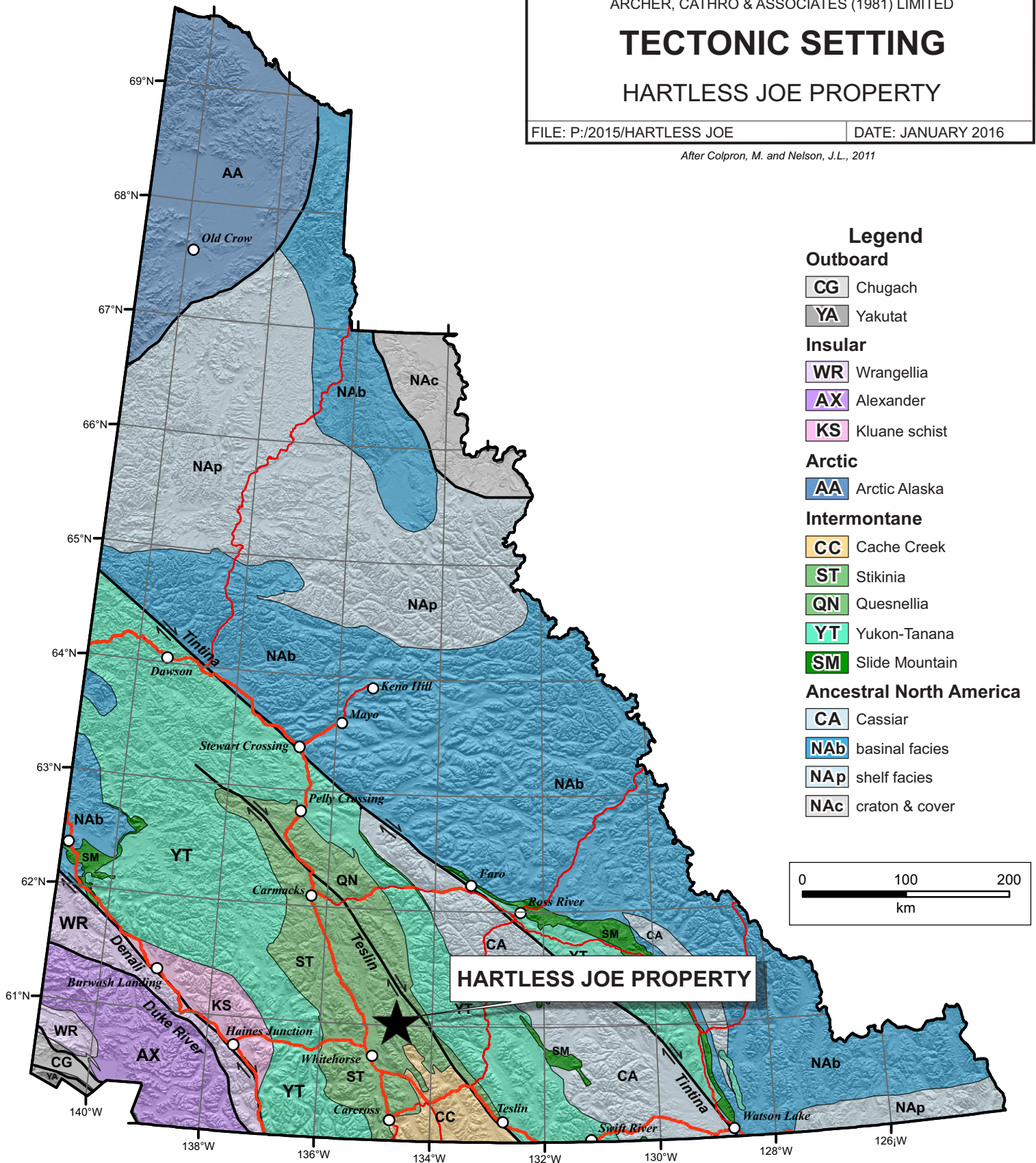
TECTONIC SETTING

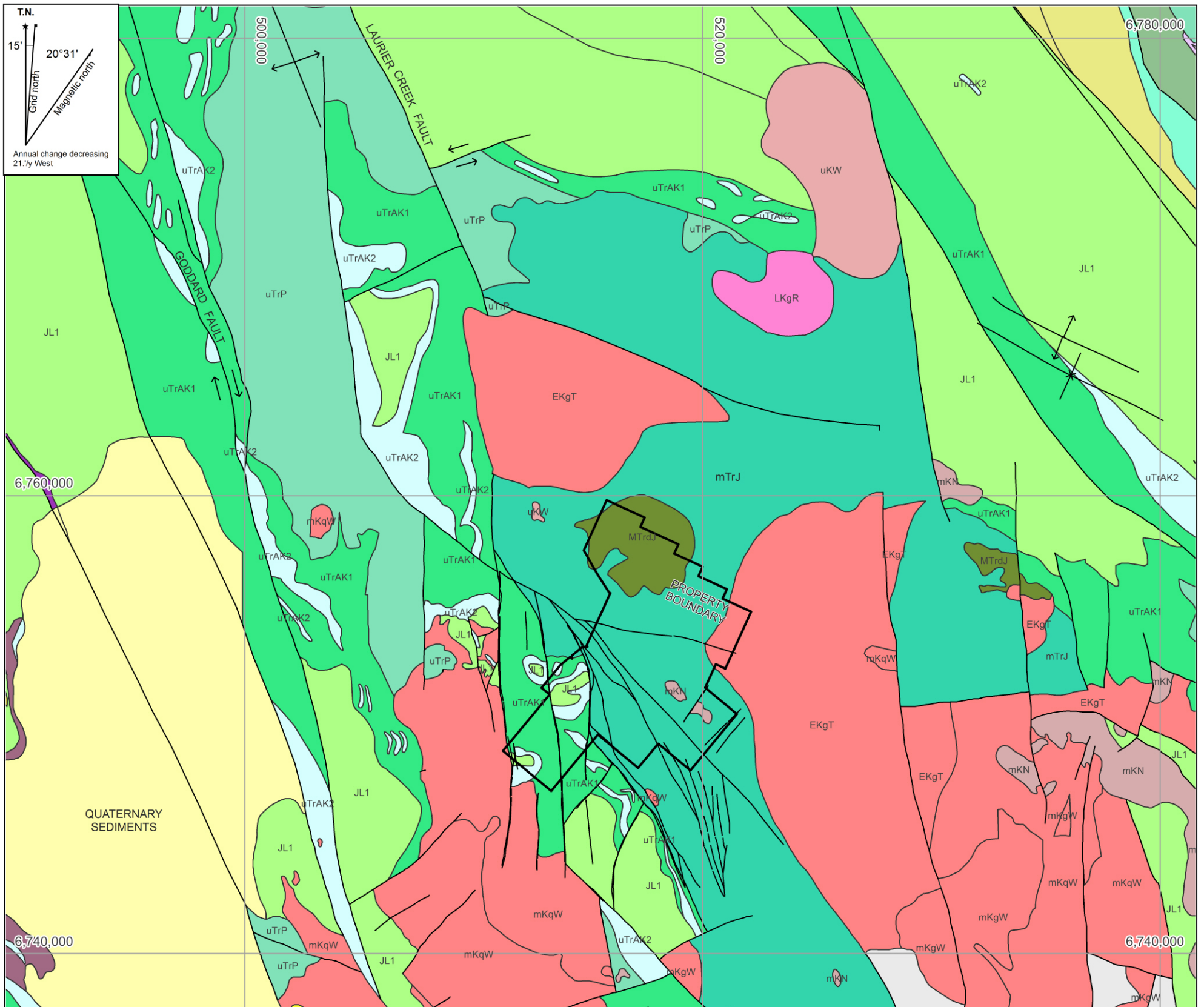
HARTLESS JOE PROPERTY

FILE: P:/2015/HARTLESS JOE

DATE: JANUARY 2016

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





LATE CRETACEOUS

LKGR Rancheria Suite?: Medium grained, equigranular, biotite granodiorite, tonalite, monzogranite; feldspar-phryic granodiorite; quartz feldspar porphyry, aplite and kersantite dikes.

MIDDLE CRETACEOUS

mKN Byng Creek Suite: light weathering, black to light orange, quartz-eye rhyolite and dacite flows, tuffs, breccias and assorted fragmental volcanics.

mKqW Whitehorse Suite: Biotite-hornblende granodiorite, hornblende-quartz diorite and hornblende diorite.

mKgW Whitehorse Suite: Grey, medium to coarse grained, generally equigranular granitic rocks of felsic composition.

LOWER CRETACEOUS

EKgT Teslin Suite?: Fine to coarse grained, biotite-hornblende granite, granodiorite, quartz monzonite and quartz monzodiorite.

LOWER TO MIDDLE JURASSIC

JL1 Richthofen Formation: Slightly calcareous to non-calcareous, turbiditic mudstone and sandstone.

UPPER TRIASSIC

uTrAK1 Aksala Formation, Casca Member: Undifferentiated thin- to medium-bedded mudstone, micritic limestone, coarse-grained sandstone and granule conglomerate.

uTrAK2 Aksala Formation, Hancock Member: Resistant, massive to thick-bedded, bioclastic and micritic limestone.

uTrP Povoas Formation: Flow-banded to pillowed, aphyric to pyroxene-phyric basalt, interbedded with lesser thick-bedded volcanic breccia, volcanoclastic sandstone and polymictic cobble conglomerate.

MIDDLE TRIASSIC

MTrdJ Joe Mountain Formation: Discrete plutons of leucocratic, coarse-grained and texturally variable, pyroxene gabbro.

mTrJ Joe Mountain Formation: Massive or pillowed, aphyric basalt and basaltic andesite; poorly sorted volcanic conglomerate; mafic tuff; volcanic mudstone and sandstone; and minor thin-bedded calcareous mudstone.

STRATEGIC METALS LTD.

FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

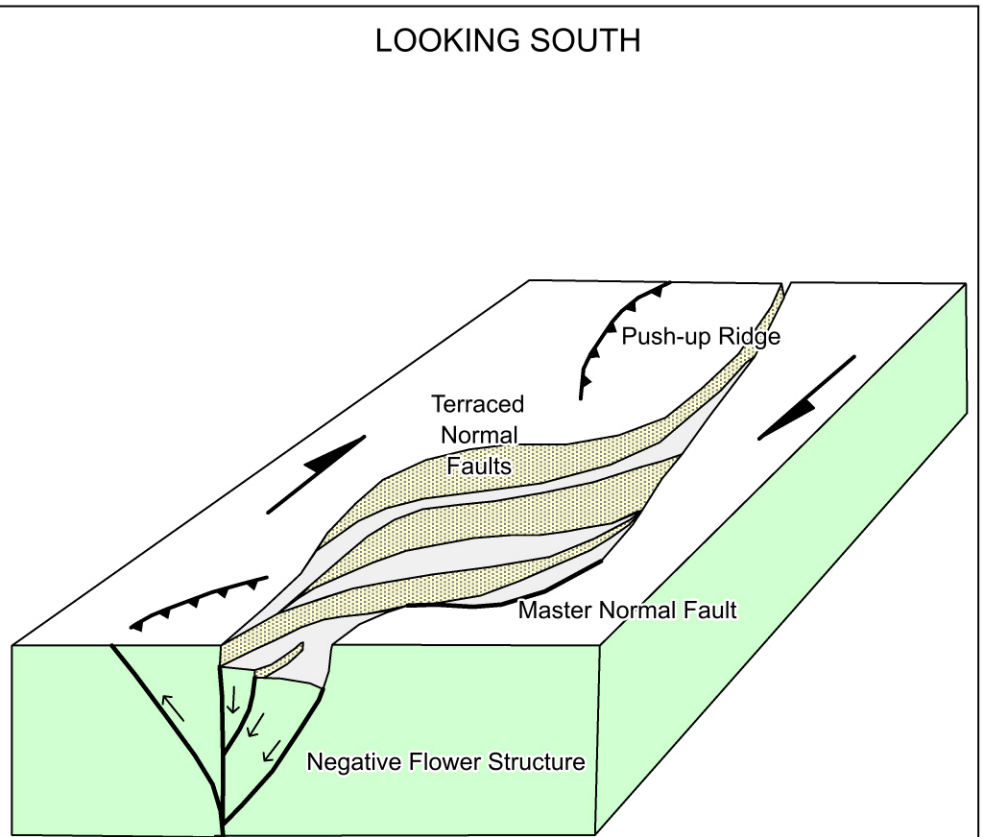
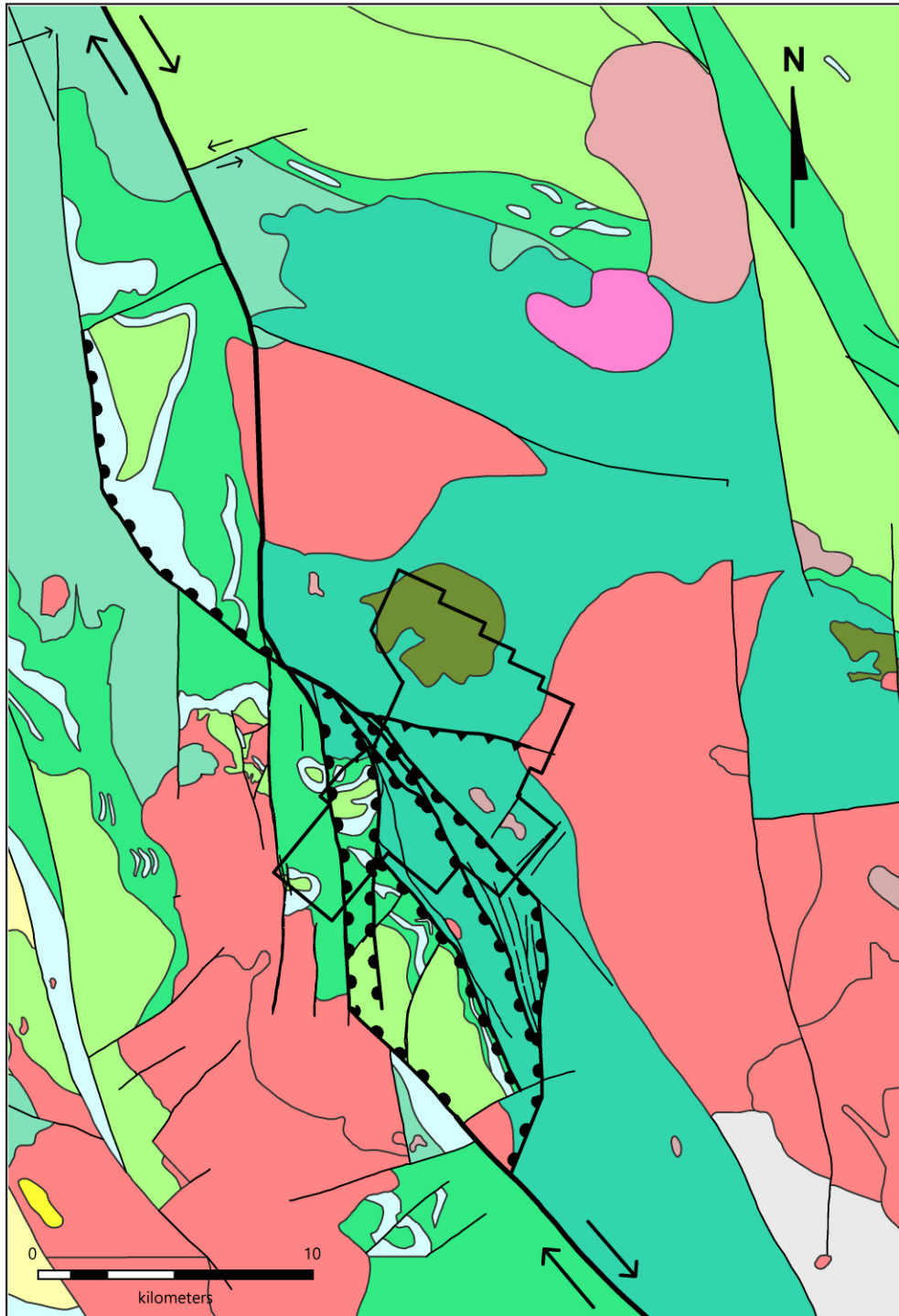
REGIONAL GEOLOGY
HARTLESS JOE PROPERTY



UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../Figures/F4-Regional_Geology.WOR

DATE: MAY 2018



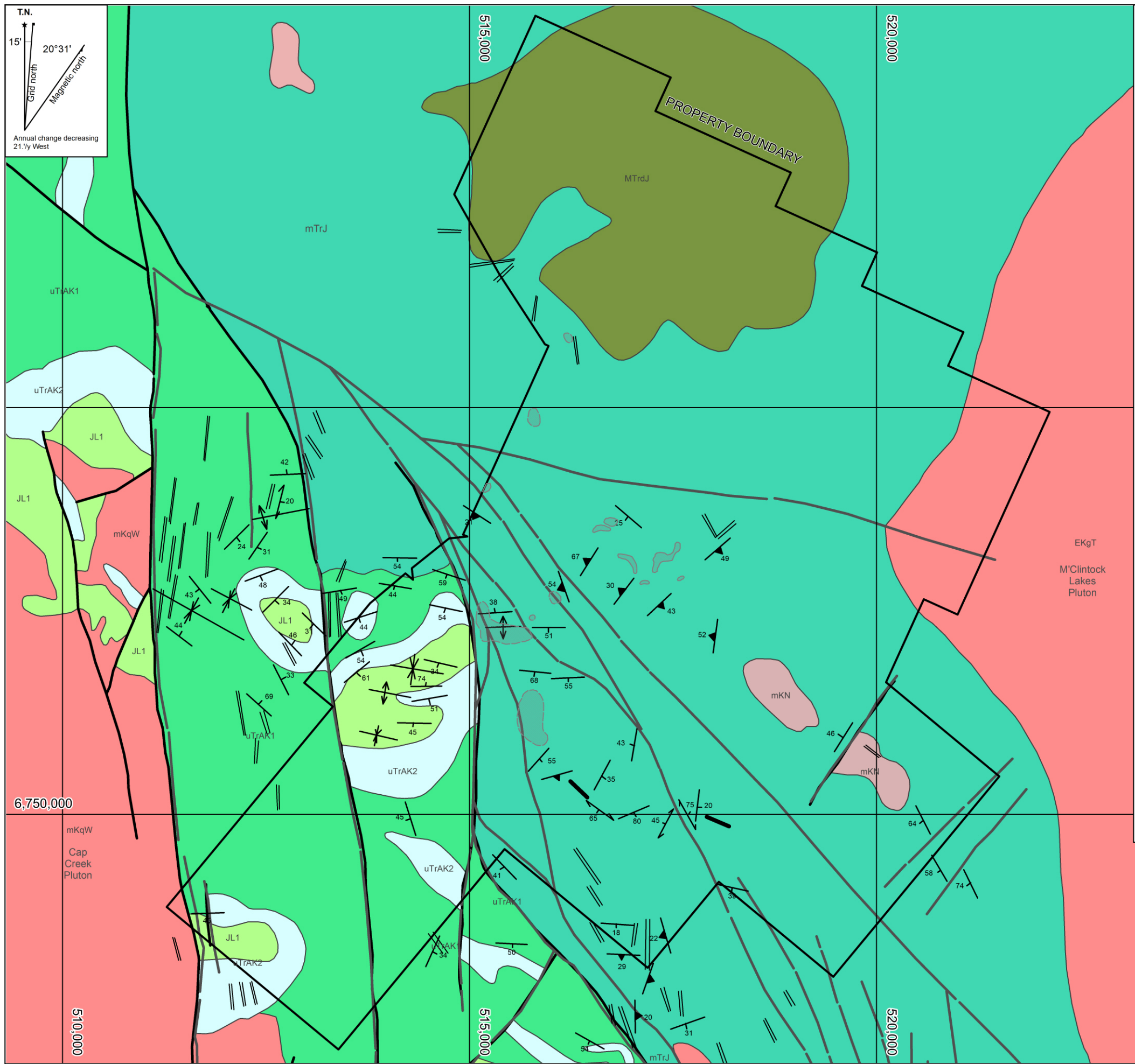
* Adapted from Dooley and McClay, 1997.

STRATEGIC METALS LTD.

FIGURE 5
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL INTERPRETATION

HARTLESS JOE PROPERTY



	Showing		Anticline		Syncline
	Flow surface		Bedding		Schistosity or shear zone
	Fault				

MIDDLE CRETACEOUS

mKN Byng Creek Suite: Quartz-eye rhyolite and dacite flows, tuffs, breccias and assorted fragmental volcanics.

Andesite and feldspar porphyry dykes, assumed to be related to the Cap Creek Pluton.

mKqW Whitehorse Suite: Biotite-hornblende granodiorite, hornblende-quartz diorite and hornblende diorite.

LOWER CRETACEOUS

EKgT Teslin Suite?: Biotite-hornblende granite, granodiorite, quartz monzonite and quartz monzodiorite.

LOWER TO MIDDLE JURASSIC

JL1 Richthofen Formation: Slightly calcareous to non-calcareous, turbiditic mudstone and sandstone.

UPPER TRIASSIC

uTrAK1 Aksala Formation, Casca Member: Undifferentiated mudstone, micritic limestone, sandstone and conglomerate.

uTrAK2 Aksala Formation, Hancock Member: Resistant, massive to thick-bedded, bioclastic and micritic limestone.

MIDDLE TRIASSIC

MTrdJ Joe Mountain Formation: Coarse-grained, pyroxene gabbro.

mTrJ Joe Mountain Formation: Massive or pillowed mafic volcanic rocks and volcanoclastics.

- 1) Pillowed basalts.
- 2) Chaotic assemblage of volcanoclastic and sedimentary rocks.
- 3) Pillowed basalts; minor diabase.
- 4) Cumulate gabbro, pyroxenite, anorthosite and diorite.

Basaltic andesite and gabbro dykes.

STRATEGIC METALS LTD.

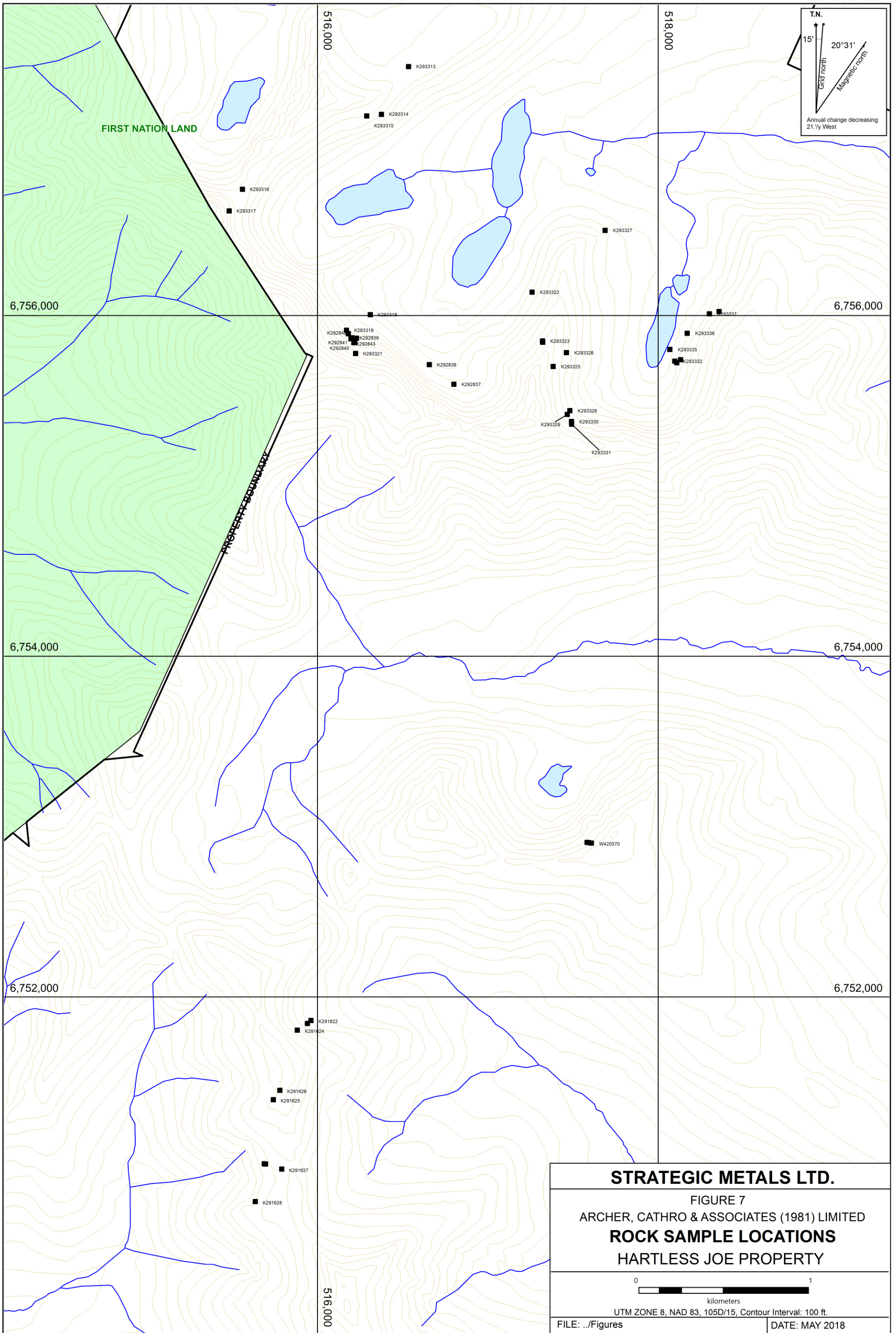
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY
HARTLESS JOE PROPERTY

0 3
kilometers

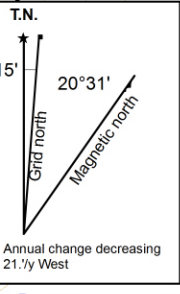
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../Figures/F6-Property_Geology.WOR	DATE: MAY 2018
--	----------------



FIRST NATION LAND

PROPERTY BOUNDARY



516,000

518,000

6,756,000

6,756,000

6,754,000

6,754,000

6,752,000

6,752,000

516,000

K293313
K293314
K293315

K293316
K293317

K293327

K293322

K293318
K292841
K292842
K292843
K292844
K292840
K293321

K292838
K292837

K293323
K293326
K293325

K293337
K293336
K293335
K293332

K293328
K293329
K293330
K293331

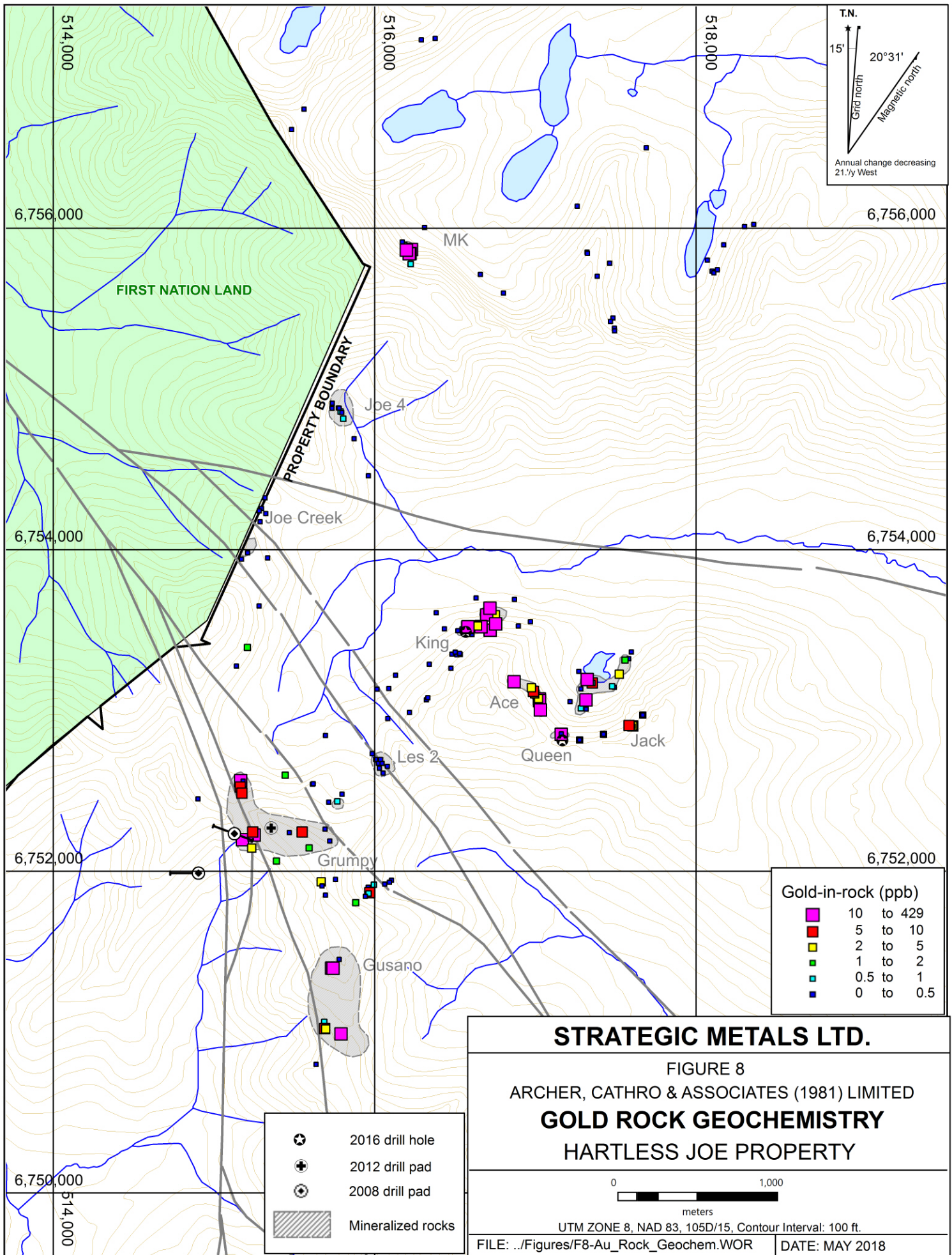
W420570

K291622
K291624

K291626
K291625

K291627

K291628



T.N.
 15'
 20°31'
 Grid north
 Magnetic north
 Annual change decreasing
 21.7/y West

Gold-in-rock (ppb)	
■	10 to 429
■	5 to 10
■	2 to 5
■	1 to 2
■	0.5 to 1
■	0 to 0.5

	2016 drill hole
	2012 drill pad
	2008 drill pad
	Mineralized rocks

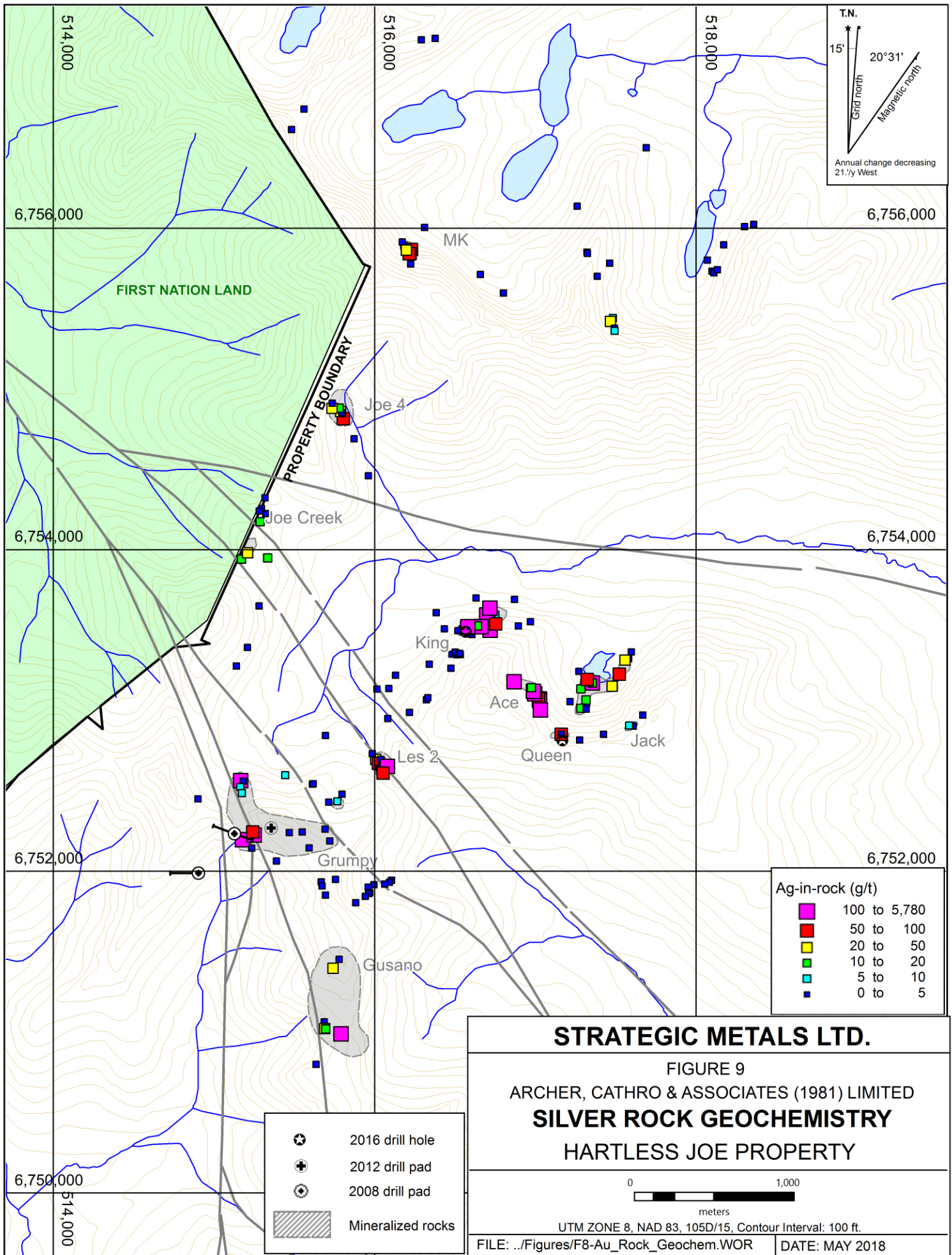
STRATEGIC METALS LTD.

FIGURE 8
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD ROCK GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1,000
 meters

UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../Figures/F8-Au_Rock_Geochem.WOR DATE: MAY 2018



T.N.
 15' Grid north
 20°31' Magnetic north
 Annual change decreasing 21.7/y West

Ag-in-rock (g/t)	
■	100 to 5,780
■	50 to 100
■	20 to 50
■	10 to 20
■	5 to 10
■	0 to 5

	2016 drill hole
	2012 drill pad
	2008 drill pad
	Mineralized rocks

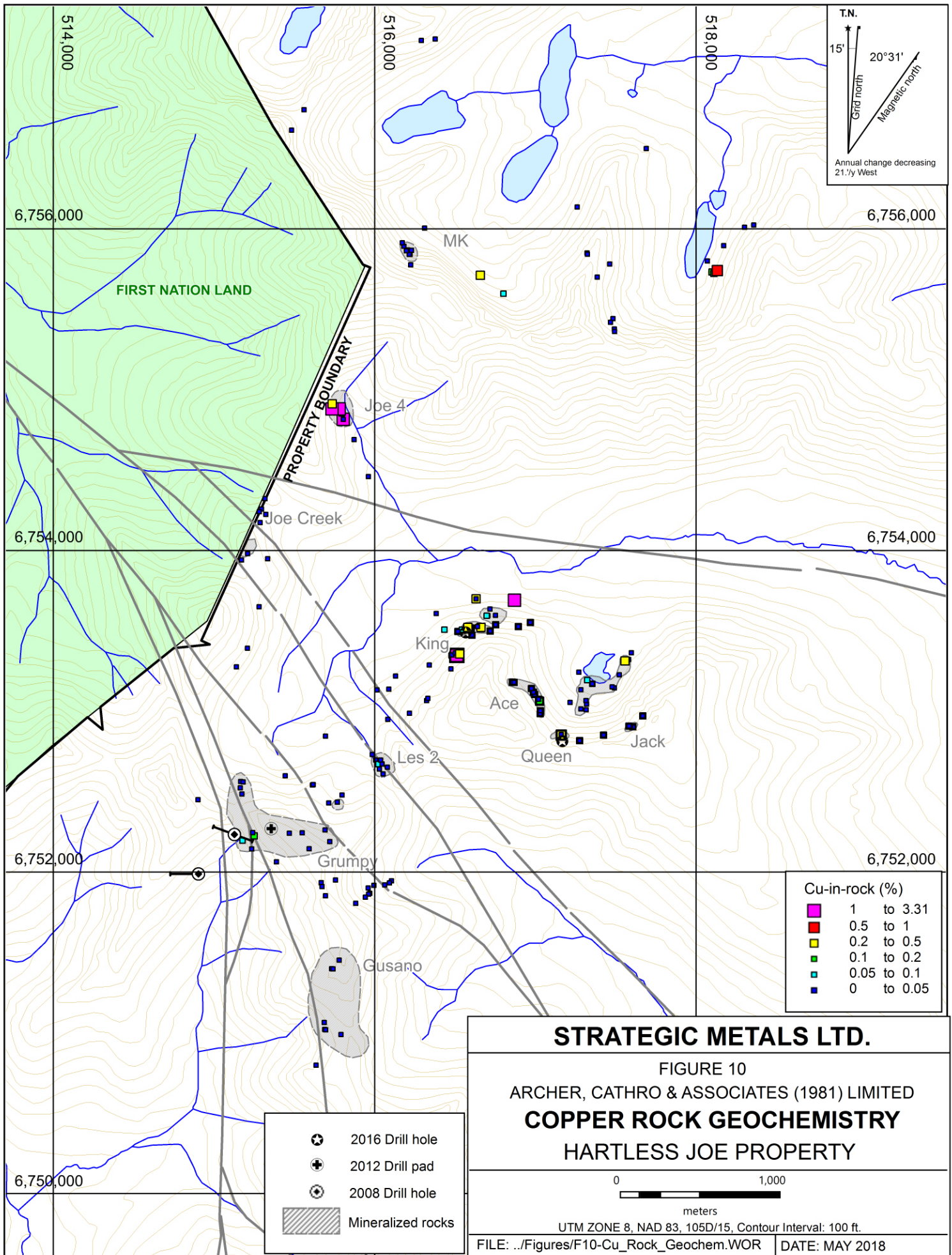
STRATEGIC METALS LTD.

FIGURE 9
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER ROCK GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1,000
 meters

UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../Figures/F8-Au_Rock_Geochem.WOR DATE: MAY 2018



T.N.
 15'
 20°31'
 Grid north
 Magnetic north
 Annual change decreasing
 21"/y West

Cu-in-rock (%)	
■	1 to 3.31
■	0.5 to 1
■	0.2 to 0.5
■	0.1 to 0.2
■	0.05 to 0.1
■	0 to 0.05

	2016 Drill hole
	2012 Drill pad
	2008 Drill hole
	Mineralized rocks

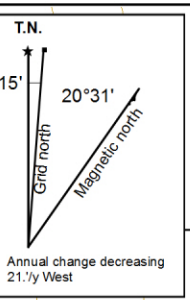
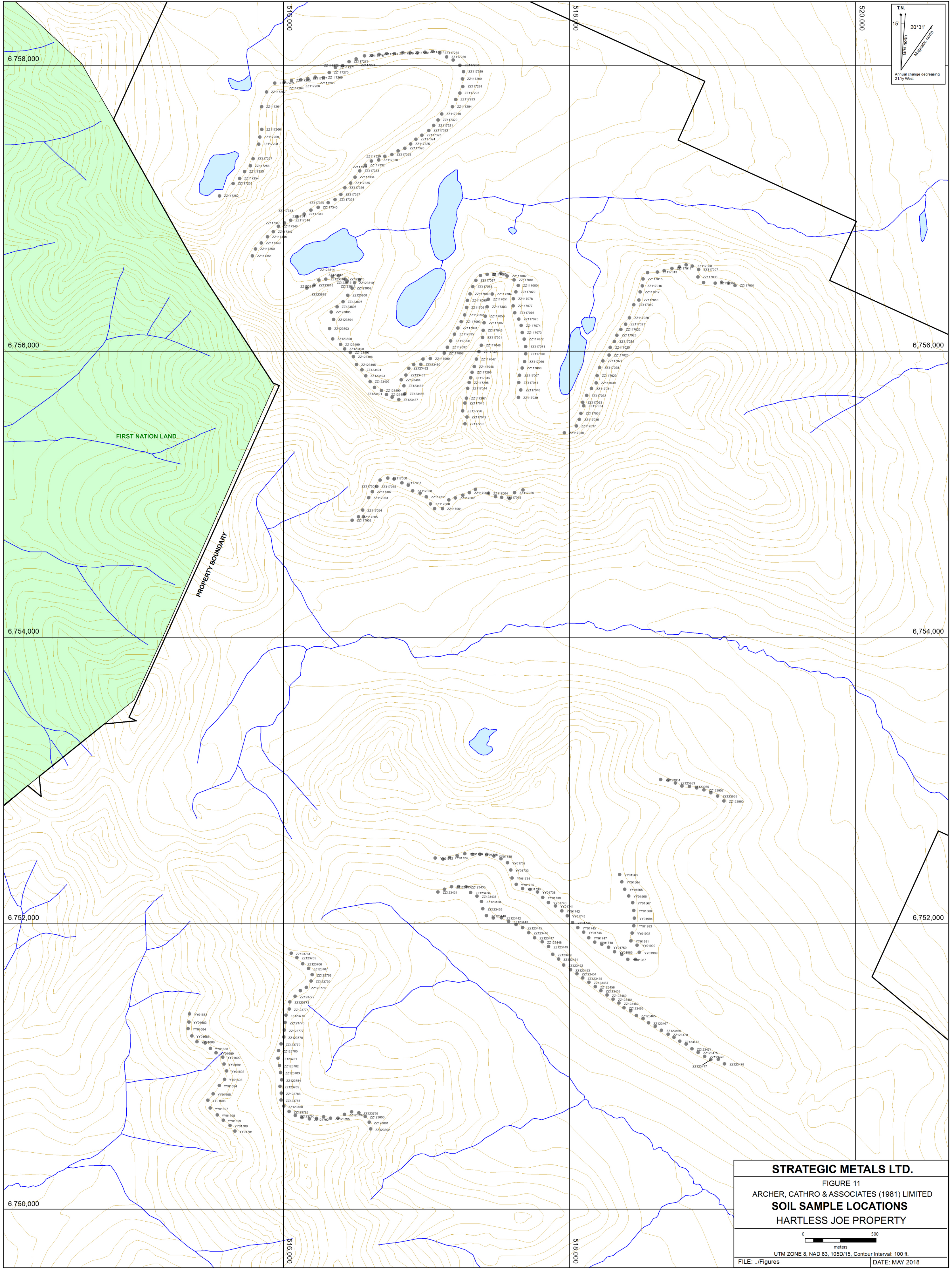
STRATEGIC METALS LTD.

FIGURE 10
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER ROCK GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1,000
 meters

UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

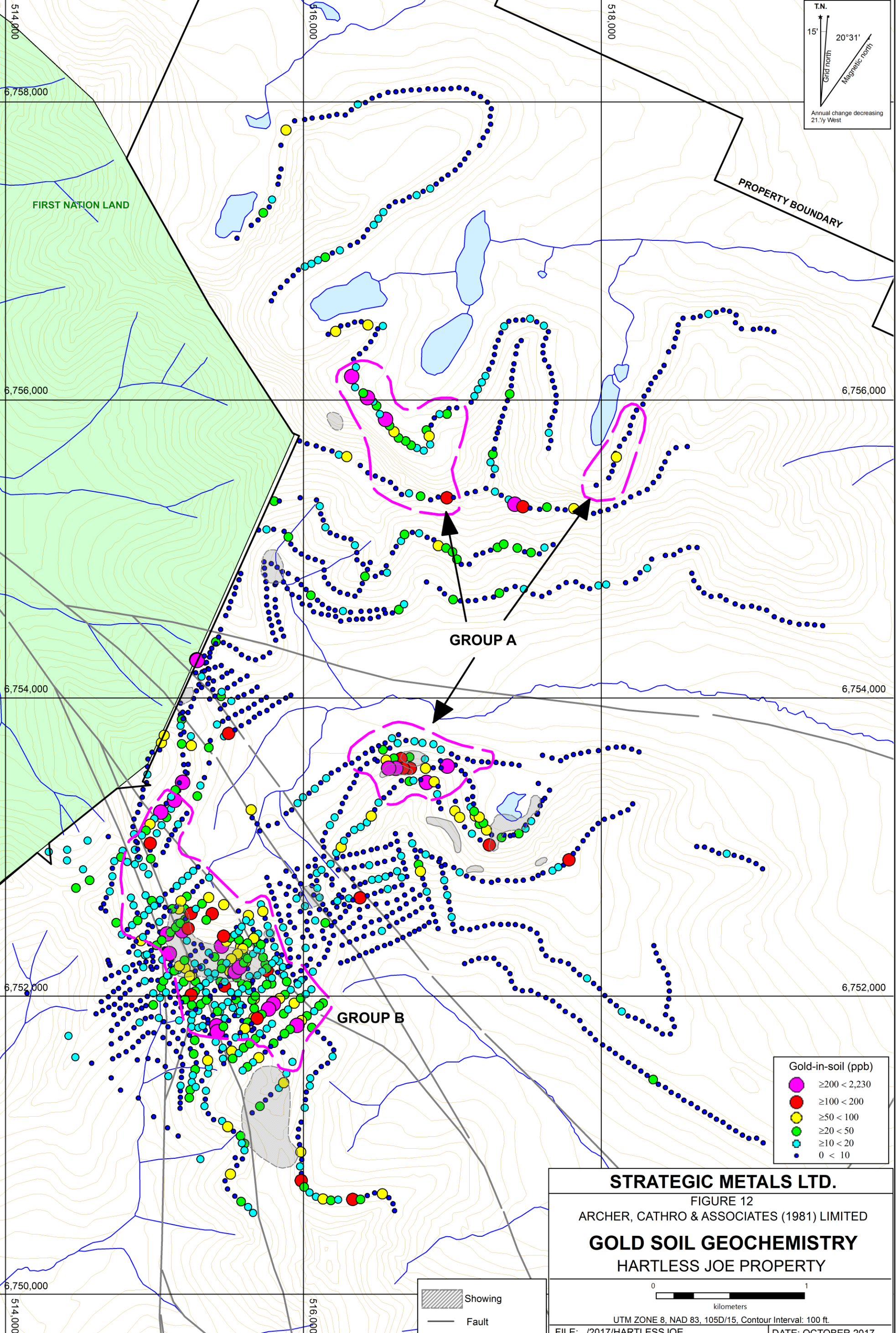
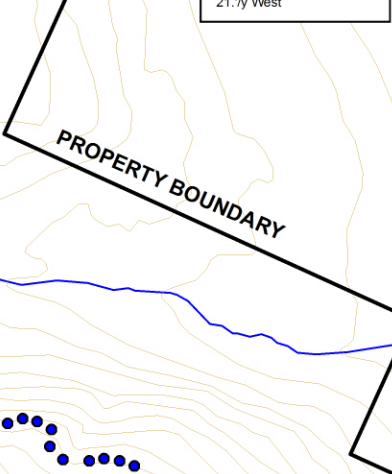
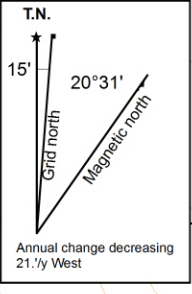
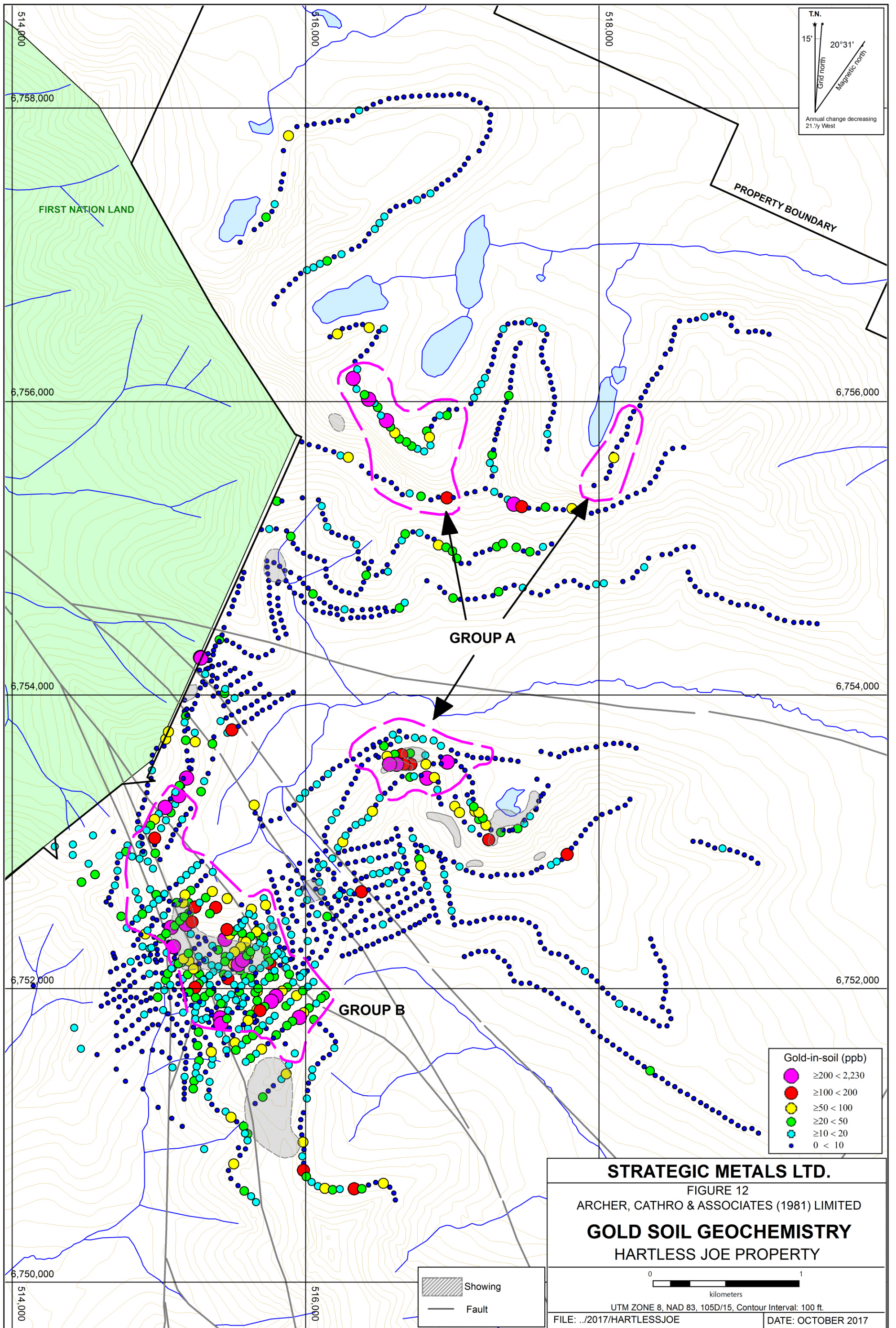
FILE: ../Figures/F10-Cu_Rock_Geochem.WOR DATE: MAY 2018

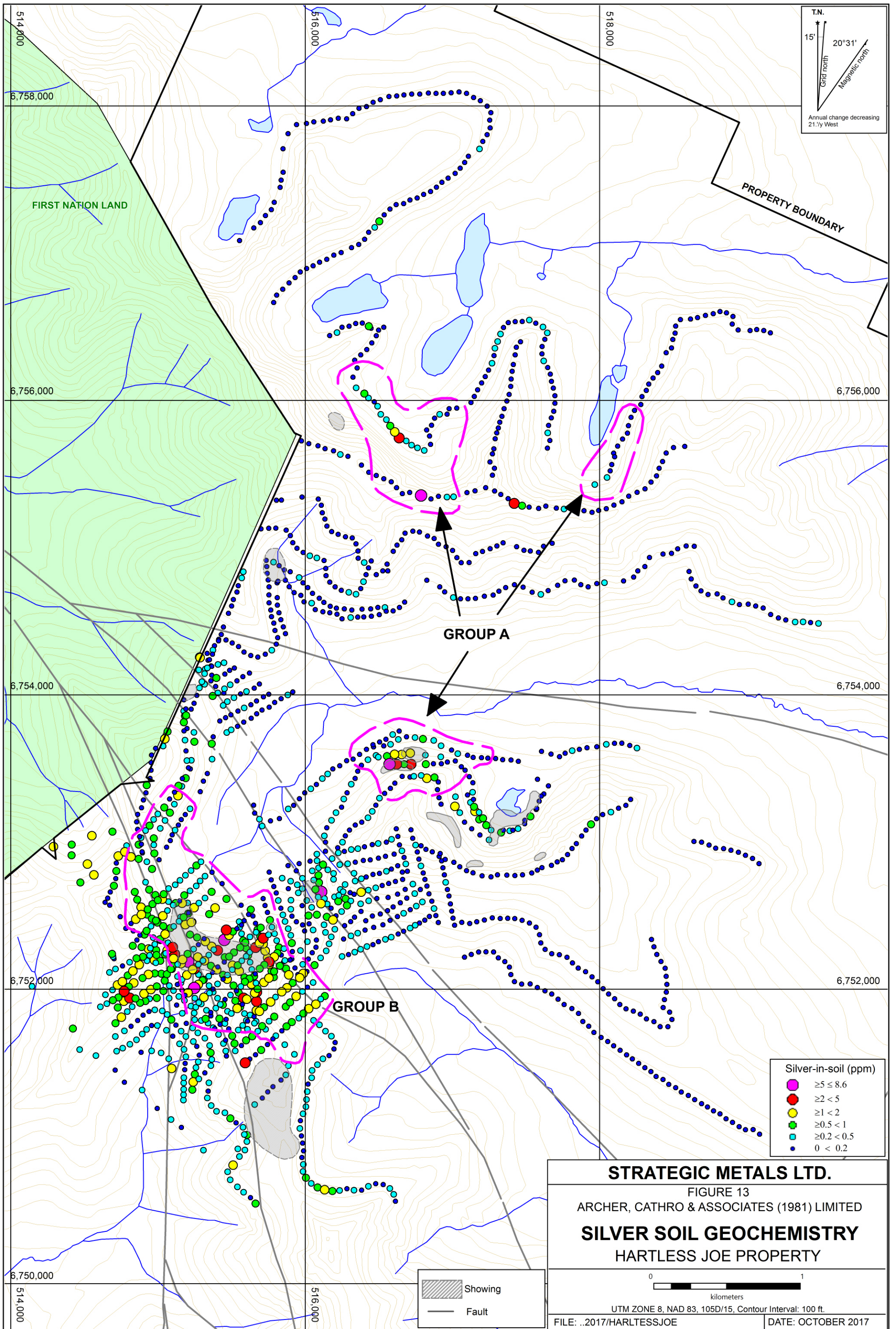


STRATEGIC METALS LTD.
 FIGURE 11
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SOIL SAMPLE LOCATIONS
 HARTLESS JOE PROPERTY

0 500
 meters
 UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.

FILE: ...Figures DATE: MAY 2018





T.N.
 15' Grid north
 20°31' Magnetic north
 Annual change decreasing 21'/y West

FIRST NATION LAND

PROPERTY BOUNDARY

GROUP A

GROUP B

Silver-in-soil (ppm)	
●	≥5 ≤8.6
●	≥2 <5
●	≥1 <2
●	≥0.5 <1
●	≥0.2 <0.5
●	0 < 0.2

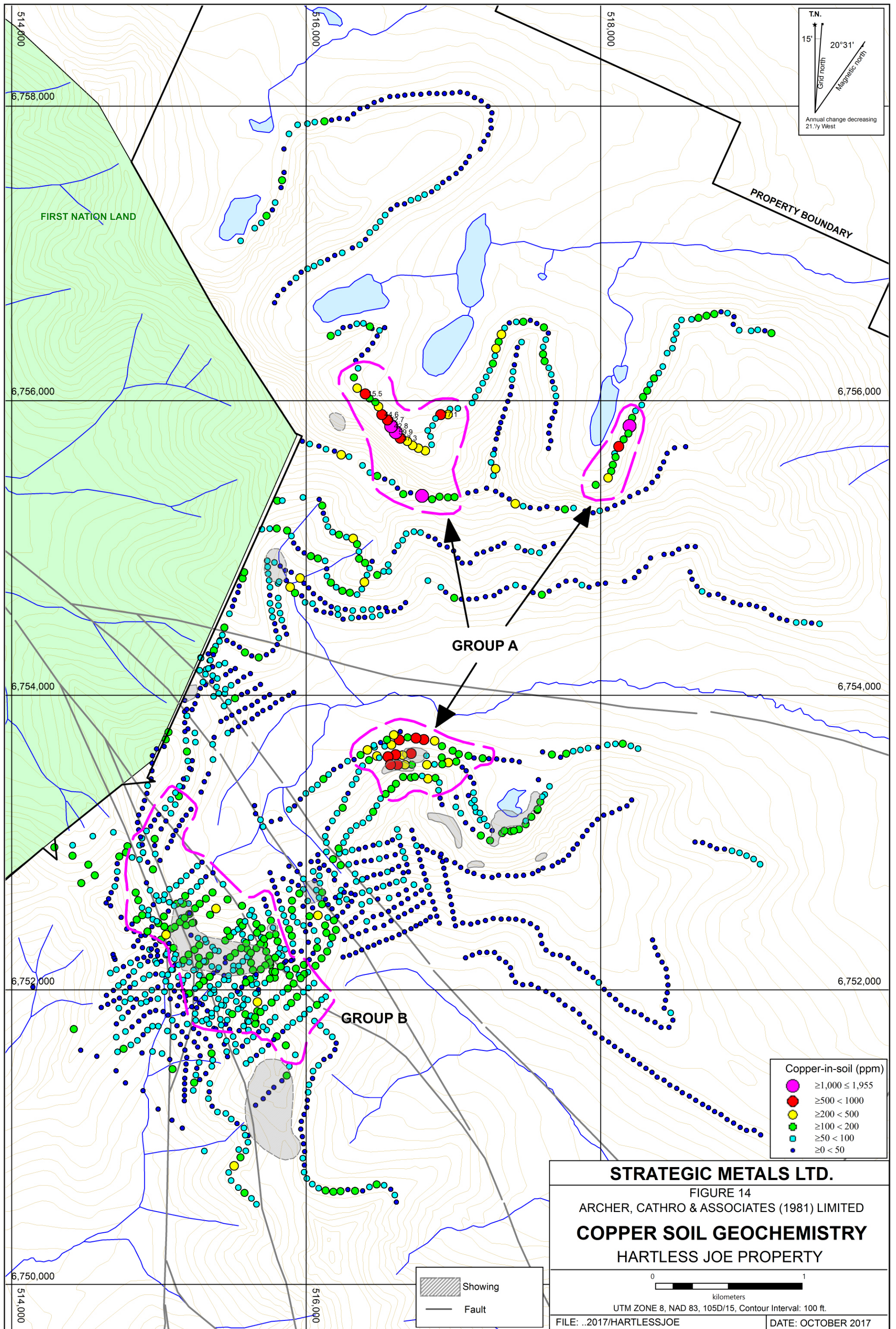
STRATEGIC METALS LTD.

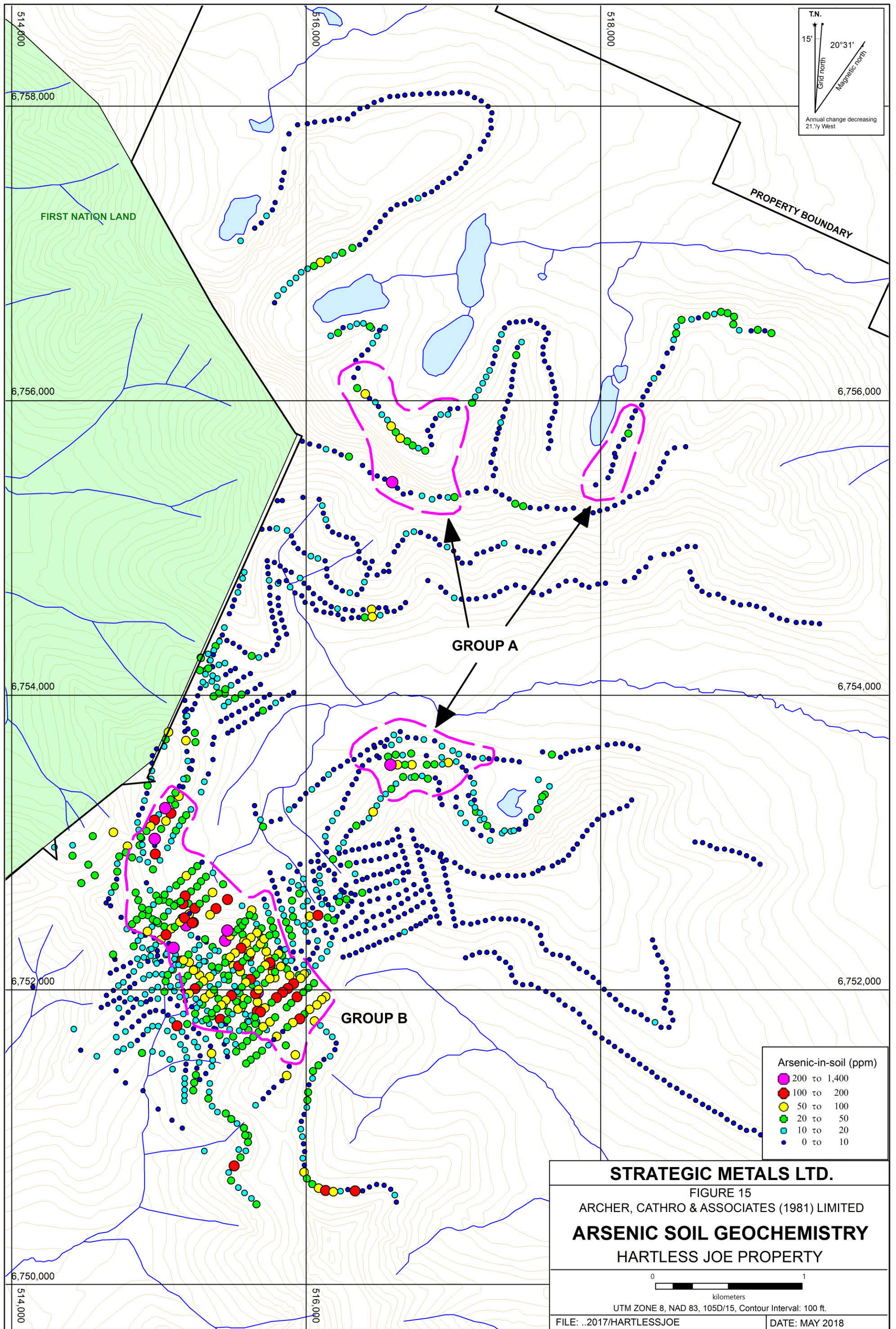
FIGURE 13
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

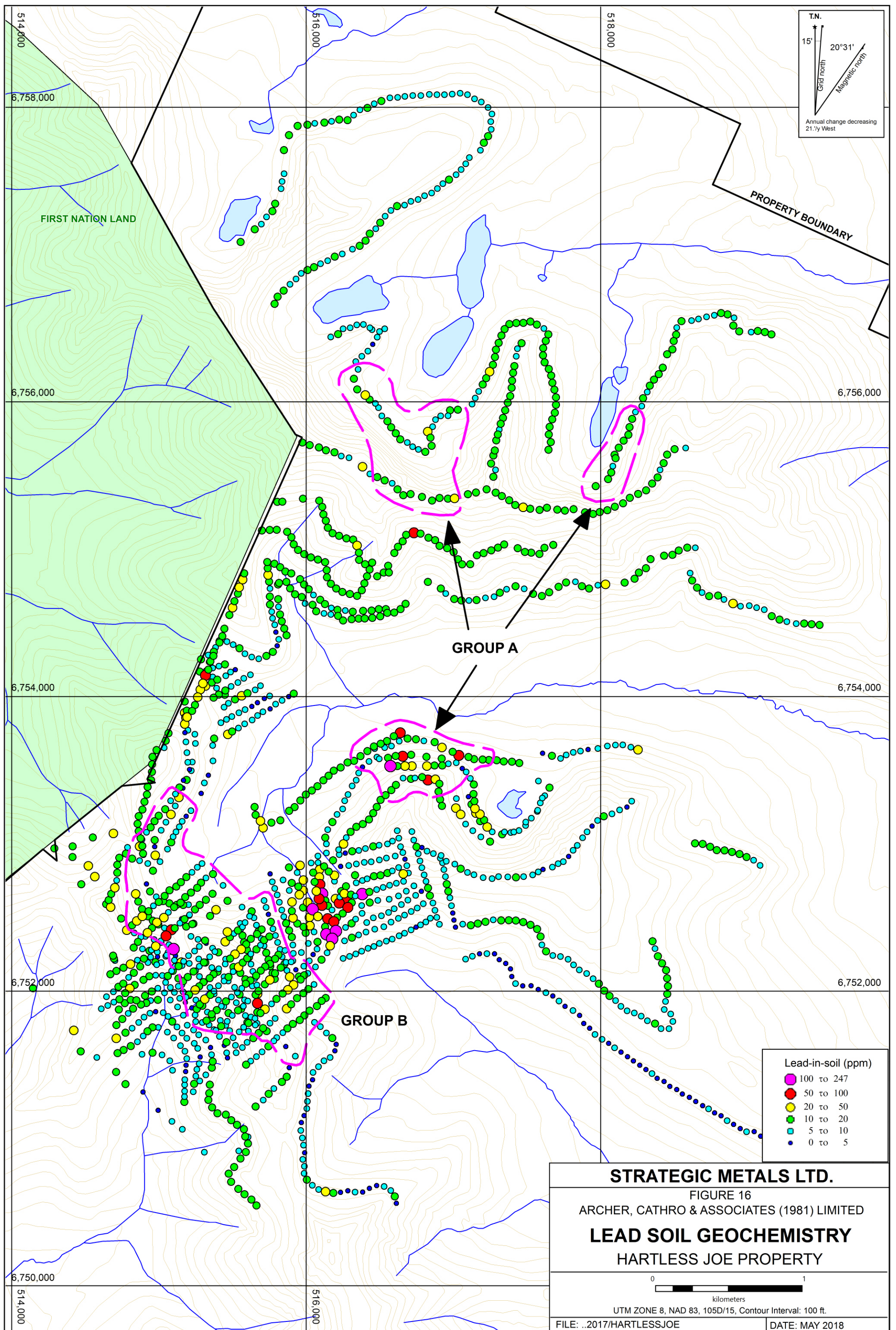
SILVER SOIL GEOCHEMISTRY
 HARTLESS JOE PROPERTY

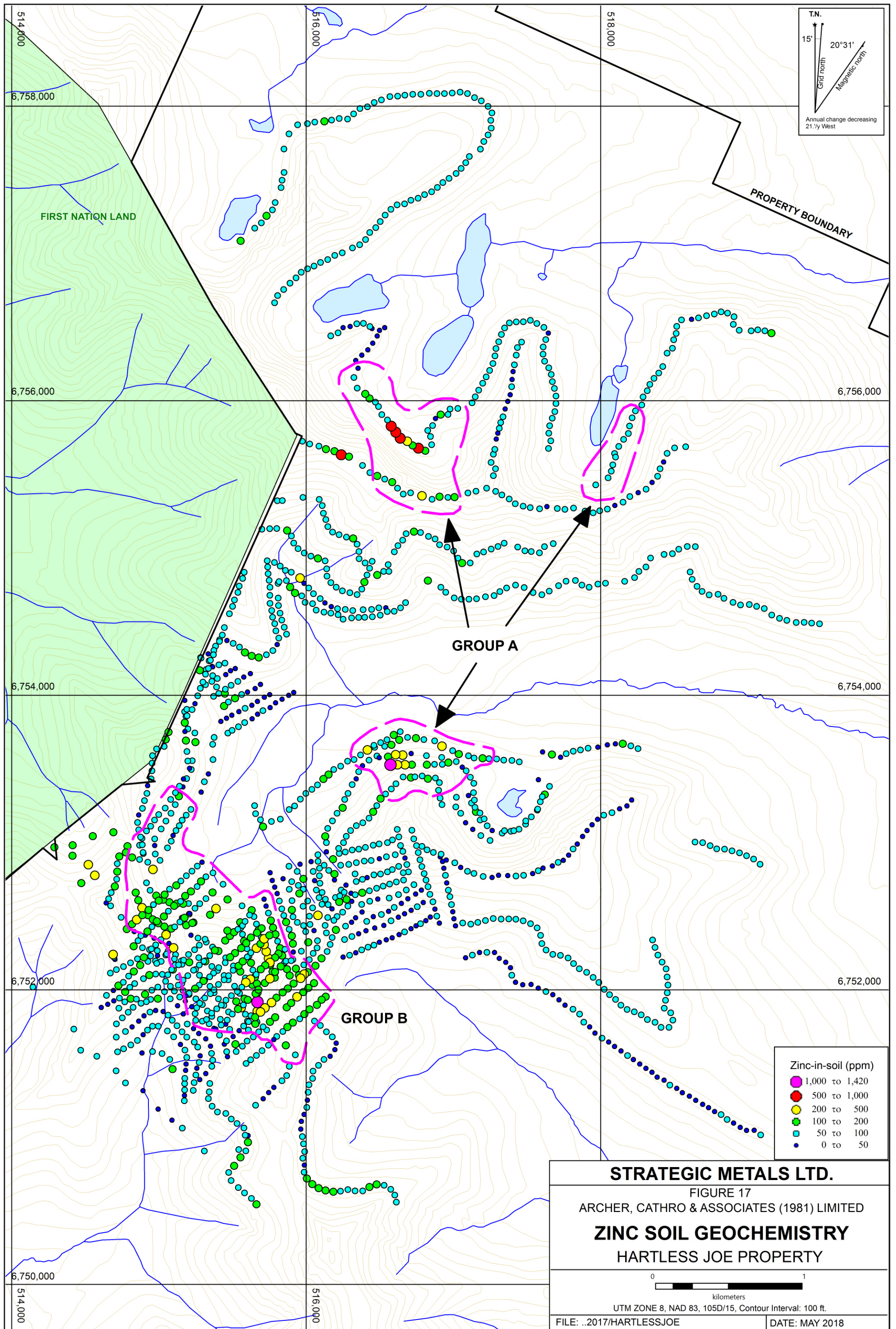
Showing
 Fault

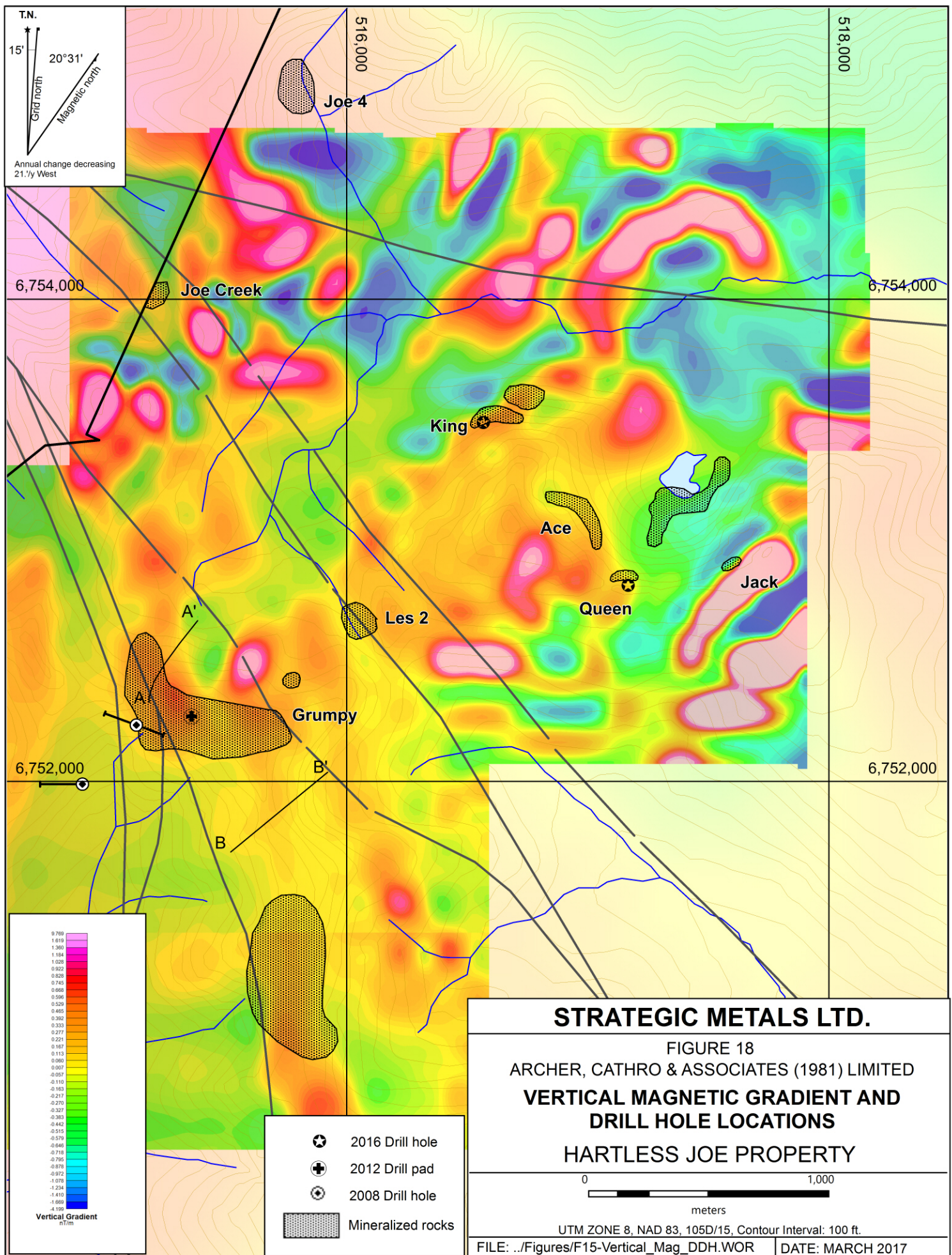
0 1
 kilometers
 UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.
 FILE: ..2017/HARLTISSJOE DATE: OCTOBER 2017











T.N.
 15' ↑
 Grid north
 20°31'
 Magnetic north
 Annual change decreasing
 21' / y West

6,754,000

516,000

518,000

Joe Creek

6,754,000

Joe 4

King

Ace

Queen

Jack

Les 2

Grumpy

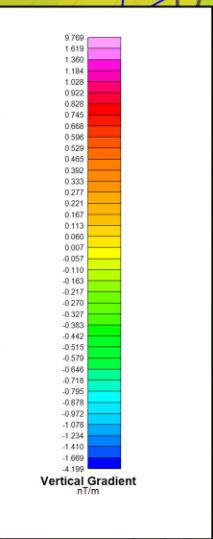
6,752,000

6,752,000

A'

B'

B



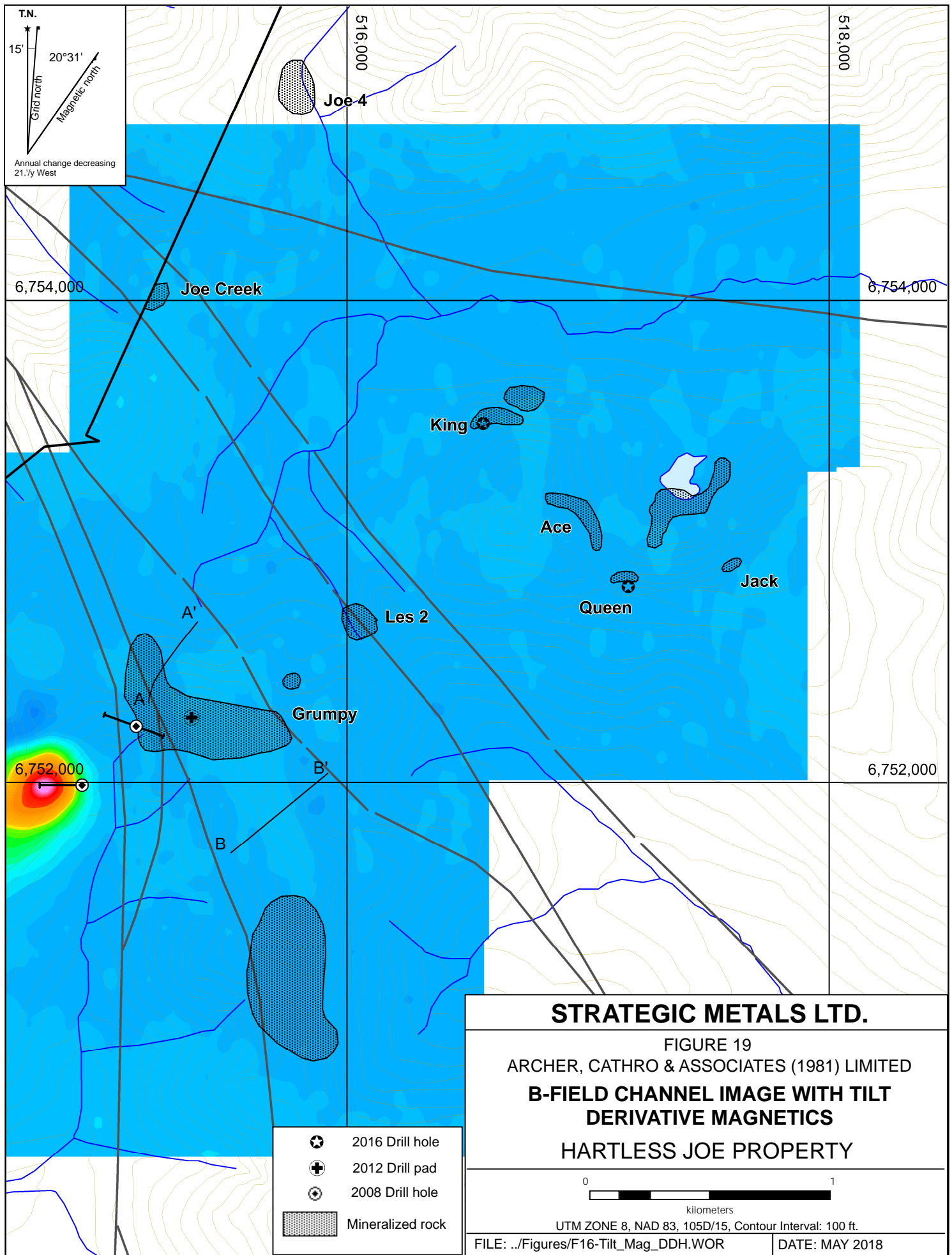
- ★ 2016 Drill hole
- ⊕ 2012 Drill pad
- ⊙ 2008 Drill hole
- ▨ Mineralized rocks

STRATEGIC METALS LTD.

FIGURE 18
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**VERTICAL MAGNETIC GRADIENT AND
 DRILL HOLE LOCATIONS**
 HARTLESS JOE PROPERTY

0 1,000
 meters

UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.
 FILE: ../Figures/F15-Vertical_Mag_DDH.WOR DATE: MARCH 2017



T.N.
 15' 20°31'
 Grid north
 Magnetic north
 Annual change decreasing
 21./y West

STRATEGIC METALS LTD.

FIGURE 19
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**B-FIELD CHANNEL IMAGE WITH TILT
 DERIVATIVE MAGNETICS**
 HARTLESS JOE PROPERTY

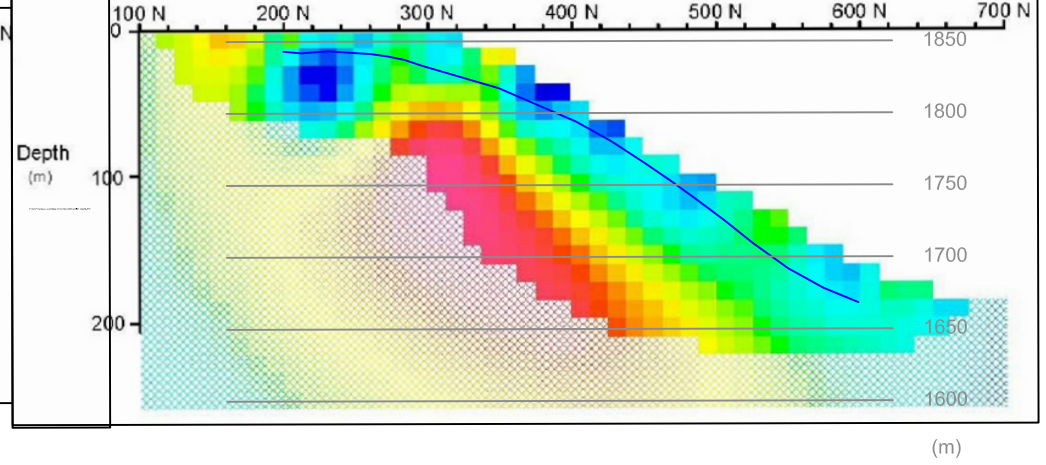
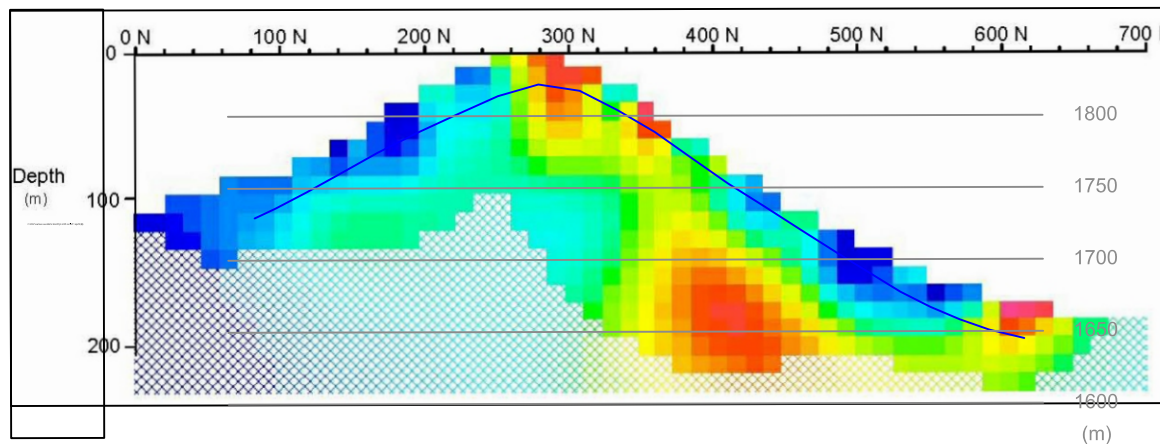
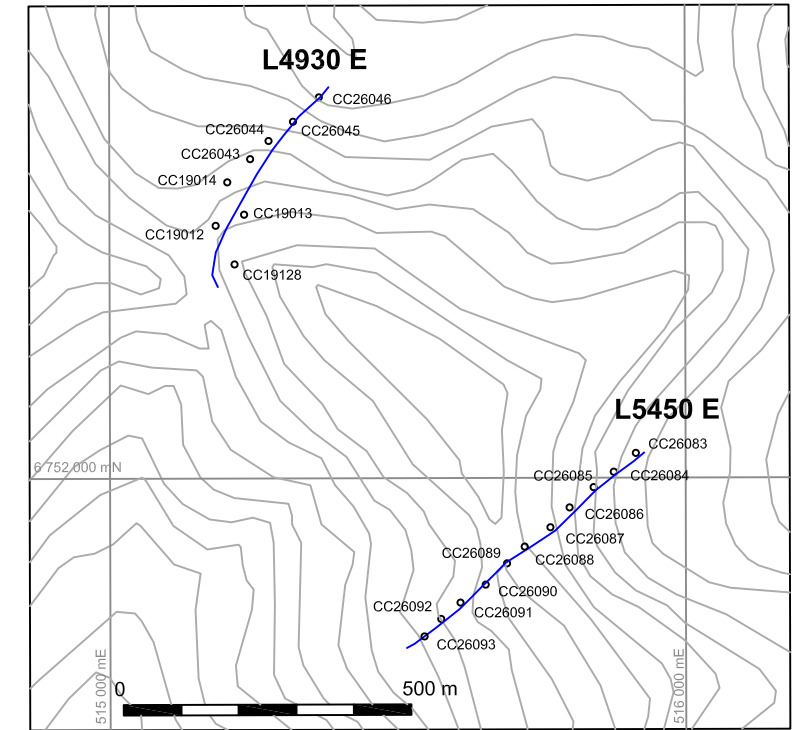
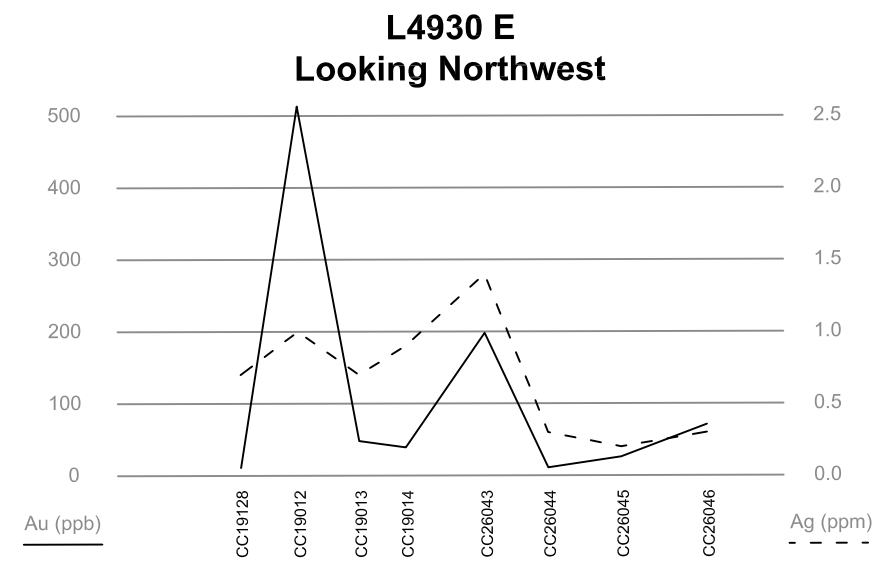
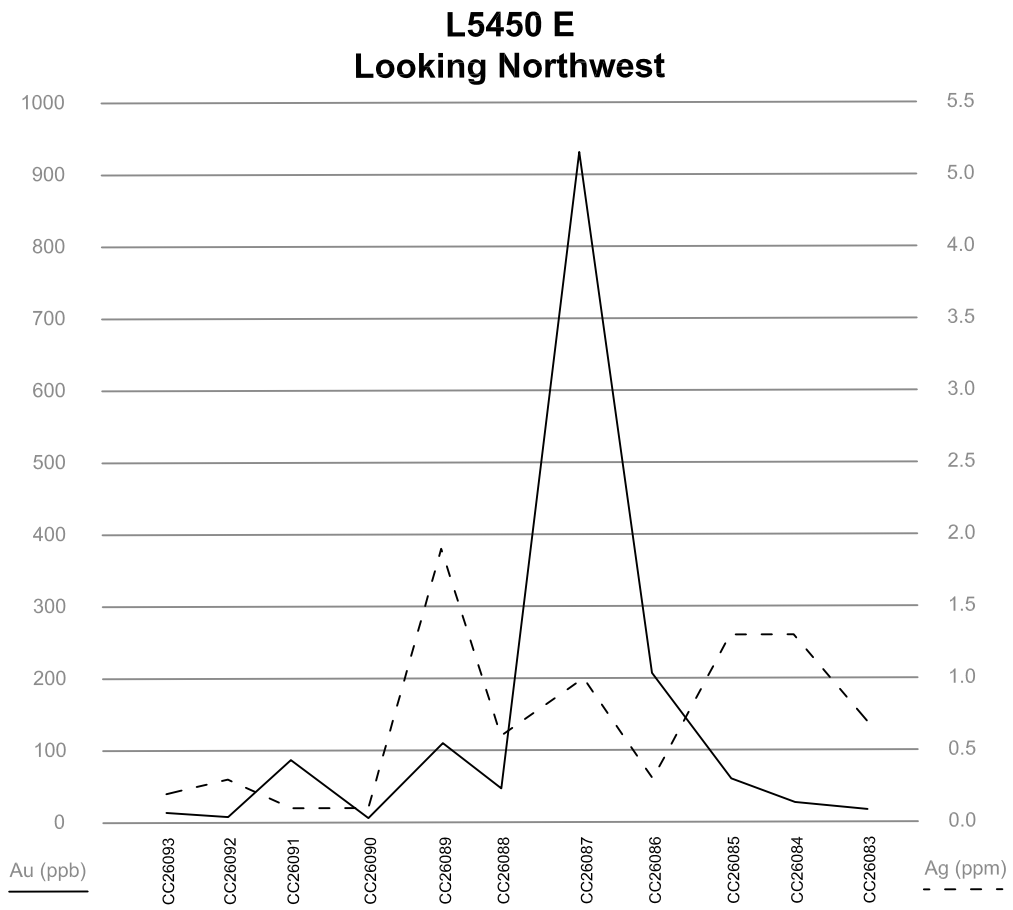
- 2016 Drill hole
- 2012 Drill pad
- 2008 Drill hole
- Mineralized rock



UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../Figures/F16-Tilt_Mag_DDH.WOR

DATE: MAY 2018



STRATEGIC METALS LTD.

FIGURE 20
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MODELLED CHARGEABILITY
HARTLESS JOE PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 115D/15

DRAWN / REVISED BY: MRD	
FILE: 2016/HARTLESSJOE	DATE: MAY 2018

516567 mE, 6753488 mN
Elevation 1553 m







020° NORTHEAST

HJ-16-04
48.77 m

Fault

HJ-16-01
67.06 m

HJ-16-02
70.10 m

	Dark to medium green pillow basalt and amygdaloidal basalt.
	Black, bioturbated, pyritic mudstone.
	Maroon, hematite- and silica-altered, brecciated mudstone with abundant banded quartz horizons.
	Medium tan to medium grey, brecciated (rip-up?) mudstone, with elongate and deformed clasts.
	Plagioclase glomero-phyric, andesite(?) porphyry dyke.
	Massive green-grey siltstone.

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FIGURE 21
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**KING SHOWING NORTH-SOUTH
CROSS SECTION**
HARTLESS JOE PROPERTY

0 20 m

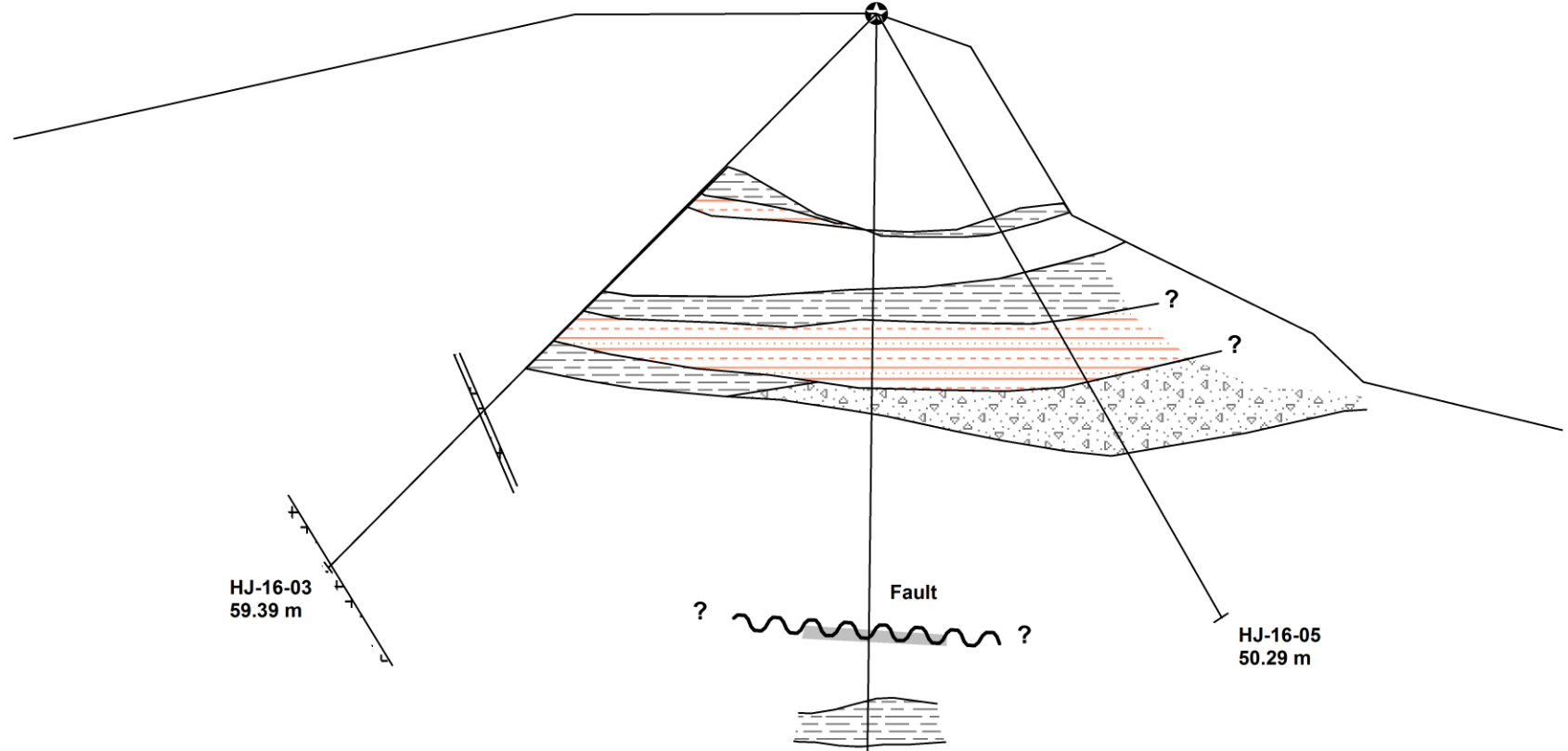
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../F18-North_South_X-Section.WOR

DATE: MAY 2018

0270° WEST







516567 mE, 6753488 mN
Elevation 1553 m



HJ-16-03
59.39 m

HJ-16-05
50.29 m

Fault

-  Dark to medium green pillow basalt and amygdaloidal basalt.
-  Black, bioturbated, pyritic mudstone.
-  Maroon, hematite- and silica-altered, brecciated mudstone with abundant banded quartz horizons.
-  Medium tan to medium grey, brecciated (rip-up?) mudstone, with elongate and deformed clasts.
-  Plagioclase glomero-phyric, andesite(?) porphyry dyke.
-  Massive green-grey siltstone.

STRATEGIC METALS LTD.

FIGURE 22
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**KING SHOWING EAST-WEST
CROSS SECTION
HARTLESS JOE PROPERTY**

0 20 m

UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../Figures/F19-East_West_X-Section.WOR DATE: MARCH 2018