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ASSESSMENT REPORT

describing

DIAMOND DRILLING, HAND TRENCHING, PROSPECTING, GEOCHEMICAL SAMPLING, AND HERITAGE STUDIES

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 on June 25 to July 7, and August 9 to August 21, 2016

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

J. Morton, B.Sc., GIT
March 2017

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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 Premier Mine, Brucejack Deposit and Eskay Creek Mine. The property is wholly owned by Strategic Metals Ltd.

This report describes diamond drilling, hand trenching, prospecting and geochemical sampling, which were conducted from June 25 to July 7, and August 9 to August 21, 2016 and a heritage study done on June 28 and 29, 2016. 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. A report describing the Heritage Study appears in Appendix III.

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). In July and October 2016, 225 claims were staked that expanded the property from 120 to 345 claims. The property now covers an area of approximately 6757 ha (67.57 km^2). 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.

Claim Name	Grant Number	Expiry Date*
Hart 1	YC26563	March 1, 2027
Hart 2-4	YC30012-YC30014	March 1, 2027
Hart 5-28	YC37057-YC37080	March 1, 2027
Hart 29-40	YD35289-YD35300	March 1, 2024
Hart 41-46	YD00305-YD00310	March 1, 2021
Hart 47-98	YF47807-YF47858	October 19, 2017
Hart 99-163	YF49119-YF49183	October 19, 2017
Joe 1-10	YC37091-YC37100	March 1, 2027
Joe 11-12	YC98499-YC98500	March 1, 2022
Joe 13-30	YE43243-YE43260	March 1, 2021
Joe 31-94	YF49391-YF49454	July 22, 2017
Joe 95-170	YF49875-YF49950	October 19, 2017
Les 1-10	YC37081-YC37090	March 1, 2027
Les 11-12	YC88019-YC88020	March 1, 2021

* Expiry dates do not include 2016 work which has not yet been filed for assessment credit.

Field work in 2016 was conducted in two programs. The first program ran from late June to early July, and the second program was conducted in August. For both programs, mobilization of camp gear, personnel and supplies was provided by a Robinson R44 and a Bell 206B

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

HARTLESS JOE PROPERTY

0 200 km

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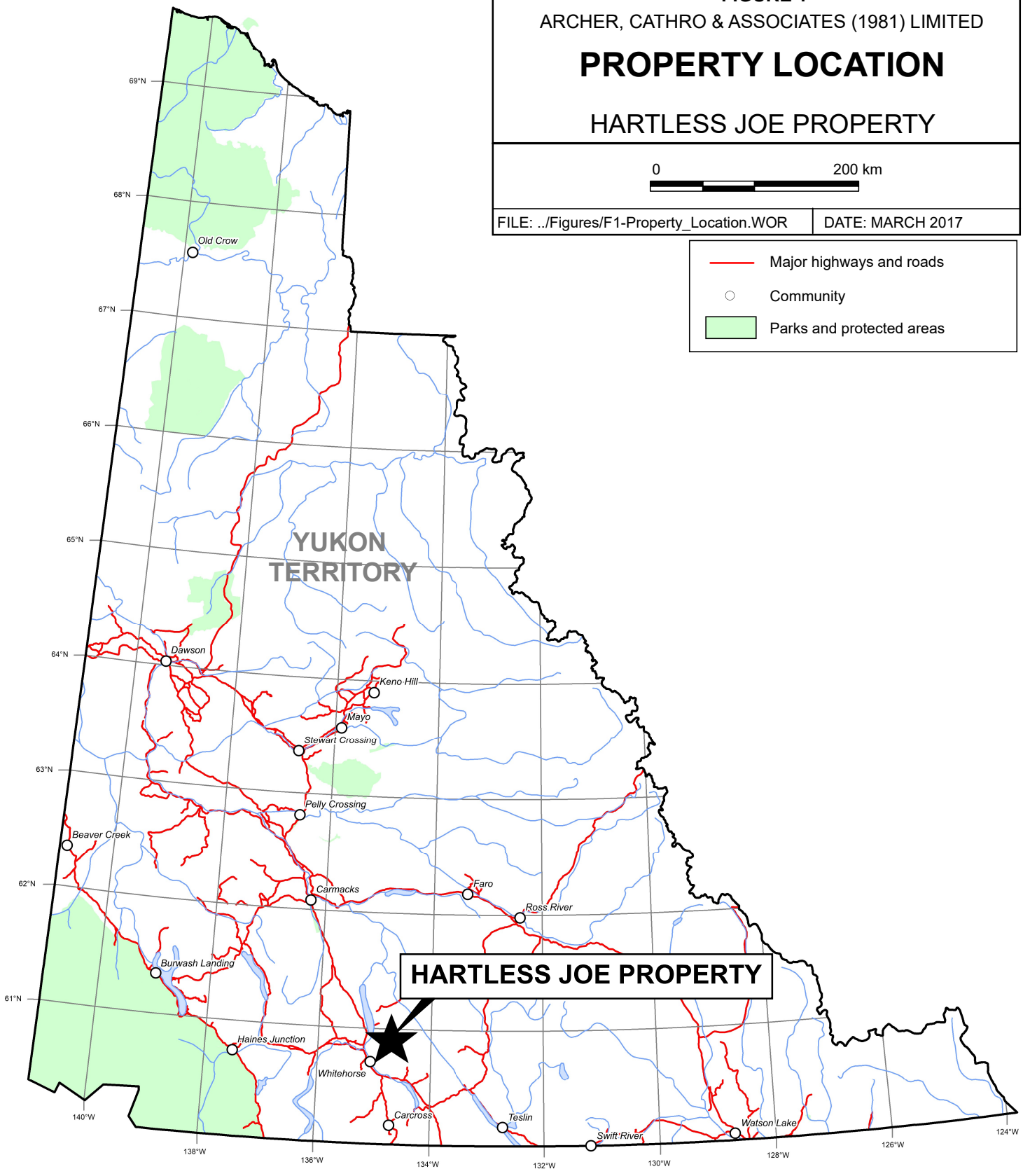

helicopters, operated by Capital Helicopters (1995) Inc., and a Eurocopter AS350 helicopter, operated by Trans North Turbo Air Limited. Daily flights for drill personnel were performed from the Whitehorse airport, while staging of gear and supplies was performed from the Cousins Airstrip, which is located 28.4 km southwest of the property. 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'än Council. In July 2016, Ecofor Consulting Ltd. conducted a Heritage Resource Impact Assessment in order to determine the potential impacts of the 2016 exploration program. The 2016 work areas 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, Esansee 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).

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.

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

HARTLESS JOE PROPERTY

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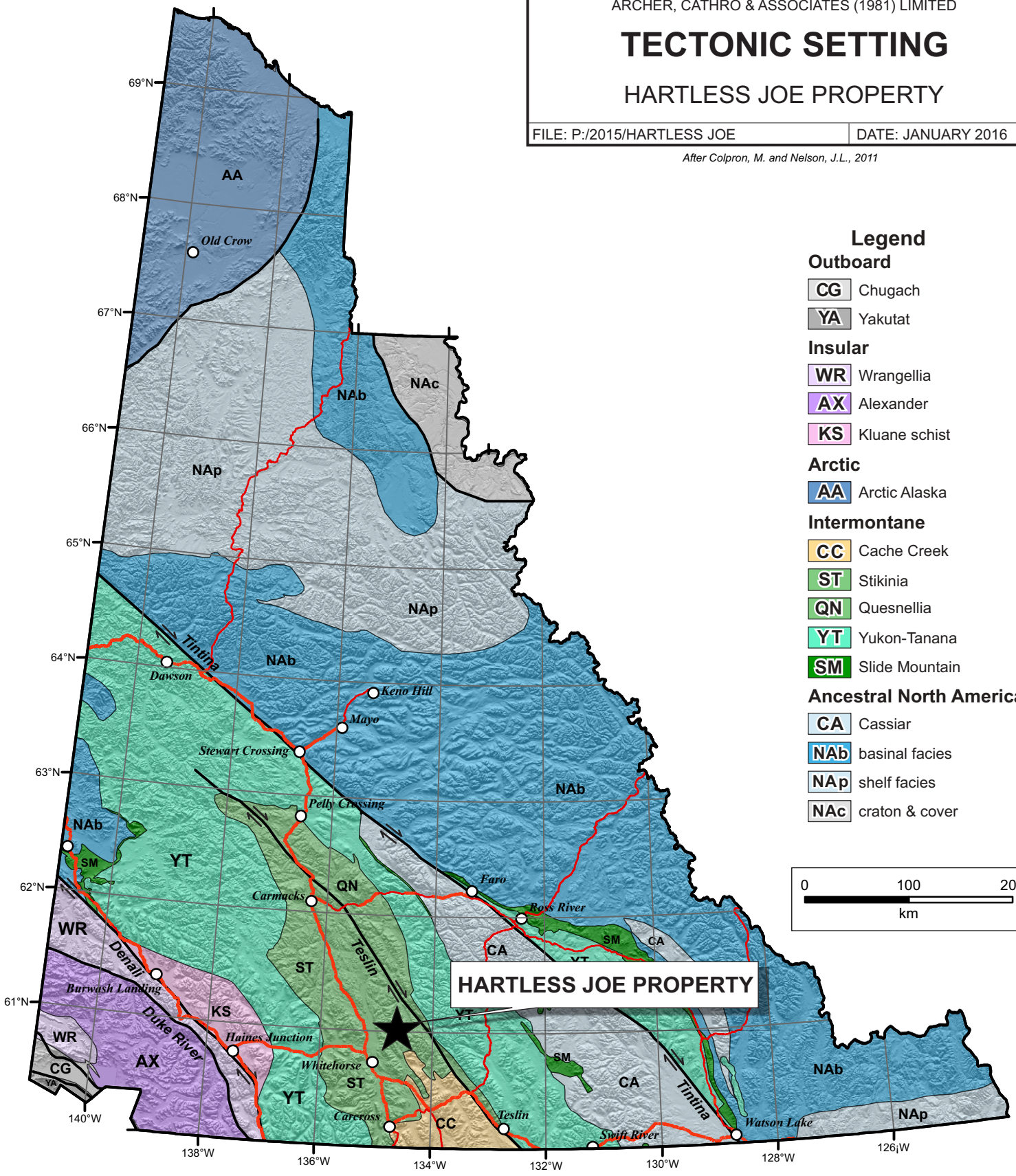
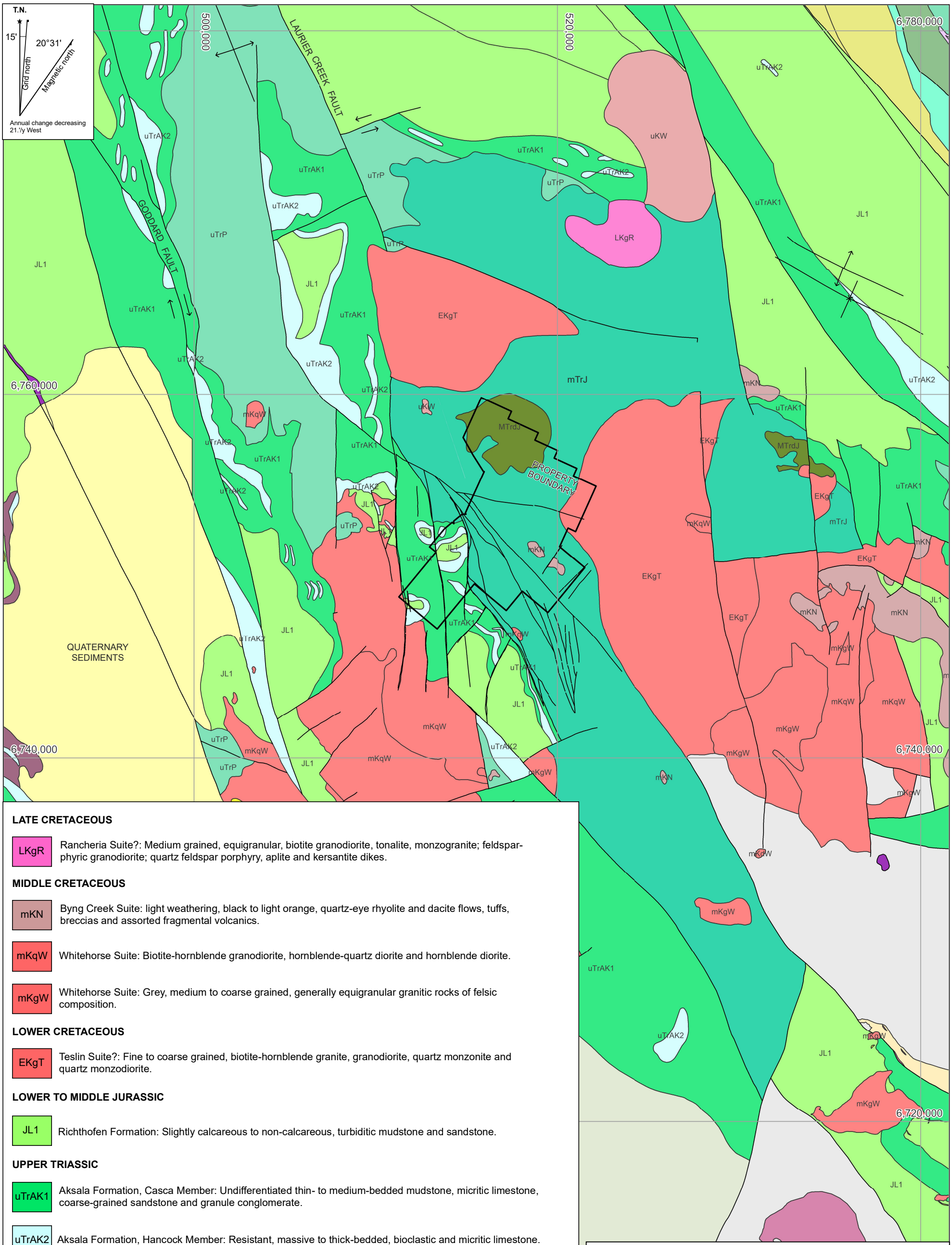
After Colpron, M. and Nelson, J.L., 2011





LATE CRETACEOUS

LKgR — Rancheria Suite?: Medium grained, equigranular, biotite granodiorite, tonalite, monzogranite; feldspar-phyric 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, volcaniclastic 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.

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

HARTLESS JOE PROPERTY

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kilometres

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

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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 volcaniclastic 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 pluton, 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 and are related to the Teslin Plutonic Suite (Bordet, 2017; Hart, 1997).

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

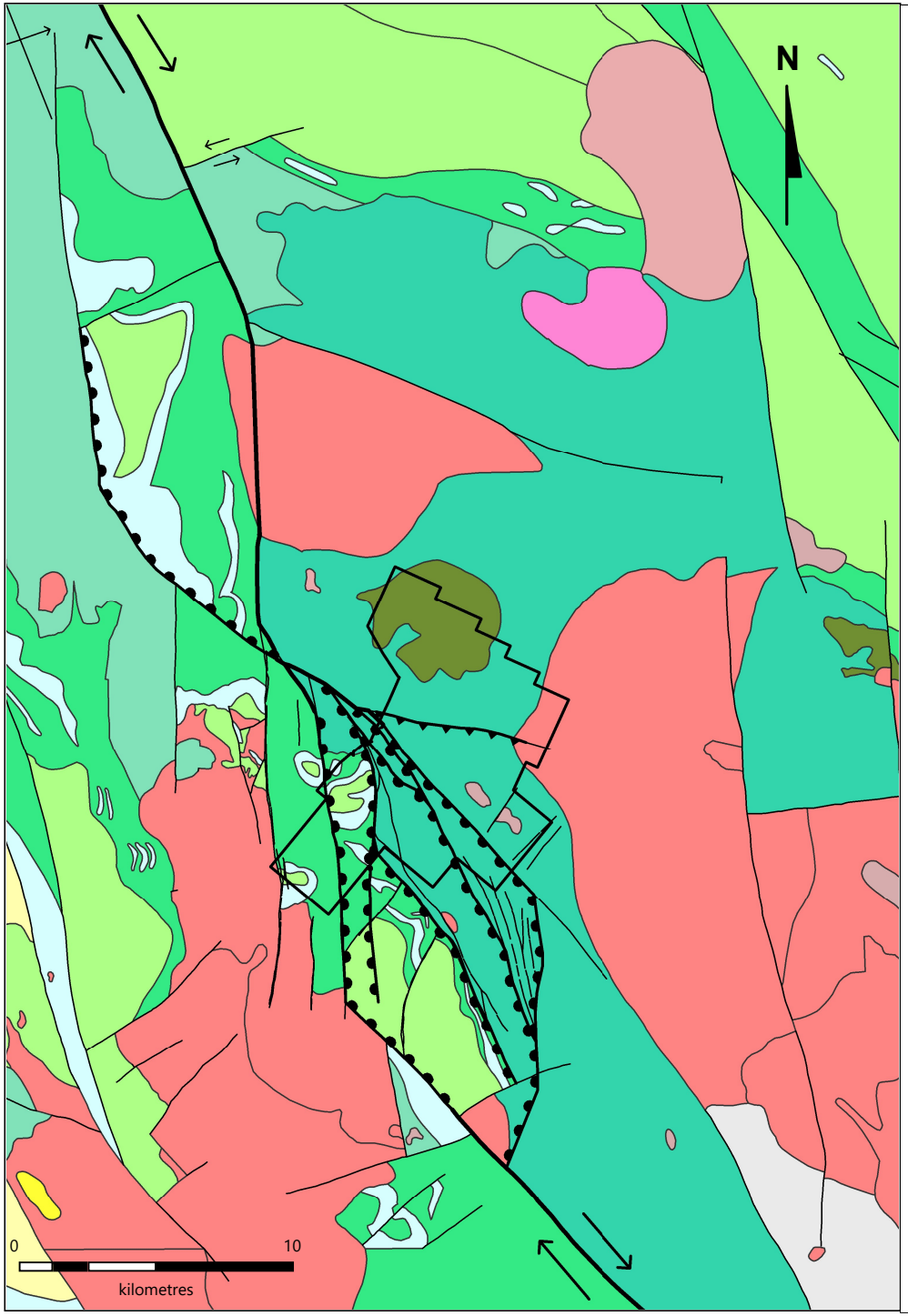
No systematic geological mapping has been completed on the Hartless Joe property by Strategic Metals, or preceding exploration companies. The only known mapping was performed by the YGS and, as such, the following descriptions are based on its publications (Hart, 1997; Hart and Hunt, 1997 and Piercey,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

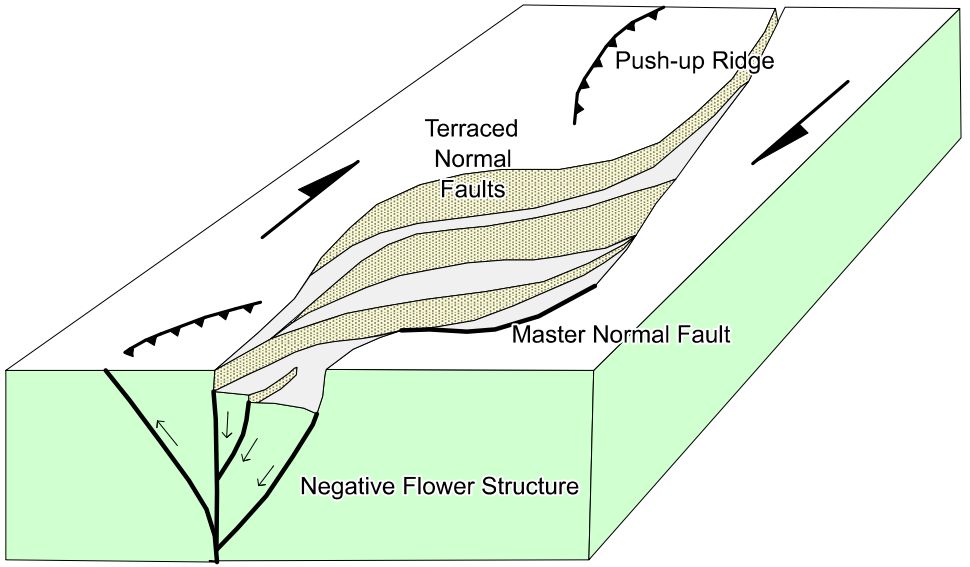
Aksala Formation sediments are found within the southwestern portion of the claim block, comprising the Casca Member (uTrAK1) and the Hancock Member (uTrAK2), a distinctive limey sub-unit. Aksala Formation strata are lithologically variable and in this area comprise various sedimentary rocks including 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.



LOOKING SOUTH



* Adapted from Dooley and McClay, 1997.

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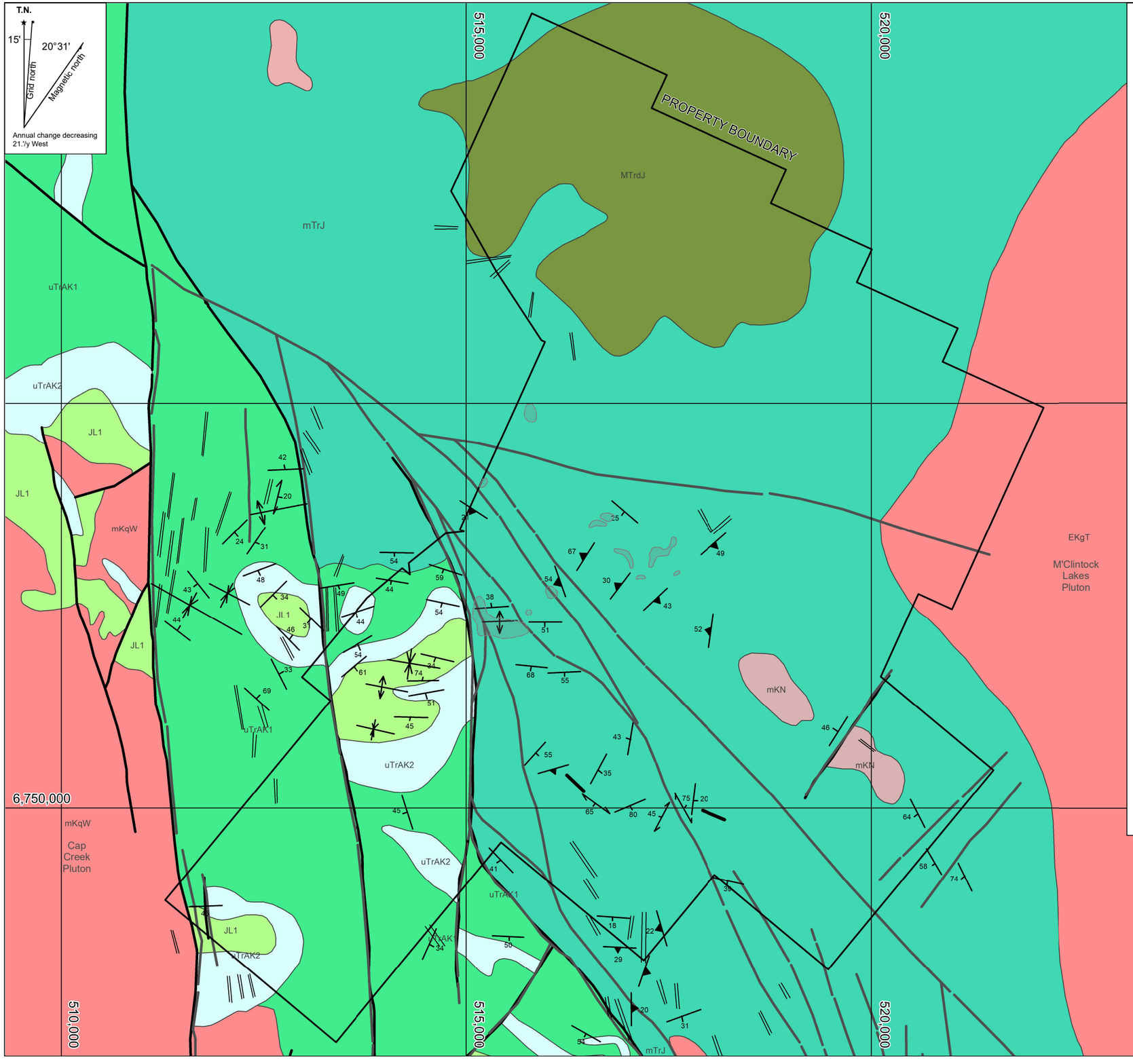
FIGURE 5

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL INTERPRETATION

HARTLESS JOE PROPERTY

FILE: ../Figures/F5-Regional_Interpretation.WOR	DATE: MARCH 2017



Showing

Anticline

Syncline

Flow surface

Bedding

Fault

Schistocity or shear zone

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

Basaltic andesite and gabbro dykes.

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FIGURE 6

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

HARTLESS JOE PROPERTY

0 3

kilometres

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

FILE: ../Figures/F6-Property_Geology.WOR | DATE: MARCH 2017

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. Eight showings have been identified on the property and are referred to as the Grumpy, Joe Creek, Les 2, Joe 4, 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 2016, Strategic Metals collected a total of 45 rock samples from the property. The 2016 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.

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. Any >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 48 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Overlimit copper values were determined by four acid digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Cu-OG62). Rock Sample Descriptions and Certificates of Analysis for the 2016 samples are provided in Appendices IV and V respectively.

The 2016 work program focused on the central part of the property and identified two new areas, the Queen and Jack showings, which host significant precious metal mineralization. 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

T.N.

15'

20°31'

Grid north

Magnetic north

Annual change decreasing 21.7'/y West

516,500

517,000

517,500

6,753,500

6,753,000

K288969

K288974

K288993-K288997

K288968

K282852-K282856

K288971

K288975

K288976

K288967

K288972

King

K288970

K288998-K289000, K282851

K288985

K288984

K288983

K288973

K288986

K288987

Ace

K288981

K288960

K288979

K288978

K288977

6,100

K288988

K288982

5,900

K288990

K288991

K288992

K288989

K282985

Queen

K282984

K282988

K282986

K282987

Jack

5,700

5,500

5,300

PROPERTY BOUNDARY

DETAILED AREA

0 3

kilometres

Mineralized rock

Rock sample

Trench samples

STRATEGIC METALS LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ROCK SAMPLE LOCATIONS

HARTLESS JOE PROPERTY

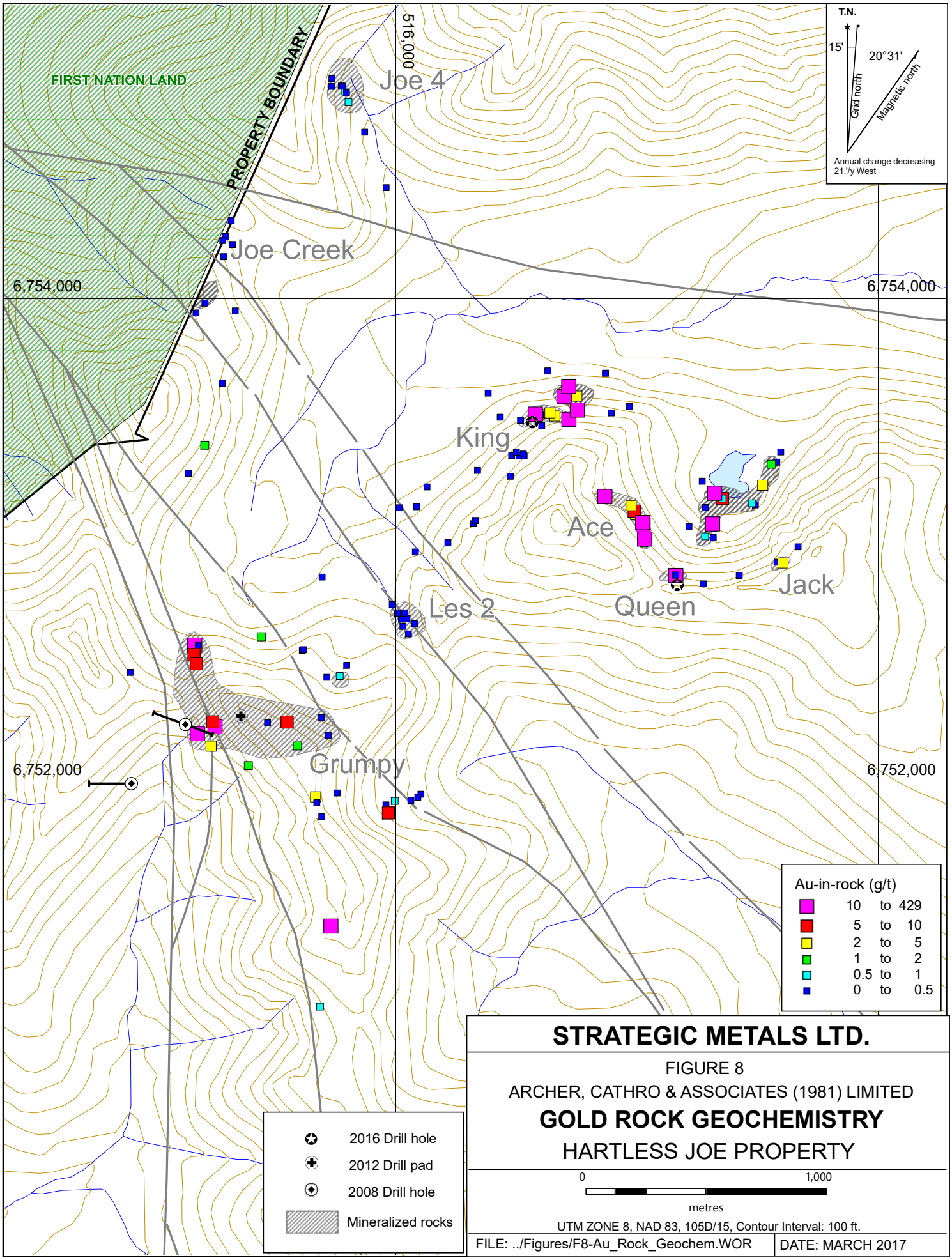
0 300

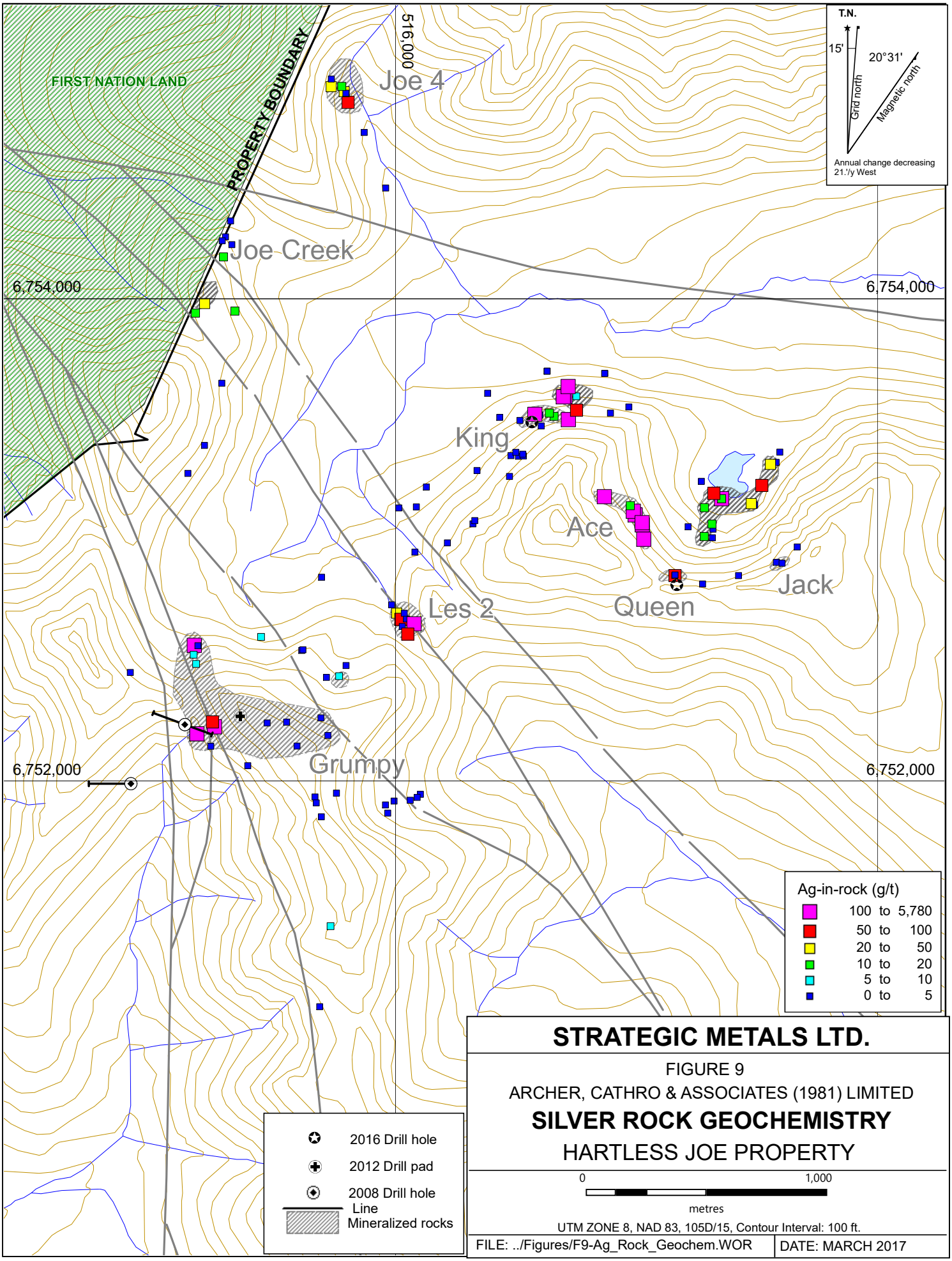
metres

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

FILE: ../Figures/F7-Rock_Locations.WOR

DATE: MARCH 2017


FIRST NATION LAND
PROPERTY BOUNDARY
516,000
Joe 4
Joe Creek
6,754,000
6,754,000
King
Ace
Jack
Queen
Les 2
Grumpy
6,752,000
6,752,000
T.N.
15'
20°31'
Grid north
Magnetic north
Annual change decreasing 21.'/y West
Au-in-rock (g/t)
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 hole
Mineralized rocks
STRATEGIC METALS LTD.
FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD ROCK GEOCHEMISTRY
HARTLESS JOE PROPERTY
0
1,000
metres
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.
FILE: ../Figures/F8-Au_Rock_Geochem.WOR
DATE: MARCH 2017



STRATEGIC METALS LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER ROCK GEOCHEMISTRY

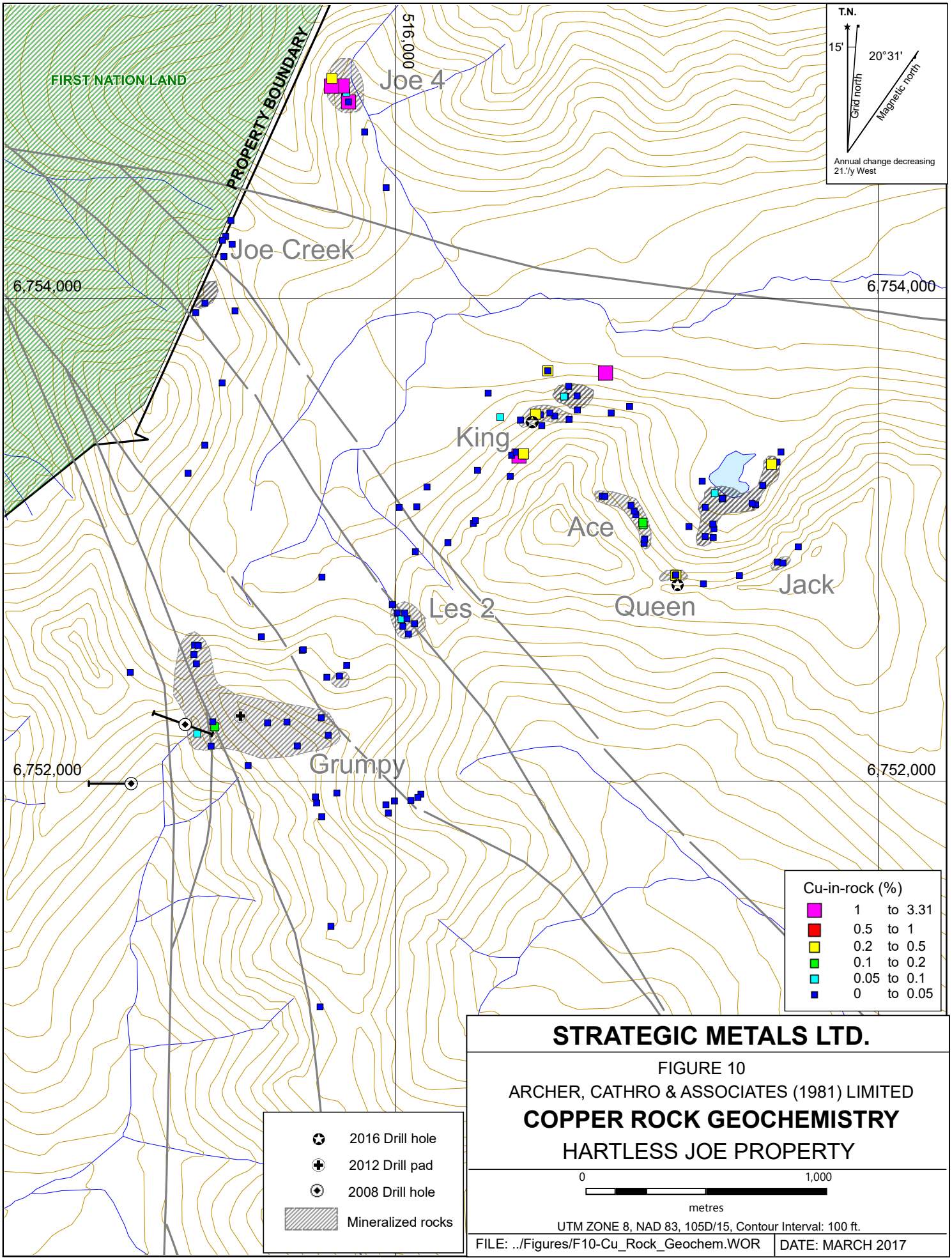
HARTLESS JOE PROPERTY

0 1,000

metres

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

FILE: ../Figures/F9-Ag_Rock_Geochem.WOR | DATE: MARCH 2017


FIRST NATION LAND
PROPERTY BOUNDARY
516,000
Joe 4
Joe Creek
6,754,000
6,754,000
King
Ace
Jack
Queen
Les 2
Grumpy
6,752,000
6,752,000
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
metres
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.
FILE: ../Figures/F10-Cu_Rock_Geochem.WOR
DATE: MARCH 2017

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, 4540 g/t silver, and are notably enriched 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

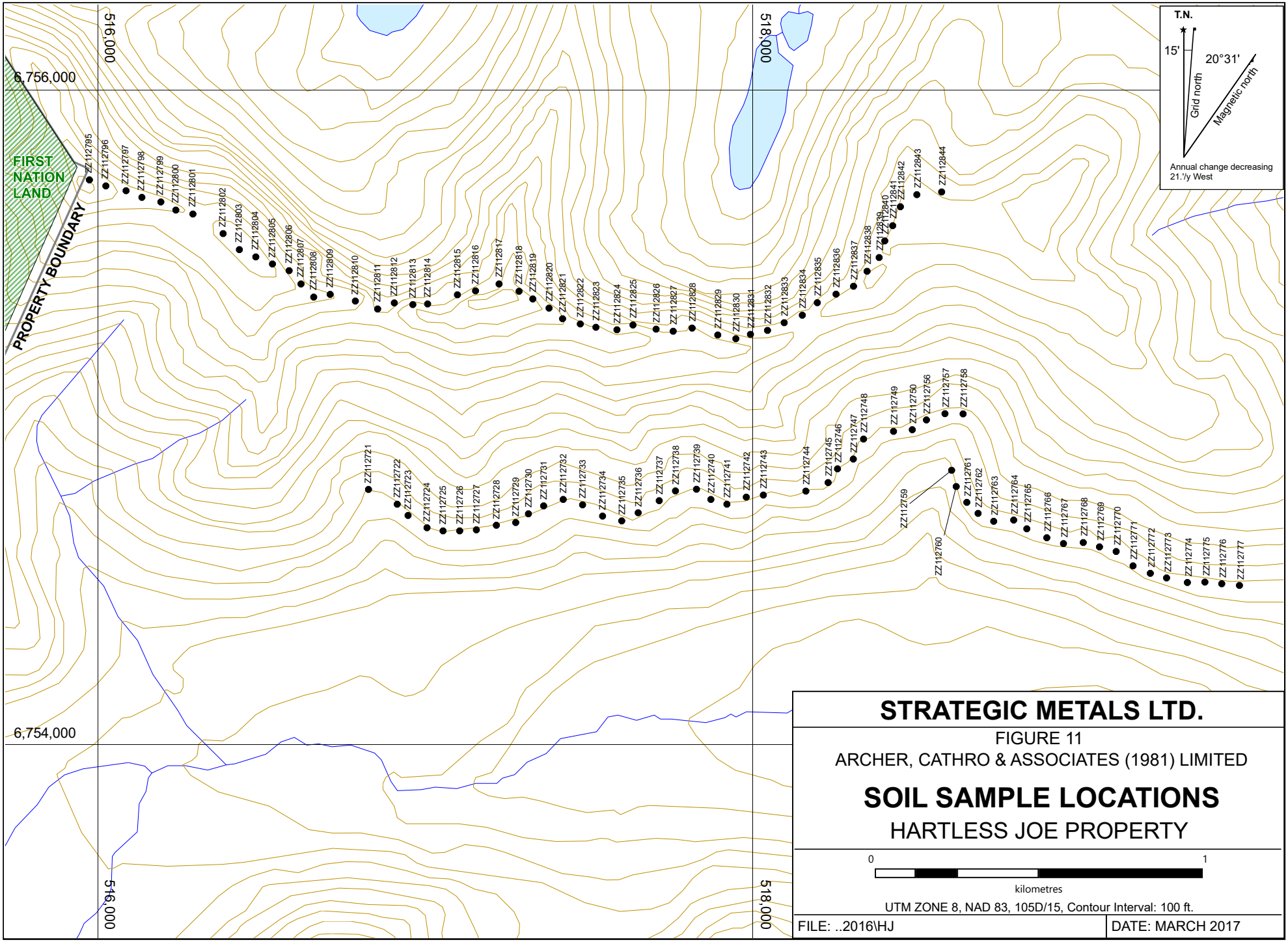
SOIL GEOCHEMISTRY

Most soil geochemical sampling performed between 2005 and 2016 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 2016, Strategic Metals collected 102 contour soil samples along a ridge in the northern part of the property. The 2016 sample locations are shown on Figure 11, while results from all programs for gold, silver and copper are illustrated thematically on Figures 12 to 14, respectively. Certificates of Analysis for the 2016 samples are provided in Appendix V.

The 2016 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 5 to 75 cm deep holes dug by hand-held auger. They were placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analysed for 48 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

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. Soil samples collected along an east-trending ridge, in the northern part of the property, returned values of up to 497 ppb gold, 6.22 ppm silver and 1190 copper. The highest gold value



STRATEGIC METALS LTD.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SOIL SAMPLE LOCATIONS

HARTLESS JOE PROPERTY

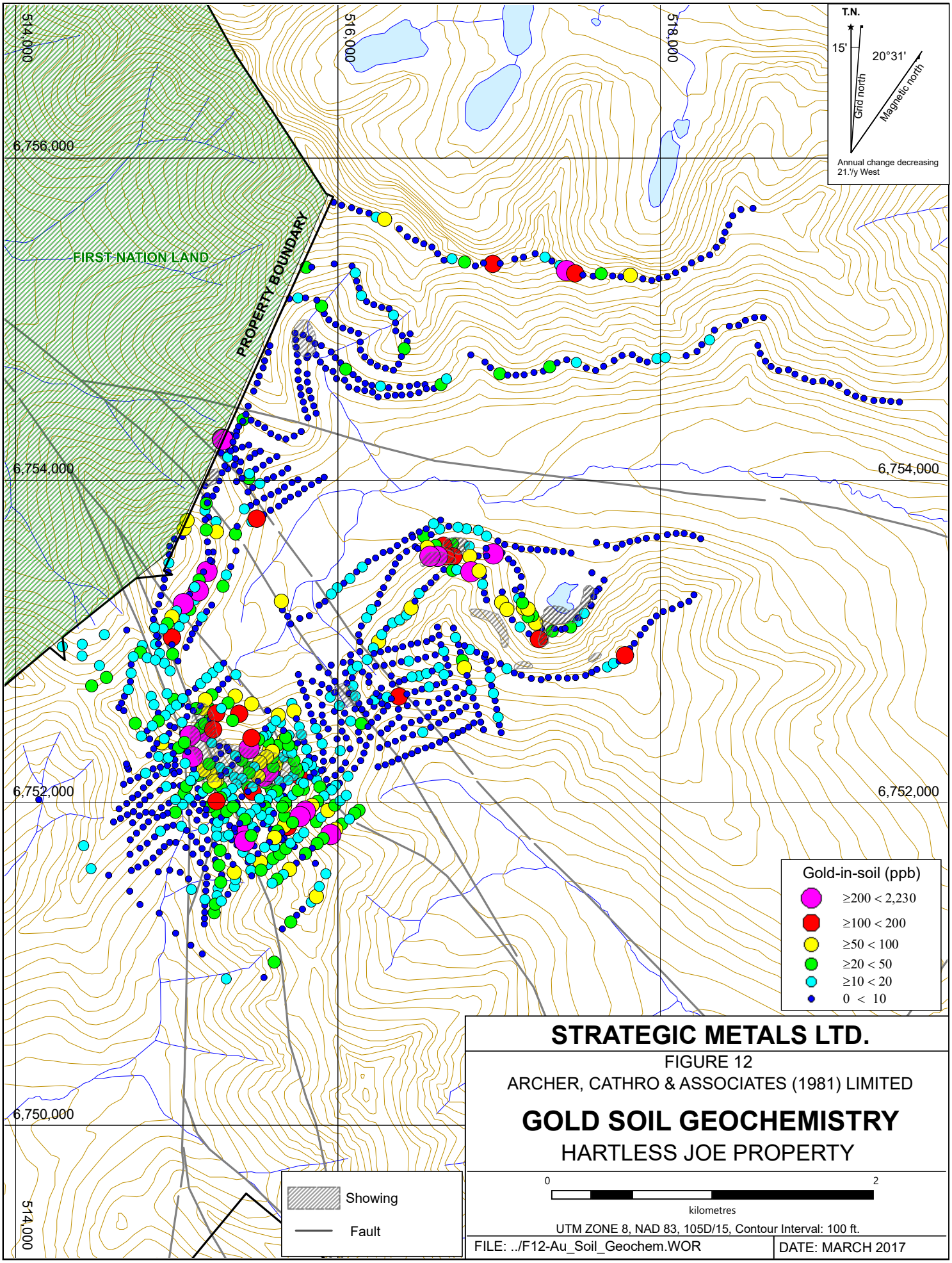
0 1

kilometres

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

FILE: ..2016\HJ

DATE: MARCH 2017



STRATEGIC METALS LTD.

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL GEOCHEMISTRY

HARTLESS JOE PROPERTY

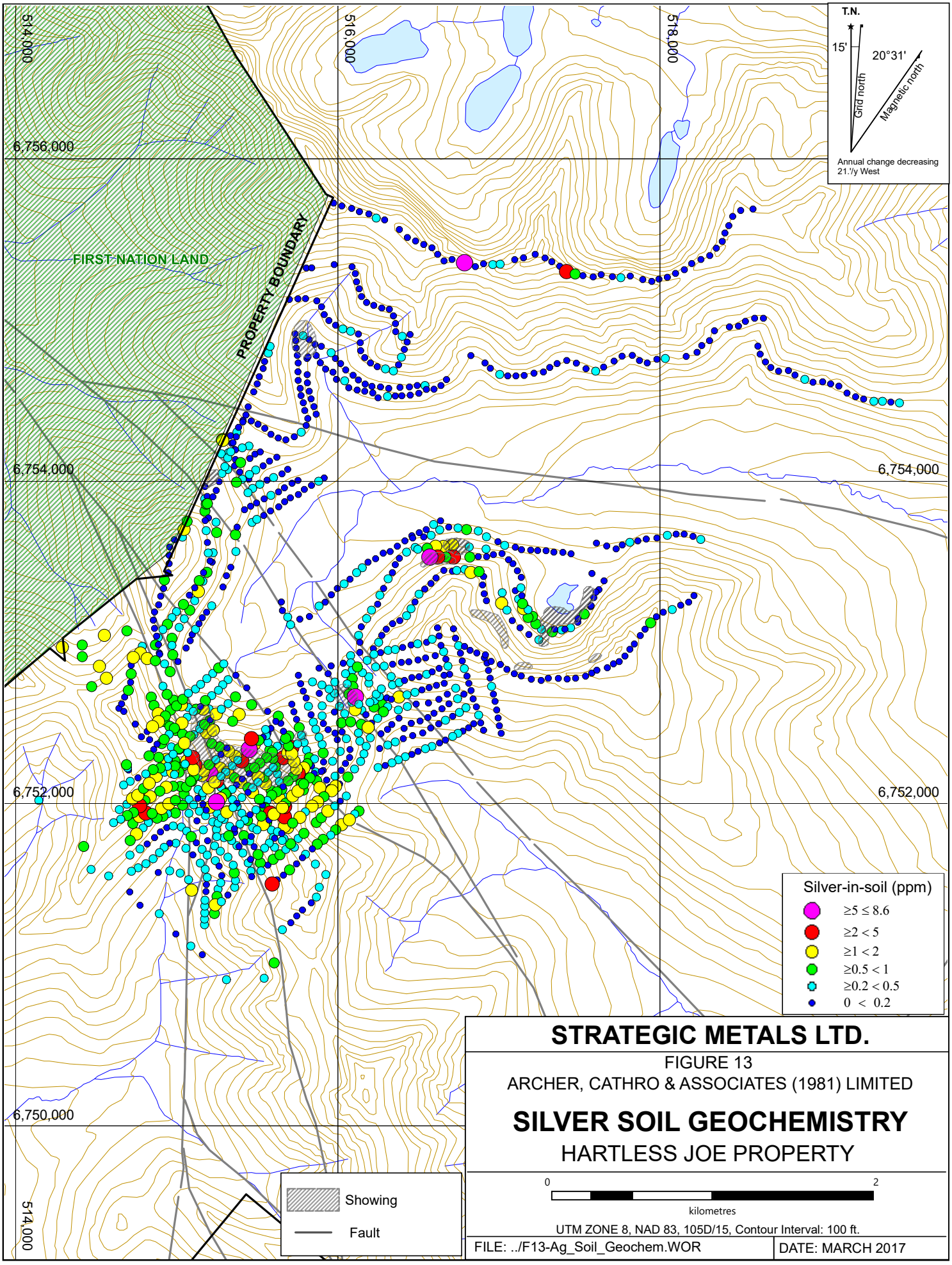
0 2

kilometres

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

FILE: ../F12-Au_Soil_Geochem.WOR

DATE: MARCH 2017



STRATEGIC METALS LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

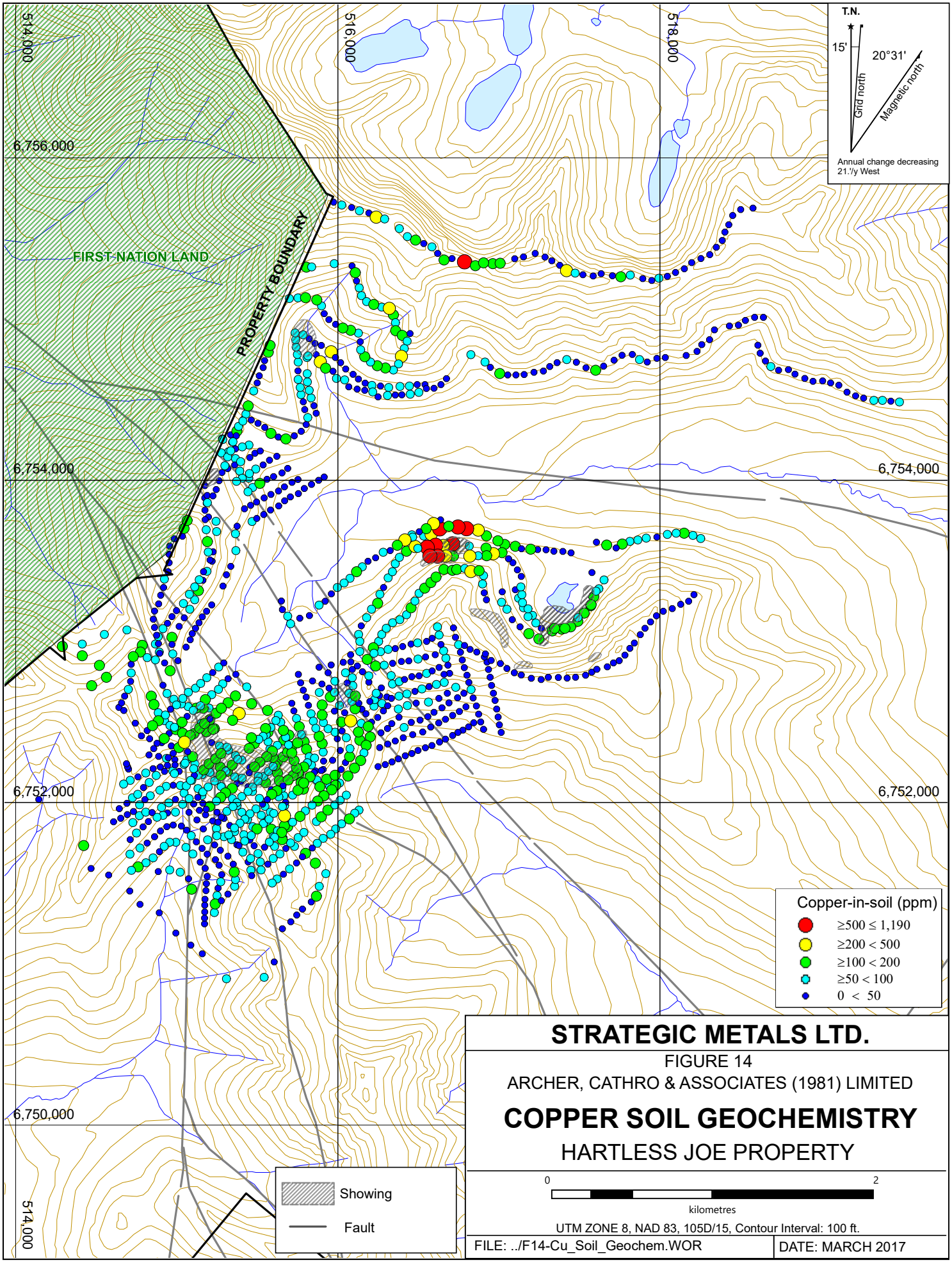
SILVER SOIL GEOCHEMISTRY

HARTLESS JOE PROPERTY

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

FILE: ../F13-Ag_Soil_Geochem.WOR

DATE: MARCH 2017


514,000
516,000
518,000
6,756,000
6,754,000
6,752,000
6,750,000
FIRST NATION LAND
PROPERTY BOUNDARY
T.N.
15'
20°31'
Grid north
Magnetic north
Annual change decreasing 21.'/y West
Copper-in-soil (ppm)
≥500 ≤ 1,190
≥200 < 500
≥100 < 200
≥50 < 100
0 < 50
Showing
Fault
STRATEGIC METALS LTD.
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY
HARTLESS JOE PROPERTY
0
2
kilometres
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.
FILE: ../F14-Cu_Soil_Geochem.WOR
DATE: MARCH 2017

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.

GEOPHYSICAL AND LIDAR SURVEYS

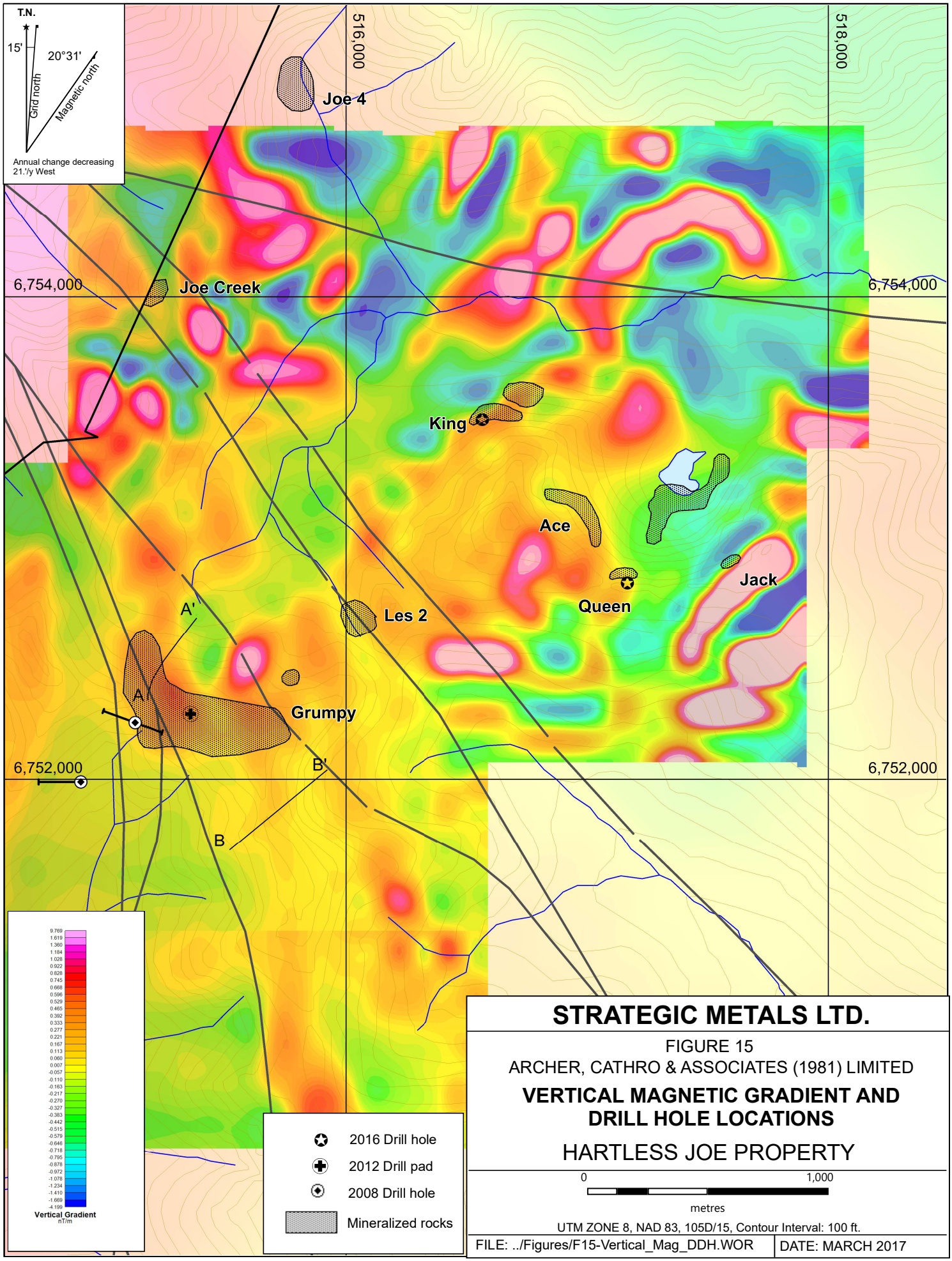
In 2007, ATAC Resources commissioned Geotech Ltd. of Aurora, Ontario to fly a helicopter-borne VTEM and magnetic survey across the property. That same year, ATAC Resources also contracted Aurora Geosciences Ltd. to perform an induced polarization (IP) and resistivity survey on two lines located 520 m 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 15 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 16). 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 17. 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



STRATEGIC METALS LTD.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

VERTICAL MAGNETIC GRADIENT AND DRILL HOLE LOCATIONS

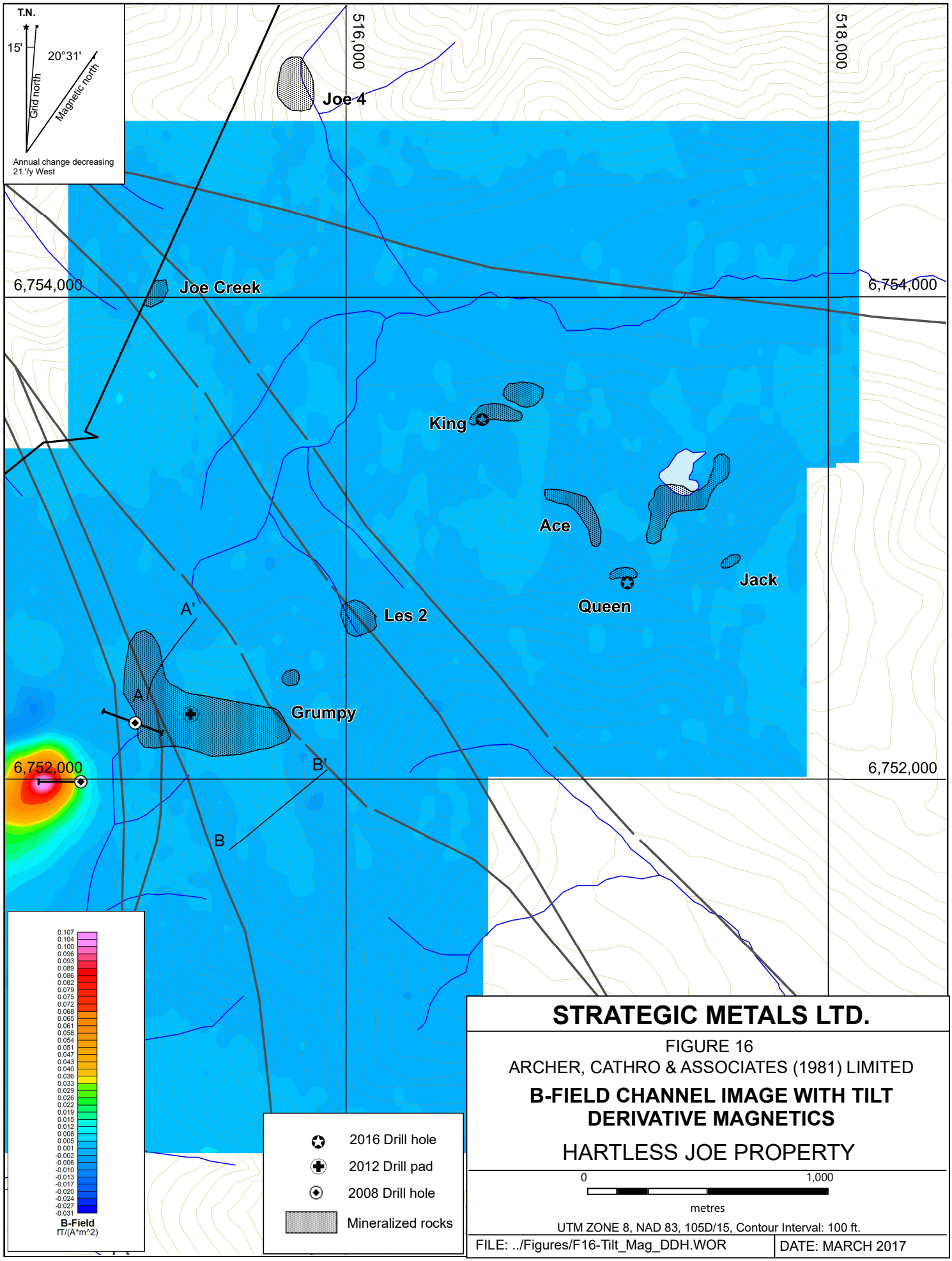
HARTLESS JOE PROPERTY

0 1,000

metres

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

FILE: ../Figures/F15-Vertical_Mag_DDH.WOR | DATE: MARCH 2017



STRATEGIC METALS LTD.

FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

B-FIELD CHANNEL IMAGE WITH TILT DERIVATIVE MAGNETICS

HARTLESS JOE PROPERTY

0 1,000

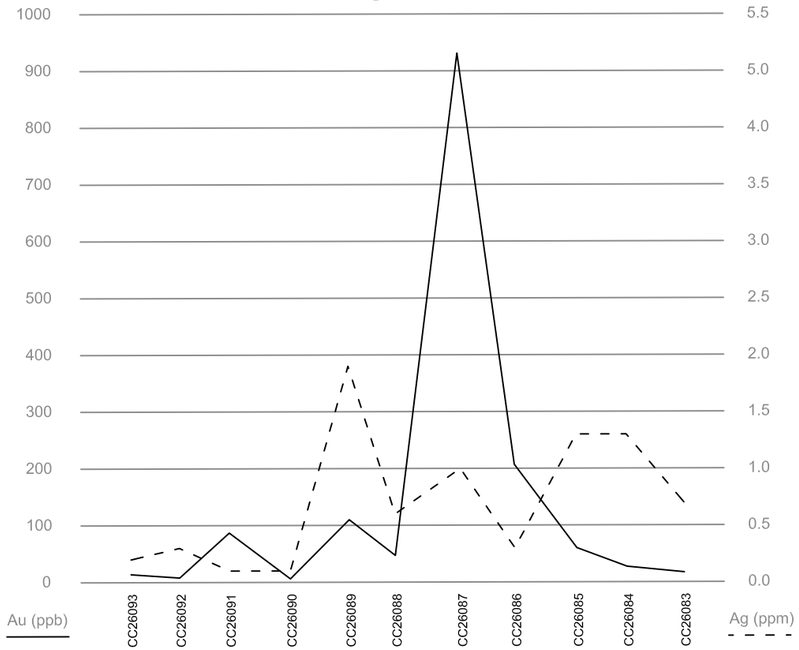
metres

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

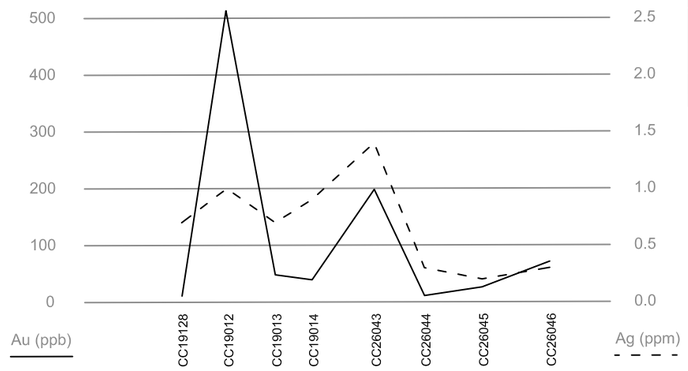
FILE: ../Figures/F16-Tilt_Mag_DDH.WOR

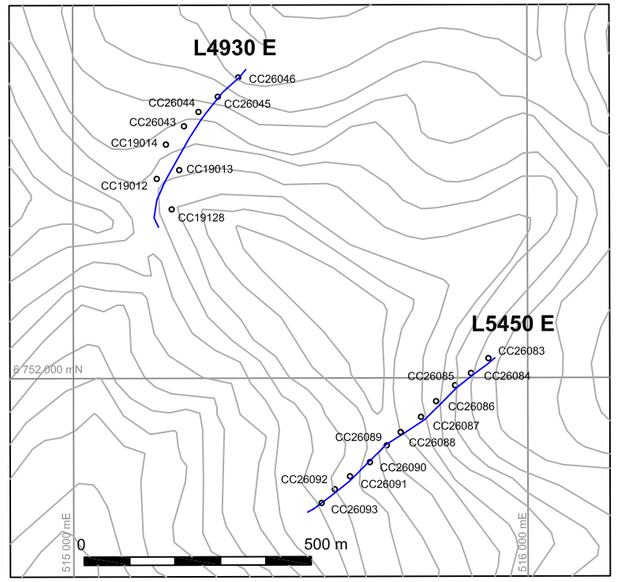
DATE: MARCH 2017

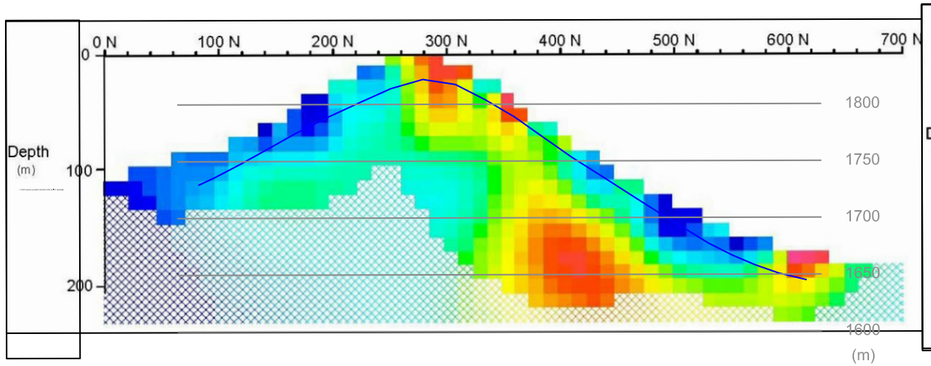
L5450 E
Looking Northwest

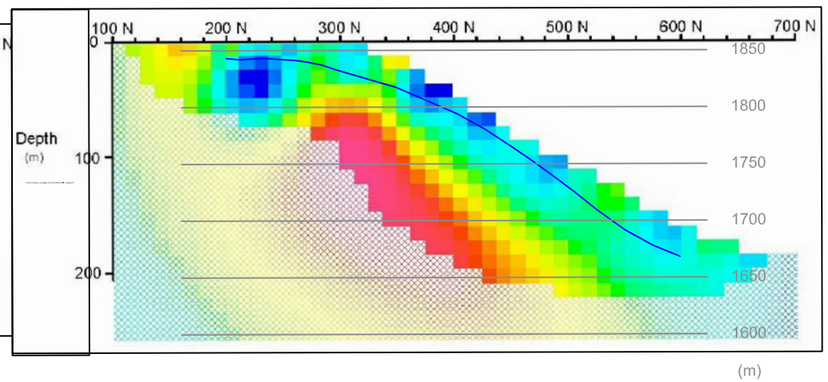


L4930 E
Looking Northwest









STRATEGIC METALS LTD.

FIGURE 17

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: MARCH 2017

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.

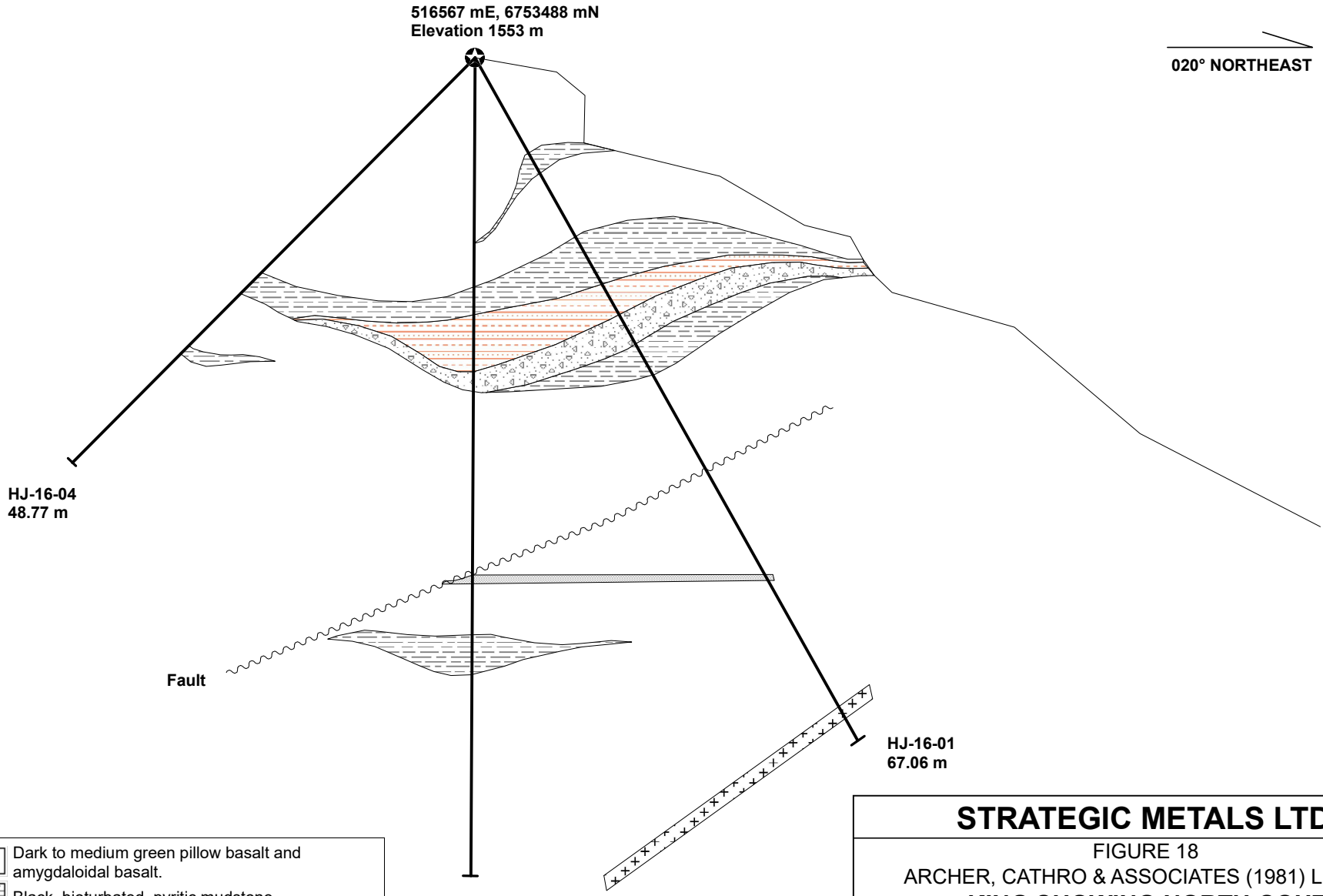
In 2016, Strategic Metals completed a total of 367.3 m of diamond drilling in 6 holes. Five of the holes (HJ-16-01 to -05) targeted the King Showing. The sixth hole tested beneath the Queen Showing (HJ-16-06). Certificates of Analyses are provided in Appendix V, while Geological and Geotechnical Logs are given in Appendix VI. Key data concerning the 2008 and 2016 drill holes are shown on Table VII.

Table VII – 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

Drill core was flown by helicopter to Whitehorse, where it was logged and processed, and is currently stored. All holes were sampled top to bottom, and the core was split with one-half bagged and sent for analysis and the other half returned to the core boxes. Drill core samples were processed in batches of 36 samples with each batch including two standard, two blank, one duplicate and one coarse reject duplicate samples. All core samples were sent to the ALS Mineral laboratory in Whitehorse, where they were crushed to 90% passing 2 mm before a 1 kg split was pulverized to better than 95% passing 106 microns. Splits of the pulverized fractions were then sent to ALS Minerals in North Vancouver, where they were dissolved in a four acid solution and analyzed for 48 elements using inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Any >100 micron material remaining on the screen was analyzed for coarse gold by fire assay with a gravimetric finish (Au-SCR21). Overlimit copper values were determined using aqua regia digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Cu-OG62).

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 VIII summarizes the results below, while Figures 18 and 19 illustrate cross-sections of the five drill holes at the King Showing.



STRATEGIC METALS LTD.

FIGURE 18

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

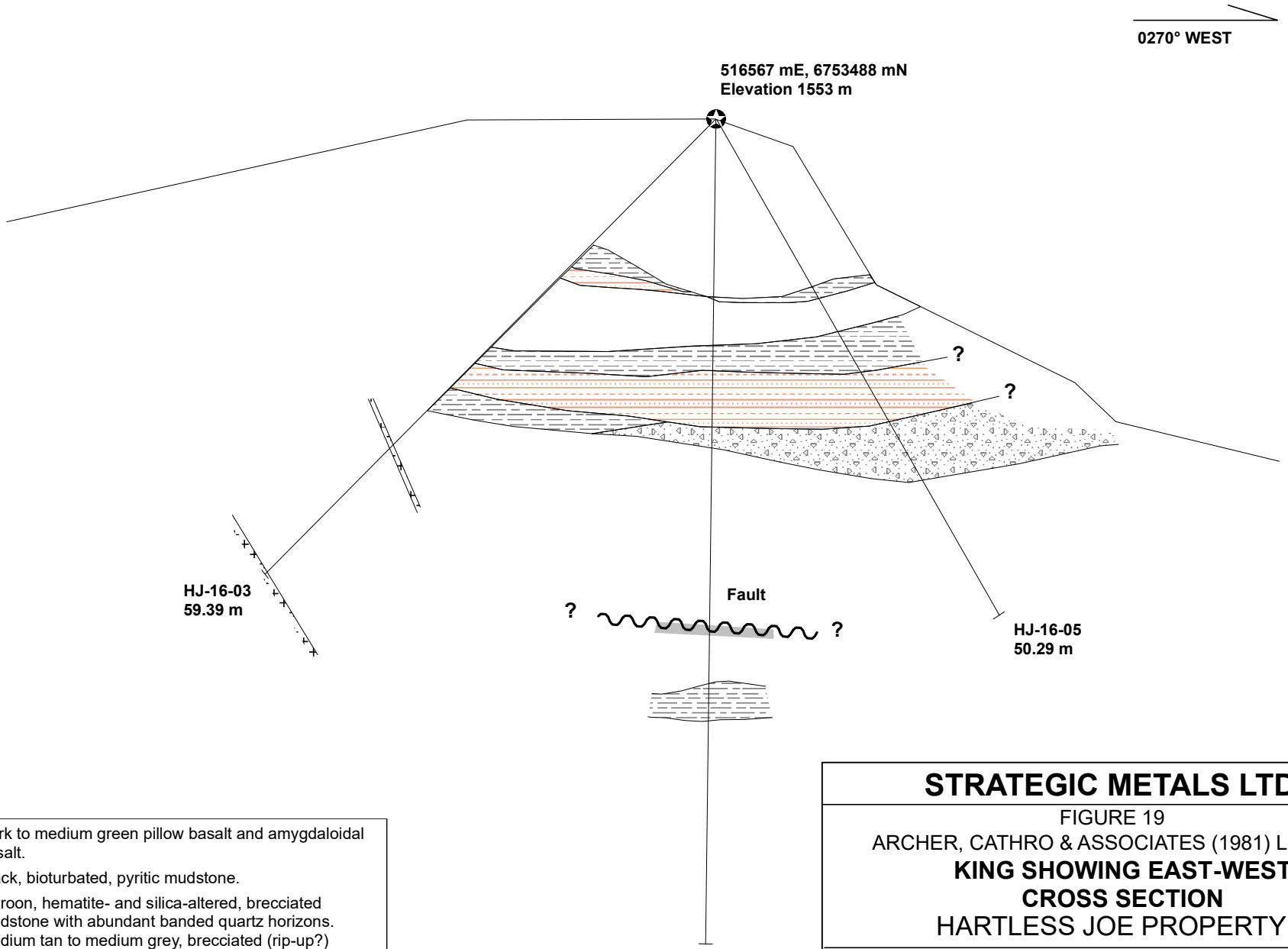
KING SHOWING NORTH-SOUTH CROSS SECTION

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: MARCH 2017



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 19

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 2017

Table VIII – 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-phyric, 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 Ororezan 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 2016, hand trenching on the property extended the King Showing, a flay-lying, precious metal-bearing quartz horizon, along a 82 m strike length. In addition, prospecting nearby relocated the Ace Showing and discovered two new gold-rich veins, the Queen and Jack showings. A 40 cm continuous chip sample across the Queen Showing returned 462 g/t gold and 79.6 g/t silver. Cursory prospecting at the Jack Showing, located 350 m east of the Queen, yielded 4.53 g/t gold in outcrop.

Drilling in 2016 did not replicate the high-grade gold results obtained from outcrop samples. At the King Showing, five diamond drill holes, (HJ-16-01 to -05), were collared from a single pad. Four of five holes successfully intersected the quartz horizon, which was significantly altered and mineralized. The best intersection, from hole HJ-16-01, comprised 1.57 g/t gold and 44.7 g/t

silver over 2.78 metres. The remaining holes cut narrow intervals of strongly anomalous but sub-economic gold and silver values. At the Queen Showing, a single hole (HJ-16-06) cut the footwall stratigraphy observed in outcrop, but failed to intersect the gold-rich quartz vein.

Further work on the Hartless Joe property should continue to evaluate undrilled showings and areas where anomalous geochemical or geophysical results have been obtained. Reconnaisance-scale soil geochemical coverage should be extended to cover the entire property, and silt sampling should be performed on the new claims. 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

J. Morton, B.Sc., GIT

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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 Geoscientist in Training (G.I.T.) with the Association of Professional Engineers and Geoscientists of British Columbia.

4. I supervised the field program and have interpreted all data resulting from this work.

J. Morton, B.Sc., GIT

APPENDIX II

STATEMENT OF EXPENDITURES

Statement of Expenditures
Hart 1-163, Joe 1-170 and Les 1-12 Mineral Claims
February 28, 2017

1. Hart 1-46, Joe 1-30 and Les 1-12 (88 pre 2016 claims x 4 yrs)

D. Eaton – geologist -22 hours April to June at $120/hr	$ 2,772.00	
H. Burrell geologist - 74 hours April to June at $106/hr	8,236.20	
J. Morton (geologist) 66 hour April to June at $82/hr	5,682.60	
Capital Helicopters – 8.8 hours Bell 206 at $1,075/hr plus fuel	12,932.29	
Ecofor Consulting B.C. Ltd.	7,383.14	$ 37,006.23

2. Joe 31-94 (64 claims recorded July 22 x 4.75 yrs)

Capital Helicopters – 25.5 hours Bell 206 at $1,075/hr plus fuel and 4.4 hours Bell 44 at $835/hr plus fuel	38,593.48	38,593.48

3. Hart 47-98 (52 claims recorded August 8 x 4.75 yrs)

Beaudoin Diamond Drilling Ltd.	43,098.45	43,098.45

4. Hart 99-163 and Joe 95-170 (141 claims recorded Oct. 19 x 2.5 yrs)

Labour

D. Eaton geologist 16 hours Oct. 19 to Feb. 28 at $120/hr	2,016.00	
H. Burrell geologist 2 hours Oct. 19 to Feb. 28 at $106/hr	222.60	
J. Itkin office 15 hours Oct. 19 to Feb. 28 at $90/hr	1,417.50	
J. Mariacher office 65 hours Oct. 19 to Feb. 28 at $90/hr	6,142.50	
L. Smith office 36 hours Oct. 19 to Feb. 28 at $69/hr	2,608.20	
S. Newman office 16.5 hours Oct. 19 to Feb. 28 at $66/hr	1,143.45	
ALS Chemex	2,306.49	
Ecofor Consulting B.C. Ltd.	2,816.43	18,673.17
		$137,371.33

APPENDIX III

HERITAGE STUDY

ECOFOR
natural and cultural resource consultants

Heritage Resource Impact Assessment: Hartless Joe Quartz Mineral Claim, Southern Yukon (16-21ASR)

(To Be Included in YESAB Materials – No Sensitive Site Data)

Prepared for:
Archer, Cathro & Associates (1981) Limited
(acting as agent for Strategic Metals Ltd.)
41 MacDonald Road
Whitehorse, Yukon
Y1A 4R1

Prepared by:
Tim Bennett
Ecofor Consulting Ltd.
6B-151 Industrial Road
Whitehorse, Yukon
Y1A 2V3

Report also submitted to:
Kwanlin Dün First Nation
Ta'an Kwäch'än Council

January 16, 2017

EXECUTIVE SUMMARY

On behalf of Archer, Cathro & Associates (1981) Limited, working as agents for Strategic Metals Ltd., Ecofor Consulting Ltd. conducted a Heritage Resource Impact Assessment (HRIA) for the Hartless Joe Quartz Mineral Claim exploration project. The project area was assessed by Ecofor employees Tim Bennett (permit holder) and Alex Gunn. Representatives from the Kwanlin Dün First Nation (Sean Smith on June 28, 2016; Richard Vladars on June 29, 2016) and Ta'an Kwäch'än Council (John Bunbury on June 28, 2016) also participated in the fieldwork.

Field assessment was planned for three areas: the 2016 exploration area, a proposed primary camp location, and a proposed alternate camp location. Pedestrian survey, helicopter survey, and shovel testing were conducted within the 2016 exploration area (48 shovel tests), and a proposed primary camp location (13 shovel tests). However, the proposed alternate camp location was deemed to be unsuitable for a camp by Heather Burrell of Archer, Cathro & Associates (1981) Limited during helicopter reconnaissance of the area, and it was removed from the proposed project plan. As such, no on-the-ground assessment work was conducted at the alternate camp location during this HRIA. No heritage resources were observed in the assessed areas.

In addition to the shovel tested area within the 2016 exploration area, a high mountain-top ridgeline was inspected on foot for heritage resources and/or potential perennial ice patches. No heritage resource materials or perennial ice patches were observed along the ridgeline.

Based on these results, **no further heritage resource work is recommended for portions of the Hartless Joe Quartz Mineral claim which were assessed during this HRIA (the 2016 exploration area, a proposed primary camp location). Because it was dropped from the development plan, and therefore not assessed, no recommendations are made for the proposed alternate camp location.** However, if future exploration work is planned on the proposed alternate camp location or any other lands within the greater Hartless Joe Quartz Mineral Claim area that were not assessed during this study, those areas should also be reviewed for possible impacts to heritage resources.

CREDITS

Permit Holder:	Tim Bennett, MA
Report Author:	Tim Bennett, MA
Field Crew:	Tim Bennett, MA (Ecofor) Alex Gunn, BA (Ecofor) Sean Smith (KDFN) Richard Vladars (KDFN) John Bunbury (TKC)
Report Editing:	James Mooney, MA Cherie Kenya, MA
Graphics/GIS Technicians:	Margie Massier, BA/BSc

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1.0 INTRODUCTION

On behalf of Archer, Cathro & Associates (1981) Limited, working as agents for Strategic Metals Ltd., Ecofor Consulting Ltd. conducted a Heritage Resource Impact Assessment (HRIA) for the Hartless Joe Quartz Mineral Claim exploration project (Figure 1). This proposed project includes a mineral exploration claim block located approximately 30 km northeast of Whitehorse, YK on NTS mapsheet 105D/15. The proposed project footprint includes several unnamed tributaries of the M'Clintock River and Cap Creek, an unnamed upland pond, and well-defined terraces and ridges that are interpreted as having elevated heritage resource potential. The proposed project area lies within the traditional territories of the Kwanlin Dün First Nation (KDFN) and Ta'an Kwäch'än Council (TKC), with TKC settlement lands (10R-01A) located immediately west of the affected lands.

1.1 Project Overview

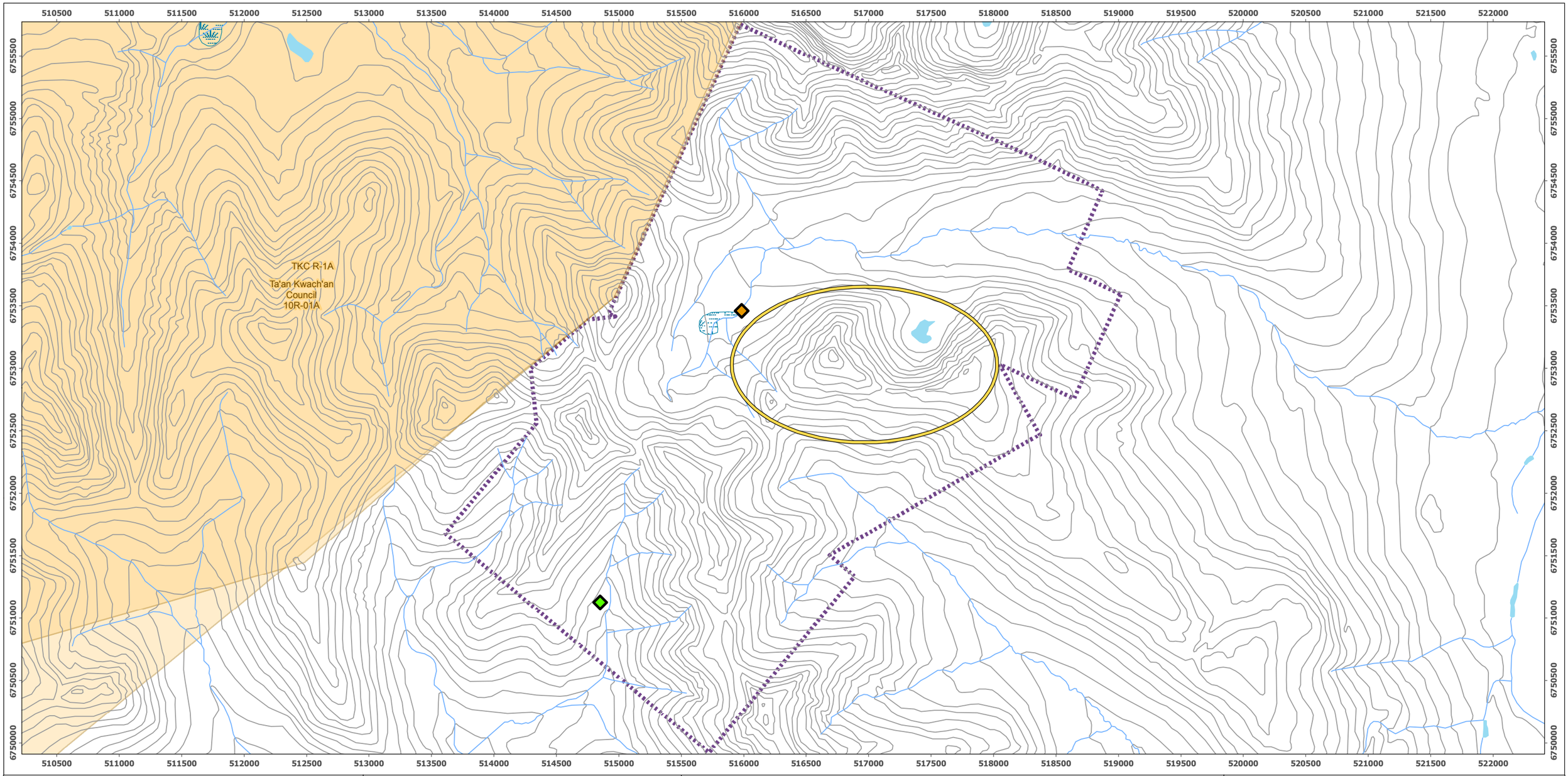
This HRIA focused on three localities within the greater claim block that were specified by the proponent as requiring assessment to facilitate their 2016 exploration program. These areas included a primary camp location, a possible second camp location, and the main 2016 exploration drill area (see Figure 1). Potential impacts during this early (2016) phase of exploration at the Hartless Joe Quartz Mineral Claim should be minimal. The proposed camp will consist of three wall tents on platforms, with some additional tents placed directly on the ground. The terrain surrounding the camp is flat and as such, the construction of a helicopter pad is not required. Any drilling conducted within the 2016 exploration area will be done with heli-portable drilling equipment, so no vehicle capable access roads will be constructed.

1.2 Personnel

The project area was assessed by Ecofor employees Tim Bennett (permit holder) and Alex Gunn. Representatives from the Kwanlin Dün First Nation (Sean Smith on June 28, 2016; Richard Vladars on June 29, 2016) and Ta'an Kwäch'än Council (John Bunbury on June 28, 2016) also participated in the fieldwork.

1.3 Report Format

Following this introduction in Section 1.0, Section 2.0 provides a discussion of the environmental setting that the study area is located within, Section 3.0 discusses the culture history of the area in which the proposed development is located, Section 4.0 details the methodologies employed in completing this work, Section 5.0 presents the results of this HRIA, Section 6.0 provides a



ARCHER CATHRO

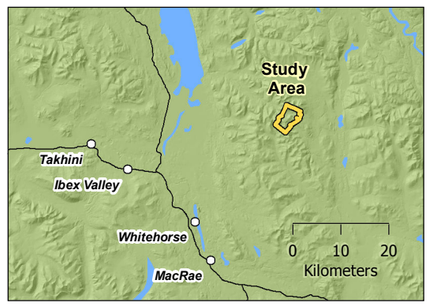
FIGURE 1
LOCATION MAP
HARTLESS JOE

1:30,000

0 500 1,000 1,500m

NAD 1983 UTM Zone 8N
NTS MAPSHEET: 105D/15

Disclaimer:
This product is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. The base data layers have been obtained from the National Topographic Database (NTDB), and GeoYukon.



Base Features
- Contour (100 ft)
- River/Stream-Definite
- River/Stream-Indefinite
- Waterbody
- Wetland

Land Use
- Settlement Lands

Assessment Features
- Primary Camp Location
- Secondary Camp Location
- 2016 Exploration Area
- Claim Boundary

ECOFOR
natural and cultural resource consultants

Ecofor Consulting Ltd. Date: July-15-16 (LM)

EPN:	2016-1181-001
Claim Area:	1594 ha
Easting:	516394
Northing:	6752861

summary and recommendations for the ongoing management of heritage resources within the assessed project area, and Section 7.0 closes the report with a listing of references cited. Three appendices are included at the end of this report. Appendix A shows project mapping, Appendix B provides project photographs, and Appendix C includes the project field notes.

2.0 ENVIRONMENTAL SETTING

The study area is located within Boreal Cordillera Ecozone in the Yukon Southern Lakes Ecoregion (see Smith et al. 2004 for full discussion). The Boreal Cordillera Ecozone is characterized by mountain ranges, high peaks and extensive plateaus, separated by wide valleys, lakes, and lowlands. Further detail regarding the Yukon Southern Lakes Ecoregion is presented below.

2.1 Yukon Southern Lakes Ecoregion

2.1.1 Climate

The Yukon Southern Lakes ecoregion is relatively arid because it falls within the rain shadow of the St. Elias-Coast Mountains. Annual precipitation ranges from 200-325 mm, 30-50% of which occurs during the summer months as rain. Snow cover is usually in place from late October to mid-April in the valleys and a month longer on higher elevations. Mean annual temperatures are between -2 to -3 °C. Mean January temperatures range between -21 and -25 °C, while mean July temperatures range from 12-14 °C. Extreme temperature ranges have been recorded from -55 to 34 °C in some areas (Smith et al. 2004).

2.1.2 Physiography

The Yukon Southern Lakes Ecoregion, a large area of rounded summits and broad valleys, is part of the Yukon Plateau physiographic unit as defined by Bostock (1948) and Hughes (1987). In general, its topography is characterized by dissected plateaus, rolling hills and broad valleys occupied by lakes and rivers (Smith et al. 2004). This streamlined topography was shaped by the glacial ice flows of the McConnell Glaciation (Bostock 1966; Hughes 1969), which had covered lowland areas by sometime after 26,000 BP and had receded prior to 9,000 BP (Jackson et al. 1991). In the postglacial period, rivers and streams cut into the thick deposits of till, glaciofluvial gravels, and glaciolacustrine clay and silt deposited during the McConnell Glaciation creating steep-sided canyons and flights of terraces (Smith et al. 2004). Much of the terrain that resulted from these processes lies between 1,000 and 1,500 m a.s.l. The highest point in the ecoregion is the summit of Mount Arkell which reaches 2,377 m a.s.l. Other peaks over 2,000 m a.s.l. are Joe Mountain, Mount Lorne, Mount Byng, Pilot Mountain, and peaks in the Sifton and Englishman ranges. The ecoregion's major rivers and lakes all lie below 760 m a.s.l. (Smith et al. 2004).

2.1.3 Hydrology

The Yukon Southern Lakes Ecoregion is situated within the Yukon's Interior Hydrologic Region (see Smith et al. 2004: Figure 8). The primary drainage flows northward through rivers such as the Yukon, Teslin, and Takhini and their tributaries. Some smaller rivers in the western part of the ecoregion flow west into the Alsek River. Streamflow is driven by meltwaters in spring and rainfall through the summer. Minimum streamflow usually occurs in April, immediately before spring melting begins. Wetlands and lakes cover approximately 5% of region's landmass (Smith et al. 2004).

2.1.4 Bedrock and Surficial Geology

The bedrock geology of the Yukon Southern Lakes Ecoregion is characterized by coarse-grained, crystalline metamorphic and granitic rocks in the eastern and western thirds of this ecoregion, while mafic volcanic rocks, limestone reefs and clastic sediments characterize the central third (Smith et al. 2004). Four lithologically distinct tectonostratigraphic terranes, Yukon-Tanana, Stikinia, Cache Creek, and Dorsey, are represented within this ecoregion. Summaries of all four of these terranes can be found in Smith et al. 2004 (pp. 208-209), but for the purpose of this report it will simply be noted that the project area is situated within the Stikinia terrane, which is characterized by volcanic and sedimentary rocks such as basalt, limestone, argillite, sandstone, and conglomerates (Hart 1997; Hart and Villeneuve 1999; Smith et al. 2004). The lands surrounding the study are also renowned for their resource-bearing potential. Gold (Hart and Radloff 1990), copper (Watson 1984), and coal (Bremner 1988; Hunt and Hart 1994) have all been mined in the vicinity.

The surficial geology of the Yukon Southern Lake Ecoregion is associated with the most recent Cordilleran glaciation, the McConnell, which covered the south and central Yukon between approximately 26,500 and 10,000 BP. These glacial processes deposited large quantities of till, typically supported by a sandy and/or silty matrix (Smith et al. 2004). As the McConnell Glaciation came to an end, glaciofluvial and glaciolacustrine processes further distributed and shaped these deposits to create the undulating landscape and well-incised drainages that characterize the ecoregions today.

2.1.5 Vegetation

Open coniferous and mixed woodland forests dominate the flora of Yukon Southern Lakes Ecoregion. Pine is the most common tree species in the region due to the fact that they regenerate quickly in fire burned areas. Forest fires are common in the area due to the low

precipitation level in the warm summer months. In the few areas that have not been subject to forest fires in the last 100 years, white spruce-feathermoss forests are common. Black spruce has a limited presence in this ecoregion, mostly occurring in the eastern portion, where near-surface permafrost is present. Other tree species include subalpine fir, aspen, balsam poplar, paper birch, and willow. Medium shrubs dominate the highlands where shrub birch, underlain by lichen and moss, is common at drier sites, and willow and shrub birch with moss groundcover are dominant in wetter north-facing locations. Along mountain summits the alpine dwarf shrub tundra include willow, lingonberry, bearberry, bilberry, and mat or cushion plants such as dryas, lichen, and graminoids (Smith et al. 2004).

2.1.6 Wildlife

The Southern Lakes Ecoregion supports the most diverse mammalian population in the territory, with at least 50 out of the 60 recorded animals in the Yukon calling the region home. Dall sheep, Stone sheep, grizzly bear, wolves, coyotes, red fox, beaver, and wolverine are plentiful in this area. Elk were introduced to the ecoregion in the 1950s, and add to the ungulate population which include moose, caribou, and mule deer. The highest density of lynx in North America occurs in this ecoregion. Other species include muskrat, cougar, marten, northern flying squirrel, woodchuck, meadow jumping mouse, and little brown myotis bat, along with many others. This ecoregion also supports a large and greatly diverse avian population, including both permanent and migratory birds (Smith et al. 2004).

3.0 CULTURAL HISTORY

The following is an overview of the culture history for the broader region surrounding the study area including south-central and southwestern Yukon, and northern BC. Many researchers have reviewed the cultural history of this broader area and have presented the information using a variety of terms and temporal ranges (Clark 1981; West 1996; Workman 1978; Wright 1995, 1999).

3.1 Prehistoric Period (ca. 11,000 BP to ca. A.D. 1700s)

The earliest prehistoric occupation, which dates to early post-glacial times, is known as the Northern Cordilleran Tradition (Clark 1983; Hare 1995). The earliest Northern Cordilleran Tradition occupation known at present is a site located near Beaver Creek, dated to 10,670 radiocarbon years before present (BP) (Heffner 2002). The majority of sites associate with this tradition appear to date older than 7,000 to 8,000 BP. The Northern Cordilleran Tradition, with some overlap, predates the introduction of microlithic technology from Alaska into the interior of the central and southern Yukon (Clark 1983; Hare 1995).

The Northern Cordilleran Tradition is followed by the Little Arm Phase which dates from approximately 7,000 BP to 4,500 BP (Clark and Gotthardt 1999; Workman 1978), and can be defined by the use of microlithic technologies. After about 4,500 BP, there is less evidence of microblade use in the Yukon, and an increase in the use of notched projectile points, and a variety of scraping and carving tools, labeled the Taye Lake Phase in southwest Yukon, or more broadly in Yukon and Alaska, the Northern Archaic Tradition (Hare 1995; Workman 1978).

The most recent archaeological culture of southern Yukon is that of the Aishihik Phase (Workman 1978). This phase is thought to be a cultural development from the earlier Taye Lake culture, although there are some significant differences in technology. Key amongst these technological innovations are native copper tools, small stemmed Kavik points, end- and sidescrapers, and ground adzes (Hare 1995), but perhaps most notable is the introduction of the bow and arrow which replaced a type of throwing spear known as an atlatl as the primary hunting weapon (Hare et al. 2004). This transition from atlatl to bow and arrow technology has been clearly documented by recent finds from high elevation ice patches in the southern Yukon (Hare at al. 2004). These Aishihik Phase sites are found above the White River Volcanic ash layer (also known as Tephra) that is dated to about 1,250 radiocarbon years BP (Clague et al. 1995), and are correlated with the appearance of Athabaskan peoples who are thought to be the direct ancestors of the current Kwanlin Dün and Ta'an Kwäch'än First Nations peoples (see below).

3.2 Proto-Historic Period (A.D. 1700s to ca A.D. 1840s)

The Proto-Historic Period, as presented here, also overlaps with late Prehistoric/Athabaskan Period. It is defined by the appearance of non-native goods, other early trade items, and foreign (western or eastern) influences, but not the documented accounts of contact between indigenous North American peoples and European/Russian/Asian peoples themselves. Other indicators of the Proto-Historic Period are the arrival of the first non-native diseases and information concerning non-natives. This period spans the time between the first introduction of non-native influences or artifacts, and the recording of first hand or primary written accounts. Unlike other cultural periods with more specific temporal ranges it is difficult and perhaps impossible to determine when the first 'outside' influences of European, Russian, Asian, or other cultures began to impact First Nations people in the Yukon interior.

Some of these far reaching effects may have been passed along from Russian exploration in the early and mid-1700s (Veniaminov 1984) and other Asian and European (Andreev 1944, Quimby 1985) exploration and contact with coastal communities. The Chilkat Tlingit from the Northwest Coast travelled and traded with many interior First Nation peoples throughout this Proto-Historic Period including the Kaska and the Northern Tutchone from the Dawson and Mayo areas, and occasionally the Mountain Dene people from as far away as Fort Norman on the Mackenzie River. The Tlingit protected and controlled the trading routes into the interior and fiercely defended those routes when they were threatened. News of early non-native explorers and traders would have travelled inland along with foreign items such as metals, cloths, glass beads, and later tobacco and other goods.

In some of the earliest cases, the impacts of these foreign cultures could have had significant impacts even without the presence of the foreigners themselves. Such is the case for what is call 'drift-iron' whereby metals and other materials from Asian or European shipwreck wash ashore. Historical accounts of shipwrecks have been reported in the mid-1700s, but much earlier wrecks were possible. Metals and other foreign trade items have been derived from ship wrecks off what is now British Columbia, Southeast Alaska, and perhaps the Northwest Alaska as well.

3.3 Historic Period (post-A.D. 1840s)

The Yukon has a rich and vibrant historical background including First Nations, missionaries, fur traders, placer miners, and entrepreneurs. Mineral prospecting and mining efforts in the second half of the 19th century were largely dependent on the existing infrastructure of the fur trading and missionary efforts. As the competition for the inland fur trade grew, so would the number

of sternwheelers on the Yukon River. These steamers could better supply the small number of trading posts along the Yukon and its tributaries, and reduce the risk of prospectors running short of supplies. As a result, more of the fur traders and other explorers turned their attention to the search for gold and other minerals.

Whitehorse, although relatively young as a city, is an area of land that has been used for thousands of years by various First Nation groups as part of their seasonal round. The first outsiders used the Yukon River and its tributaries as their highways into the country. Due to the fact that First Nations people in the area preferred to travel by foot, the Westerners reported that the aboriginal population in the area was low (Dobrowolsky and Ingram 1994).

The land that is now Whitehorse became the location of a permanent settlement soon after the beginning of the Klondike Gold Rush. First Nations people would set up camps on the edges of town in order to easily access the trading opportunities and seasonal jobs packing, on boats, or at wood camps.

On the way to the gold fields from Skagway prospectors encountered a six mile stretch of treacherous water encompassing Miles Canyon and the Whitehorse Rapids (from which the city got its name). Steam boats could not navigate these waters so passengers had to make their way past the hazards on their own. Most travelers used the First Nation portage route on the east bank of the river. In 1897, Norman Macaulay created the Canyon and White Horse Rapids Tramway Company, using horse-drawn carts on log rails that ran from a short lived community upriver of Miles Canyon called Canyon City to a small tent community in the area that is now known as Riverdale (Dobrowolsky and Ingram 1994).

As the Gold Rush continued, the White Pass and Yukon Route Limited Railway Company (WP&YR) was interested in capitalizing on the situation and started planning a railway from Skagway to Fort Selkirk. The difficult terrain and effective steamboat system made them reconsider that route, and the new terminus point became Whitehorse. In October 1899, the railway company commissioned the survey of a new town site on the west bank of the river. The temporary camps on the east bank were not adequate for what they needed. WP&YR originally wanted to name the city Closeleigh after Close Brothers & Company of London (major financers of the railway), but William Ogilive decided it should be White Horse (later shortened to Whitehorse). The city was sectioned off into 17 large lots that were subsequently subdivided. The majority of the lots were owned by the WP&YR, and it was not until the 1950s that ownership of the streets was transferred to the city (Dobrowolsky and Ingram 1994).

The official opening of the railway occurred in Carcross in July 1900. In less than two years Whitehorse grew from a community of temporary camps at the foot of the rapids, to a vibrant bustling transportation town. Although the railway had a huge impact on the creation of Whitehorse, it was the shipyards that kept people employed and living in town. The British Yukon Navigation Company (BYNCo.), a sister company to WP&YR, bought out and owned almost every boat on the Yukon River, giving them a near monopoly on the transportation to Dawson (Dobrowolsky and Ingram 1994). Whitehorse was the maintenance and docking location for these boats and today's Shipyards Park is a testament to the large area of town that used to be dedicated to servicing the sternwheelers.

In 1920, the first plane landed in Whitehorse, and the WP&YR set up a Canadian air service. Planes became a regular occurrence, landing on the water, ice, and a landing strip up on the escarpment above the river valley.

As the world's attention was drawn to growing concerns in Europe in 1939, the Canadian Government began building a chain of airfields across the northwest under the Northwest Staging Route Program. Following the bombing of Pearl Harbor there was no doubt that Alaska and the Yukon would play a key role in the war, and a road needed to be built to link Alaska to the contiguous United States. It was quickly decided that the "Prairie Route" would be used, whereby key airfields would be linked from Great Falls, Montana to Fairbanks, Alaska. In February 1942, the US War Department issued the directive to begin construction. These actions spurred on the building of approximately 2,446 km of new road starting in Dawson Creek, British Columbia, up through the Yukon Territory, and ending in Fairbanks, Alaska. Whitehorse, once again, found itself the epicenter of transportation and communication for the territory. The convenient location made it easy to connect and supply materials to various communities with ease.

At the time the White Pass railway had its terminus in Whitehorse, which was halfway between Dawson Creek and Fairbanks. This helped to provide quick access to the Pacific Coast and as the main supply line, making Whitehorse the principal distribution point for supplies. In 1943 they moved 281,962 tons of freight from Skagway to Whitehorse. In addition, thousands of army troops and civilian workers were brought into Whitehorse to construct the highway, many of which stayed for a long period of time. The American government maintained this highway during WWII. Six months after the war, the portion located in Canada became the property of the Canadian government, and was then maintained by the Canadian Army for about 20 years.

Throughout the years, Whitehorse has proven to be a city able to adapt to the needs of the people who live there and the territory as a whole. It was incorporated as a City in 1950 and in 1953 was named the capital of the Yukon (transferred from Dawson City; Yukon Info 2012). The community has held on to its historical roots, and there are a vast number of historical buildings, walking tours, and museums in town.

3.4 Modern First Nations

The Study Area is located within the traditional territory of the Kwanlin Dün First Nation and the Ta'an Kwäch'än Council. Both groups are affiliated with the Southern Tutchone Tribal Council. In the past, the Tutchone peoples were highly mobile, travelling in small groups in order to exploit the greatest number of resources. They would modify their movements depending on the patterns of large game animals and fish, or in later years to trade their furs with Westerners. All Tutchone followed the same basic seasonal cycle. In the summer, small domestic units gathered together to catch fish so that they could dry and store it for the winter months. By mid-summer several family groups moved upland together in order to kill large game mammals that they would dry and store in caches scattered in a variety of areas. From there some units may move away independently during the coldest months to trap and live off of the cached foods. By late winter, people would disperse again in order to harvest game to meet their needs till the spring. The leanest months were March and April. Several units often came together at this point to catch spawning whitefish or trap muskrat and beaver. May was the most plentiful month, with migrating waterfowl, fat ground squirrels, larger and more abundant fish, as well as the arrival of the Coastal Tlingit traders (McClellan 1981).

The principal ethnographic descriptions of the Tutchone are available in Cruikshank (1974, 1975), Johnson and Raup (1964), McClellan (1950, 1964, 1970a, 1970b, 1975), and Tanner (1966). Additional information on camp and village locations can be found in Schwatka (1885). Although no villages were inhabited year-round, people would return to good fishing and/or hunting spots year after year. This would eventually change with the influence of Westerners. During the summer months, Tutchone people preferred to walk overland, rather than brave the sudden winds on the large lakes or the treacherous river rapids. Watercraft were constructed for use, but were not the preferred method of transport.

The Kwanlin Dün First Nation takes its name from the waterway now referred to as Miles Canyon. Their ancestors called the area Kwanlin, meaning “running water through canyon”. The heart of their traditional territory is the Whitehorse area, and the Nation as a whole is comprised of multiple bands. The first recorded interaction between Kwanlin Dün First Nation individuals and

Westerners was in the 1880s in reference to the portage route around the Whitehorse Rapids and Miles Canyon (Kwanlin Dün First Nation 2012). A comprehensive collection of the bibliographic references and basic chronology was compiled by Dobrowolsky, Lindsay, and Jim for the Kwanlin Dün First Nation in 1996.

The Ta'an Kwäch'än take their name from Tàa'an Män (now known as Lake Laberge) which is the central focus of their traditional territory. Their lands extended north to Hootalinqua, south to Marsh Lake, west to White Bank Village (confluence of Takhini and Little Rivers), and east to Winter Crossing on the Teslin River (Ta'an Kwäch'än Council 2008). In 1956 the Department of Indian Affairs joined six bands into three, creating what is today the Kwanlin Dün First Nation. In 1987, the Ta'an Kwäch'än reestablished themselves as a distinct First Nation, and were declared independent of the Kwanlin Dün by the Council of Yukon first Nations in 1987, followed by the Department of Indian Affairs in 1998.

3.5 Previous Heritage Investigations

Consultation with staff at Yukon Heritage revealed that no previous heritage resource studies have investigated lands within the proposed project area and that no heritage resource sites are known within or near the proposed project area boundaries.

4.0 METHODOLOGY

4.1 Field Methodology

Ecofor staff assessed the proposed HRIA survey locations for heritage resources through a combination of pedestrian survey, aerial survey, and shovel testing. Fieldwork was completed by a field crew of three to four individuals, including two Ecofor archaeologists (one senior archaeologist/permit holder and one experienced field archaeologist) and First Nations representatives from KDFN and/or TKC. Access to the study area was gained by helicopter.

During the field survey, areas of perceived high heritage resource potential were transected at intervals of approximately 5 m to 15 m with shovel tests being excavated approximately 5 m to 15 m apart in areas deemed to have potential for subsurface heritage resources. Shovel tests were at least 35 cm by 35 cm, and were excavated with shovel and trowel as needed into sterile sub soils. All excavated sediments were screened through ¼ inch mesh. The stratigraphic profile of typical shovel tests in each testing area was recorded and photographed. All shovel tests were backfilled and returned to as close to natural conditions as possible. All assessed areas were photographed and documented with GPS tracks.

If surface finds or subsurface cultural materials were identified, additional shovel testing would have been conducted to assess the vertical and horizontal limits of the site, and to recover a sample of the material culture to assist in the assessment of the site use and cultural affiliation. Once the spatial extent was determined, the site area would have been sketched, photographed, described in detail, and flagged with a 30 m buffer, however, because no heritage resources were observed during this HRIA, no site recording methods were employed.

5.0 RESULTS

Assessment efforts were concentrated in two areas that have potential to be impacted by the proposed 2016 exploration program: the proposed primary camp site and the 2016 exploration area (see mapping in Appendix A). A third area (Photo 1), the proposed alternate camp area, was deemed to be unsuitable for a camp by Heather Burrell of Archer, Cathro & Associates (1981) Limited during helicopter reconnaissance of the area, and it was removed from the proposed project plan. The details of the HRIA efforts at the proposed primary camp site and the 2016 exploration area are summarized below.

5.1 Proposed Primary Camp Location – STL 1

The proposed primary camp location is located in the valley bottom north of the 2016 exploration area alongside a small creek (approximately 2-3 m across) that flows eastward to the M'Clintock River (see Appendix A – Figures 1, 2, and 3). The camp area is limited to the south side of the creek, and should have a footprint of less than 100 m^2. Lands on the south side of the creek are generally flat and featureless, with a poorly defined terrace above the creek (Photo 2).

Pedestrian survey was conducted throughout the proposed primary camp location, but due to the lack of well-defined landforms suggestive of elevated heritage resource potential, shovel testing was limited to the area immediately adjacent to the creek on two microtopographical rises separated by a low drainage/swampy area (Photo 3; see Appendix A – Figure 3). Sediments observed in these shovel tests were composed of brown clayey silts with increasing pebbles and cobbles with depth sitting atop glacial sediments that were dominated by large cobbles (Photo 4). The maximum depth reached was approximately 40 cm before large cobbles stopped digging efforts. In total, 13 shovel tests were excavated within the proposed primary camp location (see Appendix A – Figure 3). All shovel tests were negative for heritage resources.

5.2 2016 Exploration Area

The 2016 Exploration Area includes the majority of a mountain with a high, east-west running ridgeline at its summit that runs between two distinct peaks (Photo 5; see Appendix A – Figures 1, 2, and 4). The southern face of the mountain is covered in lichens and grasses with some rocky outcrops and boulders, and slopes down from the summit steadily into a deep valley (Photo 6). The slope is constant, with no defined benches or terraces suggestive of elevated heritage resource potential. The terrain on the northern face of the mountain is steeper than that on the south face; mostly bare rock with vertical rock faces and areas of colluvial boulder fields (Photo 5). However, at their base these steep rock faces and boulders fields give way to a glacial cirque

landform that holds a small lake and offers a terrace at its terminal moraine that offers a commanding view of the valley below (Photo 7 and Photo 8). Two outlet channels were observed running out of the cirque (Photo 9 and Photo 10), but they are located high above the current lake level and appear to have been dry for some time (several trees approximately 10-15 years old were observed growing below the outlet level (Photo 11)). Several claim cairns and signs of past surveying work (e.g. weathered stakes) were the only cultural materials observed on the moraine (Photo 12, Photo 13, and Photo 14).

The terminal moraine is undulating and rocky, but several high points along its length were found to be suitable for shovel testing (see Appendix A – Figure 4). Sediment profiles encountered in these shovel tests were variable. The majority were shallow and rocky, as expected on a moraine feature (Photo 15). Sediments in some areas along the moraine, especially near the eastern end, are heavily deflated (Photo 16). However, some profiles, particularly those located in areas that act as sediment traps for slope wash, had deposits of brown silt up to 45 cm thick atop the rocky glacial sediments that form the base of the landform (Photo 17 and Photo 18). Lands surrounding the small cirque lake sloped steeply into the lake, leaving no good areas for shovel testing around the lakeshore (Photo 19). In total, 48 shovel tests were excavated along the terminal moraine within the 2016 exploration area (see Appendix A – Figure 4). All shovel tests were negative for heritage resources.

In addition to the shovel tested area within the 2016 exploration area, the high mountain-top ridgeline running between the two peaks at the east and west ends of the mountain were inspected first by helicopter fly-by, then on foot for heritage resources and/or potential perennial ice patches (see Appendix A – Figure 2; Photo 20). Cultural materials on the ridgeline were limited to a claim cairn, weathered survey stakes, and one small piece of saw cut highly weathered bone (Photo 21). That said, there was abundant evidence of caribou using the ridgeline in the form of shed antlers, droppings, and footprints (Photo 22). Several patches of snow were present in more sheltered areas along the ridgeline, but they do not appear to be perennial ice patches (Photo 23). No heritage resource materials or perennial ice patches were observed along the ridgeline.

Additional information regarding traditional use of lands in the 2016 exploration area was gained during a brief conversation with Ann Smith, an elder and former chief of the Kwanlin Dün First Nation, who was on site for a short site visit. She related stories about camping in the area as a child, but felt that lands within the 2016 exploration area were not suitable for camping because they are too windy and lack abundant firewood and easy access to water. She indicated that her family would instead camp farther west in lower portions of the valley and closer to the proposed

primary camp location, but would occasionally visit areas analogous to the 2016 exploration area while hunting or gathering medicine.

6.0 SUMMARY AND RECOMMENDATIONS

On behalf of Archer, Cathro & Associates (1981) Limited, working as agents for Strategic Metals Ltd., Ecofor Consulting Ltd. conducted a Heritage Resource Impact Assessment (HRIA) for the Hartless Joe Quartz Mineral Claim exploration project (see Appendix A). Three localities within the greater Hartless Joe Quartz Mineral Claim footprint were assessed during this study: the 2016 exploration area, a proposed primary camp location, and a proposed alternate camp location.

Pedestrian survey was conducted throughout all portions of the 2016 exploration area and the proposed primary camp location. **Because it was deemed to be unsuitable as a camp location and removed from the project plan, the proposed alternate camp location was not assessed and no recommendations for those lands are made in this report.**

The majority of lands within the 2016 exploration area were found to be steeply sloping, rocky, and very low potential for heritage resources. Exceptions to this trend were found along the terminal moraine of a cirque landform, where suitable shovel testing areas were present, and along a high ridgeline between the east and west peaks of the mountain where potential was inferred for heritage features like hunting blinds and perennial ice patches. These areas were tested and/or walked, but no heritage resources were observed. Therefore, **no further heritage resource work is recommended in regard to the current work being proposed within the 2016 exploration area.**

Lands within the proposed primary camp location were also found to have limited potential for heritage resources, with the one exception of those lands immediately adjacent to a small creek that flows through the valley. The poorly-defined terrace above the creek was shovel tested, but no heritage resources were observed. Therefore, **no further heritage resource work is recommended in regard to the proposed primary camp location.**

If future exploration work is planned on lands within the greater Hartless Joe Quartz Mineral Claim area that were not assessed during this study those new areas are also required to be reviewed for possible impacts to heritage resources.

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APPENDIX A: Project Mapping

513000 513600 514200 514800 515400 516000 516600 517200 517800 518400

6753400 6752800 6752200 6751600

TKC R-1A
Ta'an Kwach'an Council
10R-01A

STL 1

STL 2

STL Area	Zone	Easting	Northing	Total (+) Tests	Total (-) Tests	Landform	Landform Size (m)	Site Type & Recommendation	Waypoints
Proposed Camp: STL 1	8V	515970	6753456	0	13	Two slight rises above creek bank	Eastern rise ~35 m; western rise ~30 m	No site; no further work	HJ 041-HJ -53
Exploration Area: STL 2	8V	517357	6753536	0	48	Relict terminal moraine; shovel testing conducted on a series of small knolls along the moraine	Moraine is ~650 m long; width of tested knoll-tops ranges from 5-15 m	No site; no further work	HJ 001-HJ 040; HJ 054-HJ 061

513000 513600 514200 514800 515400 516000 516600 517200 517800 518400

ARCHER CATHRO

FIGURE 2
SUBSURFACE TEST LOCATION OVERVIEW
HARTLESS JOE

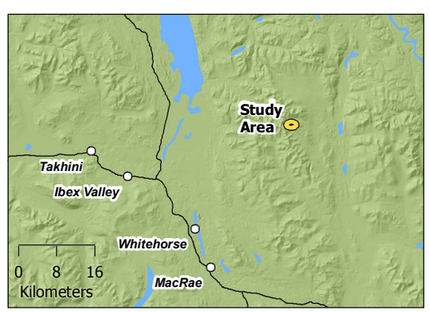
N

1:15,000

0 200 400 600m

NAD 1983 UTM Zone 8N
NTS MAPSHEET: 105D/15

Disclaimer:
This product is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. The base data layers have been obtained from the National Topographic Database (NTDB), and GeoYukon.



Base Features
- Contour (100 ft)
- Watercourse
- Waterbody
- Wetland

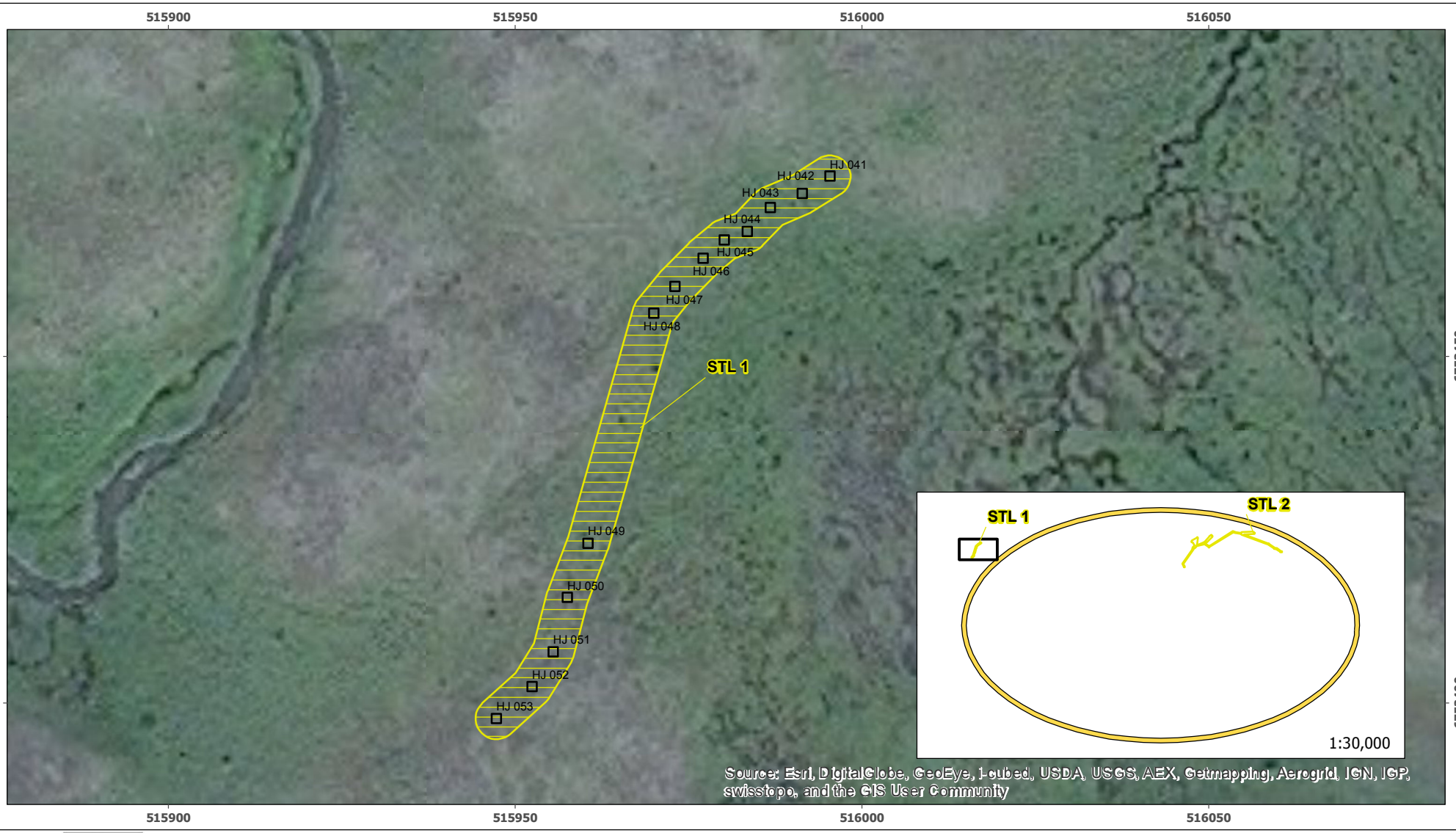
Land Use
- Settlement Lands

Assessment Features
- Primary Camp Location
- Secondary Camp Location
- Subsurface Test Location (STL) — STL 1
- STL Boundary
- Claim Boundary
- Proposed Work Area
- Assessed Area

ECOFOR
natural and cultural resource consultants

Ecofor Consulting Ltd. Date: July-14-16 (MM)

EPN:	2016-1181-001
Claim Area:	1594 ha
Easting:	516394
Northing:	6752861



ARCHER CATHRO

FIGURE 3
HARTLESS JOE STL 1 DETAIL

ECOFOR
natural and cultural resource consultants

Ecofor Consulting Ltd. Date: July-13-16 (MM)

N

1:800

0 10 20

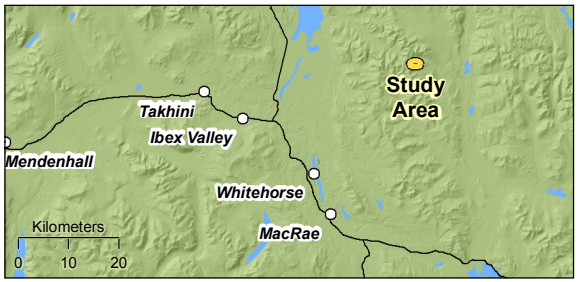
Meters

NAD 1983 UTM Zone 8N
NTS MAPSHEET: 105D/15

2016 Exploration Area

STL Boundary

Negative Test Location



Disclaimer:
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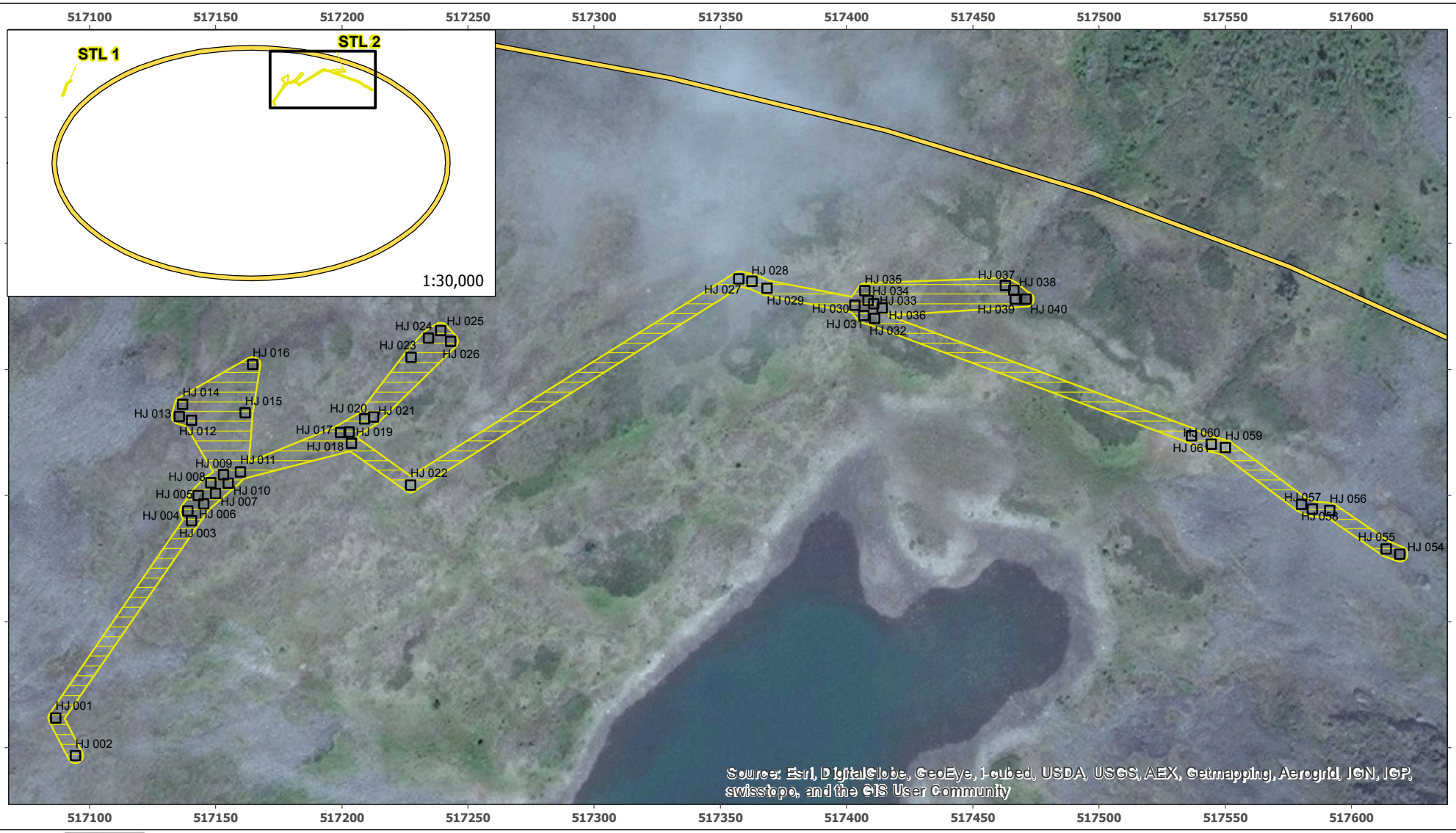


FIGURE 4

HARTLESS JOE STL 2 DETAIL

ECOFOR natural and cultural resource consultants

Ecofor Consulting Ltd. Date: July-13-16 (MM)

N

1:2,200

0 20 40

Meters

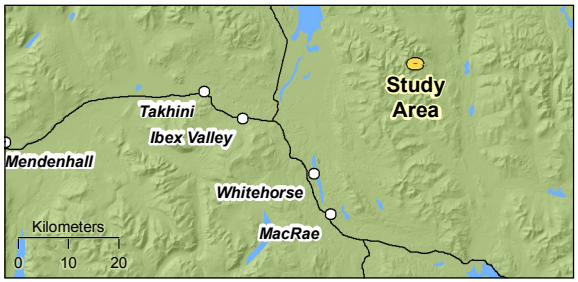
NAD 1983 UTM Zone 8N

NTS MAPSHEET: 105D/15

2016 Exploration Area

STL Boundary

Negative Test Location



Disclaimer:

This product is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. The base data layers have been obtained from the National Topographic Database (NTDB), and GeoYukon.

APPENDIX B: Photographs

ECOFOR
natural and cultural resource consultants

Archaeological Survey Photodocumentation

Permit: 16-21ASR **Development Area:** Hartless Joe Quartz Mineral Claim

Client: Archer, Cathro & Associates (1981) Limited **Date:** January 16, 2017

Photo 1: Alternate camp area.

Photo 2: View S of proposed primary camp location.

Photo 3: View E of proposed primary camp location across low drainage area.

Photo 4: Typical shovel test at STL 1.

Photo 5: 2016 Exploration Area – north face.

ECOFOR
natural and cultural resource consultants

Archaeological Survey Photodocumentation

Permit: 16-21ASR **Development Area:** Hartless Joe Quartz Mineral Claim

Client: Archer, Cathro & Associates (1981) Limited **Date:** January 16, 2017

Photo 6: View east showing terrain on south face of mountain in 2016 Exploration Area.

Photo 7: View SW to cirque landform and small lake.

Photo 8: View NE to cirque landform and small lake.

Photo 9: View N along easternmost outlet channel.

Photo 10: View N along westernmost outlet channel.

Photo 11: Trees near small lake below the level of the outlet channels.

ECOFOR
natural and cultural resource consultants

Archaeological Survey Photodocumentation

Permit: 16-21ASR **Development Area:** Hartless Joe Quartz Mineral Claim

Client: Archer, Cathro & Associates (1981) Limited **Date:** January 16, 2017

Photo 12: Claim cairn on terminal moraine of cirque.

Photo 13: Second claim cairn on terminal moraine of cirque.

Photo 14: Weathered survey stakes on terminal moraine of cirque.

Photo 15: Typical shallow, rocky shovel test in STL 2.

Photo 16: Deflated sediments on terminal moraine of cirque landform.

Photo 17: Typical deep shovel test in STL 2.

ECOFOR
natural and cultural resource consultants

Archaeological Survey Photodocumentation

Permit: 16-21ASR **Development Area:** Hartless Joe Quartz Mineral Claim

Client: Archer, Cathro & Associates (1981) Limited **Date:** January 16, 2017

Photo 18: Cobbles removed from single ~35 cm deep shovel test in STL 2.

Photo 19: Sloping lakeshore.

Photo 20: Ridgeline atop mountain in 2016 Exploration Area.

Photo 21: Claim cairn atop highest peak on mountain in 2016 Exploration Area.

Photo 22: Snow patch atop ridgeline with caribou footprints.

Photo 23: Snow atop ridgeline – not expected to last through the summer.

APPENDIX C: Field Notes

Hartless Joe HRIA

Hartless Joe June 28

First heli drop was up by pond after both fly around. Mountains are bigger than I anticipated

Break in slope to valley floor is gradual, but several small knolls are present

Pic wpt 1 →
Pic 728 N
729 E
730 S
731 W
} Overviews from Pic Wpt 1

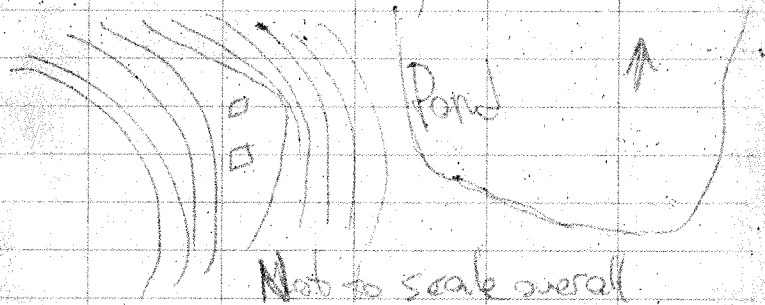
Pic Wpt 2 →
Pic 732 E
733 N
734 S
735 W
} Overviews from Pic Wpt 2

J.L. DARLING CORP. TACOMA, WA
www.RitesintheRain.com

Pic 734 } STL 1 s/t
737 }
738 STL 1 overview

STL 1

Wpts 1 + 2 – Only 2 s/t
Very small flat spot above pond
Just 2 quick tests to check sediments + train on digging technique



Not to scale overall

STL 2

Located on elevated ridge between main valley + pond
gently slopes down to E toward middle of terrace landform above main valley. Boulder field between STL + slope of main valley. Had a single caribou visit us + found a shed antler confirming the hunting potential of the area

J.L. DARLING CORP. TACOMA, WA
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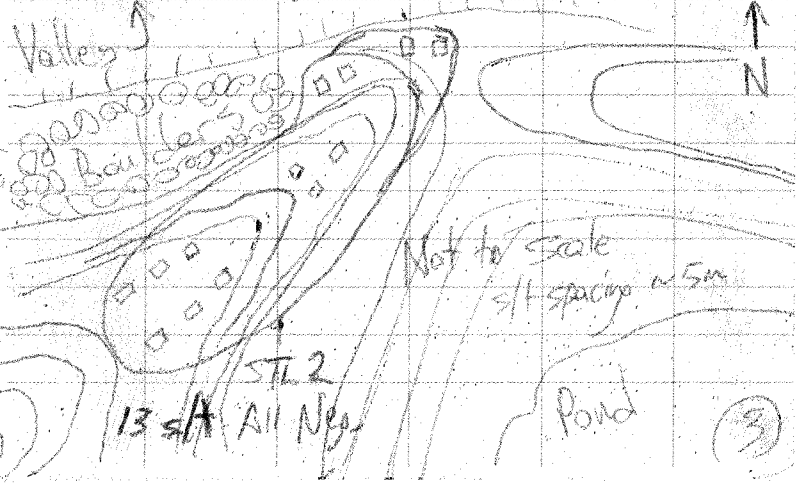
Pic 739 } Caribou from above STL 2
743 } likely E

Pic 744 } STL 2 s/t
745 }
746 – 747 – cobbles from STL 2 s/t

0-3 cm Moss ground cover
3-8 cm Organic with roots (grass)
8-20 cm Brown silt with pebbles
20-45 cm Brown silt with large cobbles + pebbles

Potential mostly limited to upper layers
↳ Not likely to find anything deeper down



Not to scale
s/t spacing ~5m

13 s/t All Negs

Pic 748 N
749 E
750 NE
751 S
752 W
} Overview of STL 2
→ Pic 750 shows boulder field

Pic 753 - Old claim cairn below STL 2 near STL 3 - Claim Cairn 1

Pic 754 E Two small knolls at edge of STL 2 overlooking valley

Brief visit with KDFN elders on site
↳ Ann Smith says area near pond is too windy for camping, but could be good hunting area

Pic 754
755
} s/t on knoll at N end of STL 2

0-5cm Organic with grass roots
5-25cm Sticky brown clayey silt
25-30cm Cobbles in brown silt matrix

(4)

Pic 756 E
757 W
} View across knoll at N end of STL 2

Richard Madaras (KDFN for Wed)
867-336-8737

Pic 758 - Claim Cairn 2

Pic 759 N
760 E
761 S
762 W
} Over view of knoll with s/t's 17-21

Pic 763 S To ridge/terrace overlooking pond

Pic 764 W To s/t 22
765 S To pond from s/t 22

Pic 766 SE Pond

Pic 768
769
} Typical s/t in the s/t 23-26

0-5cm Deflated gravel + moss
5-30cm Brown silt w/ large cobbles + scattered pebbles
30-35cm Olive/Brown silt/cobbles

(5)

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Pic 769 → N
770 E
771 S
772 W
} Overview of s/t's 23-26

Pic 773
774
~~775~~
} ft in s/t 27-29

0-5cm Organic with moss
5-18cm Dark silty loam with cobbles
18-30cm Reddish brown silt with large cobbles
↳ Cobbles stopped digging

Pic 775 → N
776 E
777 S
778 W
} Overview of s/t 27-29 Area

Pic 779
780
781
} s/t in s/t 30-35 Area
↳ Profile the same as at s/t 27-29

(6)

Pic 782 → N
783 E
784 S
785 W
786 — All survey stakes
} Overview of area with s/t's 30-35

Pic 787
788
} s/t 40

0-3cm Root Mat
3-25cm Brown silt with pebbles
25-40cm Brown silt w/ large cobbles & pebbles

~~[illegible]~~

Pic 789 → N
790 E
791 S
792 W
} Overview of s/t 37-40 Area

Pic 793 → N
794 S
795 N
796 S
} Outlet stream for pond
} wpt pond outlet
} second drainage outlet
} wpt POND OUTLET 2

(7)

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June 29

Hartless Joe Primary camp

Camp site is located on a flat plain beside the creek. Area is flat & featureless except for a small terrace above the creek. Camp will be located on south side of creek & quite small scale: 3 platform wall tents, a few wall tents directly on the ground. Flat area means no need to construct a heli pad. Area required is < 100 x 100 m. Camp area is basically treeless with grasses, sedges, moss, & small shrubs. Two small elevated areas along creek separated by a low drainage channel will be tested

Pic 798, 799 } s/t 41 profile - E knoll

0-5 cm Organic w/ roots
5-25 cm Brown silt w/ cobbles & pebbles
25-35 cm Cobbles & pebbles in silty matrix
High clay content in silt

(8)

Proposed campsite 2

[redacted] 515000 mE
6751000 mN

Pic 800 N, 801 E, 802 E, 803 S, 804 W } Overview of primary camp site
→ Pic 802 shows creek

Pic 829, 830 } s/t 49 - W knoll

0-3 cm Organic w/ roots
3-10 cm Brown clayey silt
10-30 cm Gravel & pebbles in brown silt

12 s/t total at primary camp site - All Negative

(9)

Ridge Fly Over

Did slow pass fly overs of the ridge line atop the mountain
↳ No cultural signs observed except for some old survey stakes
↳ Will still walk ridge at end of day if time allows

~~Secon~~

Pic 805 ↓ 814 } Ridge Fly Over

815 — E to M'Clintock Lakes

816 ↓ 819 } Fly Over of Pond Area

820 ↓ 822 } More ridge fly over

823 } Pass into Secondary
824 } camp location

(10)

No. 312
No. 314

Secondary Camp Location

Heather Burrell took one look at proposed secondary camp location + ruled it out as a suitable spot due to a lack of water
↳ Creek was dry
↳ As such no testing was conducted
↳ If testing was conducted it would likely be limited to a terminal moraine at the end of the valley but that area would likely not be impacted by the camp anyway

Pic 825 ↓ 828 } Fly over of proposed secondary camp location

Did not even land heli at secondary camp since HB ruled it out as a suitable camp location

(11)

Eastern Knolls by Pond

Knoll closest to mountain is just a thin layer of silt covering colluvium. Large angular rocks encountered immediately below masses of sedges & wild flowers. Two shovel tests attempted, but colluvium stopped digging efforts quite shallow. Max depth was ~15cm

Pic 831 W from wpt 55 at base of mountain

Sediments on second knoll from mountain (S/T's 56-58) also had thin sedimentation atop large cobbles & gravels. Rocks became too packed for digging by ~15cm

Pic 832 - S/T at wpt 58 showing rocks

Pic 833 Deflated sediments on knoll top at wpt 60
→ Some sediment remains under gravels, but tests were shallow with increasing cobbles with depth

Pic 834 More deflation near wpt 61

Mountain Ridge

Pic 835 Claim cairn → at highest point

836 Highest point NE to pond

837 Ice patch near highest point

838 View to pond from small Ice patch wpt.

839 } Caribou Ice Patch
840 }

Plenty of caribou shit on top of mountain ridgeline

APPENDIX IV

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K282851	UTM:	516661 mE	Nad83, Zone 8	
Elevation:	1569 m	UTM:	6753520 mN		
Comments:	TRENCH TR-03, hanging wall, 1.9m chip sample of rusty weathering, chlorite-altered, well-bedded volcanic mudstone, hosting disseminated pyrite.				

Sample Number:	K282852	UTM:	516546 mE	Nad83, Zone 8	
Elevation:	1524 m	UTM:	6753501 mN		
Comments:	TRENCH TR-01, 2.5m chip sample of chlorite altered, black pyritic shale.				

Sample Number:	K282853	UTM:	516546 mE	Nad83, Zone 8	
Elevation:	1524 m	UTM:	6753499 mN		
Comments:	TRENCH TR-01, 2.5m chip sample of rock with the same lithology as sample K282852.				

Sample Number:	K282854	UTM:	516547 mE	Nad83, Zone 8	
Elevation:	1526 m	UTM:	6753507 mN		
Comments:	TRENCH TR-01, 5m chip sample of brown-weathering, chlorite+carbonate-altered, medium grey-green pillow basalt, with rare disseminated fine grained pyrite.				

Sample Number:	K282855	UTM:	516544 mE	Nad83, Zone 8	
Elevation:	1521 m	UTM:	6753507 mN		
Comments:	TRENCH TR-01, 2m chip sample of rock with the same lithology as sample K282852.				

Sample Number:	K282856	UTM:	516542 mE	Nad83, Zone 8	
Elevation:	1519 m	UTM:	6753508 mN		
Comments:	TRENCH TR-01, 2m chip sample of rock with the same lithology as sample K282852.				

Sample Number:	K282984	UTM:	517275 mE	Nad83, Zone 8	
Elevation:	1723 m	UTM:	6752817 mN		
Comments:	Outcrop sample of orange-red jasperoid with an unknown orientation.				

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K282985	UTM:	517424 mE	Nad83, Zone 8	
Elevation:	1714 m	UTM:	6752852 mN		

Comments: Outcrop sample of orange weathering quartz, with small patches and sub-mm stringers of limonite. No sx. Collected from a ~15cm wide horizon/vein.

Sample Number:	K282986	UTM:	517581 mE	Nad83, Zone 8	
Elevation:	1728 m	UTM:	6752907 mN		

Comments: Outcrop sample of orange weathering, brecciated quartz-carbonate, containing rare clots of py.-cpy.-gal. and dark green clasts of volcanic mudstone? Collected from a ~10cm wide horizon, between a brecciated mudstone footwall and a brecciated mudstone and jasperoid hangingwall.

Sample Number:	K282987	UTM:	517605 mE	Nad83, Zone 8	
Elevation:	1719 m	UTM:	6752904 mN		

Comments: Outcrop sample of orange+rusty weathering quartz, with rare clots of py. + lesser cpy. and goethite, and a platey/smeared dark blue-steel mineral (like molybdenite but darker). Collected from a ~25cm wide horizon/vein, within a mudstone footwall and mudstone hanging wall.

Sample Number:	K282988	UTM:	517668 mE	Nad83, Zone 8	
Elevation:	1717 m	UTM:	6752971 mN		

Comments: Outcrop sample of orange weathering banded quartz-carbonate with sparse euhedral f.g. to c.g. py. Collected from a ~50cm wide horizon/vein (that forks into two ~10-15cm horizons immediately to the NE). Pale green mudstone hangingwall and footwall. Probably an extension from horizon sampled @ K282987.

Sample Number:	K288967	UTM:	516517 mE	Nad83, Zone 8	
Elevation:	1526 m	UTM:	6753496 mN		

Comments: Float grab of punky, orange-brown to pale yellow-green (scorodite?) weathering cobble of massive silvery pyrite(?). Fairly abundant. No rep.

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K288968	UTM:	516595	mE	Nad83, Zone 8
Elevation:	1538 m	UTM:	6753517	mN	

Comments: Float grab of rock with the same lithology as sample K288967.

Sample Number:	K288969	UTM:	516600	mE	Nad83, Zone 8
Elevation:	1543 m	UTM:	6753518	mN	

Comments: 2m vertical chip sample, adjacent to a vertical fracture/structure. Top metre comprises silicified thin-bedded medium grey-green volcaniclastic(?), which is weakly minerallized with disseminations and thin wisps of fine grained pyrite; bottom metre consists of orange-brown to pale yellow-green weathering, dark green-black chlorite-altered volcaniclastic(?) with disseminated pyrite throughout. Lots of goethite on fracture surfaces.

Sample Number:	K288970	UTM:	516605	mE	Nad83, Zone 8
Elevation:	1586 m	UTM:	6753473	mN	

Comments: Float grab of quartz-carbonate healed breccia, with matrix-supported angular clasts of medium grey-green volcaniclastic, hosting sparse fine grained pyrite and very fine grained epidote on fracture surfaces.

Sample Number:	K288971	UTM:	516659	mE	Nad83, Zone 8
Elevation:	1552 m	UTM:	6753513	mN	

Comments: Outcrop sample of quartz-flooded fine grained volcanic(?), weathering orange-brown to yellow-green, fresh medium grey, with pockets of live limonite and sparse fine grained masses of galena and pyrite. Appears to be the footwall to the exhalative silica horizon. No rep.

Sample Number:	K288972	UTM:	516718	mE	Nad83, Zone 8
Elevation:	1572 m	UTM:	6753499	mN	

Comments: Float grab of orange-weathering banded quartz, with bands of fine grained galena and masses of fine grained pyrite throughout. Very close to source.

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K288973	UTM:	516511 mE	Nad83, Zone 8	
Elevation:	1601 m	UTM:	6753347 mN		
Comments:	Outcrop sample of exhalative silica loaded with fine to coarse grained pyrite and very fine grained dark black magnetite athroughout. Collected from a ~15cm wide horizon. (There are much larger boulders down slope).				

Sample Number:	K288974	UTM:	516752 mE	Nad83, Zone 8	
Elevation:	1530 m	UTM:	6753538 mN		
Comments:	Float grab of a rock with the same lithology as sample K288972. No rep.				

Sample Number:	K288975	UTM:	516893 mE	Nad83, Zone 8	
Elevation:	1557 m	UTM:	6753526 mN		
Comments:	Outcrop sample of well-bedded (cm-scale beds) orange weathering ferroan limestone, with primary sedimentary textures, from a ~2m bed.				

Sample Number:	K288976	UTM:	516969 mE	Nad83, Zone 8	
Elevation:	1516 m	UTM:	6753552 mN		
Comments:	Subcrop sample of rock with the same lithology as sample sample K288975, but with rare fine grained pyrite. (Rock is notably heavy).				

Sample Number:	K288977	UTM:	517025 mE	Nad83, Zone 8	
Elevation:	1630 m	UTM:	6753062 mN		
Comments:	Outcrop sample of orange-weathering, limonitic, banded quartz exhalite with bands of fine grained pyrite and galena, clots of fine to medium grained pyrite, rare encrusting malachite and seams of sooty black mineralization. Slightly magnetic. Collected from a ~10cm horizon, overlain by thin-bedded volcanic sediments and underlain by trachyite sill? Bedding: 206/25W				

Sample Number:	K288978	UTM:	517019 mE	Nad83, Zone 8	
Elevation:	1630 m	UTM:	6753074 mN		
Comments:	Outcrop sample of rock with the same lithology as sample K288977, from a ~10cm wide horizon.				

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K288979	UTM:	516995 mE	Nad83, Zone 8	
Elevation:	1624 m	UTM:	6753104 mN		
Comments:	Outcrop sample of a 15 cm wide quartz-carbonate horizon, weathering tan to pale green, containing a 2 cm wide band of silica, with sparse wisps of medium grained galena and pyrite, and disseminated medium grained pyrite throughout.				
Sample Number:	K288980	UTM:	516988 mE	Nad83, Zone 8	
Elevation:	1625 m	UTM:	6753119 mN		
Comments:	Outcrop sample of banded silica with up to 10% live limonite and fine grained sulphide mineralization, with the same lithology as sample K288977, collected from a ~10 cm wide horizon.				
Sample Number:	K288981	UTM:	516975 mE	Nad83, Zone 8	
Elevation:	1626 m	UTM:	6753142 mN		
Comments:	Subcrop sample of orange-weathering (stockwork?) quartz-carbonate with sparse clots of fine grained pyrite.				
Sample Number:	K288982	UTM:	517029 mE	Nad83, Zone 8	
Elevation:	1671 m	UTM:	6752985 mN		
Comments:	Outcrop sample of a ~20 cm wide quartz-carbonate horizon, weathering orange, with wisps of limonite and sparse disseminated pyrite throughout. No rep.				
Sample Number:	K288983	UTM:	516532 mE	Nad83, Zone 8	
Elevation:	1618 m	UTM:	6753348 mN		
Comments:	Outcrop sample of orange-brown weathering, pale grey silica with goethite and limonite on fracture surfaces and very fine grained disseminated pyrite throughout. Collected from a ~10cm wide seam with an orientation of 092/75S. No rep.				
Sample Number:	K288984	UTM:	516480 mE	Nad83, Zone 8	
Elevation:	1591 m	UTM:	6753350 mN		
Comments:	Outcrop sample of pale yellow weathering, light grey, pocky sponge-like silica with mediumg grained disseminated pyrite throughout. Collected from a narrow ~3cm seam that is parallel with the flow direction of the surrounding basalt. Approximately 30% of the material is sulphide. No rep.				

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K288985	UTM:	516500 mE	Nad83, Zone 8	
Elevation:	1582 m	UTM:	6753363 mN		
Comments:	Float grab of a rock with the same lithology as sample K288973, likely sourcing from the same area. Collected from a 30 x 30 x 60 cm boulder.				

Sample Number:	K288986	UTM:	516856 mE	Nad83, Zone 8	
Elevation:	1677 m	UTM:	6753181 mN		
Comments:	Outcrop sample of brecciated and banded quartz vein through basalt, with sparse very fine grained pyrite along selvages. Approximately 30 cm thich, with an orientation of 244/32NE.				

Sample Number:	K288987	UTM:	516867 mE	Nad83, Zone 8	
Elevation:	1677 m	UTM:	6753179 mN		
Comments:	Float grab of a rock with the same lithology as sample K288972. Possibly sourcing from K288986 vein. Collected in the middle of a scree slope. No rep.				

Sample Number:	K288988	UTM:	517031 mE	Nad83, Zone 8	
Elevation:	1665 m	UTM:	6753003 mN		
Comments:	Float grab of orange-weathering coarse quartz with rare disseminated very fine grained pyrite and lesser galena. Collected in a talus slope.				

Sample Number:	K288989	UTM:	517161 mE	Nad83, Zone 8	
Elevation:	1701 m	UTM:	6752851 mN		
Comments:	QUEEN SHOWING: Hanging wall, top 1.2m vertical chip sample of wavy-bedded, pale grey-green, limey volcanic mudstone, with narrow seams of rare very fine grained chalcopyrite on bedding surfaces and a 6cm wide quartz-carbonate vein containing sparse fine grained galena and pyrite.				

Sample Number:	K288990	UTM:	517161 mE	Nad83, Zone 8	
Elevation:	1702 m	UTM:	6752852 mN		
Comments:	QUEEN SHOWING: 40cm vertical chip sample across a rusty weathering coarse quartz vein(?) with clots of very fine to fine grained galena and chalcopyrite, rare malachite. Orientation of 024/28 E				

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K288991	UTM:	517160 mE	Nad83, Zone 8	
Elevation:	1703 m	UTM:	6752853 mN		
Comments:	QUEEN SHOWING: Footwall, 1.1m vertical chip sample of a pale grey, carbonate-altered, feldspar porphyry dyke(?)				

Sample Number:	K288992	UTM:	517161 mE	Nad83, Zone 8	
Elevation:	1706 m	UTM:	6752855 mN		
Comments:	QUEEN SHOWING: Footwall, 90cm vertical chip sample of chlorite-altered, weakly foliated basalt.				

Sample Number:	K288993	UTM:	516579 mE	Nad83, Zone 8	
Elevation:	1534 m	UTM:	6753515 mN		
Comments:	TRENCH TR-02: Hanging wall, 1.7m vertical chip sample of medium brown weathering, medium grey, sericite-altered well-bedded volcanic breccia and mudstone, with rare disseminated fine grained pyrite.				

Sample Number:	K288994	UTM:	516579 mE	Nad83, Zone 8	
Elevation:	1535 m	UTM:	6753515 mN		
Comments:	TRENCH TR-02: Hanging wall, 75cm vertical chip sample of wavy-bedded, pale grey-green, limey volcanic mudstone(?) with quartz-carbonate veinlets throughout and sparse clots of fine grained pyrite and lesser chalcopyrite.				

Sample Number:	K288995	UTM:	516578 mE	Nad83, Zone 8	
Elevation:	1535 m	UTM:	6753515 mN		
Comments:	TRENCH TR-02: 50cm vertical chip sample of banded orange-weathering quartz, with bands and clots of fine to coarse grained galena (20%) and chalcopyrite(3%). Sulphides are most concentrated in the bottom 10cm of the sample.				

Sample Number:	K288996	UTM:	516578 mE	Nad83, Zone 8	
Elevation:	1535 m	UTM:	6753514 mN		
Comments:	TRENCH TR-02: Footwall, 1.1 m vertical chip sample of chlorite- and carbonate- altered, brown weathering, fresh medium grey, wavy-bedded volcanic mudstone,m with abundant malachite and canary yellow plumbo-jarosite(?) on fracture surfaces, narrow mm to sub-mm scale stringers of quartz-chalcopyrite and disseminated fine grained pyrite throughout.				

Rock Sample Descriptions Property: Hartless Joe

Sample Number:	K288997	UTM:	516580	mE	Nad83, Zone 8
Elevation:	1534 m	UTM:	6753521	mN	

Comments: TRENCH TR-02: Footwall, 1 m vertical chip sample of medium grey carbonate-altered basalt(?) with mm-scale (up to 1 cm) stringers of quartz-carbonate that host fine grained pyrite, and sparse fine grained pyrite disseminated throughout.

Sample Number:	K288998	UTM:	516662	mE	Nad83, Zone 8
Elevation:	1573 m	UTM:	6753523	mN	

Comments: TRENCH TR-03, footwall, 2m chip sample of orange-brown weathering, pale grey, carbonate-altered basalt(?), hosting disseminated pyrite.

Sample Number:	K288999	UTM:	516661	mE	Nad83, Zone 8
Elevation:	1571 m	UTM:	6753522	mN	

Comments: TRENCH TR-03, footwall, 1.5m chip sample of orange-brown weathering, chlorite+carbonate-altered, medium grey basalt, with bands of coarse grained galena and rare clots of fine grained chalcopyrite.

Sample Number:	K289000	UTM:	516661	mE	Nad83, Zone 8
Elevation:	1571 m	UTM:	6753521	mN	

Comments: TRENCH TR-03, 60cm chip sample of orange-brown weathering, banded quartz, with bands and clots of coarse grained galena and sparse clots of fine graind chalcopyrite. (Bottom 20cm hosts the majority of sx.)

APPENDIX V

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.

2103 Dollarton Hwy
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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15- JUL- 2016
Account: MTT

CERTIFICATE VA16104641

Project: Hartless Joe

This report is for 16 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30- JUN- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
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
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE

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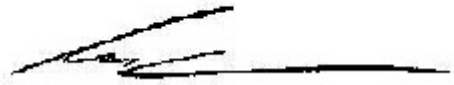
VANCOUVER BC V6B 1L8

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Ag- OG62 Ag ppm 1	Cu- OG62 Cu % 0.001	Pb- OG62 Pb % 0.001	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1
K288967		1.26				1.32	1.78	14.4	10	0.08	0.85	1.20	0.03	1.18	83.8	21
K288968		1.60				0.15	0.84	15.2	10	0.08	0.68	0.09	0.04	1.97	188.5	29
K288969		2.72				0.26	6.93	8.9	10	0.27	0.11	1.78	0.93	7.92	28.8	31
K288970		1.30				0.02	2.77	0.5	<10	0.17	0.03	26.6	0.15	4.29	7.8	2
K288971		1.86				12.25	4.39	15.3	200	0.57	0.08	4.45	1.79	5.46	19.0	109
K288972		1.08	229		2.28	>100	0.49	266	20	0.05	0.13	0.15	15.35	0.32	9.7	35
K288973		1.58		1.180		3.06	0.58	9.4	<10	<0.05	0.80	0.30	0.39	0.45	143.0	23
K288974		0.66				76.2	1.23	98.4	30	0.17	0.05	0.92	17.80	1.37	9.3	48
K288975		1.40				0.34	1.65	12.0	30	0.38	0.04	19.75	0.07	5.35	8.6	27
K288976		1.34				0.12	4.02	35.7	50	0.67	0.04	17.55	0.12	8.80	26.8	23
K288977		2.22	1420			>100	1.60	53.7	130	0.42	7.37	1.71	72.7	4.55	6.9	50
K288978		1.42				82.8	1.49	11.7	180	0.32	2.22	0.43	0.83	3.57	6.5	52
K288979		2.36	180			>100	3.54	170.5	480	0.55	6.95	4.39	21.3	5.09	19.1	39
K288980		1.88	167			>100	1.30	204	100	0.30	0.24	1.29	10.05	3.75	16.6	26
K288981		1.74				11.20	3.29	56.0	400	0.31	0.31	0.82	2.54	10.70	3.7	37
K288982		1.20				2.28	2.07	130.5	220	0.34	0.45	2.57	0.46	4.10	19.7	29

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

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Finalized Date: 15- JUL- 2016
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Project: Hartless Joe

CERTIFICATE OF ANALYSIS VA16104641

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	ME- MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOR	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K288967		<0.05	307	14.10	5.25	0.17	0.4	0.023	0.02	<0.5	1.4	0.94	462	201	0.94	0.4
K288968		0.05	106.0	26.2	2.43	0.18	0.3	0.013	0.03	0.8	1.5	0.18	146	2.28	0.49	0.4
K288969		0.86	169.0	9.70	17.45	0.07	0.6	0.123	0.06	2.4	7.5	3.87	1490	4.57	2.96	1.2
K288970		0.12	4.2	3.35	7.93	<0.05	0.9	0.033	0.01	1.4	2.6	1.75	698	1.63	1.19	0.4
K288971		2.10	201	5.09	10.85	0.07	0.8	0.051	2.24	1.6	5.0	2.12	1100	1.85	0.23	0.9
K288972		0.54	318	4.48	1.23	<0.05	<0.1	0.041	0.24	<0.5	1.1	0.03	77	2.56	0.01	0.2
K288973		0.10	>10000	19.40	2.74	0.19	0.2	0.245	0.02	<0.5	1.3	0.19	136	20.2	0.14	0.3
K288974		0.97	251	2.66	3.05	<0.05	0.1	0.043	0.46	<0.5	4.1	0.41	223	2.07	0.05	0.3
K288975		0.47	21.1	3.55	2.34	<0.05	0.4	0.008	0.11	2.4	9.2	8.93	706	0.60	0.01	0.8
K288976		3.75	56.2	6.01	9.43	0.05	1.1	0.057	0.44	2.7	61.4	4.60	1140	0.36	0.04	1.5
K288977		0.92	1990	2.49	4.32	<0.05	0.3	0.035	0.32	2.2	6.0	0.29	454	3.51	0.41	0.7
K288978		0.71	214	1.64	3.95	<0.05	0.3	0.027	0.26	1.7	4.3	0.35	257	11.10	0.49	0.8
K288979		3.58	359	3.73	9.33	0.06	0.6	0.048	1.57	1.7	8.6	1.50	798	4.52	0.18	1.0
K288980		1.03	310	3.69	3.29	<0.05	0.2	0.011	0.48	1.8	4.0	0.57	498	2.38	0.03	0.6
K288981		3.75	12.6	1.42	7.18	0.06	0.6	0.009	1.44	5.7	5.1	0.33	292	2.06	0.06	1.3
K288982		2.17	19.7	3.54	6.67	<0.05	0.3	0.034	0.74	1.5	2.9	0.42	465	3.85	0.30	0.9

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Project: Hartless Joe

CERTIFICATE OF ANALYSIS VA16104641

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	ME- MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.2	10	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
K288967		8.2	20	4.5	0.4	0.596	>10.0	0.64	8.2	51	0.4	45.0	<0.05	0.80	0.06	0.168
K288968		12.9	30	2.9	0.7	0.029	>10.0	0.89	2.9	51	0.2	17.5	<0.05	0.92	0.03	0.129
K288969		26.6	450	1.6	1.3	0.007	1.48	0.63	32.6	4	0.8	53.1	0.08	0.09	0.14	0.718
K288970		1.0	240	0.5	0.2	0.002	0.13	0.06	10.5	1	0.4	416	<0.05	<0.05	0.07	0.310
K288971		24.6	100	35.0	39.0	<0.002	0.84	1.94	25.9	2	0.6	126.5	0.05	0.25	0.07	0.546
K288972		27.7	20	>10000	5.5	<0.002	4.25	57.4	1.5	2	0.3	6.2	<0.05	1.35	0.02	0.022
K288973		6.4	20	35.3	0.4	0.258	>10.0	0.18	3.9	76	0.7	17.8	<0.05	1.37	0.03	0.115
K288974		15.7	40	3440	15.6	<0.002	1.74	2.88	6.6	1	0.2	16.0	<0.05	0.35	0.03	0.118
K288975		20.7	130	37.1	2.8	<0.002	0.01	0.57	4.7	<1	0.2	1520	<0.05	<0.05	1.11	0.060
K288976		27.6	450	5.2	10.3	<0.002	0.14	0.66	26.3	1	0.6	1055	0.10	<0.05	0.12	0.675
K288977		10.2	50	4440	8.8	<0.002	1.35	123.0	5.7	1	0.3	120.5	<0.05	0.47	0.58	0.131
K288978		8.2	60	858	6.6	<0.002	0.37	5.53	5.0	<1	0.3	78.2	<0.05	0.11	0.52	0.135
K288979		16.3	180	2730	43.3	0.004	1.67	15.10	18.1	1	0.4	169.0	0.05	0.21	0.06	0.392
K288980		17.3	50	1720	11.2	<0.002	1.42	17.85	4.3	<1	0.2	33.8	<0.05	0.09	0.33	0.092
K288981		8.0	250	149.5	33.0	<0.002	0.38	4.38	2.1	<1	0.2	21.2	0.08	<0.05	1.73	0.054
K288982		21.2	180	27.4	17.6	<0.002	1.95	1.21	10.5	1	0.3	90.3	0.05	0.07	0.10	0.314

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

ALS Canada Ltd.
2103 Dollarton Hwy
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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

Finalized Date: 15- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS VA16104641

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Au- ICP21	Au- GRA21
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.1	1	0.1	0.1	2	0.5	0.001	0.05
K288967		0.04	0.2	73	<0.1	3.2	23	8.2	0.009	
K288968		0.02	0.2	30	<0.1	2.5	13	10.0	0.007	
K288969		0.02	0.6	297	0.2	15.1	201	17.3	0.003	
K288970		<0.02	1.0	115	<0.1	21.8	48	24.4	<0.001	
K288971		0.29	0.9	205	42.7	16.8	180	27.3	2.19	
K288972		0.09	<0.1	17	3.1	0.6	1120	0.6	>10.0	92.3
K288973		0.04	0.1	55	0.1	1.3	26	5.0	0.045	
K288974		0.13	<0.1	50	9.5	2.4	1150	4.2	>10.0	26.0
K288975		0.02	0.4	54	1.0	6.0	37	13.5	0.047	
K288976		0.06	0.2	231	3.5	25.1	57	30.2	0.003	
K288977		0.08	0.8	47	8.3	3.7	5040	8.5	>10.0	16.85
K288978		0.07	0.5	45	9.6	2.4	69	10.0	3.80	
K288979		0.45	0.2	151	22.8	6.9	1340	7.5	3.69	
K288980		0.13	0.7	41	11.0	2.6	719	6.7	5.26	
K288981		0.36	1.0	29	4.6	2.4	225	21.6	2.90	
K288982		0.17	0.4	88	4.1	6.4	64	8.7	0.862	

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS VA16104641

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

Ag- OG62	Au- GRA21	Au- ICP21	CRU- 31
CRU- QC	Cu- OG62	LOG- 21	ME- MS61
ME- OG62	Pb- OG62	PUL- 31	SPL- 21
WEI- 21			

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1016- 510 W HASTINGS ST
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Finalized Date: 13- JUL- 2016
Account: MTT

CERTIFICATE WH16109095

Project: Hartless Joe

This report is for 24 Rock samples submitted to our lab in Whitehorse, YT, Canada on 7- JUL- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

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

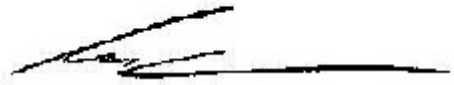
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE

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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Finalized Date: 13- JUL- 2016
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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16109095

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Ag- OG62 Ag ppm 1	Pb- OG62 Pb % 0.001	Zn- OG62 Zn % 0.001	ME- MS61 Ag ppm 0.01	ME- MS61 Al % 0.01	ME- MS61 As ppm 0.2	ME- MS61 Ba ppm 10	ME- MS61 Be ppm 0.05	ME- MS61 Bi ppm 0.01	ME- MS61 Ca % 0.01	ME- MS61 Cd ppm 0.02	ME- MS61 Ce ppm 0.01	ME- MS61 Co ppm 0.1	ME- MS61 Cr ppm 1
K288983		1.23				1.49	1.88	5.2	10	0.09	0.56	0.37	0.11	1.54	23.2	33
K288984		0.43				0.13	1.04	3.4	20	0.05	0.29	1.34	<0.02	1.91	19.1	13
K288985		2.59				0.12	0.37	12.7	<10	<0.05	0.09	0.40	0.02	0.24	51.6	12
K288986		1.49				0.13	3.99	0.5	10	0.12	0.01	3.47	4.79	3.58	19.9	67
K288987		1.60	420			>100	3.49	5.8	50	0.65	0.19	6.55	69.6	3.96	21.1	39
K288988		1.49	1090			>100	0.21	45.2	10	<0.05	0.24	0.05	0.54	0.64	0.7	15
K288989		3.41				6.80	5.82	1.4	110	0.42	0.04	4.62	3.74	8.27	26.9	60
K288990		2.59		1.020		79.6	1.57	3.0	110	0.16	4.67	0.16	27.2	1.42	8.6	18
K288991		2.80				1.77	7.39	0.6	460	0.65	0.04	1.35	0.47	11.30	5.6	17
K288992		1.73				0.89	7.40	1.4	120	0.44	0.04	4.49	1.04	11.65	32.2	15
K288993		3.05				0.44	6.83	21.9	130	0.35	0.02	5.59	0.17	5.45	37.5	164
K288994		3.07				3.96	4.79	86.2	170	0.53	0.04	7.74	14.25	4.26	29.1	127
K288995		2.88	195	2.02	4.45	>100	1.43	146.0	50	0.17	0.59	1.91	628	1.65	29.8	39
K288996		3.94				41.6	6.99	61.8	200	0.66	0.08	4.25	1.64	7.59	39.4	140
K288997		2.61				4.71	6.68	76.4	80	0.46	0.01	5.47	2.42	7.58	36.8	157
K288998		2.58				5.07	8.11	22.4	250	0.82	0.04	7.08	3.26	5.64	34.5	248
K288999		3.56	391	2.41		>100	5.54	53.4	350	0.54	0.11	3.46	79.2	4.34	22.1	168
K289000		3.58	337	1.110	3.31	>100	1.94	18.8	110	0.23	0.06	1.27	489	1.65	13.2	60
K282851		2.30				2.30	7.12	4.1	20	0.45	<0.01	3.07	1.02	9.29	36.7	7
K282852		2.07				0.87	6.86	6.4	20	0.33	0.07	2.19	1.11	8.48	43.0	68
K282853		2.39				0.14	6.98	4.1	20	0.35	0.12	2.33	0.83	8.51	36.3	82
K282854		3.45				0.36	7.09	4.9	30	0.35	0.07	2.77	0.20	12.05	41.3	59
K282855		2.83				0.48	7.17	7.6	40	0.30	0.11	1.89	0.17	10.15	43.4	72
K282856		2.24				0.44	7.55	4.0	40	0.22	0.09	2.51	0.24	9.28	40.4	81

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

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

Finalized Date: 13- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16109095

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	ME- MS61
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
	LOR	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1
K288983		0.09	705	9.59	3.73	0.18	0.7	0.090	0.02	0.5	2.0	0.23	145	76.8	1.18	0.5
K288984		0.25	31.9	7.59	5.49	0.09	0.3	0.012	0.03	0.8	3.7	0.13	166	0.53	0.10	0.4
K288985		<0.05	95.9	11.20	2.03	0.10	<0.1	0.019	0.01	<0.5	3.1	0.01	69	2.46	0.04	<0.1
K288986		0.47	52.2	4.24	9.95	0.05	0.6	0.040	0.02	1.0	6.5	2.02	527	1.48	1.75	0.4
K288987		0.41	75.1	5.12	11.60	0.07	0.6	0.096	0.12	1.2	11.0	3.41	2050	0.71	0.66	0.4
K288988		0.10	122.5	1.02	0.57	0.05	<0.1	0.013	0.06	<0.5	1.2	0.05	54	0.63	0.03	<0.1
K288989		1.41	97.1	5.84	14.35	0.05	0.7	0.070	0.28	2.7	14.9	2.64	1180	0.50	1.48	1.2
K288990		0.64	2840	1.79	3.63	0.07	0.2	0.507	0.38	0.6	3.1	0.27	96	15.90	0.26	0.3
K288991		1.68	65.1	1.58	16.50	0.07	1.3	0.024	1.38	5.4	7.1	0.63	265	1.69	3.20	1.6
K288992		0.95	148.5	8.03	17.90	0.06	0.7	0.065	0.19	4.2	15.7	2.36	1540	4.34	2.58	1.9
K288993		2.26	42.9	6.30	15.65	0.07	0.8	0.064	1.45	1.5	22.4	4.45	1560	0.37	1.09	0.7
K288994		4.29	251	5.21	12.70	0.09	0.8	0.188	2.29	1.2	11.5	2.91	1660	1.76	0.10	0.5
K288995		2.09	2230	4.71	4.77	0.09	0.2	0.752	0.47	0.5	7.2	0.72	628	1.33	0.06	0.2
K288996		4.96	2750	10.85	18.05	0.10	0.9	0.231	1.71	2.2	25.7	3.95	1780	4.16	0.79	0.9
K288997		3.02	556	7.27	15.40	0.07	1.4	0.100	0.66	2.2	22.2	4.42	1740	0.24	1.85	1.4
K288998		4.82	194.5	7.83	18.90	0.09	0.9	0.097	2.81	1.6	16.6	3.53	1540	0.84	0.31	0.8
K288999		2.72	1155	4.10	12.35	0.09	0.9	0.081	2.51	1.3	11.2	1.71	735	0.79	0.26	0.4
K289000		1.17	2140	3.82	6.12	0.06	0.2	0.178	0.85	0.5	5.6	0.77	399	0.82	0.08	0.2
K282851		0.55	31.0	7.27	18.20	0.11	1.3	0.099	0.15	3.0	5.6	2.45	1110	3.39	4.21	1.1
K282852		1.10	763	9.51	16.80	0.12	1.4	0.224	0.08	2.6	10.8	4.47	2300	0.74	1.89	1.3
K282853		0.70	277	8.57	15.60	0.13	1.3	0.119	0.05	2.9	12.3	4.87	2610	0.83	1.97	1.6
K282854		2.21	828	12.00	18.95	0.17	2.0	0.155	0.17	3.8	10.3	4.47	2070	0.37	2.07	2.3
K282855		0.77	176.5	11.45	20.1	0.33	1.5	0.095	0.07	3.8	13.2	4.81	1920	0.31	1.99	1.6
K282856		1.22	643	10.90	18.10	0.15	1.5	0.121	0.10	3.1	7.6	4.56	1940	0.72	2.21	1.5

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Finalized Date: 13- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16109095

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	ME- MS61
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.2	10	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
K288983		8.3	150	3.4	0.6	0.289	4.41	0.20	8.3	63	0.5	29.9	<0.05	0.81	0.07	0.314
K288984		2.4	70	1.2	0.8	0.002	3.56	0.09	5.9	24	0.9	86.4	<0.05	0.89	0.04	0.157
K288985		3.0	10	0.8	0.3	0.018	>10.0	<0.05	0.8	25	0.3	25.5	<0.05	0.70	0.01	0.014
K288986		26.3	210	1.5	0.5	<0.002	0.76	0.15	21.4	1	0.4	49.2	<0.05	<0.05	0.04	0.349
K288987		23.0	220	4410	6.4	<0.002	0.59	6.77	19.2	6	0.4	140.0	<0.05	0.18	0.05	0.317
K288988		1.6	10	4870	1.2	<0.002	0.23	23.0	0.5	<1	0.2	5.2	<0.05	<0.05	0.02	0.015
K288989		28.9	430	146.0	8.6	<0.002	0.11	0.51	34.2	1	1.0	142.0	0.08	<0.05	0.15	0.538
K288990		5.1	80	>10000	8.1	<0.002	0.76	7.45	4.0	14	0.3	22.2	<0.05	1.04	0.15	0.068
K288991		6.6	310	38.6	26.0	<0.002	0.06	0.15	7.1	<1	0.5	149.0	0.10	<0.05	1.25	0.182
K288992		9.7	730	31.3	4.6	<0.002	0.27	0.17	40.2	1	0.7	179.0	0.12	<0.05	0.31	0.618
K288993		65.4	330	4.8	29.1	0.002	0.56	0.68	36.4	1	0.6	129.5	0.05	<0.05	0.06	0.595
K288994		36.8	250	8.8	54.0	0.003	1.66	0.92	27.4	2	0.5	153.5	<0.05	0.07	0.05	0.376
K288995		22.6	60	>10000	15.8	<0.002	5.41	38.1	7.4	8	0.4	38.7	<0.05	1.67	0.02	0.115
K288996		52.5	440	24.8	39.0	0.013	4.22	1.46	42.8	4	0.8	167.5	0.06	0.08	0.09	0.727
K288997		63.3	380	69.9	19.0	<0.002	0.83	1.54	41.0	1	0.6	137.5	0.09	<0.05	0.09	0.692
K288998		77.3	330	268	58.2	0.002	1.99	2.84	38.3	5	0.7	180.5	0.05	0.07	0.09	0.615
K288999		44.2	180	>10000	48.1	0.002	1.70	112.0	21.8	5	0.5	95.7	<0.05	2.07	0.08	0.378
K289000		20.9	40	>10000	19.6	<0.002	3.37	21.1	6.8	4	0.4	45.9	<0.05	0.74	0.02	0.121
K282851		8.6	530	104.0	2.6	0.006	1.77	1.07	34.3	2	0.8	80.5	0.07	<0.05	0.18	0.842
K282852		50.4	500	21.0	2.6	0.002	0.43	0.56	45.0	1	1.0	65.4	0.09	0.05	0.09	0.901
K282853		50.0	490	6.3	1.6	<0.002	0.70	0.45	39.7	1	1.7	80.1	0.10	0.07	0.13	0.781
K282854		39.7	660	3.1	5.3	0.003	0.97	0.56	45.1	3	1.4	71.0	0.14	0.06	0.17	1.110
K282855		44.6	580	4.8	2.2	<0.002	1.23	0.46	45.5	3	1.7	45.7	0.10	0.07	0.30	1.005
K282856		41.8	560	3.1	2.8	0.003	1.31	0.42	40.6	3	1.2	60.6	0.10	0.08	0.19	0.919

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Finalized Date: 13- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16109095

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Au- ICP21	Au- GRA21
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.02	0.1	1	0.1	0.1	2	0.5	0.001	0.05
K288983		<0.02	0.1	72	0.1	3.0	39	24.4	0.002	
K288984		0.02	<0.1	88	0.1	1.6	6	11.2	0.002	
K288985		<0.02	<0.1	26	<0.1	0.4	2	0.7	0.004	
K288986		0.02	<0.1	152	0.2	13.1	665	16.8	<0.001	
K288987		0.06	0.1	170	34.1	14.3	5800	10.9	>10.0	25.1
K288988		0.02	0.1	7	3.3	0.4	97	0.9	>10.0	15.40
K288989		0.08	0.1	254	20.4	17.6	341	37.6	0.261	
K288990		0.08	0.1	44	12.4	1.3	1160	6.5	>10.0	429
K288991		0.23	0.7	67	6.2	4.1	63	44.5	0.186	
K288992		0.07	0.1	343	4.1	22.2	161	70.8	0.304	
K288993		0.35	0.6	277	11.3	8.7	182	22.8	0.015	
K288994		0.51	0.4	197	23.9	9.5	2050	21.9	0.354	
K288995		0.20	0.2	63	10.5	3.7	>10000	6.6	>10.0	23.2
K288996		0.57	0.9	299	27.1	16.6	264	28.8	0.185	
K288997		0.24	0.1	281	21.3	12.5	279	38.3	0.091	
K288998		0.69	0.8	277	29.8	21.3	433	23.6	0.531	
K288999		0.46	0.9	191	20.5	11.9	5110	27.5	>10.0	26.2
K289000		0.22	0.2	79	11.9	3.6	>10000	7.4	>10.0	85.0
K282851		0.07	1.9	337	0.9	30.7	193	47.2	0.091	
K282852		0.08	0.1	337	1.8	15.9	370	23.5	0.120	
K282853		0.05	0.3	305	0.2	24.2	423	31.2	0.005	
K282854		0.08	0.1	375	1.3	39.6	191	76.7	0.027	
K282855		0.04	0.1	358	0.8	29.2	203	41.6	0.004	
K282856		0.06	0.1	334	0.6	25.9	211	55.3	0.009	

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

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

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

Finalized Date: 13- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16109095

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:				
CRU- 31	CRU- QC	LOG- 21	PUL- 31	
PUL- QC	SPL- 21	WEI- 21		

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

Applies to Method:			
Ag- OG62	Au- GRA21	Au- ICP21	ME- MS61
ME- OG62	Pb- OG62	Zn- OG62	

ALS Canada Ltd.

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

Finalized Date: 22- JUL- 2016
Account: MTT

CERTIFICATE WH16114130

Project: Hartless Joe

This report is for 6 Reject samples submitted to our lab in Whitehorse, YT, Canada on 15- JUL- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SCR- 21	Screen to - 100 to 106 um
FND- 03	Find Reject for Addn Analysis
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
PUL- 32	Pulverize 1000g to 85% < 75 um

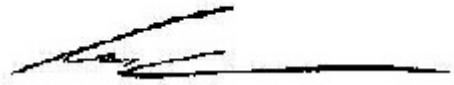
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
Au- GRA21d	Au 30g FA- GRAV finish - DUP	WST- SIM
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
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

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16114130

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01	Au- GRA21 Au ppm 0.05	Au- GRA21d Au ppm 0.05
K288987		24.7	90.5	20.6	5.343	59.05	938.7	19.60	21.6		
K288988		15.35	58.1	14.35	1.316	22.65	933.6	14.05	14.60		
K288990		462	11700	154.5	311.59	26.63	974.1	>100	>100	154.5	154.5
K288995		22.7	312	17.75	5.059	16.19	946.1	17.50	17.95		
K288999		26.6	145.0	22.0	5.600	38.61	986.8	22.0	22.0		
K289000		88.5	1420	59.3	28.243	19.91	908.1	60.6	58.0		

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

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VANCOUVER BC V6B 1L8

Finalized Date: 22- JUL- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16114130

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

Applies to Method:		
FND- 03	SPL- 21	

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

Applies to Method:			
Au- AA25	Au- AA25D	Au- GRA21	Au- GRA21d
Au- SCR21	BAG- 01	PUL- 32	SCR- 21

ALS Canada Ltd.

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To: **STRATEGIC METALS LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2016
Account: MTT

CERTIFICATE WH16139947

Project: Hartless Joe

This report is for 5 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22- AUG- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

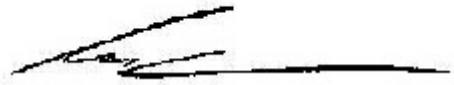
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
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
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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To: **STRATEGIC METALS LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139947

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K282984		1.90	0.04	0.28	4.4	40	<0.05	0.03	1.17	0.10	0.78	3.2	38	0.84	30.7	6.90
K282985		1.22	0.04	0.80	1.0	30	<0.05	0.04	0.39	0.02	0.78	6.0	35	0.13	20.4	1.41
K282986		1.72	0.19	3.48	4.2	60	0.18	0.02	6.50	0.12	1.40	4.3	47	0.99	51.9	3.28
K282987		1.84	3.39	0.59	8.3	10	<0.05	0.03	1.14	24.6	0.92	11.2	42	0.15	340	3.20
K282988		2.16	0.27	1.13	12.0	10	<0.05	0.02	4.16	0.21	1.69	6.6	47	0.74	6.0	2.30

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

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

Finalized Date: 24- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139947

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K282984		2.25	<0.05	<0.1	0.022	0.03	0.5	0.9	0.16	187	0.44	0.03	0.1	2.2	50	2.6
K282985		1.64	<0.05	0.1	0.010	0.02	<0.5	2.6	0.46	203	0.66	0.16	0.1	7.0	30	0.8
K282986		9.27	<0.05	0.1	0.097	0.32	0.6	6.5	0.61	448	2.02	0.84	0.2	12.8	150	5.1
K282987		1.45	<0.05	<0.1	0.030	0.03	<0.5	2.4	0.41	237	0.38	0.08	0.1	11.0	30	8.0
K282988		2.61	<0.05	0.1	0.013	0.09	0.5	5.9	0.84	564	1.02	0.01	0.3	16.7	100	6.6

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

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139947

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K282984		0.8	<0.002	0.09	0.12	0.8	1	<0.2	8.3	<0.05	<0.05	0.11	0.029	<0.02	0.2	23
K282985		0.4	<0.002	<0.01	0.14	2.8	<1	0.2	11.5	<0.05	<0.05	0.03	0.066	<0.02	0.1	32
K282986		5.7	<0.002	0.16	1.33	6.1	<1	0.5	149.0	<0.05	<0.05	0.04	0.104	0.07	<0.1	201
K282987		0.5	<0.002	1.14	0.61	2.2	2	0.2	24.6	<0.05	0.18	0.08	0.037	0.02	<0.1	23
K282988		2.1	<0.002	0.65	0.40	4.0	<1	<0.2	47.4	<0.05	<0.05	0.02	0.099	0.02	<0.1	47

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

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VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139947

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- ICP21 Au ppm 0.001
K282984		0.1	1.2	10	2.8	<0.001
K282985		0.7	2.1	10	3.3	0.011
K282986		1.3	4.8	17	2.7	0.019
K282987		0.4	2.0	1350	0.9	4.53
K282988		2.4	4.5	62	1.3	0.030

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

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VANCOUVER BC V6B 1L8

Finalized Date: 24- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139947

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

Au- ICP21	CRU- 31	CRU- QC	LOG- 22
ME- MS61	PUL- 31	PUL- QC	SPL- 21
WEI- 21			

ALS Canada Ltd.

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 23- SEP- 2016
Account: MTT

CERTIFICATE WH16139955

Project: Hartless Joe

This report is for 102 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23- AUG- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

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- MS61	48 element four acid ICP- MS	

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

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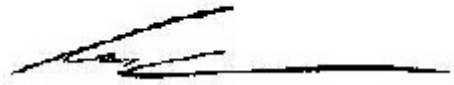
***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
ZZ112721		0.60	0.16	7.37	8.7	550	1.09	0.13	2.57	0.40	43.9	31.1	101	3.85	85.0	5.19
ZZ112722		0.56	0.12	7.54	8.9	780	1.56	0.18	2.31	0.22	54.9	27.4	76	3.33	67.2	5.09
ZZ112723		0.50	0.17	6.02	4.8	560	0.90	0.13	2.45	0.41	32.4	24.1	69	2.29	38.7	4.88
ZZ112724		0.52	0.24	6.94	10.9	720	1.08	0.26	2.03	0.21	30.8	41.3	72	3.99	101.0	4.81
ZZ112725		0.72	0.09	7.64	5.9	780	1.20	0.12	2.51	0.25	39.1	25.1	76	3.25	43.5	4.96
ZZ112726		0.34	0.11	4.95	4.3	630	0.90	0.17	2.15	0.16	30.5	14.2	59	2.03	45.3	3.69
ZZ112727		0.44	0.13	6.15	5.7	710	1.18	0.16	2.36	0.15	37.2	24.8	68	2.27	43.3	5.02
ZZ112728		0.52	0.11	6.49	4.5	710	1.18	0.16	1.97	0.15	36.6	14.7	63	1.72	34.1	4.36
ZZ112729		0.46	0.08	6.46	4.8	680	1.06	0.14	2.50	0.16	36.6	14.5	73	2.31	24.1	4.67
ZZ112730		0.62	0.07	7.32	6.3	760	1.27	0.16	2.58	0.15	51.2	15.6	64	1.79	38.3	4.18
ZZ112731		0.34	0.12	6.40	2.2	750	1.20	0.15	1.72	0.15	35.8	6.7	23	1.68	17.5	2.28
ZZ112732		0.60	0.09	7.35	5.8	810	1.23	0.15	3.17	0.24	64.9	22.4	92	1.85	54.4	4.43
ZZ112733		0.42	0.11	6.39	3.7	720	1.11	0.15	1.79	0.17	34.1	10.8	44	1.62	24.0	3.16
ZZ112734		0.46	0.16	6.28	5.1	710	1.08	0.16	2.08	0.29	32.8	14.7	65	2.30	30.8	4.09
ZZ112735		0.54	0.21	7.00	6.6	710	1.07	0.18	2.07	0.17	37.0	39.4	76	2.42	157.5	4.92
ZZ112736		0.44	0.12	6.14	4.7	780	1.11	0.15	2.06	0.23	38.4	13.1	65	1.96	30.0	3.75
ZZ112737		0.50	0.18	6.56	4.7	820	1.04	0.15	2.13	0.41	35.7	15.1	75	2.38	23.0	4.50
ZZ112738		0.66	0.07	7.43	6.2	820	1.29	0.13	2.54	0.23	54.6	17.5	76	1.64	35.5	4.19
ZZ112739		0.52	0.07	7.13	4.3	640	1.09	0.12	2.92	0.20	41.1	22.2	83	1.35	31.4	4.81
ZZ112740		0.56	0.13	6.89	5.6	730	1.16	0.15	2.29	0.16	36.3	26.7	72	2.02	51.3	4.60
ZZ112741		0.48	0.16	5.90	4.4	630	0.89	0.17	2.09	0.33	32.9	18.2	69	1.98	44.4	4.16
ZZ112742		0.28	0.17	5.63	3.3	700	1.07	0.13	1.79	0.53	37.9	14.8	58	2.87	30.3	3.43
ZZ112743		0.60	0.20	7.53	5.5	860	1.36	0.14	2.60	0.16	55.5	21.1	75	2.93	42.4	4.09
ZZ112744		0.54	0.09	6.48	4.5	840	1.22	0.14	2.30	0.15	38.1	20.8	74	2.12	35.5	4.05
ZZ112745		0.62	0.11	7.46	5.0	1030	1.28	0.14	2.53	0.19	45.3	18.2	65	2.76	28.2	3.76
ZZ112746		0.70	0.11	7.22	6.1	710	1.21	0.16	2.21	0.26	44.6	17.0	80	2.05	39.8	4.35
ZZ112747		0.54	0.08	7.12	5.7	870	1.39	0.15	2.24	0.28	51.0	16.5	74	1.79	28.1	3.85
ZZ112748		0.68	0.08	7.78	6.5	910	1.46	0.16	2.63	0.24	54.7	21.2	90	1.95	41.2	4.53
ZZ112749		0.70	0.06	7.64	4.4	880	1.34	0.13	3.33	0.25	65.6	22.6	94	1.62	34.3	4.67
ZZ112750		0.60	0.09	7.54	6.1	890	1.37	0.33	2.68	0.34	54.0	25.4	85	2.07	36.9	4.59
ZZ112756		0.58	0.09	7.56	5.0	910	1.20	0.14	2.75	0.40	48.3	23.5	81	2.06	33.3	4.43
ZZ112757		0.56	0.06	7.88	4.7	850	1.27	0.15	2.57	0.19	52.1	20.2	81	1.96	30.5	4.32
ZZ112758		0.42	0.08	7.02	4.5	670	1.08	0.11	2.93	0.38	40.7	22.2	82	1.42	37.8	4.54
ZZ112759		0.50	0.08	6.65	3.1	620	1.06	0.15	2.81	0.19	34.4	20.8	65	1.40	34.3	4.23
ZZ112760		0.56	0.09	6.82	4.2	710	1.08	0.14	2.42	0.17	34.4	17.3	77	1.70	24.4	4.48
ZZ112761		0.68	0.12	7.21	4.5	750	1.14	0.14	2.65	0.15	38.4	22.6	84	2.19	35.2	5.09
ZZ112762		0.56	0.06	7.12	3.4	690	1.06	0.12	2.48	0.10	31.8	20.8	76	1.73	54.2	4.62
ZZ112763		0.52	0.09	6.80	4.3	770	1.21	0.13	2.00	0.19	36.7	13.8	74	1.90	24.5	4.00
ZZ112764		0.50	0.11	7.19	4.7	760	1.14	0.12	2.33	0.20	49.6	18.1	77	1.92	44.4	4.17
ZZ112765		0.62	0.07	7.14	3.9	680	1.17	0.11	2.81	0.12	39.0	17.5	76	1.54	27.5	4.42

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

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To: **STRATEGIC METALS LTD.**
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Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
ZZ112721		15.85	0.09	1.8	0.061	0.90	22.5	23.9	2.00	1180	0.76	1.93	5.7	41.7	1110	13.0
ZZ112722		17.10	0.12	1.8	0.060	1.21	26.9	16.8	1.30	1060	0.95	1.99	8.7	35.1	1510	12.6
ZZ112723		14.90	0.08	1.4	0.055	0.83	16.9	14.5	1.43	1040	0.72	1.78	5.9	30.4	1160	8.7
ZZ112724		15.00	0.12	1.4	0.061	1.11	14.0	18.1	1.32	958	0.84	1.73	6.9	42.9	820	14.8
ZZ112725		16.50	0.08	1.5	0.055	1.08	18.9	18.3	1.60	896	0.69	2.14	7.3	36.4	710	11.7
ZZ112726		13.10	0.09	1.7	0.044	0.99	15.1	12.0	0.86	654	1.14	1.44	7.7	22.7	1140	9.8
ZZ112727		15.15	0.10	1.5	0.059	1.15	18.5	16.2	1.17	1020	1.09	1.78	8.2	26.1	1410	10.9
ZZ112728		15.45	0.09	1.6	0.050	1.23	18.7	15.1	1.03	754	1.12	1.80	7.8	22.6	1450	9.9
ZZ112729		16.65	0.11	1.6	0.056	1.10	18.6	13.0	1.36	669	0.81	2.09	8.5	27.2	360	9.6
ZZ112730		16.25	0.13	2.0	0.050	1.36	26.4	15.4	1.28	830	0.99	2.32	8.7	28.4	1200	11.6
ZZ112731		15.30	0.10	2.3	0.023	1.70	19.4	16.5	0.63	463	1.29	2.15	6.1	9.5	1170	9.3
ZZ112732		15.45	0.15	2.1	0.057	1.25	33.0	14.7	1.55	854	0.75	2.19	9.4	38.6	990	11.3
ZZ112733		14.80	0.09	2.0	0.036	1.43	18.0	15.3	0.84	701	1.16	1.97	6.6	16.8	1180	9.5
ZZ112734		14.90	0.09	1.5	0.053	1.16	16.4	15.5	1.09	610	0.88	1.86	8.3	26.8	560	10.5
ZZ112735		15.15	0.11	1.5	0.054	1.16	18.7	17.1	1.24	829	1.31	1.70	8.6	60.2	1180	11.1
ZZ112736		14.55	0.10	1.6	0.047	1.24	20.0	13.0	1.09	578	0.80	1.88	8.9	26.8	920	11.0
ZZ112737		16.85	0.10	1.7	0.051	1.29	18.6	15.2	1.17	684	0.84	2.01	9.5	25.5	540	12.3
ZZ112738		16.05	0.11	1.9	0.056	1.39	25.7	14.9	1.32	838	0.70	2.27	8.7	31.9	1040	11.3
ZZ112739		15.80	0.10	1.7	0.059	1.03	20.1	13.3	1.49	869	0.66	2.19	8.0	32.4	810	9.4
ZZ112740		15.70	0.09	1.6	0.055	1.19	17.8	16.4	1.27	774	1.11	1.89	7.9	36.5	1000	10.6
ZZ112741		14.35	0.08	1.5	0.054	1.01	16.6	13.0	1.09	863	1.16	1.54	7.4	29.3	1450	10.8
ZZ112742		13.00	0.09	1.5	0.042	1.06	19.5	12.1	0.91	1320	0.91	1.60	7.1	27.2	1300	9.7
ZZ112743		16.10	0.10	1.7	0.051	1.26	28.4	15.4	1.34	747	0.68	2.08	9.1	36.1	650	40.9
ZZ112744		15.35	0.10	1.7	0.047	1.24	19.2	14.1	1.27	703	0.79	1.95	7.8	32.2	760	12.9
ZZ112745		16.45	0.11	1.6	0.051	1.22	23.0	14.1	1.18	772	0.69	2.04	8.2	28.6	720	13.2
ZZ112746		15.55	0.11	1.8	0.057	1.15	22.7	14.9	1.24	776	0.95	1.82	9.4	31.1	1630	11.2
ZZ112747		14.50	0.11	1.7	0.055	1.37	25.1	17.5	1.20	678	0.58	2.10	8.7	34.0	870	12.2
ZZ112748		16.05	0.13	1.8	0.058	1.43	27.1	19.5	1.47	879	0.57	2.34	8.9	40.5	870	12.0
ZZ112749		16.00	0.12	2.2	0.056	1.28	32.2	16.6	1.65	941	0.68	2.38	9.3	37.4	1030	10.3
ZZ112750		15.20	0.13	1.9	0.056	1.24	25.3	18.2	1.52	1180	0.63	2.10	9.0	40.3	1310	12.3
ZZ112756		15.95	0.10	1.8	0.050	1.19	24.2	16.2	1.53	1080	0.67	2.16	7.9	34.7	1420	11.2
ZZ112757		15.65	0.12	1.8	0.050	1.26	25.7	20.9	1.59	824	0.60	2.29	7.7	40.3	1020	10.7
ZZ112758		14.25	0.09	1.5	0.049	1.03	19.3	15.4	1.71	822	0.54	2.02	6.7	40.8	1190	8.5
ZZ112759		13.55	0.10	1.4	0.048	1.02	17.3	13.8	1.46	779	0.50	2.23	6.1	28.0	810	9.3
ZZ112760		15.10	0.09	1.7	0.052	1.12	18.5	16.3	1.36	980	0.60	2.07	7.2	28.6	1150	10.3
ZZ112761		16.20	0.09	1.6	0.060	1.18	19.7	18.1	1.51	957	0.71	2.16	7.5	31.9	850	10.1
ZZ112762		15.20	0.10	1.7	0.053	1.13	16.5	15.9	1.46	664	0.70	2.13	7.2	30.0	610	9.1
ZZ112763		13.90	0.10	1.3	0.050	1.21	19.0	15.8	1.11	708	0.62	1.87	7.4	26.4	770	10.1
ZZ112764		14.45	0.10	1.7	0.047	1.25	24.0	16.9	1.30	806	0.63	1.99	7.7	32.4	1780	10.1
ZZ112765		14.95	0.11	1.6	0.057	1.11	19.6	15.1	1.48	726	0.53	2.32	7.1	31.1	510	9.7

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

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To: **STRATEGIC METALS LTD.**
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Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
ZZ112721		32.6	<0.002	0.05	0.96	24.8	1	1.0	235	0.48	<0.05	5.30	0.489	0.25	1.7	160
ZZ112722		48.1	<0.002	0.05	0.97	16.5	2	1.2	279	0.67	0.05	6.43	0.466	0.34	2.2	123
ZZ112723		35.3	<0.002	0.07	0.67	19.5	2	1.0	210	0.45	<0.05	3.95	0.486	0.21	1.3	152
ZZ112724		42.7	<0.002	0.05	1.02	14.9	1	1.1	250	0.51	0.10	4.37	0.386	0.30	1.5	136
ZZ112725		40.1	<0.002	0.03	0.86	20.4	2	1.0	249	0.52	<0.05	4.78	0.500	0.29	1.6	154
ZZ112726		43.1	0.002	0.09	0.76	12.3	1	1.1	214	0.57	<0.05	4.11	0.397	0.32	1.7	114
ZZ112727		49.1	<0.002	0.07	0.81	15.3	2	1.2	247	0.59	0.05	4.63	0.451	0.33	1.7	121
ZZ112728		44.3	<0.002	0.06	0.77	12.3	1	1.1	311	0.57	<0.05	5.07	0.427	0.31	2.0	113
ZZ112729		46.7	<0.002	0.02	0.73	19.1	2	1.2	244	0.66	<0.05	4.12	0.542	0.31	1.5	145
ZZ112730		47.8	<0.002	0.03	0.78	15.1	2	1.1	361	0.64	<0.05	6.99	0.467	0.30	2.5	114
ZZ112731		51.7	<0.002	0.07	0.53	6.5	1	0.8	435	0.44	<0.05	5.26	0.273	0.30	2.1	59
ZZ112732		46.3	<0.002	0.03	0.83	18.4	2	1.2	348	0.70	<0.05	8.02	0.487	0.31	2.6	134
ZZ112733		44.1	<0.002	0.07	0.64	9.5	2	0.9	343	0.48	<0.05	5.10	0.339	0.28	1.8	88
ZZ112734		48.5	<0.002	0.04	0.81	14.6	2	1.2	246	0.61	<0.05	6.20	0.453	0.32	1.9	128
ZZ112735		45.4	0.002	0.07	0.90	14.8	2	1.1	235	0.66	<0.05	4.61	0.440	0.32	1.8	136
ZZ112736		48.5	<0.002	0.07	0.82	13.7	1	1.1	255	0.71	<0.05	5.54	0.431	0.32	1.9	114
ZZ112737		55.7	<0.002	0.03	0.87	15.6	1	1.2	249	0.73	<0.05	4.79	0.506	0.35	1.8	149
ZZ112738		50.7	<0.002	0.03	0.78	16.9	2	1.2	319	0.68	<0.05	6.97	0.480	0.33	2.1	129
ZZ112739		39.5	<0.002	0.03	0.70	21.2	2	1.2	257	0.64	<0.05	5.09	0.566	0.27	1.6	158
ZZ112740		47.5	<0.002	0.06	0.88	15.4	1	1.1	248	0.57	0.06	4.60	0.454	0.31	1.8	143
ZZ112741		42.9	<0.002	0.07	0.85	14.3	2	1.1	223	0.53	<0.05	4.22	0.442	0.29	1.8	136
ZZ112742		47.0	<0.002	0.07	0.66	12.5	1	1.0	242	0.52	<0.05	5.08	0.376	0.28	1.9	108
ZZ112743		43.1	<0.002	0.03	0.77	17.4	1	1.1	333	0.73	<0.05	6.54	0.474	0.33	2.1	131
ZZ112744		50.6	<0.002	0.05	0.80	15.2	1	1.1	269	0.59	<0.05	5.49	0.445	0.31	1.9	127
ZZ112745		47.3	<0.002	0.03	0.78	14.5	2	1.1	313	0.56	<0.05	7.04	0.417	0.32	1.9	119
ZZ112746		45.6	<0.002	0.07	0.92	15.7	2	1.2	249	0.69	<0.05	6.58	0.479	0.31	2.2	131
ZZ112747		52.2	<0.002	0.03	0.88	15.6	1	1.2	290	0.65	<0.05	6.24	0.449	0.38	1.7	122
ZZ112748		51.3	<0.002	0.02	0.90	20.3	1	1.3	324	0.64	<0.05	7.35	0.529	0.38	2.2	148
ZZ112749		40.4	<0.002	0.02	0.78	21.7	1	1.3	365	0.69	<0.05	8.37	0.571	0.30	2.7	156
ZZ112750		49.8	<0.002	0.04	0.84	20.1	1	1.2	283	0.64	<0.05	7.46	0.518	0.31	2.4	150
ZZ112756		42.6	<0.002	0.05	0.75	19.4	2	1.2	298	0.56	<0.05	6.76	0.490	0.33	2.2	146
ZZ112757		38.9	<0.002	0.03	0.81	19.5	1	1.1	329	0.55	<0.05	6.79	0.483	0.30	2.2	142
ZZ112758		38.0	<0.002	0.06	0.72	21.9	2	1.0	260	0.51	<0.05	5.09	0.509	0.25	1.8	156
ZZ112759		37.8	<0.002	0.04	0.66	19.5	2	1.0	261	0.44	<0.05	5.19	0.490	0.25	1.4	144
ZZ112760		45.4	<0.002	0.05	0.74	19.3	2	1.1	242	0.55	<0.05	5.03	0.513	0.30	1.5	151
ZZ112761		45.0	<0.002	0.04	0.72	20.4	2	1.2	261	0.57	<0.05	5.62	0.559	0.31	1.7	171
ZZ112762		42.5	<0.002	0.02	0.68	20.5	2	1.2	239	0.59	<0.05	5.80	0.492	0.28	1.8	159
ZZ112763		50.5	<0.002	0.04	0.77	14.5	2	1.1	240	0.56	<0.05	6.83	0.415	0.31	1.7	123
ZZ112764		46.5	<0.002	0.04	0.72	16.8	2	1.1	293	0.56	<0.05	6.20	0.467	0.30	2.0	133
ZZ112765		40.2	<0.002	0.02	0.66	20.0	2	1.1	263	0.59	<0.05	5.33	0.504	0.30	1.5	150

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CERTIFICATE OF ANALYSIS WH16139955

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- ICP21 Au ppm 0.001
ZZ112721		1.8	21.9	104	52.2	0.009
ZZ112722		2.3	28.4	73	57.1	0.008
ZZ112723		1.4	19.4	63	39.0	0.003
ZZ112724		1.2	16.6	74	53.0	0.034
ZZ112725		1.4	20.5	64	47.8	0.003
ZZ112726		1.2	15.9	51	49.5	0.002
ZZ112727		1.0	23.9	70	49.2	0.002
ZZ112728		1.0	17.3	59	54.0	0.002
ZZ112729		2.6	21.4	52	53.1	0.003
ZZ112730		1.3	21.9	72	65.0	0.049
ZZ112731		0.7	8.8	51	82.7	<0.001
ZZ112732		1.5	22.4	66	71.1	0.003
ZZ112733		0.8	12.6	63	81.6	0.015
ZZ112734		1.0	17.1	56	46.2	<0.001
ZZ112735		1.0	21.1	79	51.7	0.001
ZZ112736		1.0	16.3	54	53.2	0.003
ZZ112737		1.2	17.8	54	57.9	0.002
ZZ112738		1.2	22.5	65	69.3	0.005
ZZ112739		1.0	22.9	56	58.9	0.001
ZZ112740		1.0	18.4	68	50.6	0.001
ZZ112741		1.1	15.2	61	51.2	<0.001
ZZ112742		1.0	14.7	51	49.7	0.013
ZZ112743		1.4	19.1	66	52.1	0.016
ZZ112744		1.1	17.2	59	52.3	0.007
ZZ112745		1.1	17.2	54	51.1	0.001
ZZ112746		1.3	18.5	71	67.2	0.002
ZZ112747		1.1	19.0	64	48.3	0.010
ZZ112748		1.2	23.0	70	55.7	0.002
ZZ112749		1.0	24.4	70	58.1	0.005
ZZ112750		1.4	22.1	75	59.8	0.005
ZZ112756		1.1	21.0	77	48.1	0.003
ZZ112757		1.1	19.2	66	48.7	0.006
ZZ112758		0.9	20.8	68	46.9	0.002
ZZ112759		0.9	20.6	56	39.3	0.004
ZZ112760		1.1	19.7	59	45.2	0.009
ZZ112761		1.0	20.5	62	60.0	0.002
ZZ112762		1.1	19.5	54	43.0	0.001
ZZ112763		1.1	17.1	57	40.4	0.001
ZZ112764		1.2	18.7	73	49.5	0.006
ZZ112765		1.1	21.6	54	39.3	0.001

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

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

Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
ZZ112766		0.28	0.29	6.72	3.4	880	1.34	0.20	1.82	0.21	37.5	12.8	57	4.89	27.7	3.51
ZZ112767		0.56	0.08	6.53	3.7	690	1.05	0.13	2.24	0.19	33.6	15.8	80	1.63	35.1	4.42
ZZ112768		0.52	0.13	6.69	3.3	700	1.10	0.13	2.37	0.27	40.3	20.3	65	1.73	31.6	3.95
ZZ112769		0.44	0.08	7.12	3.5	770	1.15	0.13	2.07	0.13	34.9	11.3	52	1.56	23.3	3.52
ZZ112770		0.36	0.14	6.18	3.7	640	1.02	0.13	1.74	0.23	32.1	11.8	45	2.39	19.8	3.34
ZZ112771		0.60	0.08	7.05	5.0	840	1.32	0.14	2.06	0.13	37.4	18.1	79	2.84	28.9	4.45
ZZ112772		0.54	0.11	6.47	4.9	720	1.11	0.14	1.99	0.26	37.3	19.9	73	2.21	24.4	4.25
ZZ112773		0.52	0.14	6.45	4.3	680	1.17	0.13	2.04	0.27	37.0	23.2	67	1.81	34.2	4.47
ZZ112774		0.36	0.28	6.53	3.5	770	1.26	0.14	2.13	0.15	37.6	31.9	65	2.02	98.7	4.23
ZZ112775		0.56	0.23	6.78	3.4	760	1.20	0.15	2.39	0.14	36.3	21.9	73	1.86	66.8	4.59
ZZ112776		0.52	0.17	6.35	4.1	780	1.15	0.15	2.11	0.15	34.2	15.6	68	1.79	34.9	4.02
ZZ112777		0.38	0.49	6.12	3.7	810	1.19	0.16	1.96	0.37	36.9	17.2	70	2.29	82.4	3.68
ZZ112795		0.70	0.09	7.09	6.7	490	0.76	0.18	2.79	0.17	46.6	45.9	145	3.92	32.7	7.65
ZZ112796		0.58	0.07	7.24	6.2	760	1.23	0.16	2.43	0.16	58.9	40.8	88	4.15	52.6	5.17
ZZ112797		0.48	0.07	6.55	5.7	740	1.27	0.13	2.02	0.29	45.0	21.8	62	3.10	31.3	3.69
ZZ112798		0.64	0.15	7.56	18.3	550	1.16	0.19	1.18	0.27	38.8	44.2	75	7.41	88.5	8.65
ZZ112799		0.40	0.04	6.16	5.9	850	1.10	0.16	1.85	1.08	42.2	13.7	68	4.59	22.2	3.88
ZZ112800		0.70	0.40	7.12	8.4	420	0.77	0.22	1.97	3.53	31.9	167.0	102	5.22	333	10.95
ZZ112801		0.48	0.12	6.54	30.5	500	0.89	0.14	1.01	0.86	28.6	36.9	74	5.54	93.6	6.81
ZZ112802		0.64	0.10	7.38	5.8	1870	1.38	0.18	2.24	0.30	76.0	22.9	71	9.17	50.6	4.15
ZZ112803		0.34	0.19	4.47	3.9	600	0.78	0.14	1.32	0.83	28.8	14.0	59	4.62	60.8	3.21
ZZ112804		0.66	0.14	6.98	7.4	820	1.28	0.14	2.16	0.35	56.8	42.3	75	5.89	138.0	4.73
ZZ112805		0.40	0.06	6.52	8.9	800	1.06	0.17	2.10	0.35	39.7	18.0	102	3.17	40.3	4.13
ZZ112806		0.62	0.10	8.93	289	280	0.93	0.08	1.40	0.27	11.70	51.1	156	49.1	60.5	8.07
ZZ112807		0.56	0.04	6.30	7.2	930	1.13	0.15	1.58	0.37	43.9	11.1	71	2.64	20.9	3.10
ZZ112808		0.58	0.09	6.85	9.1	800	1.32	0.16	1.99	0.23	50.9	29.3	73	6.21	130.0	4.20
ZZ112809		0.50	0.06	6.86	8.0	740	1.35	0.16	2.27	0.25	64.6	20.3	92	3.18	41.4	4.35
ZZ112810		0.50	6.22	6.08	17.5	40	0.23	0.52	0.09	0.76	11.80	16.3	116	3.02	1190	21.9
ZZ112811		0.66	0.14	8.09	11.5	510	0.94	0.17	3.71	0.27	31.6	40.1	182	4.60	129.0	5.72
ZZ112812		0.70	0.12	8.08	3.7	490	1.10	0.15	2.84	0.28	31.5	46.6	205	3.80	103.5	6.38
ZZ112813		0.70	0.22	7.32	13.1	700	0.87	0.16	4.21	0.37	33.3	44.5	124	4.03	146.0	4.16
ZZ112814		0.70	0.35	7.01	31.1	480	1.36	0.20	1.04	0.58	25.5	74.0	114	8.25	156.0	11.45
ZZ112815		0.62	0.12	6.93	7.3	960	1.13	0.17	2.10	0.24	48.6	21.2	77	3.12	43.6	3.91
ZZ112816		0.68	0.06	7.07	5.5	820	1.17	0.15	2.50	0.17	56.6	19.4	76	4.00	32.2	3.91
ZZ112817		0.54	0.05	6.63	6.6	900	1.27	0.17	1.51	0.16	38.0	9.3	79	2.24	18.0	3.26
ZZ112818		0.44	0.07	5.95	4.9	840	1.01	0.16	1.43	0.12	38.5	7.9	58	3.25	14.2	2.87
ZZ112819		0.40	0.11	5.51	6.4	750	1.07	0.15	1.40	0.53	35.9	8.5	61	2.55	16.4	2.82
ZZ112820		0.36	0.11	5.42	3.5	810	1.01	0.13	1.82	1.29	31.0	10.7	58	4.81	18.9	2.62
ZZ112821		0.66	3.63	7.93	33.6	230	1.07	0.79	0.88	0.19	83.4	9.0	2	5.70	426	16.00
ZZ112822		0.64	0.82	7.71	27.2	900	1.43	0.19	2.22	0.33	58.9	32.4	134	7.95	90.1	5.52

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Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
ZZ112766		13.90	0.08	1.3	0.041	1.13	21.2	18.8	1.04	726	0.69	1.63	6.3	23.6	1370	20.2
ZZ112767		14.65	0.08	1.6	0.055	1.10	16.9	14.8	1.31	705	0.68	1.89	7.2	29.8	1010	9.3
ZZ112768		14.75	0.11	1.6	0.050	1.16	20.4	16.4	1.27	1040	0.71	2.01	6.7	28.5	1220	9.9
ZZ112769		15.40	0.09	1.8	0.043	1.48	17.7	17.6	1.01	567	0.84	2.18	6.3	20.4	760	9.2
ZZ112770		14.25	0.08	1.5	0.037	1.28	16.4	20.4	0.87	856	0.97	1.76	5.7	17.6	1770	8.2
ZZ112771		16.45	0.11	1.7	0.066	1.30	19.0	19.4	1.22	944	0.71	2.06	8.4	29.4	850	10.2
ZZ112772		14.30	0.10	1.7	0.053	1.18	19.3	16.5	1.11	893	0.79	1.77	7.8	26.6	1310	11.6
ZZ112773		15.25	0.10	1.7	0.050	1.11	19.0	15.5	1.23	839	1.02	1.74	7.7	30.5	1700	8.9
ZZ112774		14.80	0.09	1.3	0.049	1.17	20.3	17.3	1.24	806	0.64	1.88	7.1	29.6	1110	9.8
ZZ112775		15.85	0.10	1.6	0.051	1.21	19.1	16.4	1.32	975	0.80	2.07	7.7	28.2	920	10.7
ZZ112776		14.60	0.09	1.5	0.047	1.24	17.7	16.4	1.14	771	0.80	1.90	7.6	25.3	840	10.7
ZZ112777		13.45	0.11	1.4	0.046	1.28	20.3	17.7	1.01	817	0.71	1.73	7.5	25.8	1480	10.6
ZZ112795		18.70	0.13	1.5	0.057	0.85	23.0	21.9	3.29	994	1.03	1.55	7.3	62.3	1250	10.0
ZZ112796		15.75	0.12	2.1	0.056	1.26	30.7	16.7	1.78	1160	0.80	2.13	9.1	41.8	930	10.6
ZZ112797		13.55	0.10	1.7	0.047	1.27	22.9	15.1	1.10	636	0.78	1.96	8.2	28.0	1220	11.6
ZZ112798		18.25	0.11	1.6	0.083	1.10	18.0	30.7	1.76	2180	1.53	1.38	6.3	38.7	1630	10.0
ZZ112799		14.60	0.10	1.7	0.047	1.37	21.9	14.4	1.06	1140	1.05	1.85	8.8	24.0	2170	12.2
ZZ112800		18.40	0.10	1.5	0.071	0.64	14.9	16.3	2.25	2050	1.43	1.24	5.2	55.3	1050	8.4
ZZ112801		14.75	0.08	1.7	0.074	0.87	13.7	26.2	1.29	2030	1.23	1.34	4.8	28.5	2590	8.8
ZZ112802		16.25	0.12	2.4	0.047	1.38	38.7	15.3	1.32	1130	0.78	2.06	8.5	29.3	1420	28.0
ZZ112803		9.99	0.08	1.1	0.044	0.99	15.7	10.3	0.75	666	0.89	1.22	5.4	21.8	3250	9.0
ZZ112804		14.60	0.10	1.6	0.052	1.28	27.5	18.2	1.42	841	0.94	1.98	8.3	57.5	1130	17.3
ZZ112805		13.90	0.19	1.8	0.049	1.22	18.9	17.8	1.57	872	1.24	1.92	7.5	42.7	1320	14.4
ZZ112806		23.2	0.17	1.1	0.093	0.58	4.0	35.5	0.71	1360	0.36	1.47	1.5	67.7	640	7.5
ZZ112807		13.45	0.19	1.4	0.049	1.54	23.2	15.1	0.94	664	0.78	1.98	7.7	22.8	1500	14.1
ZZ112808		14.85	0.19	1.6	0.050	1.33	23.1	18.3	1.31	892	0.86	1.88	8.2	41.9	1170	12.5
ZZ112809		15.40	0.21	2.0	0.058	1.24	31.1	18.0	1.54	951	0.79	2.00	9.4	37.5	1050	14.8
ZZ112810		26.0	0.22	2.3	0.211	0.08	3.9	14.7	3.39	465	14.65	1.23	2.1	23.7	1240	10.1
ZZ112811		17.45	0.15	1.9	0.062	0.91	15.4	17.0	2.67	1280	0.82	1.63	6.0	53.7	1090	11.6
ZZ112812		16.50	0.17	2.0	0.070	0.57	15.3	20.9	3.84	1560	0.39	1.50	6.0	58.6	1050	12.2
ZZ112813		13.50	0.20	1.1	0.047	1.08	17.2	12.1	1.82	849	0.74	1.57	5.1	64.7	1010	16.1
ZZ112814		16.75	0.17	1.4	0.071	0.92	9.8	29.1	2.03	3510	0.83	0.51	2.4	76.2	730	35.0
ZZ112815		14.90	0.20	1.4	0.051	1.44	24.7	14.0	1.23	768	0.87	2.05	7.7	36.3	1120	15.1
ZZ112816		15.20	0.21	1.9	0.049	1.18	29.2	12.9	1.25	796	0.71	1.90	8.5	31.0	740	12.1
ZZ112817		13.50	0.19	1.5	0.047	1.42	19.7	14.4	0.95	490	0.66	1.96	8.3	24.3	1210	14.0
ZZ112818		13.95	0.20	1.2	0.039	1.37	19.1	12.2	0.84	515	0.61	1.83	6.7	20.7	1110	14.5
ZZ112819		11.90	0.22	1.3	0.046	1.21	18.6	11.2	0.69	476	0.88	1.60	7.5	17.8	2030	10.8
ZZ112820		11.55	0.16	1.2	0.044	1.26	16.0	8.3	0.73	1570	0.79	1.86	6.3	17.0	2530	11.1
ZZ112821		33.3	0.31	0.5	0.290	0.46	25.3	13.3	0.56	430	1.32	1.82	6.5	3.7	5030	10.8
ZZ112822		17.15	0.18	2.1	0.059	1.40	30.4	31.3	0.95	1420	0.76	1.67	7.9	54.6	730	28.2

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	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
ZZ112766		49.0	<0.002	0.08	0.68	13.2	2	1.0	216	0.48	<0.05	6.11	0.355	0.34	2.6	110
ZZ112767		40.1	<0.002	0.04	0.71	17.7	1	1.1	241	0.54	<0.05	9.93	0.486	0.30	2.3	146
ZZ112768		42.7	<0.002	0.06	0.64	15.9	1	1.0	294	0.49	<0.05	5.35	0.458	0.29	1.7	127
ZZ112769		45.6	<0.002	0.03	0.63	11.4	1	1.0	363	0.47	<0.05	5.33	0.376	0.30	1.6	105
ZZ112770		42.3	<0.002	0.10	0.62	10.9	2	0.9	312	0.40	<0.05	4.93	0.344	0.29	1.7	98
ZZ112771		52.0	<0.002	0.03	0.86	19.1	2	1.4	267	0.65	<0.05	4.67	0.475	0.34	1.7	152
ZZ112772		45.0	<0.002	0.05	0.79	14.5	2	1.2	267	0.60	<0.05	4.99	0.464	0.29	1.8	139
ZZ112773		41.0	<0.002	0.07	0.71	14.9	2	1.2	271	0.63	<0.05	4.68	0.474	0.28	1.6	149
ZZ112774		46.6	<0.002	0.07	0.72	15.2	2	1.1	263	0.54	<0.05	4.24	0.413	0.30	2.1	124
ZZ112775		45.9	<0.002	0.04	0.75	19.1	1	1.2	268	0.59	<0.05	5.88	0.518	0.33	2.2	156
ZZ112776		48.9	<0.002	0.05	0.82	14.6	1	1.2	264	0.56	<0.05	4.47	0.444	0.32	1.8	135
ZZ112777		54.3	<0.002	0.07	0.81	14.9	2	1.1	246	0.53	<0.05	6.31	0.393	0.35	2.9	115
ZZ112795		26.1	<0.002	0.06	0.81	23.4	2	1.3	277	0.57	0.05	5.12	0.649	0.24	1.7	206
ZZ112796		43.3	<0.002	0.02	0.93	19.0	2	1.3	354	0.71	<0.05	7.68	0.541	0.33	2.1	162
ZZ112797		49.5	<0.002	0.07	0.76	12.8	2	1.2	317	0.58	0.05	5.40	0.415	0.31	1.8	111
ZZ112798		42.6	<0.002	0.05	1.33	36.1	2	1.4	188.5	0.44	0.06	3.51	0.685	0.32	1.1	275
ZZ112799		58.8	<0.002	0.07	0.95	13.5	2	1.3	292	0.63	<0.05	5.60	0.436	0.39	1.7	128
ZZ112800		23.9	<0.002	0.05	0.92	27.1	4	1.0	203	0.38	0.06	3.20	0.503	0.45	1.0	236
ZZ112801		39.4	<0.002	0.11	1.30	31.2	2	1.0	165.5	0.33	<0.05	3.09	0.512	0.26	1.3	200
ZZ112802		45.1	<0.002	0.04	0.76	14.7	2	1.1	296	0.61	<0.05	11.60	0.449	0.35	3.8	120
ZZ112803		52.5	<0.002	0.22	0.87	10.1	1	0.8	192.0	0.40	0.06	3.70	0.289	0.26	1.3	90
ZZ112804		45.2	<0.002	0.05	1.00	16.2	2	1.1	334	0.58	<0.05	5.77	0.430	0.33	2.3	121
ZZ112805		43.8	0.002	0.07	1.24	14.9	1	1.2	284	0.51	<0.05	5.40	0.389	0.32	1.8	121
ZZ112806		30.8	<0.002	0.07	85.8	60.2	2	1.1	130.0	0.10	<0.05	0.53	0.743	1.73	0.2	388
ZZ112807		57.8	0.003	0.06	1.21	11.7	1	1.2	292	0.53	<0.05	6.83	0.322	0.41	1.9	91
ZZ112808		48.4	0.002	0.08	1.17	15.1	2	1.4	297	0.58	0.06	6.45	0.398	0.36	2.0	123
ZZ112809		43.0	<0.002	0.06	1.05	16.0	1	1.5	318	0.69	<0.05	8.08	0.485	0.32	2.2	132
ZZ112810		3.0	0.007	0.32	1.17	39.0	20	0.9	28.6	0.14	0.18	0.36	0.893	0.06	3.0	452
ZZ112811		28.7	0.003	0.07	0.84	27.9	1	1.4	233	0.41	0.05	4.60	0.509	0.27	1.5	198
ZZ112812		18.8	0.002	0.04	0.50	37.6	1	1.6	164.0	0.37	<0.05	5.17	0.505	0.18	1.6	202
ZZ112813		37.1	0.003	0.04	1.08	18.8	1	1.0	283	0.39	0.13	4.23	0.325	0.26	1.3	123
ZZ112814		35.9	<0.002	0.02	2.44	43.0	2	0.9	126.0	0.16	0.15	1.16	0.579	0.34	2.4	236
ZZ112815		53.5	0.002	0.05	1.04	14.5	1	1.3	320	0.53	<0.05	7.23	0.368	0.42	2.3	114
ZZ112816		40.5	0.002	0.04	0.81	14.0	1	1.4	317	0.63	<0.05	7.74	0.444	0.32	2.2	122
ZZ112817		51.2	0.002	0.07	0.93	11.7	1	1.2	279	0.56	<0.05	6.19	0.358	0.43	2.0	94
ZZ112818		50.1	0.002	0.08	0.79	9.6	1	1.1	274	0.49	0.05	9.74	0.309	0.36	2.1	78
ZZ112819		47.1	0.002	0.13	0.82	10.0	1	1.2	238	0.52	<0.05	5.52	0.315	0.30	2.0	73
ZZ112820		72.3	<0.002	0.13	0.77	11.7	1	1.1	272	0.44	<0.05	4.45	0.321	0.32	1.5	79
ZZ112821		24.2	0.002	0.90	9.36	30.7	5	2.4	170.0	0.38	0.70	0.88	0.740	0.53	0.6	23
ZZ112822		49.7	0.002	0.02	3.18	26.2	1	1.3	312	0.60	0.07	7.85	0.424	0.45	2.4	158

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

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

Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- ICP21 Au ppm 0.001
ZZ112766		0.9	18.5	68	41.3	0.001
ZZ112767		0.9	16.9	65	48.6	<0.001
ZZ112768		1.0	18.5	68	56.0	0.001
ZZ112769		0.9	14.4	58	56.0	<0.001
ZZ112770		0.8	14.1	61	51.6	0.005
ZZ112771		1.3	18.7	58	41.0	0.001
ZZ112772		1.1	16.9	73	48.8	0.001
ZZ112773		1.0	17.9	73	47.0	<0.001
ZZ112774		1.2	26.0	59	37.0	0.001
ZZ112775		1.0	22.7	63	42.6	0.002
ZZ112776		1.0	17.2	69	44.0	0.001
ZZ112777		1.0	23.3	75	44.0	0.002
ZZ112795		0.9	20.6	92	41.0	0.009
ZZ112796		1.2	21.0	78	57.1	0.003
ZZ112797		1.5	15.7	63	56.5	0.002
ZZ112798		5.4	34.8	103	46.5	0.003
ZZ112799		1.2	14.6	101	52.4	0.005
ZZ112800		0.9	23.4	691	37.0	0.013
ZZ112801		4.0	18.1	136	43.3	0.052
ZZ112802		1.1	19.8	88	66.1	0.002
ZZ112803		0.9	9.7	70	35.2	0.003
ZZ112804		1.0	18.7	104	45.0	0.006
ZZ112805		0.9	15.8	90	52.2	0.005
ZZ112806		4.7	36.9	123	30.8	0.005
ZZ112807		0.9	12.7	60	43.6	0.001
ZZ112808		1.2	19.7	85	53.0	0.002
ZZ112809		1.5	19.6	90	75.5	0.011
ZZ112810		1.6	19.0	472	89.9	0.022
ZZ112811		1.2	21.3	99	63.1	0.006
ZZ112812		1.7	22.5	100	75.4	0.003
ZZ112813		3.2	15.8	82	33.0	0.119
ZZ112814		7.2	60.9	153	40.0	0.007
ZZ112815		1.3	16.3	70	50.2	0.003
ZZ112816		1.3	18.9	65	60.7	0.006
ZZ112817		1.3	13.1	52	51.8	0.004
ZZ112818		1.9	10.6	60	44.5	0.011
ZZ112819		1.1	14.1	58	44.2	0.002
ZZ112820		1.5	13.2	95	52.2	0.010
ZZ112821		49.3	97.6	96	11.4	0.497
ZZ112822		12.9	26.5	90	54.3	0.125

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Finalized Date: 23- SEP- 2016
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CERTIFICATE OF ANALYSIS WH16139955

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
ZZ112823		0.40	0.13	4.90	3.7	550	0.69	0.16	1.23	1.07	26.3	15.0	50	3.91	23.8	2.88
ZZ112824		0.46	0.10	5.85	5.5	690	1.00	0.18	1.67	0.23	38.8	17.9	75	2.76	37.0	3.41
ZZ112825		0.46	0.05	5.46	5.4	780	1.01	0.19	1.30	0.17	30.9	10.2	66	2.62	17.8	3.04
ZZ112826		0.50	0.05	6.56	5.1	800	1.09	0.15	1.80	0.17	35.1	11.6	73	1.94	22.9	3.33
ZZ112827		0.62	0.22	6.20	7.0	580	0.88	0.18	2.64	0.18	33.6	44.1	70	2.36	138.0	6.40
ZZ112828		0.58	0.12	6.52	6.5	730	1.09	0.53	2.30	0.19	43.4	31.5	75	2.34	72.6	4.45
ZZ112829		0.32	0.07	5.83	5.4	760	1.18	0.15	1.30	0.40	36.4	12.4	69	1.86	32.9	2.90
ZZ112830		0.54	0.05	7.01	6.5	880	1.29	0.15	2.00	0.17	47.9	16.9	78	2.53	33.5	3.70
ZZ112831		0.50	0.12	6.33	5.8	700	1.00	0.18	1.63	0.25	35.3	18.8	65	2.14	67.2	3.59
ZZ112832		0.42	0.05	5.26	5.7	850	1.07	0.19	1.24	0.28	32.4	8.4	70	2.28	15.4	3.06
ZZ112833		0.50	0.03	6.00	5.9	890	1.10	0.16	1.28	0.13	37.0	9.2	69	1.86	16.3	3.06
ZZ112834		0.58	0.05	6.14	6.0	850	1.09	0.15	1.64	0.17	41.3	11.2	88	1.90	17.3	3.27
ZZ112835		0.54	0.05	6.30	6.3	910	1.18	0.16	1.77	0.23	35.9	12.2	91	2.21	23.7	3.35
ZZ112836		0.56	0.05	5.95	5.8	830	1.19	0.19	1.34	0.17	43.3	9.6	87	2.81	19.0	3.06
ZZ112837		0.42	0.06	6.03	5.4	780	1.07	0.17	1.62	0.14	34.3	11.5	75	2.29	20.5	3.46
ZZ112838		0.44	0.05	6.00	5.4	850	1.18	0.17	1.43	0.11	37.2	9.1	67	2.09	16.0	2.88
ZZ112839		0.56	0.04	6.98	4.6	750	1.26	0.13	2.45	0.17	46.3	16.9	80	1.65	22.4	3.81
ZZ112840		0.60	0.04	9.43	8.1	570	1.42	0.18	1.79	0.18	28.9	27.9	124	11.60	45.1	5.89
ZZ112841		0.50	0.12	5.87	5.9	870	1.08	0.23	1.32	0.20	35.3	8.4	76	3.15	19.7	3.17
ZZ112842		0.56	0.07	6.96	6.4	890	1.24	0.18	1.79	0.17	35.7	14.3	80	2.55	23.0	3.66
ZZ112843		0.58	0.04	7.49	5.1	790	1.15	0.15	2.18	0.15	35.6	16.6	77	2.05	21.7	3.99
ZZ112844		0.64	0.04	8.12	2.8	630	1.00	0.18	2.39	0.09	30.6	26.7	85	2.70	30.7	4.55

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1016- 510 W HASTINGS ST
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Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
ZZ112823		11.50	0.14	1.0	0.038	0.85	11.4	11.1	0.76	1240	0.82	1.11	4.7	18.6	2650	10.7
ZZ112824		13.80	0.16	1.5	0.043	1.13	19.6	13.2	0.95	767	1.07	1.53	7.8	27.1	1810	12.4
ZZ112825		13.50	0.16	1.3	0.039	1.32	16.4	10.8	0.76	433	0.87	1.47	7.4	21.3	1790	13.2
ZZ112826		12.90	0.18	1.2	0.046	1.26	17.0	16.7	1.24	564	0.57	1.94	7.6	25.5	970	12.4
ZZ112827		15.15	0.19	1.7	0.056	0.92	16.3	13.5	1.40	1020	1.11	1.41	6.4	41.5	1720	11.7
ZZ112828		14.50	0.16	1.6	0.052	1.16	21.9	14.4	1.17	848	1.17	1.67	8.0	34.7	1370	11.8
ZZ112829		12.55	0.21	1.3	0.039	1.26	18.8	14.8	0.78	487	0.92	1.47	8.2	24.8	1770	11.7
ZZ112830		14.50	0.20	1.7	0.048	1.38	23.6	16.8	1.23	653	0.87	2.02	8.0	39.0	850	13.1
ZZ112831		13.50	0.20	1.4	0.048	1.19	18.0	14.9	0.94	621	1.28	1.55	7.4	31.0	1860	11.5
ZZ112832		14.00	0.16	1.4	0.039	1.42	17.1	10.9	0.70	460	1.14	1.49	9.2	18.8	1760	13.9
ZZ112833		14.50	0.18	1.6	0.041	1.39	18.9	16.3	0.93	466	0.76	1.75	8.2	26.1	1130	13.3
ZZ112834		13.95	0.17	1.5	0.047	1.39	21.1	14.8	0.99	542	0.78	1.70	9.0	31.2	940	13.0
ZZ112835		14.20	0.17	1.6	0.044	1.39	18.1	15.4	1.10	685	0.77	1.85	8.5	35.0	940	12.6
ZZ112836		14.15	0.19	1.6	0.042	1.33	22.3	14.4	0.85	530	0.95	1.55	9.4	28.8	1540	13.8
ZZ112837		14.15	0.18	1.4	0.048	1.26	17.5	14.9	0.93	538	1.34	1.64	8.0	24.2	1410	12.4
ZZ112838		13.60	0.18	1.6	0.042	1.46	19.2	14.4	0.79	478	0.86	1.66	8.6	20.8	1250	13.8
ZZ112839		14.30	0.20	2.1	0.052	1.23	22.6	14.2	1.37	666	0.61	1.91	7.9	31.0	900	11.2
ZZ112840		24.1	0.18	1.3	0.081	1.20	12.8	87.3	1.19	1020	0.49	1.23	5.1	54.4	760	9.8
ZZ112841		14.80	0.19	1.6	0.042	1.38	18.5	14.5	0.76	481	1.03	1.60	10.3	24.9	1970	14.8
ZZ112842		14.35	0.21	1.7	0.043	1.34	18.3	18.2	1.26	701	0.68	1.96	7.6	33.7	980	12.7
ZZ112843		14.90	0.19	1.5	0.048	1.06	18.0	18.6	1.39	615	0.62	2.09	7.3	35.2	880	10.1
ZZ112844		16.00	0.19	1.5	0.049	0.87	15.0	22.0	1.69	782	0.44	2.18	6.0	37.9	620	9.7

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Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
ZZ112823		46.1	0.002	0.18	0.68	9.4	1	0.9	177.0	0.33	0.05	3.30	0.240	0.24	1.2	73
ZZ112824		46.8	0.002	0.12	0.87	11.0	1	1.3	229	0.55	0.05	5.88	0.329	0.33	2.0	96
ZZ112825		55.7	0.002	0.12	0.91	10.2	1	1.2	216	0.55	0.05	5.63	0.320	0.34	1.8	89
ZZ112826		47.2	0.002	0.06	0.80	13.9	<1	1.2	254	0.66	<0.05	5.98	0.302	0.36	1.7	90
ZZ112827		35.4	0.002	0.08	0.95	16.8	2	1.2	245	0.59	0.07	4.65	0.463	0.31	1.7	142
ZZ112828		42.8	<0.002	0.09	1.15	13.3	1	1.3	276	0.59	0.05	5.98	0.399	0.33	2.0	119
ZZ112829		48.0	0.002	0.11	0.92	9.5	1	1.2	218	0.57	<0.05	5.70	0.302	0.35	1.9	78
ZZ112830		50.1	0.002	0.04	0.99	13.2	1	1.3	288	0.58	<0.05	6.78	0.376	0.36	2.0	106
ZZ112831		42.1	0.002	0.13	0.84	11.0	2	1.2	245	0.51	0.06	5.39	0.346	0.35	1.8	98
ZZ112832		58.5	<0.002	0.09	1.03	9.8	1	1.4	217	0.68	<0.05	4.78	0.365	0.42	1.8	98
ZZ112833		48.7	<0.002	0.06	0.97	10.3	1	1.3	275	0.57	0.08	5.69	0.333	0.40	2.0	91
ZZ112834		51.5	<0.002	0.06	1.04	11.8	1	1.3	242	0.64	<0.05	7.21	0.380	0.41	1.9	101
ZZ112835		51.3	0.002	0.05	1.06	12.6	1	1.3	261	0.59	<0.05	5.53	0.376	0.38	1.8	102
ZZ112836		50.6	0.002	0.07	1.12	11.1	1	1.4	221	0.65	<0.05	6.52	0.362	0.45	2.0	94
ZZ112837		44.7	0.003	0.08	0.97	11.3	1	1.3	263	0.54	0.05	5.12	0.382	0.37	1.8	104
ZZ112838		53.8	0.003	0.07	0.99	9.9	1	1.4	249	0.63	<0.05	5.90	0.335	0.43	1.9	87
ZZ112839		42.2	<0.002	0.05	0.86	16.2	1	1.3	259	0.59	<0.05	6.81	0.407	0.32	2.0	121
ZZ112840		40.6	0.002	0.03	2.28	33.9	1	1.1	174.5	0.36	<0.05	3.53	0.623	0.34	1.3	250
ZZ112841		50.5	0.002	0.09	1.28	11.7	1	1.7	229	0.84	<0.05	7.70	0.394	0.46	2.3	107
ZZ112842		52.6	0.002	0.06	1.03	14.7	1	1.2	262	0.50	<0.05	6.50	0.375	0.39	1.9	111
ZZ112843		37.2	0.002	0.04	0.96	16.2	1	1.2	271	0.47	<0.05	5.67	0.428	0.31	1.6	126
ZZ112844		30.1	<0.002	0.03	0.61	20.4	1	1.1	239	0.38	<0.05	5.38	0.460	0.27	1.5	150

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CERTIFICATE OF ANALYSIS WH16139955

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Au- ICP21
	Analyte	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm
	LOR	0.1	0.1	2	0.5	0.001
ZZ112823		2.1	9.3	73	36.0	0.001
ZZ112824		1.4	12.2	72	59.0	0.003
ZZ112825		1.1	10.7	45	59.5	0.023
ZZ112826		1.0	11.2	60	41.1	0.002
ZZ112827		1.4	19.9	81	51.7	0.003
ZZ112828		1.1	15.8	75	53.2	0.062
ZZ112829		0.9	11.5	57	46.8	<0.001
ZZ112830		1.2	14.7	63	57.7	0.003
ZZ112831		1.0	12.2	73	51.9	0.001
ZZ112832		1.1	9.9	52	50.9	0.002
ZZ112833		1.0	11.0	48	69.5	<0.001
ZZ112834		1.1	13.4	55	49.9	0.002
ZZ112835		1.0	12.7	63	50.1	0.001
ZZ112836		1.2	11.3	46	58.4	0.001
ZZ112837		0.9	11.2	53	49.5	0.003
ZZ112838		1.1	11.4	45	50.8	0.002
ZZ112839		1.1	19.2	50	55.7	0.004
ZZ112840		3.4	20.0	69	39.5	0.003
ZZ112841		1.2	12.4	47	59.0	0.003
ZZ112842		1.2	12.7	61	57.7	0.001
ZZ112843		1.1	14.9	51	49.3	0.001
ZZ112844		1.2	16.4	51	54.1	0.006

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

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

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

Finalized Date: 23- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16139955

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 Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP21 LOG- 22 ME- MS61 SCR- 41
WEI- 21

ALS Canada Ltd.

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North Vancouver BC V7H 0A7
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- SEP- 2016
Account: MTT

CERTIFICATE WH16146366

Project: Hartless Joe

This report is for 5 Reject samples submitted to our lab in Whitehorse, YT, Canada on 22- AUG- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SCR- 21	Screen to - 100 to 106 um
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

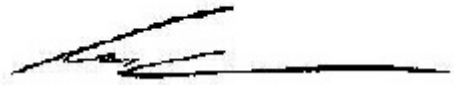
ANALYTICAL PROCEDURES

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
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

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16146366

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
K282984		<0.05	0.32	<0.05	0.036	113.35	893.2	<0.01	<0.01
K282985		<0.05	<0.05	<0.05	<0.001	18.33	1018.0	0.01	0.01
K282986		0.07	0.98	<0.05	0.043	43.81	1030.5	0.03	0.03
K282987		4.11	2.82	4.22	0.248	87.94	1055.0	4.08	4.36
K282988		<0.05	<0.05	<0.05	<0.001	50.52	1037.5	0.02	0.03

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

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

Finalized Date: 22- SEP- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16146366

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA25	Au- AA25D	Au- SCR21	BAG- 01
FND- 03	PUL- 32	SCR- 21	SPL- 21

ALS Canada Ltd.

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

Finalized Date: 18- OCT- 2016
Account: MTT

CERTIFICATE WH16154782

Project: Hartless Joe

P.O. No.: Batch 1

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 32	Fine Crushing 90% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 35a	Pulv 1 kg split to 95%< 106 um
BAG- 01	Bulk Master for Storage
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 35ad	Pulv 1 kg split to 95%< 106 um DUP

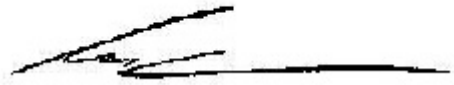
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid 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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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154782

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K292901		1.20	0.08	7.46	3.7	160	0.41	0.04	5.39	0.48	11.95	34.9	108	0.42	78.7	7.35
K292902		3.66	0.12	7.54	2.6	20	0.31	0.02	4.92	0.09	7.66	41.4	163	0.51	86.9	6.86
K292903		5.26	0.08	7.86	1.8	10	0.28	0.01	4.01	0.05	9.02	39.0	153	0.78	75.5	7.52
K292904		7.58	0.03	7.51	1.9	10	0.37	0.02	4.39	0.04	11.05	42.9	48	0.79	57.4	7.63
K292905		3.50	0.01	7.35	1.2	20	0.39	0.01	4.59	<0.02	9.51	38.7	85	0.39	6.7	7.45
K292906		5.08	0.01	0.08	<0.2	30	0.07	0.02	20.9	0.05	1.04	0.8	1	0.12	3.8	0.51
K292907		4.42	0.03	7.65	2.0	20	0.34	0.04	4.59	0.03	10.70	37.9	127	1.06	67.2	7.47
K292908		4.16	0.04	7.31	1.6	30	0.46	0.01	5.28	0.06	8.43	40.3	60	0.74	89.8	8.46
K292909		6.26	0.20	7.80	4.7	30	0.31	0.04	4.61	0.15	8.37	60.2	191	1.73	321	9.26
K292910		3.94	0.19	7.79	4.5	20	0.34	0.05	4.66	0.14	8.58	64.3	191	1.74	265	9.26
K292911		2.06	0.87	8.04	35.7	90	0.45	0.06	4.12	0.36	6.54	54.2	97	3.83	105.5	10.35
K292912		1.72	27.0	5.11	89.2	150	0.43	0.07	4.76	1.90	5.11	61.0	88	10.95	5110	10.95
K292913		2.90	2.25	7.14	26.7	80	0.32	0.42	2.40	0.16	7.06	79.5	120	5.29	1030	13.20
K292914		1.38	4.98	5.22	192.0	150	0.42	0.15	6.21	1.73	6.35	44.4	60	4.82	402	8.38
K292915		2.44	8.49	6.54	37.8	160	0.64	0.05	6.08	0.58	7.89	42.1	52	5.16	662	8.99
K292916		2.46	2.36	7.09	12.5	110	0.52	0.03	4.66	0.14	6.71	49.8	126	4.80	600	11.95
K292917		5.10	0.01	0.06	<0.2	60	0.05	0.02	21.4	0.06	1.04	0.8	1	0.10	3.1	0.50
K292918		5.18	4.18	7.06	168.0	170	0.50	0.08	6.49	0.42	5.98	36.4	153	4.97	473	7.70
K292919		3.56	0.17	6.49	921	50	0.44	0.07	6.83	0.06	11.90	34.7	166	4.37	57.5	6.45
K292920		0.16	7.21	3.97	496	760	0.79	0.06	0.18	0.09	19.75	8.2	34	5.46	45.4	3.30
K292921		4.00	0.09	7.61	18.4	50	0.35	0.06	6.70	0.07	7.86	41.8	154	1.72	155.0	7.99
K292922		4.70	0.13	7.48	8.9	50	0.63	0.05	6.51	0.21	18.75	42.3	202	0.73	438	8.57
K292923		2.40	0.08	7.67	6.8	20	0.50	0.19	5.45	0.09	7.77	44.3	133	0.37	37.3	8.42
K292924		7.38	0.07	7.60	5.3	20	0.31	0.03	6.01	0.95	7.24	46.2	129	0.71	120.0	7.99
K292925		<0.02	0.07	7.89	5.2	20	0.29	0.03	6.12	0.97	7.17	43.1	138	0.77	118.0	8.06
K292926		3.28	0.06	7.55	5.3	20	0.34	0.01	6.75	1.06	5.79	39.6	188	0.37	87.8	7.23
K292927		4.70	0.04	7.34	3.8	30	0.34	0.02	6.07	0.34	6.74	41.1	125	0.40	71.1	7.66
K292928		5.44	0.12	7.54	4.3	20	0.37	0.15	4.77	0.17	8.76	44.8	108	0.70	264	9.67
K292929		3.86	0.66	7.18	31.8	20	0.33	0.18	3.96	0.50	7.37	55.6	135	0.57	1300	10.65
K292930		0.12	19.60	6.91	18.2	350	0.73	0.22	1.72	3.32	24.5	20.8	35	3.78	164.0	4.22
K292931		1.36	0.05	8.30	7.7	920	1.71	0.13	2.66	0.11	63.4	12.9	11	0.69	24.3	4.90
K292932		2.62	0.08	7.38	5.8	320	0.92	0.04	3.46	0.10	25.3	38.0	119	0.92	276	9.44
K292933		7.30	0.20	6.85	7.6	60	0.39	0.14	3.24	0.20	12.05	52.6	49	1.09	984	11.60
K292934		6.82	0.24	6.26	2.7	10	0.33	0.16	2.39	0.34	11.15	52.9	27	1.52	1080	12.00
K292935		6.88	0.19	6.45	3.5	10	0.31	0.19	2.62	0.51	9.66	47.6	97	1.32	691	11.70
K292936		7.28	0.20	6.65	3.0	10	0.36	0.12	3.05	0.28	15.60	49.7	35	1.36	935	12.20

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

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154782

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K292901		16.65	0.08	1.8	0.070	0.15	4.6	6.8	4.51	1360	1.11	3.09	2.6	44.7	590	1.9
K292902		17.00	0.09	1.6	0.076	0.06	2.4	7.3	4.99	1080	0.58	3.29	1.0	69.1	470	2.0
K292903		18.65	0.09	1.8	0.078	0.03	2.9	7.4	5.57	1120	0.35	3.43	1.5	55.3	530	0.7
K292904		19.20	0.06	2.1	0.072	0.04	3.6	6.5	5.18	1220	0.69	3.07	2.3	36.4	730	0.9
K292905		18.30	0.06	2.2	0.079	0.07	3.0	12.4	6.05	1890	0.23	2.62	1.8	46.7	600	1.0
K292906		0.26	0.12	0.3	<0.005	0.02	0.5	1.5	12.90	217	0.47	0.01	0.1	1.7	200	1.1
K292907		18.70	0.08	2.4	0.081	0.08	3.4	11.9	5.47	1600	0.20	2.69	2.1	53.8	680	1.3
K292908		16.85	0.08	1.9	0.076	0.13	2.5	7.0	4.45	1600	0.16	2.84	1.4	43.6	490	1.0
K292909		16.65	0.12	1.2	0.062	0.17	2.6	9.7	4.96	1480	0.20	2.74	1.6	72.4	490	1.6
K292910		16.70	0.12	1.5	0.061	0.16	2.8	9.7	4.87	1470	0.18	2.79	1.6	74.0	490	1.6
K292911		17.90	0.10	1.2	0.082	0.49	2.0	16.5	4.56	1450	0.49	2.13	0.8	58.9	410	7.1
K292912		14.65	0.08	1.0	0.110	2.22	1.5	16.8	4.14	1630	14.60	0.33	0.7	35.3	300	19.9
K292913		17.50	0.11	1.7	0.093	1.10	2.1	15.7	4.89	1770	3.01	1.39	0.9	57.9	450	3.6
K292914		13.05	0.09	0.9	0.093	1.96	1.8	14.4	3.07	1550	1.49	0.44	0.9	36.8	360	18.2
K292915		17.30	0.09	1.1	0.116	1.85	2.2	20.4	4.11	1920	0.83	0.70	1.1	38.0	450	5.5
K292916		19.15	0.08	1.3	0.155	1.08	1.9	21.5	5.51	2360	0.64	0.59	0.9	56.4	410	3.4
K292917		0.17	0.07	<0.1	<0.005	0.02	0.5	1.3	13.05	214	0.07	0.01	0.1	1.6	170	1.3
K292918		15.65	0.08	1.5	0.118	1.75	1.8	21.9	4.52	1660	1.51	1.02	0.8	58.9	350	9.7
K292919		13.25	0.09	1.3	0.077	0.83	5.1	16.9	4.60	1580	1.30	1.52	1.4	56.5	590	3.3
K292920		7.69	0.12	2.2	0.033	3.35	8.5	47.6	0.17	149	5.79	0.09	6.6	15.6	540	5.0
K292921		16.30	0.06	1.6	0.106	0.30	2.6	12.1	4.89	1870	1.75	2.63	1.0	64.7	490	2.8
K292922		16.65	0.08	1.7	0.081	0.16	8.1	13.6	4.96	1660	0.57	2.96	2.2	62.4	770	2.3
K292923		16.00	0.07	1.8	0.094	0.08	2.5	12.7	5.13	1990	2.32	3.05	0.9	57.7	490	2.9
K292924		17.10	0.05	1.7	0.101	0.06	2.1	12.1	5.30	1920	1.70	2.78	0.9	64.8	450	2.4
K292925		16.90	0.08	1.8	0.101	0.06	2.1	12.0	5.42	1950	1.74	2.79	0.9	64.8	450	2.5
K292926		16.50	0.06	1.8	0.085	0.05	1.6	10.0	4.91	1990	1.89	2.71	0.6	78.7	360	2.3
K292927		16.45	0.08	1.5	0.084	0.09	1.9	7.4	4.49	1740	0.83	2.81	0.8	61.8	410	1.4
K292928		18.35	0.08	1.9	0.115	0.05	2.7	7.1	4.28	1840	1.44	3.00	1.6	50.5	510	1.7
K292929		16.75	0.08	1.4	0.098	0.05	2.2	10.9	4.75	1860	2.64	1.91	1.2	59.0	450	1.3
K292930		13.15	0.12	2.0	0.051	2.89	10.1	64.8	1.07	897	28.9	0.89	2.0	18.5	690	35.1
K292931		17.70	0.15	4.5	0.047	1.50	32.1	7.8	1.33	833	2.29	4.43	15.4	3.4	2650	11.1
K292932		18.85	0.08	2.3	0.074	0.42	10.3	9.7	3.80	1800	1.24	2.83	6.0	41.2	1140	3.7
K292933		18.10	0.09	2.5	0.114	0.09	4.0	8.7	4.66	2130	1.13	1.81	2.2	33.3	680	1.6
K292934		16.70	0.09	1.8	0.171	0.03	3.2	8.6	4.50	2250	2.24	1.20	1.8	27.4	630	1.4
K292935		16.10	0.09	1.4	0.189	0.03	2.8	9.8	5.02	2510	0.55	1.41	1.5	44.4	540	1.5
K292936		18.90	0.09	1.8	0.177	0.02	4.7	8.4	4.37	2310	1.32	1.44	3.0	30.2	840	1.1

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

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

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

Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154782

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K292901		4.6	0.003	0.37	0.24	37.1	2	1.8	139.5	0.17	<0.05	0.80	0.794	0.05	0.6	300
K292902		1.2	<0.002	0.22	0.23	44.0	2	1.8	87.4	0.07	<0.05	0.11	0.694	0.02	0.9	300
K292903		0.4	<0.002	0.17	0.22	46.5	2	1.0	60.0	0.10	<0.05	0.14	0.824	<0.02	0.9	328
K292904		0.8	0.002	0.45	0.29	43.1	2	1.0	69.0	0.15	<0.05	0.20	0.973	<0.02	1.4	359
K292905		1.3	<0.002	0.13	0.37	47.3	2	1.0	103.0	0.13	<0.05	0.17	0.845	0.02	1.7	330
K292906		1.0	<0.002	<0.01	0.09	0.3	1	<0.2	44.1	<0.05	<0.05	0.06	0.005	<0.02	0.4	3
K292907		1.7	0.002	0.62	0.41	40.4	2	1.0	109.5	0.15	<0.05	0.19	0.871	0.02	1.1	332
K292908		2.7	0.003	0.37	0.35	40.1	3	0.9	117.0	0.12	<0.05	0.13	0.836	0.04	0.1	330
K292909		4.2	0.004	2.27	0.36	42.7	6	1.1	91.9	0.12	<0.05	0.11	0.753	0.08	0.5	294
K292910		4.7	<0.002	2.39	0.36	41.8	7	1.1	94.4	0.10	<0.05	0.11	0.751	0.09	0.5	294
K292911		15.8	0.003	2.59	0.96	40.2	6	0.9	113.0	0.07	<0.05	0.09	0.681	0.19	0.4	300
K292912		69.3	0.069	2.73	4.09	29.2	6	1.2	100.5	0.05	0.06	0.06	0.557	0.87	0.5	236
K292913		28.8	0.012	5.24	2.65	40.2	10	1.7	62.7	0.08	0.09	0.09	0.783	0.42	1.0	323
K292914		45.8	0.004	4.45	4.09	31.1	4	1.1	146.5	0.07	0.06	0.07	0.709	0.52	0.2	261
K292915		50.4	0.003	1.39	2.11	38.0	2	1.1	153.0	0.09	0.06	0.08	0.872	0.58	0.2	334
K292916		37.5	0.003	1.49	1.01	43.2	2	1.5	127.0	0.06	<0.05	0.07	0.756	0.46	0.2	310
K292917		0.8	<0.002	<0.01	0.07	0.2	1	<0.2	49.2	<0.05	<0.05	0.05	<0.005	<0.02	0.5	2
K292918		49.5	0.004	2.01	2.07	34.9	2	0.8	184.0	0.06	<0.05	0.10	0.597	0.54	1.1	276
K292919		30.3	0.003	0.63	13.10	33.5	2	0.8	181.5	0.09	<0.05	1.25	0.529	0.29	1.2	242
K292920		114.5	<0.002	2.30	45.0	6.9	16	2.5	75.0	0.41	0.13	1.60	0.314	4.63	0.7	57
K292921		7.1	0.003	0.66	0.66	43.1	2	0.9	216	0.07	<0.05	0.35	0.734	0.11	1.4	306
K292922		3.0	<0.002	1.65	0.31	39.0	3	0.9	146.5	0.13	0.05	2.19	0.579	0.05	1.0	261
K292923		0.8	0.003	1.41	0.31	43.0	3	1.0	115.0	0.07	<0.05	0.25	0.760	0.06	0.6	308
K292924		0.5	0.003	0.94	0.32	45.3	2	1.0	153.0	0.06	<0.05	0.10	0.755	0.03	0.6	312
K292925		0.6	0.003	0.95	0.31	43.2	2	1.0	154.5	0.07	<0.05	0.10	0.770	0.03	0.7	315
K292926		0.5	<0.002	0.68	0.37	43.6	2	1.0	167.5	0.06	<0.05	0.07	0.669	<0.02	0.4	287
K292927		1.3	0.003	0.51	0.38	42.6	2	0.8	137.0	0.27	<0.05	0.07	0.737	<0.02	0.2	302
K292928		0.6	0.004	2.10	0.39	39.9	4	1.4	103.5	0.11	<0.05	0.12	0.824	0.02	0.3	320
K292929		1.3	0.006	2.27	0.34	40.1	5	1.4	46.6	0.08	<0.05	0.11	0.774	0.03	0.4	299
K292930		118.0	0.005	1.16	2.06	16.2	2	1.1	214	0.13	10.80	2.48	0.303	1.63	0.8	137
K292931		23.3	<0.002	0.13	0.44	13.7	2	1.9	276	0.92	<0.05	12.00	0.842	0.21	3.6	155
K292932		4.1	0.003	0.43	0.31	32.2	3	1.7	131.0	0.39	<0.05	3.26	0.812	0.07	1.2	258
K292933		1.9	0.005	1.91	0.22	38.1	5	2.3	54.2	0.15	<0.05	0.55	0.989	0.04	0.2	342
K292934		1.0	0.013	2.14	0.14	38.5	5	2.4	46.5	0.13	0.06	0.13	0.991	0.02	0.1	356
K292935		0.9	0.003	2.88	0.16	38.1	5	3.1	43.4	0.11	0.07	0.11	0.873	<0.02	0.1	322
K292936		0.9	0.008	1.56	0.14	40.8	4	2.1	50.6	0.20	<0.05	0.19	1.215	<0.02	0.1	403

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VANCOUVER BC V6B 1L8

Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154782

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- GRA21 Au ppm 0.05
K292901		0.6	28.7	136	51.7	<0.05
K292902		0.3	28.7	109	41.7	<0.05
K292903		0.8	30.0	117	48.8	<0.05
K292904		0.1	33.7	130	62.6	<0.05
K292905		0.1	30.3	182	68.4	<0.05
K292906		0.1	0.8	15	0.5	<0.05
K292907		0.6	31.6	133	75.3	<0.05
K292908		0.1	31.5	101	50.2	<0.05
K292909		0.2	28.1	131	36.9	<0.05
K292910		0.2	27.6	126	33.2	<0.05
K292911		5.2	19.4	189	56.4	<0.05
K292912		16.0	7.3	260	35.6	0.43
K292913		9.9	10.2	201	62.6	<0.05
K292914		35.7	9.9	208	25.2	0.73
K292915		35.8	12.1	149	48.6	0.13
K292916		18.6	10.6	189	57.7	<0.05
K292917		0.1	0.7	17	0.6	<0.05
K292918		20.3	12.2	191	51.9	0.06
K292919		2.7	17.3	146	48.6	<0.05
K292920		10.3	10.6	48	81.2	14.85
K292921		0.2	28.7	155	47.1	<0.05
K292922		0.1	22.6	134	45.5	<0.05
K292923		0.1	28.9	193	56.9	<0.05
K292924		0.1	29.6	597	50.0	<0.05
K292925		0.1	29.8	602	65.9	<0.05
K292926		0.1	26.1	596	37.9	<0.05
K292927		0.1	28.0	221	43.7	<0.05
K292928		0.1	30.3	153	53.4	<0.05
K292929		2.0	28.7	174	39.2	<0.05
K292930		3.2	12.3	122	69.1	9.72
K292931		1.3	23.5	71	178.5	<0.05
K292932		0.6	24.6	138	77.6	<0.05
K292933		0.1	35.6	179	67.3	<0.05
K292934		0.1	34.1	238	38.7	<0.05
K292935		0.1	30.2	363	37.1	<0.05
K292936		0.1	41.8	219	45.6	<0.05

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CERTIFICATE OF ANALYSIS WH16154782

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

Au- GRA21	BAG- 01	CRU- 32	CRU- QC
LOG- 21d	LOG- 22	LOG- 23	ME- MS61
PUL- 35a	PUL- 35ad	PUL- QC	SPL- 21
SPL- 21d	WEI- 21	WSH- 21	WSH- 22

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Finalized Date: 18- OCT- 2016
Account: MTT

CERTIFICATE WH16154785

Project: Hartless Joe

P.O. No.: Batch 2

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 32	Fine Crushing 90% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 35a	Pulv 1 kg split to 95%< 106 um
BAG- 01	Bulk Master for Storage
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 35ad	Pulv 1 kg split to 95%< 106 um DUP

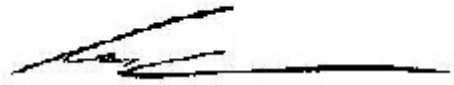
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid 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 WH16154785

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K292937		7.14	0.45	7.06	3.8	30	0.31	0.08	4.04	0.63	10.25	63.4	78	1.26	2590	12.30
K292938		6.88	0.30	7.12	4.0	20	0.34	0.16	2.98	0.33	11.90	58.9	76	1.42	1400	13.85
K292939		4.58	0.23	7.14	3.7	20	0.31	0.16	3.04	0.28	12.05	55.1	72	1.34	1080	13.60
K292940		7.00	0.34	7.02	4.6	40	0.28	0.07	5.49	0.40	7.94	47.9	145	0.90	436	9.56
K292941		7.04	0.23	6.90	2.4	20	0.22	0.06	3.55	0.29	6.49	58.1	135	1.71	863	12.15
K292942		2.76	0.09	8.35	1.6	120	0.45	0.04	4.99	0.38	11.50	35.3	151	0.49	53.9	7.21
K292943		5.06	0.06	8.14	1.9	10	0.41	0.03	5.09	0.05	11.15	40.9	86	0.64	59.7	8.15
K292944		3.36	0.04	8.10	1.4	10	0.36	0.03	4.45	0.04	7.98	39.2	123	0.37	46.3	7.28
K292945		6.44	0.08	8.39	2.9	30	0.39	0.03	4.87	0.07	10.25	43.0	145	0.63	60.9	7.60
K292946		5.04	<0.01	0.08	<0.2	20	0.08	0.03	22.9	0.06	1.01	0.8	1	0.12	1.8	0.54
K292947		2.14	0.06	9.02	3.6	10	0.31	0.12	3.46	0.03	10.50	67.6	164	0.75	84.0	9.65
K292948		2.44	0.07	7.49	3.6	20	0.36	0.07	5.06	0.15	10.05	47.7	113	0.87	208	9.47
K292949		6.94	0.17	7.63	3.3	20	0.34	0.06	5.31	0.12	7.08	42.6	197	1.25	406	8.24
K292950		0.12	20.5	7.02	20.0	380	0.70	0.25	1.85	3.58	24.0	22.7	38	4.00	174.5	4.37
K292951		4.16	0.84	7.40	11.2	100	0.35	0.04	5.07	0.25	7.11	40.7	183	2.24	147.0	7.40
K292952		0.64	2.39	0.81	30.3	30	0.06	0.06	6.39	17.65	2.14	6.5	22	0.97	129.5	3.65
K292953		2.16	13.65	7.67	22.4	430	0.82	0.29	3.59	0.71	26.7	66.6	55	3.72	3090	13.00
K292954		5.02	0.01	0.07	<0.2	20	0.07	0.03	22.8	0.06	0.96	0.7	1	0.37	6.1	0.52
K292955		6.92	0.37	6.99	11.5	40	0.31	0.28	3.91	0.22	9.08	44.4	83	2.16	537	11.05
K292956		2.66	3.85	6.44	134.5	180	0.45	0.25	5.78	1.58	6.58	35.3	61	6.58	391	8.92
K292957		6.00	44.7	4.22	235	150	0.35	0.08	5.74	2.29	3.46	33.1	92	2.77	344	7.80
K292958		4.72	1.69	6.33	30.4	130	0.36	0.07	6.79	0.69	6.04	44.4	114	4.77	418	8.05
K292959		5.16	1.28	6.52	40.6	40	0.33	0.05	5.67	0.35	6.94	41.3	154	1.62	3440	8.39
K292960		2.66	0.09	7.13	11.2	30	0.37	0.04	5.99	0.15	6.13	37.2	104	1.41	321	8.62
K292961		0.16	7.45	3.84	492	480	0.80	0.06	0.19	0.08	17.75	7.3	35	5.13	43.4	3.23
K292962		3.58	0.06	6.84	4.9	60	0.31	0.03	6.14	0.07	6.75	40.9	69	3.33	181.5	8.16
K292963		1.92	0.26	7.36	2.6	10	0.33	0.06	3.98	0.13	9.88	43.4	91	1.64	813	11.55
K292964		6.68	0.35	7.47	3.8	20	0.40	0.06	3.60	0.14	14.85	57.2	70	1.77	829	13.85
K292965		<0.02	0.32	7.40	4.2	20	0.42	0.06	3.55	0.14	14.70	57.6	69	1.77	811	13.65
K292966		7.42	0.19	7.50	5.0	20	0.41	0.12	3.39	0.13	12.20	48.9	83	1.40	402	11.30
K292967		6.64	0.11	6.85	13.4	20	0.44	0.07	4.85	0.16	10.90	40.6	62	0.92	250	9.33
K292968		6.92	0.12	7.03	2.4	30	0.50	0.10	4.27	0.31	11.05	44.8	111	1.02	281	9.66
K292969		6.94	0.08	6.44	2.0	20	0.50	0.08	4.15	0.07	13.35	41.9	44	1.20	246	10.40
K292970		4.94	0.08	7.15	3.2	10	0.35	0.09	3.31	0.10	9.82	60.2	96	1.44	295	12.80
K292971		0.78	0.03	7.43	1.7	40	0.44	0.02	4.31	0.09	7.16	46.5	89	0.55	88.4	8.18
K292972		6.50	0.06	7.70	2.3	30	0.27	0.05	4.34	0.23	7.39	55.2	189	1.17	208	11.20

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

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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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K292937		18.25	0.08	1.3	0.183	0.06	2.9	8.1	4.71	2240	1.42	1.93	1.7	45.8	530	1.1
K292938		19.45	0.07	1.5	0.187	0.03	3.3	8.9	5.27	2200	2.20	1.55	1.9	46.5	620	1.2
K292939		18.60	0.06	1.5	0.162	0.03	3.4	8.5	5.19	2180	1.77	1.68	1.9	44.3	660	1.2
K292940		17.15	0.05	0.7	0.086	0.06	2.5	9.7	4.80	1680	1.79	1.74	1.5	56.6	480	1.1
K292941		16.45	0.05	0.9	0.113	0.04	2.1	9.0	4.90	1900	1.21	1.55	1.0	56.7	380	0.8
K292942		17.50	0.07	1.3	0.072	0.21	3.8	10.3	4.32	1360	0.57	3.39	1.8	60.9	530	1.7
K292943		19.15	0.10	2.0	0.085	0.05	3.3	5.7	5.04	1200	0.49	3.43	1.8	45.0	700	0.8
K292944		18.05	0.10	1.7	0.083	0.04	2.6	6.8	5.38	1240	0.28	3.61	1.3	55.0	550	0.6
K292945		19.10	0.12	1.6	0.080	0.06	3.1	8.8	5.63	1470	0.33	3.33	1.4	60.5	600	1.0
K292946		0.28	0.05	<0.1	<0.005	0.02	0.5	1.3	14.30	239	0.09	0.01	0.2	1.9	200	1.2
K292947		21.1	0.09	1.8	0.091	0.05	3.1	12.3	6.41	1620	0.33	3.57	1.5	64.2	580	0.9
K292948		16.80	0.08	1.3	0.095	0.14	2.9	9.3	5.54	1760	0.49	2.64	1.7	56.0	580	0.9
K292949		16.70	0.08	0.7	0.080	0.09	2.3	6.6	4.71	1480	0.20	2.79	1.4	78.0	430	0.9
K292950		13.75	0.13	1.6	0.049	3.07	11.8	67.2	1.18	964	30.5	0.97	2.0	19.2	760	41.2
K292951		15.85	0.08	0.1	0.067	0.45	2.3	13.6	5.11	1500	0.23	2.26	1.3	81.9	410	7.6
K292952		2.44	<0.05	<0.1	0.056	0.28	0.7	4.5	2.55	1160	1.02	0.04	0.1	9.1	20	177.0
K292953		21.7	0.08	1.4	0.174	1.41	13.1	16.0	4.18	1600	1.74	1.98	5.1	37.5	1110	8.8
K292954		0.26	0.06	<0.1	0.005	0.03	0.5	1.4	14.05	220	0.06	0.01	0.2	1.7	200	1.2
K292955		17.10	<0.05	0.3	0.146	0.34	2.5	14.6	5.19	2330	0.87	2.27	1.3	49.1	540	2.9
K292956		15.95	<0.05	0.5	0.122	2.51	2.1	19.5	4.02	1770	1.98	0.47	1.0	31.2	340	25.9
K292957		10.15	<0.05	0.4	0.128	1.57	1.1	14.3	2.72	1280	1.92	0.21	0.4	43.7	150	77.5
K292958		13.90	<0.05	0.8	0.126	0.96	1.8	21.2	4.70	2260	2.94	1.30	0.7	49.1	400	5.0
K292959		15.20	<0.05	0.6	0.179	0.19	2.2	14.5	4.53	1900	1.51	1.89	1.2	59.6	430	1.8
K292960		16.65	0.08	0.6	0.131	0.11	1.8	11.5	4.76	2110	0.21	2.12	0.7	55.8	380	1.0
K292961		7.33	0.11	1.8	0.033	3.38	7.9	46.0	0.19	155	5.49	0.09	6.0	15.0	570	4.8
K292962		15.50	0.05	0.8	0.074	0.35	2.0	8.9	4.19	1620	0.16	2.56	0.9	45.8	430	0.7
K292963		18.50	0.06	1.1	0.140	0.03	2.7	9.0	5.53	2270	0.20	1.94	1.4	51.1	560	0.7
K292964		21.7	0.08	1.8	0.196	0.05	4.5	9.9	5.36	2510	0.51	2.00	2.6	44.8	770	0.6
K292965		21.4	0.09	1.8	0.192	0.05	4.3	9.7	5.29	2490	0.51	1.96	2.6	44.4	760	0.6
K292966		20.5	0.10	1.8	0.129	0.06	3.9	12.7	5.59	2220	1.10	2.23	2.1	50.3	640	1.0
K292967		17.95	0.09	1.7	0.110	0.07	3.4	9.2	4.43	1900	0.50	2.68	1.9	44.9	590	1.3
K292968		17.35	0.11	1.6	0.116	0.05	3.8	9.1	4.76	2260	0.69	2.79	1.7	54.1	570	1.8
K292969		18.60	0.10	2.0	0.167	0.04	4.3	7.3	4.57	2140	0.74	2.19	2.6	36.9	710	1.3
K292970		20.6	0.11	1.5	0.121	0.03	3.0	10.2	5.67	2340	0.62	1.79	1.5	52.9	510	1.3
K292971		15.55	0.07	1.3	0.074	0.07	2.1	8.9	4.48	1800	0.17	3.48	0.8	57.3	400	1.0
K292972		19.40	0.09	1.0	0.106	0.05	2.3	10.0	5.11	2060	0.46	2.42	1.0	85.1	390	1.0

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

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

Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154785

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K292937		1.4	0.007	1.81	0.21	41.9	5	1.6	87.6	0.12	<0.05	0.10	0.913	0.02	<0.1	346
K292938		0.9	0.010	2.87	0.32	45.1	5	2.2	66.7	0.13	0.09	0.10	1.060	0.03	0.1	381
K292939		0.8	0.008	2.69	0.30	44.8	5	2.2	61.6	0.14	0.07	0.11	1.085	0.03	0.1	386
K292940		1.8	0.008	0.76	0.27	41.3	3	1.3	84.3	0.10	<0.05	0.07	0.808	0.02	<0.1	309
K292941		1.2	0.009	1.63	0.35	40.0	4	1.6	58.8	0.07	<0.05	0.06	0.669	0.02	<0.1	290
K292942		4.5	<0.002	0.15	0.23	41.0	2	0.9	150.0	0.13	<0.05	0.47	0.763	0.04	0.5	291
K292943		0.7	0.002	0.44	0.30	46.7	2	1.0	90.7	0.13	<0.05	0.15	0.930	0.02	0.9	363
K292944		0.5	<0.002	0.11	0.26	46.5	2	0.9	74.1	0.09	<0.05	0.13	0.790	<0.02	1.1	328
K292945		1.3	<0.002	0.22	0.38	48.3	2	0.9	127.0	0.10	<0.05	0.21	0.828	0.02	1.0	336
K292946		0.8	<0.002	<0.01	0.07	0.3	<1	<0.2	52.0	<0.05	<0.05	0.05	0.005	<0.02	0.7	3
K292947		0.7	0.003	2.39	0.51	52.3	7	1.0	73.1	0.10	0.06	0.15	0.892	0.02	1.5	372
K292948		3.3	0.003	1.92	0.38	44.2	5	1.0	98.0	0.12	<0.05	0.13	0.916	0.05	0.7	346
K292949		2.6	0.002	0.97	0.36	39.7	3	0.8	91.8	0.10	<0.05	0.08	0.702	0.06	0.2	286
K292950		122.5	0.005	1.25	2.20	18.3	3	1.1	232	0.13	12.20	2.10	0.324	1.60	0.9	152
K292951		13.0	<0.002	0.50	0.55	41.5	1	0.7	129.0	0.10	<0.05	0.07	0.729	0.17	<0.1	295
K292952		6.9	<0.002	1.06	1.63	4.8	2	0.2	99.6	<0.05	0.06	0.01	0.045	0.11	<0.1	51
K292953		37.9	0.007	4.60	1.01	40.0	8	1.8	201	0.34	0.07	3.37	0.955	0.44	1.3	326
K292954		1.8	<0.002	<0.01	0.10	0.2	<1	<0.2	49.6	<0.05	<0.05	0.05	<0.005	<0.02	0.6	2
K292955		9.3	0.004	3.42	1.08	43.7	3	1.2	112.5	0.09	0.08	0.05	0.956	0.15	0.1	357
K292956		63.1	0.008	3.44	2.53	37.2	3	1.0	130.5	0.07	0.08	0.07	0.738	0.70	0.3	308
K292957		36.1	0.005	4.90	4.92	21.8	5	0.8	131.5	<0.05	0.08	0.04	0.340	0.34	0.3	168
K292958		31.3	0.007	1.25	0.85	37.5	2	0.9	186.0	0.05	<0.05	0.07	0.655	0.33	1.1	280
K292959		5.9	0.006	1.29	0.77	39.1	3	1.0	106.0	0.09	<0.05	0.08	0.729	0.09	0.8	290
K292960		3.4	0.003	0.63	0.44	41.8	2	0.8	102.0	0.06	<0.05	0.05	0.730	0.06	<0.1	302
K292961		105.5	0.002	2.34	46.1	6.6	16	2.3	73.9	0.41	0.18	1.30	0.320	4.17	0.7	60
K292962		11.3	<0.002	0.35	0.56	39.4	2	0.6	106.5	0.07	<0.05	0.04	0.775	0.17	<0.1	312
K292963		1.3	0.002	1.15	0.60	46.3	4	1.6	46.4	0.10	<0.05	0.06	1.005	0.04	<0.1	376
K292964		1.8	0.004	1.95	0.61	46.3	5	2.1	76.2	0.18	0.05	0.14	1.190	0.04	0.1	415
K292965		1.7	0.004	1.92	0.62	45.6	5	2.1	74.3	0.18	<0.05	0.15	1.170	0.04	0.1	410
K292966		2.1	0.006	1.47	0.40	46.5	2	2.8	85.1	0.16	0.05	0.17	1.020	0.02	0.2	363
K292967		1.8	0.002	0.71	0.32	42.5	2	1.3	87.2	0.13	<0.05	0.16	0.940	<0.02	0.1	339
K292968		1.0	0.004	1.40	0.25	43.7	2	1.2	76.0	0.12	<0.05	0.43	0.837	<0.02	0.2	314
K292969		0.9	0.004	0.86	0.19	42.5	3	1.4	67.0	0.19	<0.05	0.19	1.065	<0.02	0.1	360
K292970		1.1	0.006	1.81	0.27	49.2	2	1.5	75.8	0.11	<0.05	0.11	0.890	<0.02	0.1	349
K292971		0.8	<0.002	0.31	0.25	47.6	2	0.7	70.8	0.07	<0.05	0.07	0.737	<0.02	<0.1	304
K292972		1.0	0.002	1.20	0.27	47.0	1	1.0	121.0	0.07	<0.05	0.08	0.672	<0.02	0.1	297

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

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

Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154785

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- GRA21 Au ppm 0.05
K292937		0.1	33.0	238	32.8	<0.05
K292938		0.1	37.9	200	33.9	<0.05
K292939		0.1	37.8	191	35.4	<0.05
K292940		1.7	27.5	147	14.2	<0.05
K292941		0.1	25.4	172	23.6	<0.05
K292942		0.2	30.7	215	33.9	<0.05
K292943		0.1	33.8	101	60.9	<0.05
K292944		0.1	30.3	108	47.4	<0.05
K292945		0.3	32.4	151	50.9	<0.05
K292946		0.1	0.8	19	<0.5	<0.05
K292947		0.1	33.4	154	55.5	<0.05
K292948		1.6	31.6	134	39.9	<0.05
K292949		0.4	21.9	126	16.1	<0.05
K292950		3.2	13.1	129	58.7	9.76
K292951		2.6	12.7	128	3.5	<0.05
K292952		49.2	3.8	1080	1.1	0.83
K292953		16.2	13.9	233	59.9	0.17
K292954		0.1	0.7	18	<0.5	<0.05
K292955		1.9	11.8	233	8.8	<0.05
K292956		43.8	8.8	321	13.6	0.32
K292957		23.1	6.7	313	10.0	1.57
K292958		8.9	16.3	247	27.7	<0.05
K292959		2.2	16.4	169	22.1	<0.05
K292960		0.1	27.0	129	14.0	<0.05
K292961		10.1	10.6	49	73.6	14.80
K292962		0.4	27.1	99	18.9	0.07
K292963		0.5	35.4	191	28.6	<0.05
K292964		0.2	43.4	199	47.2	<0.05
K292965		0.1	42.4	195	45.8	<0.05
K292966		0.4	36.8	205	52.9	<0.05
K292967		0.4	34.4	149	48.2	<0.05
K292968		0.1	30.8	195	50.3	<0.05
K292969		<0.1	39.4	148	52.8	<0.05
K292970		<0.1	34.0	195	39.7	<0.05
K292971		0.1	27.2	125	29.8	<0.05
K292972		0.1	25.2	191	24.2	<0.05

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Finalized Date: 18- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154785

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

Au- GRA21	BAG- 01	CRU- 32	CRU- QC
LOG- 21d	LOG- 22	LOG- 23	ME- MS61
PUL- 35a	PUL- 35ad	PUL- QC	SPL- 21
SPL- 21d	WEI- 21	WSH- 21	WSH- 22

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Finalized Date: 17- OCT- 2016
Account: MTT

CERTIFICATE WH16154788

Project: Hartless Joe

P.O. No.: Batch 3

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 14- SEP- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 32	Fine Crushing 90% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 35a	Pulv 1 kg split to 95%< 106 um
BAG- 01	Bulk Master for Storage
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 35ad	Pulv 1 kg split to 95%< 106 um DUP

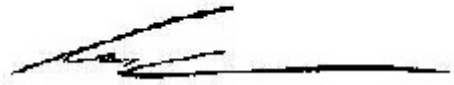
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid 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 WH16154788

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K292973		2.16	0.17	6.59	2.7	10	0.24	0.05	3.81	0.12	5.00	70.5	185	1.26	748	15.75
K292974		7.50	0.15	7.86	2.2	40	0.32	0.04	5.35	0.04	9.30	43.3	186	0.66	383	10.50
K292975		4.38	0.07	6.40	2.3	50	0.83	0.06	7.96	0.14	32.0	38.1	282	0.17	71.7	6.27
K292976		4.00	0.10	6.81	2.0	70	0.88	0.07	6.83	0.08	29.1	37.3	203	0.41	95.7	6.60
K292977		5.06	0.01	0.07	<0.2	20	0.08	0.03	20.4	0.07	1.18	0.7	1	0.17	3.3	0.47
K292978		3.98	0.04	7.52	3.4	10	0.30	0.05	4.27	<0.02	10.75	58.9	73	2.56	30.4	12.10
K292979		2.58	0.02	7.91	<0.2	80	0.57	0.05	2.21	0.02	29.9	5.1	23	0.14	8.4	1.54
K292980		4.68	0.03	6.83	1.9	60	0.46	0.05	1.37	0.03	8.85	13.9	52	0.55	24.2	4.37
K292981		0.12	18.90	6.43	17.7	340	0.66	0.21	1.68	3.41	21.9	19.8	33	3.92	153.0	3.89
K292982		2.06	0.07	7.58	2.2	220	0.57	0.05	4.78	0.19	19.50	31.9	118	0.53	57.3	6.44
K292983		4.30	0.11	7.46	3.4	10	0.37	0.02	5.19	0.05	9.14	39.6	89	0.68	58.8	6.74
K292984		7.20	0.08	7.92	3.6	10	0.40	0.02	4.97	0.04	9.78	41.9	106	0.71	50.6	6.92
K292985		3.56	0.05	7.70	3.5	10	0.39	0.01	4.45	0.06	9.99	42.9	152	1.38	67.9	7.53
K292986		0.16	8.89	3.70	431	410	0.81	0.05	0.18	0.09	17.70	7.8	31	5.56	44.7	3.03
K292987		7.08	0.04	7.48	2.6	40	0.41	0.01	4.63	0.05	10.05	42.8	97	1.63	75.0	7.79
K292988		7.20	0.09	7.53	4.1	10	0.35	0.05	4.34	0.07	10.05	38.8	164	1.00	277	7.52
K293003		4.12	0.01	7.11	10.0	10	0.31	0.02	7.64	0.09	6.23	37.7	181	0.31	23.7	6.31
K293004		<0.02	0.01	7.05	11.4	10	0.26	0.02	7.60	0.09	5.67	34.6	181	0.28	22.0	6.25
K293005		0.84	0.02	7.89	3.1	220	0.88	0.06	2.66	0.03	31.6	8.6	58	0.29	15.8	2.02
K293006		4.20	0.03	7.24	7.2	10	0.46	0.02	6.68	0.14	8.99	40.5	66	0.32	47.2	7.68
K293007		6.60	0.05	7.16	8.3	10	0.42	0.02	5.79	0.13	8.35	36.7	65	0.49	133.5	8.04
K293008		5.02	0.01	0.06	0.2	20	0.06	0.03	20.5	0.07	1.01	0.7	1	0.13	3.0	0.47
K293009		7.00	0.05	7.54	7.1	20	0.34	0.05	5.27	0.20	7.86	45.8	94	0.85	158.0	8.40
K293010		4.52	0.10	7.53	7.2	20	0.37	0.05	5.33	0.32	7.81	45.4	97	0.85	276	8.38
K293011		4.72	0.15	8.12	10.7	20	0.32	0.12	4.43	0.23	6.82	49.4	198	0.80	393	8.52
K293012		3.30	0.10	7.94	7.9	20	0.37	0.12	4.01	0.10	6.80	39.5	192	0.56	346	8.42
K293013		2.12	0.50	7.01	31.1	10	0.22	0.14	2.91	0.63	6.90	44.0	132	1.08	1995	11.85
K293014		6.44	0.11	7.14	10.3	70	0.43	0.15	3.91	0.13	10.00	42.0	102	0.86	249	8.96
K293015		1.76	0.03	8.48	3.1	10	0.33	0.02	4.09	0.09	8.71	41.1	140	0.53	32.9	7.02
K293016		6.40	0.07	8.30	3.3	10	0.31	0.02	3.99	0.05	9.39	46.3	131	0.90	40.7	7.06
K293017		4.52	0.12	8.52	3.7	10	0.29	0.02	3.63	0.05	7.75	47.7	208	0.83	71.9	7.17
K293018		6.60	0.08	8.18	3.0	20	0.36	0.02	5.80	0.07	8.51	41.8	209	0.58	48.3	6.55
K293019		6.96	0.13	8.06	3.4	110	0.47	0.03	6.60	0.06	12.00	38.0	138	0.53	24.9	6.75
K293020		6.88	0.19	7.85	4.5	10	0.41	0.02	4.86	0.07	8.17	39.2	118	0.64	64.9	7.50
K293021		7.00	0.05	7.59	1.8	10	0.36	0.01	5.70	0.06	6.88	38.7	103	0.57	60.2	7.48
K293022		6.58	0.06	8.05	2.6	80	0.46	0.03	4.86	1.41	12.20	42.2	85	0.56	68.8	7.60

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VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154788

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K292973		22.6	0.08	1.1	0.158	0.03	1.4	12.6	5.38	2820	0.13	1.24	0.7	78.3	360	0.8
K292974		17.10	0.08	1.2	0.097	0.08	3.6	8.8	5.07	2140	0.30	2.46	1.3	69.1	490	1.1
K292975		14.30	0.11	1.4	0.049	0.06	17.0	5.1	5.31	1340	1.01	2.73	3.5	53.6	1200	5.2
K292976		14.75	0.09	1.5	0.055	0.06	14.5	6.3	4.90	1330	0.71	2.90	3.4	46.3	1130	3.4
K292977		0.24	0.12	<0.1	<0.005	0.02	0.6	1.0	12.50	205	0.24	0.01	0.2	1.9	180	2.1
K292978		22.1	0.06	1.6	0.104	0.02	3.6	15.9	7.83	1880	0.24	0.97	1.6	45.1	540	1.8
K292979		16.45	0.12	1.6	0.011	0.14	17.4	4.4	0.75	287	0.50	5.76	4.5	10.2	470	3.1
K292980		16.30	0.06	0.7	0.052	0.09	3.3	12.3	1.94	619	1.51	3.81	1.1	18.8	210	2.7
K292981		12.30	0.09	1.5	0.044	2.79	9.9	66.0	1.05	837	26.6	0.87	1.9	17.2	660	37.8
K292982		17.05	0.09	2.1	0.075	0.40	8.5	7.4	3.88	1360	0.51	3.02	4.3	45.2	810	3.2
K292983		16.25	0.06	1.9	0.070	0.04	3.1	6.1	4.96	1580	0.46	3.14	1.7	46.1	570	1.6
K292984		17.55	0.05	1.8	0.079	0.05	3.2	7.6	5.01	1290	0.29	3.37	1.8	53.0	640	1.3
K292985		17.65	<0.05	1.8	0.088	0.05	3.2	11.0	5.91	1400	0.64	2.93	1.8	60.7	600	1.0
K292986		7.34	0.09	1.7	0.036	3.22	8.3	49.9	0.18	141	5.54	0.08	6.6	15.3	530	5.0
K292987		17.95	0.05	1.6	0.079	0.19	3.5	11.4	5.02	1530	0.16	2.90	1.9	52.1	550	1.2
K292988		17.80	<0.05	1.5	0.089	0.04	3.4	7.2	4.73	1590	0.15	2.88	2.1	58.8	620	1.5
K293003		14.45	<0.05	1.3	0.072	0.05	1.9	7.2	4.36	1620	1.10	2.72	0.8	78.3	330	1.4
K293004		13.50	<0.05	1.1	0.063	0.05	1.8	6.7	4.34	1640	1.02	2.71	0.8	75.2	330	1.4
K293005		16.65	0.08	1.5	0.023	0.29	18.2	2.8	1.05	432	1.14	4.87	5.0	19.5	500	4.8
K293006		18.10	0.05	1.6	0.081	0.05	3.0	5.3	4.02	1640	0.35	2.86	1.7	43.9	480	1.6
K293007		17.40	<0.05	1.2	0.107	0.04	2.7	6.0	3.95	1720	0.29	3.05	1.6	40.3	470	1.1
K293008		0.21	0.11	<0.1	<0.005	0.02	0.5	0.8	12.70	208	0.05	0.01	0.1	1.9	180	1.5
K293009		17.50	0.05	1.4	0.090	0.05	2.5	7.3	4.46	1570	0.22	3.09	1.3	52.1	440	1.2
K293010		17.70	<0.05	1.4	0.099	0.05	2.5	7.1	4.41	1600	0.25	3.12	1.2	52.3	450	1.2
K293011		18.15	<0.05	1.3	0.121	0.04	2.1	9.8	5.06	1650	0.81	3.16	0.9	86.4	390	1.2
K293012		16.25	<0.05	1.3	0.115	0.04	2.1	9.2	4.93	1720	0.67	3.31	0.9	88.1	400	1.2
K293013		17.80	<0.05	1.4	0.322	0.02	2.1	8.6	4.56	2080	2.57	2.02	1.0	60.7	410	1.4
K293014		16.60	<0.05	1.1	0.093	0.10	4.2	9.6	4.22	1640	3.37	2.57	1.5	50.9	430	1.9
K293015		18.20	<0.05	1.8	0.078	0.03	2.8	8.8	5.71	1230	0.27	3.35	1.4	60.8	550	1.0
K293016		18.45	<0.05	1.8	0.089	0.03	3.1	8.2	5.37	888	0.47	3.30	1.6	60.0	620	1.6
K293017		17.70	<0.05	1.5	0.072	0.03	2.5	9.4	5.83	879	0.37	3.31	1.1	81.3	530	2.1
K293018		17.15	<0.05	1.6	0.063	0.04	3.1	8.4	5.38	1080	0.34	3.03	1.1	77.8	540	2.3
K293019		17.95	<0.05	1.8	0.070	0.21	4.9	7.4	4.96	1170	0.44	2.74	2.6	58.2	660	4.3
K293020		18.45	<0.05	1.6	0.078	0.04	2.6	10.4	5.44	1390	0.32	3.05	1.3	53.2	520	2.4
K293021		16.30	<0.05	1.6	0.065	0.06	2.2	7.8	5.18	1360	0.14	2.76	1.1	49.1	490	1.2
K293022		18.35	0.05	1.9	0.093	0.13	4.4	11.4	4.85	1740	0.85	3.11	2.5	46.6	710	2.1

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Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154788

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K292973		0.8	<0.002	0.93	0.22	26.0	2	1.6	172.0	0.09	<0.05	0.05	0.732	<0.02	<0.1	353
K292974		1.6	<0.002	1.16	0.28	37.1	2	1.1	96.6	0.09	<0.05	0.52	0.709	<0.02	0.2	301
K292975		1.0	<0.002	0.08	0.28	38.1	1	0.9	136.0	0.16	<0.05	4.73	0.331	<0.02	2.1	203
K292976		0.9	<0.002	0.16	0.27	37.1	1	1.0	149.5	0.16	<0.05	4.24	0.415	<0.02	1.9	224
K292977		1.1	<0.002	<0.01	0.12	0.2	<1	<0.2	50.1	<0.05	<0.05	0.10	<0.005	<0.02	0.6	2
K292978		1.0	<0.002	1.16	0.28	51.9	2	1.9	128.5	0.10	<0.05	0.15	0.887	<0.02	0.1	335
K292979		2.3	<0.002	0.04	0.18	4.1	<1	0.6	108.0	0.23	<0.05	5.00	0.134	0.02	2.2	32
K292980		3.3	<0.002	0.19	0.20	18.4	1	0.7	54.3	0.07	<0.05	0.37	0.285	0.02	0.3	92
K292981		113.5	0.006	1.11	2.00	15.6	2	1.1	208	0.11	10.65	2.00	0.282	1.55	0.8	134
K292982		10.9	<0.002	0.18	0.21	35.9	1	1.3	167.0	0.27	<0.05	2.31	0.754	0.10	1.1	266
K292983		0.6	<0.002	0.47	0.46	42.5	1	1.0	82.2	0.11	<0.05	0.17	0.782	0.02	1.1	306
K292984		1.0	<0.002	0.49	0.42	46.5	2	1.0	89.8	0.11	<0.05	0.17	0.815	0.03	1.4	323
K292985		1.2	0.002	0.21	0.42	45.9	2	1.0	72.4	0.12	<0.05	0.15	0.919	<0.02	0.8	335
K292986		109.0	<0.002	2.18	43.3	6.7	14	2.5	72.2	0.40	0.11	1.37	0.295	4.46	0.7	55
K292987		6.3	<0.002	0.28	0.56	46.0	1	0.9	114.0	0.12	<0.05	0.26	0.845	0.11	0.7	324
K292988		1.3	0.002	1.25	0.55	42.8	3	1.1	67.9	0.14	<0.05	0.16	0.820	0.03	0.9	301
K293003		0.9	<0.002	0.30	0.29	38.7	1	0.9	192.5	0.05	<0.05	0.10	0.575	<0.02	0.3	247
K293004		0.9	0.002	0.28	0.28	36.0	1	1.1	188.5	0.05	<0.05	0.09	0.569	<0.02	0.3	244
K293005		4.5	<0.002	0.13	0.16	8.1	<1	0.6	282	0.26	<0.05	5.29	0.202	0.04	2.7	56
K293006		0.7	<0.002	0.31	0.22	41.9	1	0.9	104.0	0.10	<0.05	0.15	0.798	<0.02	0.1	312
K293007		0.5	0.002	0.63	0.17	39.7	2	0.8	117.5	0.11	<0.05	0.12	0.782	<0.02	0.1	314
K293008		0.8	<0.002	<0.01	0.08	0.2	<1	<0.2	49.8	<0.05	<0.05	0.05	<0.005	<0.02	0.4	2
K293009		0.7	<0.002	0.98	0.17	43.1	1	0.8	91.5	0.08	<0.05	0.09	0.753	<0.02	0.4	303
K293010		0.6	0.002	1.07	0.15	43.8	2	0.9	98.2	0.08	<0.05	0.09	0.767	<0.02	0.3	307
K293011		0.6	0.006	1.17	0.19	45.0	2	0.8	106.0	0.06	<0.05	0.09	0.689	<0.02	0.8	298
K293012		0.5	0.005	1.34	0.26	44.2	2	0.8	98.2	0.06	<0.05	0.09	0.681	<0.02	0.9	285
K293013		0.6	0.020	3.63	0.54	41.4	5	1.3	85.0	0.06	0.09	0.08	0.708	0.04	0.6	288
K293014		2.2	0.012	2.45	0.38	38.6	5	0.9	86.1	0.10	0.05	0.68	0.645	0.02	0.8	256
K293015		0.4	<0.002	0.53	0.20	47.5	2	0.9	73.4	0.10	<0.05	0.14	0.803	0.02	1.4	337
K293016		0.4	0.002	0.77	0.28	48.0	2	0.8	77.7	0.10	<0.05	0.14	0.823	0.03	1.7	345
K293017		0.6	0.002	0.97	0.33	46.3	1	0.8	62.7	0.07	<0.05	0.11	0.728	0.03	2.2	325
K293018		0.7	<0.002	0.43	0.28	43.7	1	0.8	132.0	0.07	<0.05	0.43	0.655	<0.02	1.7	292
K293019		5.7	0.002	0.41	0.37	40.2	1	1.0	251	0.17	<0.05	0.86	0.744	0.09	1.9	312
K293020		0.8	0.002	0.81	0.29	44.5	1	0.9	107.5	0.08	<0.05	0.12	0.779	0.04	0.8	318
K293021		1.6	<0.002	0.26	0.18	43.4	1	0.8	150.5	0.07	<0.05	0.10	0.730	<0.02	0.6	303
K293022		3.6	0.003	1.04	0.22	44.8	1	1.1	150.0	0.15	<0.05	0.52	0.914	0.05	1.8	343

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CERTIFICATE OF ANALYSIS WH16154788

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- GRA21 Au ppm 0.05
K292973		0.1	22.1	235	24.8	<0.05
K292974		0.8	26.7	148	41.5	<0.05
K292975		0.2	12.6	83	50.8	<0.05
K292976		0.2	16.0	77	48.7	<0.05
K292977		0.1	0.8	18	<0.5	<0.05
K292978		0.1	34.4	142	40.5	<0.05
K292979		0.7	4.4	31	57.4	<0.05
K292980		0.8	16.7	65	20.4	<0.05
K292981		3.2	11.0	114	51.8	9.73
K292982		0.4	27.4	154	69.8	<0.05
K292983		0.1	29.4	107	50.7	<0.05
K292984		0.1	31.9	104	52.7	<0.05
K292985		0.4	33.2	125	52.1	<0.05
K292986		10.5	9.9	46	71.1	14.50
K292987		0.9	31.7	115	47.4	<0.05
K292988		0.4	28.9	114	45.7	<0.05
K293003		0.1	23.2	115	36.9	<0.05
K293004		0.1	21.7	114	35.6	<0.05
K293005		0.2	6.6	38	52.6	<0.05
K293006		0.1	29.8	112	41.0	<0.05
K293007		<0.1	26.9	108	30.2	<0.05
K293008		0.1	0.8	17	<0.5	<0.05
K293009		0.1	29.1	120	44.1	<0.05
K293010		<0.1	28.7	120	35.7	<0.05
K293011		<0.1	27.9	135	36.7	<0.05
K293012		0.1	27.2	129	37.1	<0.05
K293013		0.1	28.5	230	40.3	<0.05
K293014		0.6	23.8	147	33.4	<0.05
K293015		0.1	30.7	191	52.2	<0.05
K293016		0.1	30.9	129	52.2	<0.05
K293017		0.1	28.8	132	48.8	<0.05
K293018		0.1	25.3	122	46.5	<0.05
K293019		0.2	28.1	137	58.5	<0.05
K293020		0.1	29.1	140	49.3	<0.05
K293021		0.1	26.6	108	43.6	<0.05
K293022		0.2	34.3	355	61.8	<0.05

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

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

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

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16154788

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

Au- GRA21	BAG- 01	CRU- 32	LOG- 21d
LOG- 22	LOG- 23	ME- MS61	PUL- 35a
PUL- 35ad	PUL- QC	SPL- 21	SPL- 21d
WEI- 21			

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To: **STRATEGIC METALS LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- OCT- 2016
Account: MTT

CERTIFICATE WH16156778

Project: Hartless Joe

P.O. No.: Batch 4

This report is for 35 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16- SEP- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
WSH- 21	"Wash" crushers
WSH- 22	"Wash" pulverizers
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 32	Fine Crushing 90% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- 35a	Pulv 1 kg split to 95%< 106 um
BAG- 01	Bulk Master for Storage
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 35ad	Pulv 1 kg split to 95%< 106 um DUP

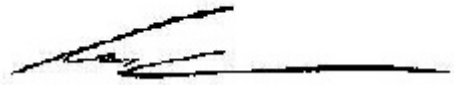
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid 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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Finalized Date: 19- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156778

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K292989		5.86	0.57	7.27	13.7	60	0.39	0.03	6.28	0.19	9.11	49.4	103	1.51	299	8.77
K292990		3.32	0.71	6.46	53.5	150	0.38	0.19	6.34	0.86	6.05	43.9	166	2.73	35.1	7.38
K292991		4.22	0.06	7.36	8.1	30	0.24	0.07	6.46	0.04	6.55	41.6	189	1.63	51.7	6.57
K292992		5.10	0.01	0.06	0.3	30	0.06	0.02	22.0	0.06	1.04	0.7	1	0.27	1.8	0.48
K292993		4.92	0.03	7.50	3.5	20	0.35	0.05	5.92	0.07	7.52	40.6	196	2.33	74.6	7.25
K292994		4.92	0.02	7.73	2.3	10	0.28	0.07	4.93	0.30	6.50	47.9	195	1.04	30.5	8.66
K292995		2.42	0.05	7.96	2.0	20	0.29	0.08	4.75	0.06	8.03	40.6	144	0.79	41.4	7.98
K292996		0.18	9.72	3.88	468	650	0.82	0.05	0.19	0.09	18.90	8.2	34	5.28	43.8	3.19
K292997		6.42	0.44	7.46	16.9	110	0.38	0.05	5.87	0.17	7.95	40.8	142	3.09	33.9	7.06
K292998		3.86	3.92	5.40	132.0	180	0.48	0.04	8.12	13.80	5.33	29.6	109	6.09	102.5	6.02
K292999		2.82	5.16	7.15	36.0	210	0.57	0.07	6.62	9.58	6.57	40.0	193	5.92	408	8.79
K293000		6.54	0.13	7.49	9.0	30	0.33	0.06	5.58	0.33	9.71	48.4	71	1.39	235	9.58
K293001		<0.02	0.13	7.23	8.7	30	0.33	0.06	5.37	0.31	9.41	47.4	65	1.32	220	9.27
K293002		5.34	0.33	7.51	11.3	20	0.37	0.07	6.63	0.81	6.58	42.5	208	0.42	1045	8.64
K293023		7.02	0.02	8.80	1.5	1080	1.95	0.07	3.41	0.08	67.6	14.5	6	0.57	8.5	4.27
K293024		2.98	0.01	8.68	1.7	1110	1.91	0.13	3.52	0.07	65.0	14.5	7	0.53	10.3	4.26
K293025		6.28	0.52	7.55	3.2	80	0.29	0.41	1.48	0.44	9.66	57.7	34	4.34	2970	12.40
K293026		4.58	0.02	8.45	0.8	1070	1.95	0.20	3.50	0.05	66.9	14.0	7	0.56	8.8	4.22
K293049		2.12	14.55	6.34	63.2	280	0.59	0.51	7.44	1.23	7.16	57.8	100	6.57	1730	11.65
K293050		1.10	0.18	8.15	2.1	1110	1.73	0.13	3.00	0.07	63.6	16.2	18	3.08	70.6	5.31
K293051		5.88	1.23	6.59	6.1	70	0.31	0.04	5.06	0.12	5.95	45.4	73	3.82	619	8.02
K293052		2.12	14.95	4.42	55.6	200	0.41	0.10	8.74	0.60	5.85	39.4	63	4.70	888	8.23
K293053		5.02	0.01	0.06	<0.2	20	0.06	0.02	21.2	0.06	1.04	0.7	1	0.58	2.5	0.49
K293054		2.86	1.69	6.77	21.9	20	0.33	0.08	4.94	0.17	8.93	39.3	104	0.58	354	8.05
K293055		4.12	0.43	6.66	26.3	20	0.24	0.18	3.27	0.39	10.20	49.3	46	1.02	1215	11.15
K293056		3.30	1.02	7.50	11.1	20	0.30	0.15	4.78	0.63	6.38	49.2	173	0.70	3220	9.82
K293057		3.40	0.34	7.03	6.2	10	0.21	0.30	3.08	0.20	12.30	62.5	46	1.18	936	13.55
K293058		2.10	0.32	7.26	6.6	10	0.21	0.33	3.23	0.24	12.80	65.1	46	1.25	891	14.35
K293086		2.46	0.32	7.47	1.3	40	0.32	0.05	8.06	0.11	12.85	35.3	151	0.46	78.3	5.64
K293087		1.56	0.44	7.99	2.1	200	0.54	0.04	6.19	0.16	12.70	33.2	146	1.02	41.0	5.89
K293088		0.12	19.80	6.81	18.8	370	0.70	0.26	1.78	3.36	23.1	21.3	36	3.71	168.5	4.20
K293089		5.92	0.10	8.22	0.7	490	0.73	0.03	1.69	0.33	13.45	3.3	14	2.69	5.5	1.16
K293090		4.66	0.03	8.33	1.9	380	0.76	0.02	1.88	0.09	12.60	3.4	10	1.93	3.7	1.18
K293091		6.28	0.12	7.11	4.6	20	0.44	0.09	6.37	0.08	7.96	41.9	125	0.34	83.3	7.55
K293092		4.64	0.12	7.36	13.4	20	0.34	0.08	7.44	0.10	7.14	39.0	142	0.42	70.2	7.49

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

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To: **STRATEGIC METALS LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156778

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K292989		16.75	0.08	0.4	0.080	0.42	2.6	15.7	4.77	1600	0.21	1.89	1.4	49.2	530	4.3
K292990		13.25	0.08	0.5	0.089	1.59	1.8	23.1	3.79	1290	0.25	1.18	0.9	67.6	320	18.1
K292991		14.75	0.08	0.8	0.102	0.27	1.9	14.3	4.67	1860	0.17	2.83	0.9	79.4	430	1.3
K292992		0.18	0.09	<0.1	0.005	0.02	0.5	1.1	13.45	206	0.15	0.01	0.1	1.5	210	1.2
K292993		15.05	0.07	1.0	0.120	0.24	2.1	13.3	5.18	1840	0.22	2.65	1.0	81.1	430	0.9
K292994		15.50	0.08	1.0	0.100	0.08	1.8	15.7	5.35	1800	0.28	2.90	0.9	84.3	420	0.8
K292995		16.50	0.07	0.8	0.113	0.23	2.3	16.6	4.86	1720	0.11	3.31	1.1	64.4	460	1.1
K292996		7.36	0.13	1.8	0.035	3.40	8.8	49.0	0.19	149	5.51	0.10	6.5	14.9	560	5.3
K292997		16.30	0.07	0.9	0.083	1.64	2.2	22.6	4.36	1740	0.44	1.93	1.0	63.8	440	2.2
K292998		12.00	0.07	0.5	0.092	2.43	1.6	17.5	3.33	1500	0.72	0.13	0.7	43.8	240	150.5
K292999		15.55	0.08	0.3	0.159	2.23	1.9	31.2	4.23	2050	2.58	0.93	0.9	76.6	350	9.7
K293000		19.95	0.07	0.7	0.093	0.18	2.7	9.4	4.05	1580	0.35	2.52	1.5	40.3	490	1.4
K293001		19.30	0.07	0.7	0.089	0.17	2.6	8.9	3.93	1500	0.35	2.43	1.4	39.3	470	1.4
K293002		16.05	0.07	1.2	0.159	0.06	1.9	6.4	4.84	1960	1.64	2.73	0.9	83.9	370	1.3
K293023		18.25	0.12	5.0	0.046	1.97	34.5	13.9	1.45	740	1.24	3.68	20.2	2.0	1710	10.8
K293024		17.70	0.12	4.7	0.045	1.94	32.2	12.2	1.46	757	1.87	3.66	19.3	1.9	1720	8.5
K293025		18.00	0.11	1.7	0.131	0.15	2.8	49.5	5.32	1840	12.15	2.12	1.5	31.4	530	2.2
K293026		17.95	0.11	4.8	0.045	1.98	33.2	11.6	1.41	727	2.03	3.69	19.5	2.0	1660	9.5
K293049		15.75	0.10	0.3	0.132	1.88	2.0	18.2	3.25	1620	4.67	1.38	0.9	61.5	330	12.0
K293050		17.90	0.12	4.1	0.061	2.37	31.9	9.4	1.61	829	2.22	3.62	15.5	7.5	2500	12.2
K293051		15.45	0.07	0.5	0.090	0.66	1.7	10.3	3.94	1520	0.45	2.31	0.7	42.7	350	2.9
K293052		11.85	0.07	0.1	0.063	1.13	1.7	13.1	3.38	1920	1.75	0.64	1.0	27.4	330	17.9
K293053		0.17	0.07	<0.1	<0.005	0.03	0.5	1.0	12.95	210	0.20	0.01	0.1	1.5	170	1.2
K293054		15.45	0.08	0.3	0.162	0.07	2.5	15.2	4.90	2000	0.50	1.81	1.4	55.1	450	3.4
K293055		16.85	0.08	0.3	0.232	0.09	2.8	11.2	4.80	2030	1.81	1.56	1.6	33.7	560	2.3
K293056		16.00	0.07	0.8	0.207	0.05	1.7	9.0	5.02	2000	2.43	2.29	0.8	75.7	410	1.5
K293057		19.05	0.09	1.0	0.156	0.03	3.5	6.9	4.78	2070	2.69	1.78	2.0	36.8	650	1.2
K293058		19.65	0.09	1.1	0.160	0.03	3.6	7.3	5.00	2150	3.02	1.75	2.2	36.9	670	1.3
K293086		14.80	0.10	0.8	0.055	0.07	4.6	14.6	4.33	1010	2.12	2.96	3.7	106.5	670	11.5
K293087		16.50	0.09	0.5	0.041	0.52	4.6	22.3	4.57	926	0.80	2.44	3.7	91.1	620	13.0
K293088		12.95	0.17	1.6	0.051	2.98	11.2	62.6	1.13	920	29.0	0.93	1.9	18.5	710	38.8
K293089		18.65	0.25	1.7	0.014	2.07	6.3	4.8	0.49	190	0.57	3.50	1.6	4.9	310	11.5
K293090		18.35	0.30	1.6	0.011	1.61	5.8	4.7	0.46	187	0.16	4.22	1.6	4.8	300	4.0
K293091		16.05	0.17	0.7	0.068	0.03	2.6	23.1	4.78	1080	0.83	2.02	1.6	72.3	520	2.6
K293092		16.55	0.10	1.0	0.071	0.04	2.3	17.6	4.55	1090	1.13	2.62	1.4	80.3	470	1.7

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Finalized Date: 19- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156778

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K292989		12.0	0.002	1.00	0.62	43.1	3	0.8	135.0	0.09	<0.05	0.11	0.807	0.14	0.3	330
K292990		38.9	<0.002	3.23	1.86	34.7	5	0.8	143.5	0.06	0.15	0.09	0.551	0.37	0.4	233
K292991		7.8	0.002	1.24	0.60	40.1	2	0.7	146.0	0.06	<0.05	0.10	0.630	0.09	0.7	282
K292992		1.3	<0.002	<0.01	0.06	0.2	1	<0.2	53.9	<0.05	<0.05	0.05	<0.005	<0.02	0.6	3
K292993		7.0	0.002	0.96	0.54	41.4	2	0.7	200	0.07	<0.05	0.10	0.658	0.07	0.7	289
K292994		1.9	0.003	2.80	0.55	43.8	3	0.8	134.5	0.06	<0.05	0.10	0.678	0.02	0.6	281
K292995		5.4	0.002	2.55	0.51	44.0	2	0.9	124.5	0.07	<0.05	0.10	0.712	0.06	0.7	307
K292996		110.0	<0.002	2.27	45.8	7.0	16	2.3	76.7	0.40	0.15	1.48	0.305	4.49	0.7	59
K292997		45.6	0.002	1.62	0.83	41.8	1	0.7	127.0	0.07	<0.05	0.11	0.672	0.48	1.1	295
K292998		62.9	<0.002	2.21	2.70	29.3	1	0.8	176.5	0.05	<0.05	0.08	0.488	0.61	0.4	213
K292999		60.1	0.008	2.37	1.35	40.5	2	0.9	141.5	0.05	<0.05	0.08	0.628	0.64	0.1	264
K293000		4.9	0.004	1.74	0.42	41.9	4	1.0	110.5	0.10	0.05	0.09	0.827	0.08	0.1	337
K293001		4.8	0.004	1.68	0.40	40.6	4	1.0	107.0	0.09	<0.05	0.10	0.797	0.07	0.1	325
K293002		1.0	0.008	1.21	0.46	42.1	3	1.2	179.5	0.06	<0.05	0.10	0.637	0.04	0.3	275
K293023		55.7	<0.002	0.05	0.31	14.8	1	1.4	442	1.21	<0.05	14.40	0.727	0.51	4.1	136
K293024		53.4	<0.002	0.09	0.25	14.3	1	1.3	447	1.17	<0.05	13.15	0.719	0.48	3.8	136
K293025		3.6	0.105	5.21	0.18	39.5	13	0.9	83.5	0.10	0.17	0.34	0.795	0.11	3.1	333
K293026		56.7	<0.002	0.10	0.31	14.4	1	1.4	466	1.14	<0.05	14.00	0.702	0.51	4.0	132
K293049		51.5	0.018	7.19	1.80	37.8	8	1.4	188.5	0.06	0.15	0.08	0.611	0.66	0.2	267
K293050		52.3	0.002	0.46	0.62	17.5	2	1.6	419	0.88	<0.05	13.05	0.814	0.51	4.0	170
K293051		20.3	0.004	1.01	0.97	38.7	3	0.7	174.0	0.05	<0.05	0.07	0.633	0.23	0.2	282
K293052		30.1	0.007	1.96	2.65	27.5	3	0.8	181.0	0.07	<0.05	0.05	0.520	0.34	0.1	207
K293053		1.8	<0.002	<0.01	0.05	0.2	1	<0.2	51.2	<0.05	<0.05	0.05	<0.005	<0.02	0.5	3
K293054		1.8	0.003	0.84	1.20	38.7	2	1.0	114.5	0.09	<0.05	0.08	0.718	0.03	0.1	286
K293055		2.7	0.008	2.28	1.26	38.4	4	1.7	69.1	0.11	0.06	0.10	0.874	0.05	0.2	327
K293056		1.2	0.004	2.79	0.70	43.6	5	1.0	79.2	0.06	0.06	0.07	0.701	0.07	0.4	292
K293057		1.2	0.015	4.59	0.52	43.9	6	1.7	38.7	0.13	0.07	0.12	0.989	0.03	0.1	360
K293058		1.3	0.018	4.92	0.56	44.5	7	1.9	39.3	0.14	0.09	0.13	1.050	0.04	0.1	375
K293086		1.4	0.003	0.28	0.23	32.9	1	0.7	155.5	0.26	<0.05	0.27	0.626	0.03	0.3	228
K293087		13.2	<0.002	0.05	0.30	31.0	1	0.8	158.5	0.26	<0.05	0.32	0.619	0.14	0.2	217
K293088		115.0	0.005	1.20	2.09	17.7	3	1.1	225	0.12	11.70	2.04	0.310	1.53	0.8	146
K293089		43.7	<0.002	0.08	0.27	2.9	<1	0.4	129.5	0.11	<0.05	1.33	0.129	0.36	0.8	23
K293090		32.8	<0.002	0.06	0.22	2.9	1	0.5	135.5	0.10	<0.05	1.27	0.130	0.26	0.7	24
K293091		0.4	0.002	0.39	0.21	41.8	2	0.8	111.5	0.12	<0.05	0.10	0.794	<0.02	0.2	305
K293092		0.6	0.002	0.13	0.20	40.3	2	0.8	106.5	0.10	<0.05	0.11	0.767	0.02	0.2	298

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

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

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

Finalized Date: 19- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156778

Sample Description	Method / Analyte / Units / LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- GRA21 Au ppm 0.05
K292989		7.6	16.7	131	15.4	<0.05
K292990		11.6	10.6	222	17.9	0.14
K292991		<0.1	19.5	166	26.2	<0.05
K292992		0.1	0.7	18	<0.5	<0.05
K292993		0.1	24.3	182	29.0	<0.05
K292994		0.2	25.1	280	33.5	<0.05
K292995		2.1	14.0	185	27.5	<0.05
K292996		8.8	10.9	48	77.9	15.15
K292997		5.9	12.0	150	32.8	<0.05
K292998		37.4	10.1	1460	14.8	0.97
K292999		18.7	10.0	3090	12.6	<0.05
K293000		0.3	25.6	140	19.5	<0.05
K293001		0.3	24.6	132	20.0	<0.05
K293002		0.1	23.9	191	37.5	<0.05
K293023		0.8	22.6	67	228	<0.05
K293024		0.7	21.8	62	217	<0.05
K293025		0.1	28.5	243	59.9	<0.05
K293026		0.8	22.1	58	221	<0.05
K293049		35.8	11.0	158	10.2	0.13
K293050		1.9	22.8	80	182.5	<0.05
K293051		4.1	12.0	109	8.6	<0.05
K293052		22.7	8.9	112	4.2	0.32
K293053		0.1	0.7	17	<0.5	<0.05
K293054		6.4	12.9	189	8.6	<0.05
K293055		1.0	14.9	261	11.7	<0.05
K293056		0.1	26.2	243	32.6	<0.05
K293057		0.1	34.9	183	23.4	<0.05
K293058		0.1	36.6	197	22.6	<0.05
K293086		4.3	19.1	85	21.8	<0.05
K293087		15.8	16.8	108	17.0	<0.05
K293088		3.1	12.6	125	59.1	9.84
K293089		3.1	3.0	47	56.9	<0.05
K293090		2.5	2.9	29	56.7	<0.05
K293091		1.1	27.2	89	16.8	<0.05
K293092		0.5	27.3	84	26.9	<0.05

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156778

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

Au- GRA21	BAG- 01	CRU- 32	CRU- QC
LOG- 21d	LOG- 22	LOG- 23	ME- MS61
PUL- 35a	PUL- 35ad	SPL- 21	SPL- 21d
WEI- 21	WSH- 21	WSH- 22	

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To: **STRATEGIC METALS LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

CERTIFICATE WH16156779

Project: Hartless Joe

P.O. No.: Batch 5

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16- SEP- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 32	Fine Crushing 90% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21	Split sample - riffle splitter
PUL- QC	Pulverizing QC Test
PUL- 35a	Pulv 1 kg split to 95%< 106 um
BAG- 01	Bulk Master for Storage
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 35ad	Pulv 1 kg split to 95%< 106 um DUP

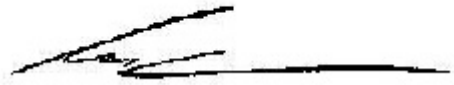
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid 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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Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156779

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K293027		6.90	0.01	8.16	0.8	1050	1.85	0.14	3.01	0.05	63.1	11.5	5	0.47	7.2	3.82
K293028		2.30	0.02	8.23	1.6	1060	2.01	0.21	3.05	0.06	62.4	13.4	7	0.57	9.2	3.99
K293029		2.42	0.05	7.91	2.0	210	0.60	0.17	5.72	0.08	11.50	38.7	217	1.92	66.7	6.88
K293030		5.46	0.02	8.36	0.7	1040	1.84	0.16	3.45	0.06	61.9	12.9	12	0.54	8.1	4.03
K293031		5.02	0.01	0.06	<0.2	30	0.06	0.02	20.7	0.07	1.12	0.8	1	0.12	2.3	0.48
K293032		6.92	0.02	8.02	2.1	1070	1.85	0.16	3.39	0.05	60.4	12.5	7	0.40	7.5	3.98
K293033		6.46	0.02	8.11	1.2	950	1.87	0.14	3.55	0.07	60.2	12.4	5	0.42	6.7	4.04
K293034		6.44	0.02	8.20	1.3	1040	1.92	0.13	3.60	0.05	60.9	13.8	9	1.16	7.8	4.21
K293035		3.04	0.05	8.13	1.8	950	1.82	0.24	4.55	0.06	60.9	13.0	6	3.76	12.9	4.13
K293036		<0.02	0.04	7.80	2.1	910	1.71	0.23	4.35	0.06	59.5	13.0	5	3.66	12.5	4.03
K293037		2.66	0.11	7.38	1.9	320	0.74	0.05	4.58	0.10	20.4	32.2	145	0.40	35.8	6.28
K293038		4.08	0.09	7.30	3.5	10	0.31	0.01	5.80	0.05	8.97	43.5	178	0.74	55.6	6.67
K293039		7.32	0.08	7.53	2.7	20	0.38	0.01	6.01	0.04	7.56	41.4	147	0.53	77.3	6.83
K293040		0.14	6.30	3.82	484	740	0.87	0.05	0.18	0.08	17.55	7.7	33	4.94	40.6	3.19
K293041		6.78	0.06	7.78	3.1	20	0.41	0.02	5.81	0.12	11.45	43.1	203	1.18	96.4	7.22
K293042		6.80	0.05	7.87	3.7	10	0.40	0.05	7.09	3.82	7.40	37.9	147	0.41	90.2	7.59
K293043		3.88	0.13	7.65	4.9	10	0.30	0.06	4.23	0.10	6.46	45.9	130	1.41	575	9.15
K293044		3.42	0.57	6.87	9.4	10	0.13	0.89	1.23	0.80	5.02	86.8	187	1.06	2630	14.35
K293045		7.70	0.56	7.15	10.1	10	0.16	0.26	1.61	0.86	6.62	66.3	107	1.46	2450	12.45
K293046		7.22	1.04	6.98	3.3	10	0.21	0.08	2.29	1.46	11.70	67.0	65	2.81	3900	15.40
K293047		3.82	2.46	7.27	4.9	20	0.37	0.07	3.58	0.95	10.35	62.6	135	2.69	3780	14.35
K293048		2.32	3.20	7.48	5.4	20	0.34	0.07	3.28	0.96	9.55	61.1	127	2.69	3810	14.60
K293059		4.06	0.34	6.10	6.1	10	0.13	0.04	2.19	0.08	13.10	69.7	239	2.08	1020	16.20
K293060		7.22	0.31	6.27	5.0	10	0.28	0.05	2.91	0.10	15.45	55.7	100	3.16	898	13.55
K293061		8.08	0.57	7.41	2.2	20	0.52	0.08	4.31	0.15	12.35	58.3	48	1.68	1615	12.25
K293062		7.56	0.03	7.18	0.7	10	0.43	0.02	5.64	0.08	10.05	43.2	38	0.43	69.9	8.42
K293063		5.04	<0.01	0.06	<0.2	150	0.06	0.02	21.2	0.06	2.03	0.7	<1	0.11	2.9	0.49
K293064		7.26	0.05	7.61	1.2	10	0.43	0.02	6.09	0.11	10.30	45.6	34	0.44	139.0	9.35
K293065		0.12	18.70	6.46	17.7	340	0.64	0.19	1.68	3.01	21.9	21.5	33	3.47	155.0	3.99
K293066		4.12	0.09	7.78	2.1	190	0.58	0.04	4.37	0.34	15.20	32.7	103	0.30	71.8	5.25
K293067		4.32	0.05	7.49	1.3	300	0.86	0.05	2.23	0.06	25.9	7.5	51	0.41	19.7	1.76
K293068		4.62	0.03	3.96	3.9	60	0.16	0.02	4.10	0.21	5.50	17.0	141	0.19	30.4	3.54
K293069		6.60	0.07	6.69	2.3	50	0.35	0.01	7.57	0.11	7.09	39.7	127	0.25	66.6	7.04
K293070		6.82	0.07	7.44	1.6	140	0.37	0.01	4.80	0.20	9.02	44.3	99	0.36	67.4	7.98
K293071		7.00	0.03	7.50	2.3	70	0.35	0.01	4.55	0.16	10.10	44.5	38	0.37	48.4	8.59
K293072		6.56	0.04	7.44	2.2	50	0.32	0.01	4.39	0.21	10.20	45.8	37	0.39	51.0	8.73

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

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Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156779

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K293027		16.65	0.11	5.2	0.041	1.82	32.8	15.5	1.20	689	1.68	3.24	18.7	1.7	1600	9.1
K293028		17.25	0.11	5.1	0.048	1.76	32.4	17.2	1.31	714	2.15	3.55	18.9	2.1	1700	8.6
K293029		15.10	0.07	1.5	0.075	0.47	4.0	30.2	4.45	1460	0.39	2.59	2.4	87.9	540	2.6
K293030		17.70	0.12	4.9	0.048	1.80	31.3	16.0	1.30	715	2.17	3.40	19.1	2.8	1660	9.1
K293031		0.17	<0.05	<0.1	<0.005	0.02	0.5	1.0	12.60	209	0.66	0.01	0.1	1.7	190	1.2
K293032		17.75	0.11	4.8	0.043	1.85	29.8	15.6	1.29	667	2.56	3.51	18.4	1.7	1620	7.9
K293033		17.70	0.11	4.8	0.041	1.75	30.1	17.0	1.33	669	2.19	3.51	18.2	1.8	1620	8.1
K293034		18.05	0.12	4.5	0.048	2.02	30.4	19.6	1.49	722	2.08	3.46	18.4	2.6	1700	7.4
K293035		17.30	0.11	4.4	0.042	2.26	31.3	20.4	1.37	794	2.42	3.39	17.5	2.3	1650	7.8
K293036		17.25	0.10	4.2	0.041	2.18	30.4	20.1	1.32	758	2.41	3.27	17.3	2.3	1590	7.3
K293037		15.75	0.07	2.1	0.068	0.44	9.2	9.1	3.88	1210	0.89	3.09	4.3	53.9	700	2.2
K293038		16.55	0.07	1.7	0.070	0.04	2.5	9.9	5.98	1080	0.63	2.56	1.2	80.4	590	1.3
K293039		16.65	0.07	1.6	0.078	0.05	2.3	7.7	5.17	1220	0.59	2.86	1.1	67.9	480	1.3
K293040		7.07	0.12	1.7	0.030	3.32	8.3	55.9	0.17	143	5.20	0.09	6.0	14.9	550	4.4
K293041		17.60	0.06	1.7	0.074	0.05	3.8	14.2	7.36	1340	0.42	2.55	1.5	77.5	680	1.1
K293042		17.45	0.06	1.5	0.113	0.04	2.2	7.5	5.14	1800	0.81	2.71	1.1	66.9	500	1.7
K293043		17.80	0.07	1.3	0.109	0.02	1.9	10.0	5.45	1890	0.61	2.65	0.7	76.5	390	1.6
K293044		15.15	0.09	1.2	0.114	0.02	1.4	5.7	4.28	1670	10.15	2.20	0.7	80.5	360	3.7
K293045		15.55	0.09	1.0	0.142	0.03	2.0	6.2	4.16	1730	4.26	2.43	0.8	57.7	390	1.7
K293046		22.7	0.10	0.6	0.174	0.08	3.2	8.2	5.55	2510	3.77	1.61	1.7	49.0	620	0.9
K293047		22.7	0.10	0.2	0.245	0.21	2.8	12.1	6.07	2360	6.28	1.49	1.5	69.3	550	1.9
K293048		22.1	0.09	0.3	0.258	0.22	2.6	11.5	6.20	2280	6.35	1.29	1.4	58.4	530	1.8
K293059		25.4	0.11	1.1	0.143	0.02	3.9	14.2	6.06	2910	0.45	0.87	2.2	79.8	610	<0.5
K293060		22.2	0.10	1.6	0.114	0.04	4.6	10.7	5.29	2190	0.56	1.95	2.5	46.2	700	0.6
K293061		21.6	0.08	1.6	0.107	0.05	3.5	7.6	4.71	1800	0.43	2.57	2.1	37.2	650	0.9
K293062		17.40	0.07	1.6	0.089	0.05	2.8	6.0	4.01	1620	0.30	3.14	1.7	36.9	530	0.6
K293063		0.19	<0.05	<0.1	<0.005	0.01	0.9	1.2	13.20	204	0.09	0.01	0.3	1.5	170	1.0
K293064		18.50	0.07	1.6	0.103	0.05	2.9	5.0	4.19	1860	0.23	3.16	1.7	33.9	570	0.6
K293065		12.15	0.08	1.4	0.043	2.83	10.1	70.0	1.05	860	26.2	0.88	1.8	17.5	680	33.6
K293066		16.60	0.06	1.3	0.055	0.19	6.7	7.0	3.04	874	0.41	4.16	2.3	49.0	500	2.8
K293067		16.40	0.05	1.3	0.014	0.29	14.4	2.9	0.83	291	1.49	4.65	4.2	16.6	460	3.7
K293068		8.32	<0.05	0.6	0.026	0.08	2.0	2.9	2.00	591	3.08	1.80	1.7	44.8	280	1.1
K293069		16.25	0.06	1.3	0.064	0.06	2.1	11.6	4.09	1160	0.36	3.06	1.3	60.3	430	1.1
K293070		17.15	0.06	1.2	0.079	0.05	2.4	12.5	4.75	1300	0.16	3.63	1.2	52.4	540	0.9
K293071		18.55	0.06	1.3	0.093	0.05	2.7	12.5	4.85	1390	0.16	3.54	1.1	34.3	650	0.7
K293072		19.55	0.07	1.4	0.085	0.04	2.7	14.1	5.02	1450	0.12	3.33	1.2	33.3	650	0.5

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

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156779

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K293027		56.1	<0.002	0.07	0.26	13.1	1	1.3	392	1.17	<0.05	14.25	0.672	0.49	4.2	121
K293028		52.7	<0.002	0.11	0.28	13.7	2	1.4	415	1.19	<0.05	13.50	0.703	0.46	4.0	131
K293029		22.4	<0.002	0.15	0.22	40.8	2	0.9	251	0.16	<0.05	0.73	0.750	0.14	0.2	282
K293030		52.3	<0.002	0.06	0.28	13.8	2	1.5	465	1.18	<0.05	12.85	0.711	0.45	3.9	131
K293031		0.8	<0.002	<0.01	<0.05	0.2	1	<0.2	48.1	<0.05	<0.05	0.06	<0.005	<0.02	0.6	2
K293032		52.6	<0.002	0.07	0.28	13.7	1	1.4	429	1.14	<0.05	13.25	0.689	0.49	3.8	125
K293033		48.7	<0.002	0.07	0.24	13.5	1	1.3	432	1.11	<0.05	13.00	0.698	0.44	3.7	127
K293034		60.8	<0.002	0.09	0.30	14.9	1	1.5	442	1.06	<0.05	11.95	0.723	0.52	3.4	133
K293035		71.9	<0.002	0.14	0.40	14.0	1	1.5	359	1.02	<0.05	11.60	0.707	0.59	3.3	130
K293036		70.9	<0.002	0.14	0.40	13.9	1	1.5	345	1.00	<0.05	11.60	0.680	0.59	3.2	125
K293037		13.9	<0.002	0.14	0.16	35.0	2	1.0	204	0.28	<0.05	2.82	0.729	0.12	1.5	258
K293038		1.0	0.002	0.22	0.27	45.9	1	0.8	172.0	0.08	<0.05	0.15	0.733	0.05	1.4	305
K293039		1.2	0.004	0.33	0.27	45.3	1	0.9	152.5	0.07	<0.05	0.14	0.729	0.02	1.2	309
K293040		105.0	0.002	2.29	44.4	6.5	15	2.3	71.9	0.38	0.14	1.33	0.313	4.07	0.6	57
K293041		1.0	<0.002	0.33	0.35	48.1	2	1.0	165.0	0.11	<0.05	0.63	0.738	0.02	1.4	327
K293042		0.8	0.002	2.07	0.39	42.7	2	0.8	232	0.09	<0.05	0.11	0.697	0.03	1.5	306
K293043		0.4	0.003	2.52	0.24	41.8	4	1.6	134.0	0.06	<0.05	0.11	0.622	0.05	0.8	281
K293044		0.6	0.041	8.08	0.20	38.9	10	1.3	36.7	0.05	0.26	0.07	0.584	0.10	1.2	250
K293045		1.1	0.023	4.48	0.23	38.0	8	1.4	37.6	0.06	0.11	0.08	0.628	0.07	0.4	265
K293046		4.1	0.015	2.28	0.32	56.5	7	2.2	39.3	0.11	<0.05	0.10	1.030	0.14	0.2	392
K293047		7.9	0.028	1.68	0.47	53.7	5	2.1	60.4	0.10	0.05	0.08	0.932	0.17	0.1	361
K293048		8.2	0.029	1.71	0.48	47.3	5	2.1	57.4	0.10	<0.05	0.08	0.899	0.18	0.1	349
K293059		1.1	0.005	1.15	0.39	55.8	4	2.6	46.6	0.14	<0.05	0.13	0.894	0.04	0.1	349
K293060		1.9	0.006	1.18	0.18	73.0	4	2.3	55.1	0.16	<0.05	0.17	1.065	0.04	0.1	377
K293061		1.4	0.003	1.81	0.14	44.9	4	1.7	77.9	0.15	<0.05	0.14	1.020	0.06	0.1	369
K293062		0.6	0.002	0.51	0.09	42.4	2	0.9	85.2	0.11	<0.05	0.11	0.861	<0.02	0.1	323
K293063		0.7	<0.002	0.01	0.06	0.2	<1	<0.2	50.9	<0.05	<0.05	0.19	<0.005	<0.02	0.5	2
K293064		0.5	<0.002	0.51	0.08	43.1	2	1.1	72.1	0.12	<0.05	0.12	0.933	<0.02	0.1	348
K293065		112.0	0.003	1.13	1.89	16.9	2	1.0	210	0.11	10.15	1.99	0.297	1.43	0.7	136
K293066		2.9	<0.002	0.10	0.12	32.4	1	0.7	246	0.14	<0.05	1.50	0.592	0.04	0.9	217
K293067		5.1	<0.002	0.01	0.12	5.5	1	0.5	405	0.21	<0.05	3.86	0.175	0.06	1.9	40
K293068		1.5	<0.002	0.11	0.12	17.0	1	0.5	66.0	0.11	<0.05	0.14	0.327	0.02	0.1	119
K293069		0.8	<0.002	0.09	0.10	39.0	2	0.7	83.1	0.10	<0.05	0.10	0.705	0.02	0.1	268
K293070		0.6	<0.002	0.01	0.14	44.6	1	0.8	110.0	0.09	<0.05	0.09	0.870	<0.02	0.4	331
K293071		0.6	<0.002	0.02	0.19	43.1	2	0.9	127.5	0.08	<0.05	0.10	0.945	<0.02	0.5	368
K293072		0.4	<0.002	0.05	0.20	43.6	2	0.9	99.2	0.08	<0.05	0.10	0.958	<0.02	0.6	370

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156779

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- GRA21 Au ppm 0.05
K293027		0.9	21.5	57	227	<0.05
K293028		0.9	21.8	60	227	<0.05
K293029		0.3	25.0	92	43.8	<0.05
K293030		0.8	21.7	61	221	<0.05
K293031		0.1	0.8	18	0.6	<0.05
K293032		0.8	22.0	60	218	<0.05
K293033		0.7	21.7	61	215	<0.05
K293034		0.9	22.4	60	215	<0.05
K293035		1.4	22.0	57	208	<0.05
K293036		1.4	21.5	56	205	<0.05
K293037		0.7	26.5	112	75.1	<0.05
K293038		0.1	29.5	127	50.9	<0.05
K293039		0.1	28.3	115	50.9	<0.05
K293040		8.7	10.3	49	71.5	14.30
K293041		0.1	28.6	223	53.3	<0.05
K293042		0.1	27.0	1240	46.0	<0.05
K293043		<0.1	25.3	231	37.9	<0.05
K293044		0.1	23.0	397	37.6	<0.05
K293045		<0.1	23.9	294	37.0	<0.05
K293046		<0.1	34.6	377	20.6	<0.05
K293047		1.9	14.8	297	7.8	<0.05
K293048		3.0	13.8	300	11.3	<0.05
K293059		0.1	34.9	230	28.0	<0.05
K293060		0.1	43.4	163	42.7	<0.05
K293061		0.1	37.3	137	41.1	<0.05
K293062		<0.1	30.9	100	45.9	<0.05
K293063		0.1	0.8	17	<0.5	<0.05
K293064		<0.1	33.0	114	45.1	<0.05
K293065		2.9	11.7	116	52.7	9.72
K293066		0.2	20.8	81	39.3	<0.05
K293067		0.2	5.0	27	50.2	<0.05
K293068		0.1	10.2	48	20.1	<0.05
K293069		0.1	25.7	87	37.9	<0.05
K293070		0.1	32.3	97	28.9	<0.05
K293071		0.1	36.1	106	31.3	<0.05
K293072		0.3	36.1	110	35.4	<0.05

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Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156779

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

Au- GRA21	BAG- 01	CRU- 32	LOG- 21d
LOG- 22	LOG- 23	ME- MS61	PUL- 35a
PUL- 35ad	PUL- QC	SPL- 21	SPL- 21d
WEI- 21			

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

CERTIFICATE WH16156781

Project: Hartless Joe

P.O. No.: Batch 6

This report is for 23 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 16- SEP- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 32	Fine Crushing 90% < 2mm
LOG- 23	Pulp Login - Rcvd with Barcode
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
PUL- 35a	Pulv 1 kg split to 95%< 106 um
BAG- 01	Bulk Master for Storage
LOG- 21d	Sample logging - ClientBarCode Dup
SPL- 21d	Split sample - duplicate
PUL- 35ad	Pulv 1 kg split to 95%< 106 um DUP

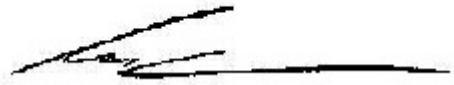
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM
ME- MS61	48 element four acid 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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Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156781

Sample Description	Method	WEI- 21	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	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
K293073		6.74	0.05	6.90	2.7	90	0.32	0.01	5.65	0.19	10.05	40.2	23	0.70	46.9	7.99
K293074		6.96	0.06	6.55	1.9	30	0.36	0.01	6.28	0.12	9.85	40.2	28	0.59	47.0	7.57
K293075		7.00	0.06	6.94	2.4	30	0.34	<0.01	5.69	0.13	8.38	39.3	155	0.60	62.9	7.13
K293076		6.84	0.04	6.77	1.9	30	0.34	0.01	6.31	0.12	7.92	38.5	149	0.79	60.2	6.76
K293077		6.98	0.06	6.59	2.1	30	0.43	0.01	6.82	0.16	10.60	41.9	71	0.78	59.7	7.74
K293078		5.02	0.01	0.05	0.5	20	0.06	0.05	19.65	0.06	1.15	0.8	1	0.11	2.4	0.43
K293079		3.46	0.06	6.65	2.0	30	0.48	0.01	5.36	0.19	11.05	44.3	68	0.97	61.4	8.19
K293080		5.88	0.04	7.30	1.5	1050	1.71	0.10	3.16	0.07	66.5	16.8	4	1.21	12.8	4.08
K293081		7.74	0.10	6.27	1.9	60	0.37	0.01	6.18	0.12	8.84	40.4	82	2.62	62.5	7.06
K293082		2.26	0.25	6.34	8.4	130	0.40	0.02	5.78	0.05	11.35	27.5	117	2.64	48.0	4.58
K293083		0.12	17.70	6.16	18.2	330	0.70	0.22	1.64	3.18	21.9	21.7	33	3.84	153.0	3.76
K293084		5.44	0.28	6.87	3.5	40	0.35	<0.01	5.62	0.04	11.70	34.0	147	0.98	56.8	5.22
K293085		3.16	0.31	7.40	3.2	40	0.36	0.01	5.85	0.03	11.55	33.9	153	0.92	63.4	5.64
K293093		4.58	0.07	7.19	9.3	40	0.31	0.04	6.96	0.15	6.56	44.7	121	0.65	72.8	8.12
K293094		6.22	0.05	7.33	3.3	30	0.26	0.01	7.02	0.14	7.43	46.1	142	0.53	86.0	8.82
K293095		5.06	0.01	0.05	<0.2	20	0.07	0.02	21.8	0.06	0.95	0.8	<1	0.10	2.6	0.48
K293096		6.72	0.04	7.02	5.3	20	0.27	0.08	7.63	0.15	6.68	43.0	123	0.81	74.9	7.75
K293097		<0.02	0.04	6.95	6.0	20	0.27	0.09	7.63	0.17	6.96	44.6	123	0.84	78.3	7.76
K293098		3.94	0.06	6.82	6.2	30	0.27	0.01	6.21	0.14	7.72	45.9	106	2.60	76.8	7.87
K293099		0.16	7.35	3.66	476	540	0.73	0.05	0.19	0.08	16.80	7.7	33	5.18	46.2	3.07
K293100		6.94	0.03	6.64	3.4	20	0.22	0.01	6.53	0.12	7.42	44.0	107	0.64	71.8	7.66
K293101		6.72	0.02	6.66	2.1	20	0.25	0.01	7.97	0.13	6.37	41.2	124	0.27	67.2	7.08
K293102		6.92	0.03	6.99	2.8	20	0.24	0.01	7.04	0.13	6.65	44.6	138	0.41	74.6	7.62

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Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156781

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	ME- MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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	0.5
K293073		18.00	0.09	1.5	0.086	0.05	3.0	12.2	4.08	1330	0.30	3.25	1.2	24.9	670	0.9
K293074		18.60	0.09	1.5	0.084	0.06	2.9	12.7	3.77	1300	0.33	3.07	1.2	26.0	570	0.8
K293075		16.35	0.09	1.4	0.079	0.07	2.4	12.0	4.38	1180	0.44	3.14	1.1	59.8	550	0.8
K293076		16.15	0.10	1.4	0.079	0.06	2.3	10.9	4.13	1160	0.33	3.34	1.1	57.2	580	0.6
K293077		18.35	0.09	1.7	0.096	0.08	3.2	10.0	3.86	1340	1.17	2.92	1.7	48.6	600	1.1
K293078		0.16	0.12	<0.1	0.005	0.02	0.5	1.0	12.20	202	0.09	0.01	0.1	1.6	170	1.6
K293079		18.00	0.09	1.7	0.089	0.08	3.3	12.9	3.97	1480	1.40	3.16	1.7	49.6	570	1.2
K293080		18.50	0.15	5.2	0.048	1.50	34.9	17.6	1.25	680	0.86	3.31	13.6	4.3	1470	14.5
K293081		16.25	0.10	1.0	0.081	0.20	2.7	17.1	3.77	1230	0.86	2.14	1.4	49.8	450	2.0
K293082		13.60	0.10	0.6	0.041	0.47	4.6	12.7	3.41	781	4.60	2.26	3.1	59.2	480	3.7
K293083		12.50	0.13	1.5	0.047	2.75	10.2	65.7	1.01	812	28.2	0.83	2.0	17.5	640	36.4
K293084		14.20	0.09	0.6	0.052	0.10	4.6	16.6	4.24	802	0.42	2.55	3.9	83.7	580	2.7
K293085		13.80	0.07	0.6	0.051	0.09	4.2	16.2	4.59	871	0.44	2.76	3.7	90.6	630	2.9
K293093		16.00	0.07	1.5	0.076	0.09	1.8	10.1	4.57	1220	0.86	3.04	1.1	68.6	480	1.6
K293094		16.95	0.07	1.5	0.080	0.08	2.0	12.1	4.71	1290	0.75	2.57	1.0	77.6	440	0.9
K293095		0.16	0.05	<0.1	<0.005	0.02	<0.5	0.9	13.55	204	0.10	0.01	0.1	1.6	230	1.3
K293096		17.05	0.06	1.5	0.077	0.08	1.9	11.7	4.06	1160	3.56	2.38	1.0	69.6	450	0.9
K293097		17.65	0.06	1.6	0.073	0.08	1.9	11.9	4.03	1160	3.44	2.30	1.0	71.2	440	1.0
K293098		15.90	0.07	1.6	0.081	0.11	2.0	14.0	4.06	1200	0.82	2.57	1.1	67.5	460	1.6
K293099		6.96	0.11	1.6	0.030	3.15	8.2	45.0	0.18	138	5.29	0.09	6.2	13.8	530	4.5
K293100		15.30	0.07	1.6	0.078	0.07	2.0	16.9	4.18	1170	0.81	2.55	1.1	64.6	460	0.6
K293101		15.45	0.06	1.5	0.070	0.06	1.9	9.9	3.88	1120	0.76	2.60	1.0	69.0	420	<0.5
K293102		15.05	0.07	1.6	0.081	0.06	1.9	12.8	4.27	1140	0.62	2.83	1.0	75.9	450	0.6

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

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156781

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	ME- MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	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	1
K293073		0.8	0.002	0.13	0.25	38.9	1	1.0	104.0	0.09	<0.05	0.12	0.911	0.02	0.5	342
K293074		1.0	<0.002	0.12	0.24	38.4	2	1.0	99.5	0.09	<0.05	0.11	0.863	<0.02	0.5	328
K293075		1.0	0.002	0.11	0.28	41.9	1	0.9	150.0	0.08	<0.05	0.10	0.801	<0.02	0.3	306
K293076		1.1	0.002	0.10	0.26	41.1	1	0.8	105.5	0.08	<0.05	0.10	0.768	0.03	0.3	294
K293077		1.4	<0.002	0.14	0.46	42.3	1	1.0	144.0	0.11	<0.05	0.13	0.933	0.02	0.2	335
K293078		0.8	<0.002	<0.01	0.06	0.2	1	<0.2	49.2	<0.05	<0.05	0.08	<0.005	<0.02	0.9	2
K293079		1.8	0.002	0.13	0.34	43.4	1	1.1	131.0	0.12	<0.05	0.13	0.957	0.02	0.1	344
K293080		42.6	<0.002	0.02	0.29	14.1	1	1.5	394	0.77	<0.05	15.40	0.689	0.44	4.3	128
K293081		7.8	0.002	0.18	0.33	39.6	1	0.9	146.5	0.09	<0.05	0.14	0.779	0.09	0.1	286
K293082		15.3	<0.002	0.29	0.47	25.9	1	0.6	159.5	0.20	<0.05	0.37	0.501	0.16	0.3	174
K293083		111.5	0.002	1.08	2.04	16.3	3	1.1	200	0.12	9.97	2.28	0.279	1.47	0.8	129
K293084		2.8	<0.002	0.26	0.20	30.2	1	0.7	138.5	0.25	<0.05	0.28	0.588	0.04	0.2	204
K293085		2.6	<0.002	0.25	0.19	31.4	1	0.7	148.5	0.24	<0.05	0.26	0.608	0.04	0.2	222
K293093		1.3	0.002	0.11	0.29	43.6	2	0.9	135.5	0.08	<0.05	0.08	0.791	0.03	0.2	324
K293094		0.5	<0.002	0.17	0.37	44.9	2	1.0	147.5	0.08	<0.05	0.08	0.787	0.02	0.2	318
K293095		0.7	<0.002	<0.01	<0.05	0.2	1	<0.2	48.5	<0.05	<0.05	0.05	<0.005	<0.02	0.6	2
K293096		1.0	0.002	0.12	0.46	42.5	1	0.9	131.0	0.07	<0.05	0.08	0.766	<0.02	0.2	309
K293097		1.0	0.002	0.13	0.50	42.9	1	0.9	131.0	0.07	<0.05	0.08	0.744	<0.02	0.2	304
K293098		2.7	0.002	0.19	0.90	45.2	2	0.9	150.0	0.08	<0.05	0.08	0.789	0.03	0.2	321
K293099		110.5	0.003	2.18	42.8	6.5	14	2.3	73.1	0.40	0.12	1.38	0.293	4.07	0.7	56
K293100		0.5	0.003	0.22	0.33	44.1	2	0.9	138.0	0.08	<0.05	0.08	0.767	0.02	0.2	311
K293101		0.2	0.002	0.13	0.18	40.7	1	0.8	152.0	0.07	<0.05	0.07	0.706	<0.02	0.2	291
K293102		0.3	0.003	0.13	0.21	44.4	2	0.8	143.0	0.07	<0.05	0.08	0.759	<0.02	0.2	312

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

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

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156781

Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Au- GRA21 Au ppm 0.05
K293073		0.9	36.5	100	30.2	<0.05
K293074		0.2	35.4	97	35.2	<0.05
K293075		0.4	31.6	84	30.8	<0.05
K293076		0.3	30.6	81	31.5	<0.05
K293077		0.2	36.7	91	38.2	<0.05
K293078		0.1	0.8	15	<0.5	<0.05
K293079		0.1	37.8	96	32.9	<0.05
K293080		1.1	26.3	60	215	<0.05
K293081		0.6	30.4	82	24.9	<0.05
K293082		7.9	13.9	59	16.5	<0.05
K293083		3.2	11.9	110	53.2	9.56
K293084		1.1	16.4	65	19.0	<0.05
K293085		1.0	16.4	72	23.8	<0.05
K293093		0.2	30.5	92	36.0	<0.05
K293094		0.1	29.9	100	38.2	<0.05
K293095		0.1	0.8	14	<0.5	<0.05
K293096		0.3	30.1	88	40.2	<0.05
K293097		0.3	30.3	89	38.2	<0.05
K293098		1.3	31.2	92	40.0	<0.05
K293099		8.9	10.4	45	67.9	15.20
K293100		0.1	31.1	91	38.3	<0.05
K293101		0.1	29.4	81	38.8	<0.05
K293102		0.2	31.5	88	38.8	<0.05

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VANCOUVER BC V6B 1L8

Finalized Date: 17- OCT- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16156781

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- 23

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- GRA21	BAG- 01	CRU- 32	CRU- QC
LOG- 21d	LOG- 22	ME- MS61	PUL- 35a
PUL- 35ad	PUL- QC	SPL- 21	SPL- 21d
WEI- 21			

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

Finalized Date: 25- NOV- 2016
Account: MTT

CERTIFICATE WH16186940

Project: Hartless Joe

P.O. No.: Batch 1

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- OCT- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SCR- 21	Screen to - 100 to 106 um
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

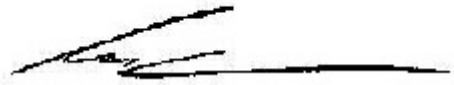
ANALYTICAL PROCEDURES

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
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

ALS Canada Ltd.
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www.alsglobal.com

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

Finalized Date: 25- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186940

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
K292912		0.42	0.60	0.41	0.018	29.89	633.6	0.40	0.42
K292913		<0.05	<0.05	<0.05	<0.001	27.88	1011.5	0.01	0.01
K292914		0.63	0.95	0.62	0.013	13.69	332.2	0.59	0.64

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

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186940

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

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

Applies to Method:			
Au- AA25	Au- AA25D	Au- SCR21	BAG- 01
FND- 03	PUL- 32	SCR- 21	SPL- 21

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **STRATEGIC METALS LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25- NOV- 2016
Account: MTT

CERTIFICATE WH16186952

Project: Hartless Joe

P.O. No.: Batch 2

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- OCT- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SCR- 21	Screen to - 100 to 106 um
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

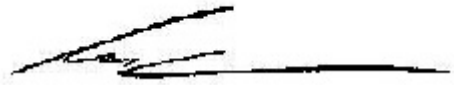
ANALYTICAL PROCEDURES

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
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

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

Finalized Date: 25- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186952

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
K292937		<0.05	<0.05	<0.05	<0.001	65.48	949.3	<0.01	<0.01
K292953		0.13	0.06	0.14	0.003	48.92	901.6	0.14	0.13
K292956		0.29	0.40	0.29	0.010	24.77	972.2	0.28	0.30
K292957		1.28	6.31	1.16	0.145	22.98	961.7	1.15	1.16
K292959		<0.05	<0.05	<0.05	<0.001	36.30	978.7	<0.01	<0.01

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

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VANCOUVER BC V6B 1L8

Finalized Date: 25- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186952

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

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

Applies to Method:			
Au- AA25	Au- AA25D	Au- SCR21	BAG- 01
FND- 03	PUL- 32	SCR- 21	SPL- 21

ALS Canada Ltd.

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To: **STRATEGIC METALS LTD.**
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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25- NOV- 2016
Account: MTT

CERTIFICATE WH16186953

Project: Hartless Joe

P.O. No.: Batch 3

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- OCT- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SCR- 21	Screen to - 100 to 106 um
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
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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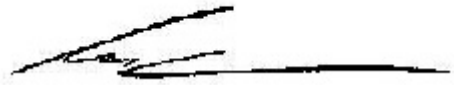
***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 25- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186953

Sample Description	Method / Analyte / Units / LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
K293013		<0.05	<0.05	<0.05	<0.001	55.09	943.1	<0.01	<0.01

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

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Finalized Date: 25- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186953

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA25	Au- AA25D	Au- SCR21	BAG- 01
FND- 03	PUL- 32	SCR- 21	SPL- 21

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1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26- NOV- 2016
Account: MTT

CERTIFICATE WH16186954

Project: Hartless Joe

P.O. No.: Batch 5

This report is for 36 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 31- OCT- 2016.

The following have access to data associated with this certificate:

HEATHER BURRELL	MATT DUMALA	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SCR- 21	Screen to - 100 to 106 um
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

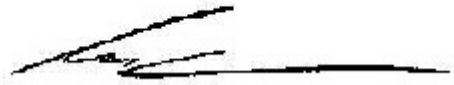
ANALYTICAL PROCEDURES

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
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

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.**
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Finalized Date: 26- NOV- 2016
Account: MTT

Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186954

Sample Description	Method Analyte Units LOR	Au- SCR21 Au Total ppm 0.05	Au- SCR21 Au (+) F ppm 0.05	Au- SCR21 Au (-) F ppm 0.05	Au- SCR21 Au (+) m mg 0.001	Au- SCR21 WT. + Fr g 0.01	Au- SCR21 WT. - Fr g 0.1	Au- AA25 Au ppm 0.01	Au- AA25D Au ppm 0.01
K293044		<0.05	<0.05	<0.05	<0.001	43.04	1008.0	<0.01	0.01
K293045		<0.05	<0.05	<0.05	<0.001	47.22	999.2	<0.01	<0.01
K293046		<0.05	<0.05	<0.05	<0.001	32.84	664.3	<0.01	<0.01
K293047		<0.05	<0.05	<0.05	<0.001	69.99	952.3	0.01	0.01
K293048		<0.05	<0.05	<0.05	<0.001	62.40	932.8	0.02	0.02

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

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Finalized Date: 26- NOV- 2016
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Project: Hartless Joe

CERTIFICATE OF ANALYSIS WH16186954

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au- AA25	Au- AA25D	Au- SCR21	BAG- 01
FND- 03	PUL- 32	SCR- 21	SPL- 21

APPENDIX VI

GEOLOGICAL AND GEOTECHNICAL LOGS

Hartless Joe - Hartless Joe

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		516567	6753488	1553	67.06

ZONE: Unknown

SECTION:

HOLE: HAR-16-001

CLAIM:

Contractor: Beaudoin

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: -

Geology Logged By: J. Morton

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: King

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.9	3.9	BAS
3.9	9.27	5.37	BAS
9.27	11.2	1.93	MST
11.2	17.04	5.84	BAS
17.04	17.33	0.29	QV
17.33	17.86	0.53	MST
17.86	18.16	0.3	SLT
18.16	22.02	3.86	MST
22.02	22.42	0.4	LST
22.42	32.75	10.33	MST
32.75	50.81	18.06	BAS
50.81	51.14	0.33	SLT
51.14	63.44	12.3	BAS
63.44	67.06	3.62	AND

SAMPLES	
Numbers:	K292942 to K292981
Total:	40
Batch:	002, 003
Certificates:	WH16154785, WH16154788

COMMENTS

Box Log

HAR-16-001

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	5.94
2	5.94	9.89
3	9.89	13.87
4	13.87	18.16
5	18.16	22.42
6	22.42	26.67
7	26.67	30.93
8	30.93	35.3
9	35.3	39.12
10	39.12	43.04
11	43.04	47.25
12	47.25	51.28
13	51.28	55.62
14	55.62	59.87
15	59.87	64.14
16	64.14	67.06

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.90	3.90	BAS	FG	Overburden; Cobbles/rubble of dark green basalt; Chlorite on fracture surfaces.							
						DK	GN	RB				
3.90	9.27	5.37	BAS	FG	Dark green, moderately brecciated pillow basalt with limey black inter-pillow mud hosting abundant v.f.g. epidote and carbonate, very rare mm-scale diffuse patches of quartz, and trace pyrite and sphalerite as v.f.g. ribbons and clots; Basalt pillows are often vesicular with mm-scale vesicles filled with black mud and trace grains of v.f.g. pyrite; Limonite, carbonate and chlorite on fracture surfaces; Very rare sub-mm hairline stringers of carbonate hosting v.f.g. sphalerite.							
						DK	GN	BX	CHL	3I	Py	0.01
									EPI	2I	Sp	0.02
									CAR	2I		
									OXI	2I		
9.27	11.20	1.93	MST	FG	Mudstone breccia with sub-angular dark green volcanic clasts, up to 2.5cm in diameter, with diffuse borders, suspended in a dark black matrix; Matrix hosts disseminated v.f.g. pyrite as well as sparse v.f.g. pyrite and trace spahlerite, as clots and ribbons increasing in abundance downsection, with ~15% of bottom the 6cm of the interval comprising sulphide minerals; Very rare sub-mm hairline stringers of quartz-carbonate; Bottom contact is sharp and strongly limonitic.							
						DK	GN	SD	OXI	1I	Sp	0.02
						DK	BK	BX	CHL	3I	Py	1
									CAR	1I		
11.20	11.99	0.79	BAS	FG	Very weakly brecciated dark green basalt, hosting v.f.g. disseminated pyrite (in vesicles?) as well as clots and ribbons of pyrite-carbonate-epidote; Very rare sub-mm hairline stringers of quartz-carbonate; Limonite and chlorite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	0.5
									EPI	1I		
									OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
11.99	17.04	5.05	BAS	FG	Medium grey to dark green, limey, un-brecciated basalt(?) with stacked/bedded mm-scale carbonate ribbons/horizons aligned 70-80 degrees TCA; Clots and ribbons of v.f.g. pyrite associated with carbonate-epidote and trace sphalerite, in seemingly en-echelon mm-scale ribbon systems that are aligned ~30 degrees TCA; Limonite, chlorite and carbonate on fracture surfaces; Rare diffuse patches of quartz-carbonate.							
						MD	GY		CHL	2I	Py	0.03
						DK	GN		CAR	3I	Sp	0.01
									OXI	1I		
									EPI	1I		
17.04	17.33	0.29	QV	--	Pale white-green, banded and brecciated exhalative silica, (colliform, granular and massive), with numerous mm-scale rounded quartz clasts with diffuse borders re-healed within a siliceous matrix; Patches of pale tan albite or adularia within the silica bands, as well as rare ribbons of v.f.g. sphalerite and clots of v.f.g. pyrite and galena; Elongate sub-angular dark mud clasts suspended in quartz matrix; Very rare limonitic hairline fractures; Limonite on fracture surfaces.							
						LT	WH	BN			Py	0.01
						LT	GN				Sp	0.05
											Gn	0.01
17.33	17.86	0.53	MST	VF	Dark grey-green limey mudstone(?) hosting abundant clots and disseminations of v.f.g. pyrite as well as mm-scale gashes of quartz-carbonate hosting v.f.g. clots of pyrrhotite-sphalerite; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GY		CAR	3I	Po	0.01
						DK	GN		OXI	1I	Sp	0.01
									CHL	1I	Py	0.5
17.86	18.16	0.30	SLT	VF	Massive medium grey-green siltstone, with very rare v.f.g. disseminated pyrite; Un-altered; Diffuse contacts with overlying and underlying seds.							
						MD	GY	MA				
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.16	22.02	3.86	MST	VF	Bioturbated and un-brecciated, dark grey-green to maroon limey mudstone to grainstone, with grains of crinoid(?) fragments and soft-sediment loading structures; Several mm-scale colliform quartz-carbonate veinlets hosting clots of v.f.g. pyrite with limonite halos (descibed in detail in the secondary structures log); Diffuse mm-scale ribbons of pyrite-carbonate, increasing in abundance down-section; Limonite, chlorite and carbonate on fracture surfaces.							
						LT	PU		CAR	3I		
						LT	BN		CHL	1I		
						DK	GY	SD	OXI	1I	Py	1
22.02	22.42	0.40	LST	FG	7 cm wide banded and un-mineralized quartz-carbonate horizon, underlain by medium grey limestone(?) crackle breccia with mm-scale (up to 1cm wide) ribbons of quartz hosting rare clots of v.f.g. pyrite and hematite, as well as rare v.f.g. pyrite in breccia matrix; Limonite on fracture surfaces.							
						MD	GY	BX	OXI	1I	Py	0.02
22.42	25.20	2.78	MST	VF	Strongly brecciated, silica-flooded, medium grey to tan-maroon mudstone, with bands of white to pale green, colliform quartz-carbonate, cross-cutting quartz veinlets, diffuse brecciated clasts/patches of silica, hundreds of mm-scale ribbons of carbonate, and brecciated clasts of mudstone wallrock suspended in silica matrix; Mudstone wallrock displays soft-sediment loading structures (micro-faulting); Abundant v.f.g. pyrite as round clots in mudstone, as ribbons along quartz selvages, as seams within mm-scale quartz veinlets, and disseminated throughout; Rare clots of v.f.g. hematite suspended in quartz, as well as trace coarse grains of galena; Live limonite on fracture surfaces.							
						MD	GY					
						LT	PU	SD	OXI	1I		
						LT	WH	BX	CAR	3I	Py	3
						LT	GN	BN	SIL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.20	31.12	5.92	MST	VF	Medium tan to medium grey, limey, brecciated mudstone, hosting deformed and elongate mudstone clasts in a dark grey-black mud matrix; Sparse veinlets of quartz-carbonate with (live) limonitic fracture surfaces/selvages; Ribbons and patches of quartz carbonate, up to 1.5cm wide, surround mudstone clasts and display soft-sediment loading structures (flames, micro-faults) Quartz-carbonate bands also stacked in sections up to 7cm wide; Sparse round clots of v.f.g. pyrite in dark mud matrix or in carbonate ribbions; 2cm diameter irregular clot of massive pyrite hosted in patchy quartz-carbonate at 29.85m; Limonite, carbonate and chlorite on fracture surfaces; Very limonitic/gougey fracture @ 27.74m (not a fault).							
						MD	GY	BX	OXI	1I	Py	0.03
						MD	TN	BN	CHL	2I		
								SD	CAR	2I		
31.12	32.75	1.63	MST	VF	Dark green, un-brecciated, limey mudstone(?) with moderate mm-scale carbonate stringers hosting minor epidote; Trace round clots of v.f.g. pyrite throughout; Chlorite and carbonate on fracture surfaces; Strongly magnetic but no visible pyrrhotite.							
						DK	GN		CHL	3I	Po	1
									CAR	2I		
32.75	42.06	9.31	BAS	FG	Weakly bxa dark green basalt with very little inter-pillow mud, transitioning to plagioclase-phyric basalt @ 41m; Very strongly magnetic between 34-38m; Sparse mm-scale ribbons of quartz-carbonate-epidote hosting clots of v.f.g. pyrite, pyrrhotite and shpalerite; Large ~3cm diameter clots of massive v.f.g. pyrite surrounded by v.f.g. epidote @ 34.74m; Black chlorite and lesser carbonate, minor limonite, on fracture surfaces.							
						DK	GN	BX	CHL	4I	Po	1
									CAR	1I	Py	0.1
											Sp	0.05

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
42.06	47.19	5.13	BAS	FG	Dark green pillow basalt/pillow basalt brecccia top, transitioning to un-brecciated basalt bottom; Between pillows is a black mud matrix supporting mm- to cm-scale sub-angular basalt clasts; Matrix hosts moderate clots of v.f.g. pyrite at the to of the interval, and increasing v.f.g. epidote-pyrrhotite-sphalerite down-section; Very sparse sub-mm hairline carbonate stringers throughout; Chlorite and lessor carbonate, minor limonite on fracture surfaces; Vesicular portions of basalt contain white carbonate in sub-mm vesicles.							
						DK	GN	BX	CHL	2I	Py	0.1
									CAR	1I	Po	0.1
											Sp	0.05
47.19	49.63	2.44	BAS	FG	Same lithology as 42.06 - 47.19m; Top metre is strongly magnetic but no apparent pyrrhotite except as rare matrix v.f.g. fill, and trace v.f.g. chalcopyrite; Chlorite and lesser carbonate on fracture surfaces.							
						DK	GN	BX	CHL	2I	Po	1
									CAR	1I	Py	0.4
											Sp	0.05
49.63	50.81	1.18	BAS	FG	Same lithology as 42.06 - 47.19m; Core is strongly magnetic throughout interval but contains no apparent pyrrhotite except for sparse v.f.g. clots in inter-pillow mud; Vesciular basalt in the bottom 17cm of interval has vesicles filled with carbonate-epidote; Clots of v.f.g. pyrite up to 1cm in diameter are suspended in black mud matrix; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	0.04
									OXI	1I	Sp	0.01
									CAR	1I	Po	1
50.81	51.14	0.33	SLT	VF	Medium grey-green massive siltstone(?) with sharp contacts at the top and bottom oriented 55 degrees TCA.							
						MD	GY	MA				
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.14	54.29	3.15	BAS	FG	Same general lithology as 42.06 - 47.19m, with a muddy bioturbated top until ~52.70m; Bottom 30cm is strongly magnetic with no apparent pyrrhotite; Rare sub-mm to mm-scale carbonate stringers throughout, hosting v.f.g. epidote and pyrite, minor sphalerite and pyrrhotite; Chlorite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Po	0.04
								SD			Py	0.03
											Sp	0.01
54.29	57.41	3.12	BAS	FG	Same general lithology as 42.06 - 47.19m, but only the bottom 33cm is basalt - above this is a bioturbated mudstone(?); Abundant clots and ribbons of v.f.g. epidote and pyrite in the muddy top of the interval; Rare mm-scale quartz-carbonate-epidote ribbons with pyrite and minor pyrrhotite-sphalerite in lower basalt portion of the interval; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	0.03
								SD	CAR	2I	Po	0.02
									OXI	1I	Sp	0.01
57.41	61.66	4.25	BAS	FG	25cm of dark black mudstone, followed by un-brecciated, medium grey-green, amygdaloidal(?)/vesicular basalt with mm-scale amygdules of carbonate; Top 25cm hosts abundant clots of v.f.g. pyrite, lesser pyrrhotite, and diffuse/patchy epidote throughout; Bottom 4m is un-mineralized, with rare mm-scale carbonate stringers and occasionaly limonitic, diffuse patches of epidote; Chlorite is only in the top mud.							
						MD	GY				Po	0.01
						DK	GN	SD	CAR	3I	Py	0.03
61.66	63.44	1.78	BAS	FG	Same general lithology as 42.06 - 47.19; Cm-diameter volcanic clasts with diffuse borders are hosted in a black mud matrix; Moderate round clots of pyrite-pyrrhotite-sphalerite along with epidote are hosted in the inter-pillow black mud matrix; Chlorite and carbonate on fracture surfaces.							
						DK	GN	BX	CHL	3I	Py	0.5
									CAR	1I	Po	0.03
											Sp	0.03

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
63.44	64.70	1.26	AND	FG	Medium grey, plagioclast-phyric andesite dyke(?) with euhedral and glomerophenocrysts of white plagioclase, cross-cut by sub-mm hairline stringers of quartz; Very rare angular clots of v.f.g. pyrite with limonite halos.							
						MD	GY					
64.70	67.06	2.36	AND	FG	Dark grey plagioclase-hornblende(?)-phyric porphyry, strongly silicified, with mm- to sub-mm-scale stringers of quartz hosting grains of v.f.g. pyrite with limonitic halos, as well as sub-mm hairline stringers of limonite throughout; Limonite on fracture surfaces.							
						DK	GY		SIL	3I		
									OXI	1I		
									CAR	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.90	3.90	BAS	FG	Overburden; Cobbles/rubble of dark green basalt; Chlorite on fracture surfaces.							
						DK	GN	RB				
3.90	9.27	5.37	BAS	FG	Dark green, moderately brecciated pillow basalt with limey black inter-pillow mud hosting abundant v.f.g. epidote and carbonate, very rare mm-scale diffuse patches of quartz, and trace pyrite and sphalerite as v.f.g. ribbons and clots; Basalt pillows are often vesicular with mm-scale vesicles filled with black mud and trace grains of v.f.g. pyrite; Limonite, carbonate and chlorite on fracture surfaces; Very rare sub-mm hairline stringers of carbonate hosting v.f.g. sphalerite.							
						DK	GN	BX	CHL	3I	Sp	0.02
									OXI	2I		
									EPI	2I	Py	0.01
									CAR	2I		
9.27	11.20	1.93	MST	VF	Mudstone breccia with sub-angular dark green volcanic clasts, up to 2.5cm in diameter, with diffuse borders, suspended in a dark black matrix; Matrix hosts disseminated v.f.g. pyrite as well as sparse v.f.g. pyrite and trace spahlerite, as clots and ribbons increasing in abundance downsection, with ~15% of bottom the 6cm of the interval comprising sulphide minerals; Very rare sub-mm hairline stringers of quartz-carbonate; Bottom contact is sharp and strongly limonitic.							
						DK	BK	BX	CHL	3I	Py	1
						DK	GN	SD	OXI	1I	Sp	0.02
									CAR	1I		
11.20	17.04	5.84	BAS	FG	Medium grey to dark green, weakly brecciated to un-brecciated, limey basalt, with clots and ribbons of v.f.g. pyrite, lesser sphalerite, associated with diffuse patchy quartz-carbonate-epidote. Limonite, chlorite and carbonate on fracture surfaces.							
									OXI	1I		
									EPI	1I		
						DK	GN		CAR	2I	Sp	0.01
						MD	GY	BX	CHL	2I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
17.04	17.33	0.29	QV	--	Pale white-green, banded and brecciated exhalative silica, (colliform, granular and massive), with numerous mm-scale rounded quartz clasts with diffuse borders re-healed within a siliceous matrix; Patches of pale tan albite or adularia within the silica bands, as well as rare ribbons of v.f.g. sphalerite and clots of v.f.g. pyrite and galena; Elongate sub-angular dark mud clasts suspended in quartz matrix; Very rare limonitic hairline fractures; Limonite on fracture surfaces.							
											Gn	0.01
						LT	WH	BN			Py	0.01
						LT	GN				Sp	0.05
17.33	17.86	0.53	MST	VF	Dark grey-green limey mudstone(?) hosting abundant clots and disseminations of v.f.g. pyrite as well as mm-scale gashes of quartz-carbonate hosting v.f.g. clots of pyrrhotite-sphalerite; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GY		CAR	3I	Po	0.01
						DK	GN		OXI	1I	Sp	0.01
									CHL	1I	Py	0.5
17.86	18.16	0.30	SLT	VF	Massive medium grey-green siltstone, with very rare v.f.g. disseminated pyrite; Un-altered; Diffuse contacts with overlying and underlying seds.							
						MD	GN					
						MD	GY	MA				
18.16	22.02	3.86	MST	VF	Bioturbated and un-brecciated, dark grey-green to maroon limey mudstone to grainstone, with grains of crinoid(?) fragments and soft-sediment loading structures; Several mm-scale colliform quartz-carbonate veinlets hosting clots of v.f.g. pyrite with limonite halos (descibed in detail in the secondary structures log); Diffuse mm-scale ribbons of pyrite-carbonate, increasing in abundance down-section; Limonite, chlorite and carbonate on fracture surfaces.							
						DK	GY	SD	OXI	1I	Py	1
						LT	PU		CAR	3I		
						LT	BN		CHL	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
22.02	22.42	0.40	LST	VF	7 cm wide banded and un-mineralized quartz-carbonate horizon, underlain by medium grey limestone(?) crackle breccia with mm-scale (up to 1cm wide) ribbons of quartz hosting rare clots of v.f.g. pyrite and hematite, as well as rare v.f.g. pyrite in breccia matrix; Limonite on fracture surfaces.							
						MD	GY	BX	OXI	1I	Py	0.02
22.42	32.75	10.33	MST	VF	Top 2.78m consists of strongly brecciated, quartz-flooded, medium grey to tan-maroon mudstone, with multi-episodic and exhalative colliform quartz-carbonate bands, veinlets and ribbons, hosting clots of pyrite and suspended clasts of quartz and mudstone wallrock; This transitions down-section to brecciated tan to medium grey mudstone, consisting of elongate/deformed rip-up clasts of mudstone in a grey-black mud matrix, with ribbons and patches of quartz-carbonate surrounding clasts, as well as stacked bands of quartz-carbonate up to 7cm wide.							
						MD	GY	BX	OXI	1I	Py	1
						MD	TN	BN	CAR	2I	Po	1
						LT	PU	SD	SIL	2I		
32.75	50.81	18.06	BAS	FG	Cycles of dark green, pillow basalt/pillow basalt breccia tops transitioning down-section to weakly brecciated vesicular basalt; Black inter-pillow mud contains clots and ribbons of v.f.g. pyrite with lesser pyrrhotite, chalcopyrite and sphalerite, as well as diffuse patches of epidote-carbonate; Most of this interval is strongly magnetic, which is attributed to unseen v.f.g. pyrrhotite disseminated throughout; Chlorite, lesser carbonate, and minor limonite alteration is ubiquitous.							
						DK	GN	BX	CHL	2I	Py	0.1
											Cp	0.01
									CAR	1I	Po	0.5
									OXI	1I	Sp	0.01
50.81	51.14	0.33	SLT	VF	Medium grey-green massive siltstone(?) with sharp contacts at the top and bottom oriented 55 degrees TCA.							
						MD	GY	MA				
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
51.14	63.44	12.30	BAS	FG	Same general lithology as 32.75 - 50.81m; Bioturbated mud tops, or muddy pillow basalt breccia tops, cycling downward into weakly brecciated and sometimes amygdaloidal basalt bottoms; Clots and ribbons of v.f.g. epidote-pyrite with lesser pyrrhotite-sphalerite in muddy tops, and rare diffuse patches of epidote in un-brecciated bottoms; Less intense chlorite alteration than previous interval(s).							
						DK	GN	BX	CHL	1I	Py	0.05
								SD	CAR	1I	Po	0.02
											Sp	0.01
63.44	67.06	3.62	AND	FG	Plagioclase-(glomero)phyric and plagioclase-hornblende-phyric porphyry dyke(?), which is cross-cut by mm- to sub-mm-scale quartz stringers and sub-mm stringers of limonite; Bottom 2.36m is strongly silicified, with a bleached appearance; Relatively un-mineralized (trace py.)							
						DK	GY					
						MD	GY		SIL	1I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.90	3.90	0	0	0.00	0	--	--	--	Overburden.
3.90	4.57	0.67	0.67	100	0.38	57	1R	3H	2W	
4.57	6.10	1.53	1.38	90	0.72	47	0R	3H	2W	
6.10	7.62	1.52	1.45	95	0.76	50	1R	3H	1W	
7.62	10.67	3.05	3.03	99	2.00	66	0R	3H	1W	
10.67	12.19	1.52	1.52	100	0.95	63	1R	3H	1W	
12.19	15.24	3.05	2.98	98	2.28	75	4R	3H	2W	
15.24	18.29	3.05	3	98	1.96	64	3R	3H	1W	
18.29	21.34	3.05	2.91	95	2.76	90	3R	3H	2W	
21.34	24.38	3.04	3.04	100	2.89	95	4R	3H	1W	
24.38	27.43	3.05	3.01	99	2.47	81	3R	3H	1W	
27.43	30.48	3.05	3	98	2.17	71	3R	3H	1W	
30.48	33.53	3.05	3.05	100	2.34	77	3R	3H	1W	
33.53	36.58	3.05	2.8	92	2.15	70	1R	3H	1W	
36.58	39.62	3.04	3.04	100	1.51	50	1R	3H	1W	
39.62	42.67	3.05	2.98	98	2.33	76	2R	3H	1W	
42.67	45.72	3.05	3.01	99	2.74	90	1R	3H	1W	
45.72	48.77	3.05	3.05	100	3.03	99	0R	3H	1W	
48.77	51.82	3.05	3.05	100	2.55	84	0R	3H	1W	
51.82	54.86	3.04	2.94	97	2.79	92	1R	3H	1W	
54.86	57.91	3.05	3.05	100	2.65	87	2R	3H	1W	
57.91	60.96	3.05	3	98	2.72	89	2R	3H	1W	
60.96	64.01	3.05	3.05	100	2.84	93	2R	3H	1W	
64.01	67.06	3.05	3.05	100	1.79	59	3R	3H	1W	

Strategic metals ltd.

Magnetic Suscepatibility

HAR-16-001

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
4	1.04	BAS	
5	1.15	BAS	
6	0.67	BAS	
7	0.48	BAS	
8	0.4	BAS	
9	0.43	BAS	
10	0.84	MST	
11	0.77	MST	
12	0.78	BAS	
13	1.1	BAS	
14	6.73	BAS	
15	0.75	BAS	
16	0.67	BAS	
17	2.28	BAS	
18	0.52	SLT	
19	0.7	MST	
20	1.09	MST	
21	1.12	MST	
22	1.46	MST	
23	1.24	MST	
24	0.38	MST	
25	1.24	MST	
26	0.89	MST	
27	0.55	MST	
28	0.75	MST	
29	0.78	MST	
30	0.94	MST	
31	36.1	MST	
32	41.1	MST	

Depth (m)	Magnetic Susceptibility	Unit	Comments
33	23.2	BAS	
34	5.66	BAS	
35	37.2	BAS	
36	104	BAS	
37	41.4	BAS	
38	5.24	BAS	
39	1.01	BAS	
40	0.77	BAS	
41	1.32	BAS	
42	0.84	BAS	
43	1.14	BAS	
44	0.77	BAS	
45	8.09	BAS	
46	17	BAS	
47	7.71	BAS	
48	16.6	BAS	
49	2.25	BAS	
50	13	BAS	
51	0.67	SLT	
52	1.26	BAS	
53	2.13	BAS	
54	92.8	BAS	
55	6.82	BAS	
56	11.4	BAS	
57	1.09	BAS	
58	1.36	BAS	
59	1	BAS	
60	0.43	BAS	
61	0.78	BAS	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
62	0.67	BAS	
63	1.56	BAS	
64	0.52	AND	
65	0.13	AND	
66	0	AND	
67	0.13	AND	

Depth (m)	Magnetic Susceptibility	Unit	Comments

Strategic metals ltd.

Sample Log

HAR-16-001

Hartless Joe

Unknown Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K292950	☐	H00-002		62Pa	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292954	☐	H00-002			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292961	☐	H00-002		15A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292977	☐	H00-003			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292981	☐	H00-003		62Pa	☐	☐	☐
0.00	3.90	3.90	-QC-	1.00	26	K292942	☐	H00-002			☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292946	☐	H00-002			☑	☐	☐
3.90	6.10	2.20	BAS, BAS	2.07	94	K292943	☐	H00-002			☐	☐	☐
6.10	7.62	1.52	BAS	1.52	100	K292944	☐	H00-002			☐	☐	☐
7.62	9.27	1.65	BAS	1.46	88	K292945	☐	H00-002			☐	☐	☐
9.27	11.20	1.93	BAS, MST	0.92	48	K292947	☐	H00-002			☐	☐	☐
11.20	12.19	0.99	BAS, MST	0.99	100	K292948	☐	H00-002			☐	☐	☐
12.19	15.24	3.05	BAS	3.00	98	K292949	☐	H00-002			☐	☐	☐
15.24	17.04	1.80	BAS	1.76	98	K292951	☐	H00-002			☐	☐	☐
17.04	17.33	0.29	BAS, QV	0.29	100	K292952	☐	H00-002			☐	☐	☐
17.33	18.29	0.96	MST, QV	0.86	90	K292953	☐	H00-002			☐	☐	☐
18.29	21.34	3.05	MST	2.91	95	K292955	☐	H00-002			☐	☐	☐
21.34	22.42	1.08	MST	1.08	100	K292956	☐	H00-002			☐	☐	☐
22.42	25.20	2.78	LST, MST	2.75	99	K292957	☐	H00-002			☐	☐	☐
25.20	27.43	2.23	MST	2.09	94	K292958	☐	H00-002			☐	☐	☐
27.43	29.95	2.52	MST	2.40	95	K292959	☐	H00-002			☐	☐	☐
29.95	31.12	1.17	MST	1.15	98	K292960	☐	H00-002			☐	☐	☐
31.12	32.75	1.63	MST	1.63	100	K292962	☐	H00-002			☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
32.75	33.53	0.78	MST, BAS	0.78	100	K292963	☐	H00-002			☐	☐	☐
33.53	36.58	3.05	BAS	2.80	92	K292964	☐	H00-002			☐	☐	☐
33.53	36.58	3.05	BAS	2.80	92	K292965	☐	H00-002			☐	☐	☑
36.58	39.62	3.04	BAS	3.04	100	K292966	☐	H00-002			☐	☐	☐
39.62	42.67	3.05	BAS	2.98	98	K292967	☐	H00-002			☐	☐	☐
42.67	45.72	3.05	BAS	3.01	99	K292968	☐	H00-002			☐	☐	☐
45.72	48.77	3.05	BAS	3.05	100	K292969	☐	H00-002			☐	☐	☐
48.77	50.81	2.04	BAS	2.04	100	K292970	☐	H00-002			☐	☐	☐
50.81	51.14	0.33	BAS, SLT	0.32	97	K292971	☐	H00-002			☐	☐	☐
51.14	54.02	2.88	SLT, BAS	2.70	94	K292972	☐	H00-002			☐	☐	☐
54.02	54.86	0.84	BAS	0.83	99	K292973	☐	H00-003			☐	☐	☐
54.86	57.91	3.05	BAS	3.05	100	K292974	☐	H00-003			☐	☐	☐
57.91	59.87	1.96	BAS	1.92	98	K292975	☐	H00-003			☐	☐	☐
59.87	61.66	1.79	BAS	1.79	100	K292976	☐	H00-003			☐	☐	☐
61.66	63.44	1.78	BAS	1.77	99	K292978	☐	H00-003			☐	☐	☐
63.44	64.20	0.76	BAS, AND	0.76	100	K292979	☐	H00-003			☐	☐	☐
64.20	67.06	2.86	AND	2.19	77	K292980	☐	H00-003			☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-002	K292942	0.00	3.90	0.03	2		0	0.0	☐	☐	☐	☐	Overburden.
H00-002	K292946	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-002	K292950	0.00	0.00	9.76	20		2	1.6	☐	☐	☐	☑ 62Pa	
H00-002	K292954	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-002	K292961	0.00	0.00	14.80	492		46	4.2	☐	☐	☐	☑ 15A	
H00-003	K292977	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-003	K292981	0.00	0.00	9.73	18		2	1.6	☐	☐	☐	☑ 62Pa	
H00-002	K292943	3.90	6.10	0.03	2		0	0.0	☐	☐	☐	☐	
H00-002	K292944	6.10	7.62	0.03	1		0	0.0	☐	☐	☐	☐	
H00-002	K292945	7.62	9.27	0.03	3		0	0.0	☐	☐	☐	☐	
H00-002	K292947	9.27	11.20	0.03	4		1	0.0	☐	☐	☐	☐	
H00-002	K292948	11.20	12.19	0.03	4		0	0.1	☐	☐	☐	☐	
H00-002	K292949	12.19	15.24	0.03	3		0	0.1	☐	☐	☐	☐	
H00-002	K292951	15.24	17.04	0.03	11		1	0.2	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-002	K292952	17.04	17.33	0.83	30		2	0.1	☐	☐	☐	☐	
H00-002	K292953	17.33	18.29	0.17	22		1	0.4	☐	☐	☐	☐	
H00-002	K292955	18.29	21.34	0.03	12		1	0.2	☐	☐	☐	☐	
H00-002	K292956	21.34	22.42	0.32	135		3	0.7	☐	☐	☐	☐	
H00-002	K292957	22.42	25.20	1.57	235		5	0.3	☐	☐	☐	☐	
H00-002	K292958	25.20	27.43	0.03	30		1	0.3	☐	☐	☐	☐	
H00-002	K292959	27.43	29.95	0.03	41		1	0.1	☐	☐	☐	☐	
H00-002	K292960	29.95	31.12	0.03	11		0	0.1	☐	☐	☐	☐	
H00-002	K292962	31.12	32.75	0.07	5		1	0.2	☐	☐	☐	☐	
H00-002	K292963	32.75	33.53	0.03	3		1	0.0	☐	☐	☐	☐	
H00-002	K292964	33.53	36.58	0.03	4		1	0.0	☐	☐	☐	☐	
H00-002	K292965	33.53	36.58	0.03	4		1	0.0	☐	☑	☐	☐	
H00-002	K292966	36.58	39.62	0.03	5		0	0.0	☐	☐	☐	☐	
H00-002	K292967	39.62	42.67	0.03	13		0	0.0	☐	☐	☐	☐	
H00-002	K292968	42.67	45.72	0.03	2		0	0.0	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-002	K292969	45.72	48.77	0.03	2		0	0.0	☐	☐	☐	☐	
H00-002	K292970	48.77	50.81	0.03	3		0	0.0	☐	☐	☐	☐	
H00-002	K292971	50.81	51.14	0.03	2		0	0.0	☐	☐	☐	☐	
H00-002	K292972	51.14	54.02	0.03	2		0	0.0	☐	☐	☐	☐	
H00-003	K292973	54.02	54.86	0.03	3		0	0.0	☐	☐	☐	☐	
H00-003	K292974	54.86	57.91	0.03	2		0	0.0	☐	☐	☐	☐	
H00-003	K292975	57.91	59.87	0.03	2		0	0.0	☐	☐	☐	☐	
H00-003	K292976	59.87	61.66	0.03	2		0	0.0	☐	☐	☐	☐	
H00-003	K292978	61.66	63.44	0.03	3		0	0.0	☐	☐	☐	☐	
H00-003	K292979	63.44	64.20	0.03	0		0	0.0	☐	☐	☐	☐	
H00-003	K292980	64.20	67.06	0.03	2		0	0.0	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
18.72	21.72	VN	37	40	NUL	10	Mm-scale quartz veinlets hosting rare clots of v.f.g. pyrite with limonite halos.			
								Py	0.8	IN
39.78	39.80	FA	64	90	NUL	1	Light green, calcareous, gougey and breccaited fault.			

Hartless Joe - Hartless Joe

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		516567	6753488	1553	70.1

ZONE: Unknown

SECTION:

HOLE: HAR-16-002

CLAIM:

Contractor: Beaudoin

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: -

Geology Logged By: J. Morton

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: King

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	3.7	3.7	BAS
3.7	19.5	15.8	BAS
19.5	28.45	8.95	MST
28.45	43.95	15.5	BAS
43.95	44.65	0.7	SLT
44.65	49.32	4.67	BAS
49.32	52.47	3.15	MST
52.47	70.1	17.63	BAS

SAMPLES	
Numbers:	K292901 to K292941
Total:	41
Batch:	001, 002
Certificates:	WH16154782, WH16154785

COMMENTS

Box Log

HAR-16-002

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	7.49
2	7.49	11.74
3	11.74	15.94
4	15.94	20.34
5	20.34	24.48
6	24.48	28.55
7	28.55	32.83
8	32.83	36.94
9	36.94	41.22
10	41.22	45.54
11	45.54	49.59
12	49.59	53.93
13	53.93	58.13
14	58.13	62.03
15	66.3	70.1
15	62.03	66.3

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.70	3.70	BAS	FG	Overburden; Dark green basalt; Black chlorite on fracture surfaces, no carbonate.							
						DK	GN	RB				
3.70	15.86	12.16	BAS	FG	Dark green pillow basalt/pillow basalt breccia top transitioning to un-brecciated basalt bottom; Between vesicular basalt pillows is a black mud matrix with suspended mm- to cm-scale sub-angular basalt clasts; Matrix hosts moderate v.f.g. yellow-green epidote, clots and ribbons of v.f.g. pyrite, and abundant black chlorite; Black mud in mm-diameter vesicles with rare v.f.g. pyrite; Sub-mm to mm-scale quartz-carbonate stringers increasing in abundance toward the bottom of the section, and rare diffuse patches of quartz-carbinate and very fine grained epidote; Dark black-green chlorite and lesser limonite is ubiquitous on fracture surfaces, and carbonate on fracture surfaces increases down section.							
						DK	GN	BX	CHL	4I	Py	0.3
									EPI	2I		
									OXI	1I		
									CAR	2I		
15.86	18.56	2.70	BAS	FG	Sanme general lithology as 3.70 - 15.86m; Sharp contact at top of section where 7cm of black mudstone hosting very abundant clots and ribbons of v.f.g. pyrite with carbonate-epidote is overlain by un-brecciated aphanitic dark green basalt; Greater amount of pyrite in inter-pillow mud in association with carbonate and epidote; Chlorite and lesser limonite on fracture surfaces; Sparse mm-scale carbonate stringers throughout.							
						DK	GN	BX	CHL	3I	Py	1
									CAR	3I		
									EPI	1I		
									OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
18.56	19.50	0.94	BAS	FG	Transitional dark-green flow-banded basalt, with pseudo-bedding of limey volcanic bands hosting abundant clots and ribbons of v.f.g. pyrite in the top 49cm, transitioning down-section to strongly carbonate-altered medium grey-green banded volcanic with no sulphides and abundant mm-scale bands of white carbonate; Chlorite is ubiquiotous on fracture surfaces; No epidote.							
						MD	GY	BN	CAR	3I	Py	0.8
						MD	GN		CHL	3I		
									EPI	1I		
									OXI	1I		
19.50	26.79	7.29	MST	FG	Alternating massive dark grey-black to tan to light brown, siliceous banded mudstone, with abundant mm- to cm-scale (up to 13cm wide) quartz-carbonate horizons, ribbons and stringers that are often brecciated and contain clasts of mudstone wallrock as well as evidence of soft-sediment loading structures (flames, micro-faulting); Moderate v.f.g. pyrite as clots and ribbons, strongly associated with quartz-carbonate ribbons and as interstitial clots or ribbons along selvages, decreasing in abundance down-section; Trace sphalerite and limonite; Quartz is bull white, irregular and smokey, or granular in appearance; Strong bioturbation between 22.00-27.58m gives the core a mottled appearance; A pink adularia horizon at 25.33m, as well as a significant quartz horizon are described in the secondary structure log. Sericite(?), chlorute, and carbonate on fracture surfaces, (with chlorite content decreasing down-section); Crinoid(?) fossil fragments at 23.62m (see photo).							
						LT	PU	BN	CHL	2I	Sp	0.01
						LT	BN	BD	CAR	2I		
						DK	GY	BX	SIL	2I	Py	1
									OXI	1I		
									SER	1I		
26.79	28.45	1.66	MST	FG	Medium tan to medium grey brecciated mustone, hosting deformed and elongate limey mudstone clasts in a dark green-black mud matrix; Abundant mm-scale patchy/irregular quartz and quartz-carbonate stringers cut through clasts; Chlorite and limonite on fracture surfaces; Trace v.f.g. pyrite in the dark mud matrix.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	TN		CHL	1I		
						MD	GY		OXI	1I		
28.45	32.42	3.97	BAS	FG	Same general lithology as 3.70 - 15.86m; Black and strongly pyritic inter-pillow mud decreasing in abundance at 31.15m, transitioning to plagioclase-phyric (glomerophyric) un-brecciated basalt, where plagioclase has altered to carbonate; Chlorite, sericite and limonite on fracture surfaces; V.f.g. pyrite in the mud matrix in rounded clots; Rare sub-mm quartz-carbonate hairline stringers throughout.							
						DK	GN	BX	CHL	2I	Py	1
									OXI	1I		
									CAR	2I		
									SER	1I		
32.42	39.90	7.48	BAS	FG	Moderately brecciated dark green basalt with a black mud matrix hosting epidote and carbonate, as well as v.f.g. pyrite and sphalerite; Rare un-mineralized mm-scale quartz-carbonate stringers cut the basalt and mud-matrix; Sparse chlorite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
									EPI	3I		
39.90	42.41	2.51	BAS	FG	Same general lithology as 3.70 - 15.86m; V.f.g. pyrite and sphalerite, with lesser epidote, in black inter-pillow mud matrix, decreasing in abundance down-section into un-brecciated basalt with trace disseminated v.f.g. pyrite.							
						DK	GN	BX	EPI	1I	Py	0.02
									CAR	2I		
									CHL	2I	Sp	0.01
									OXI	1I		
42.41	43.95	1.54	BAS	FG	Same general lithology as 3.70 - 15.86m; V.f.g. pyrite and sphalerite, trace chalcopyrite, in black mud matrix; Limonite and chlorite on fracture surfaces; No epidote.							
						DK	GN	BX	CHL	2I	Py	0.02
											Cp	0.01
									OXI	1I	Sp	0.01
43.95	44.65	0.70	SLT	VF	Massive medium grey siltstone(?); Rare limonitic sub-mm hairline fractures and trace v.f.g. disseminated pyrite; Limonite on fracture surfaces.							
						MD	GY	MA	OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
44.65	49.32	4.67	BAS	FG	Weakly brecciated dark green pillow basalt with black inter-pillow mud matrix, hosting v.f.g. pyrite+sphalerite and lesser chalcopyrite+epidote; Rare mm-scale ribbons of pyrite+sphalerite that cut volcanics; Chlorite, carbonate and limonite on fracture surfaces; Rare mm-scale (up to 1cm wide) quartz veinlets hosting clots of v.f.g. sphalerite, pyrite and lesser chalcopyrite.							
									EPI	1I	Py	0.02
									CHL	1I	Sp	0.01
									CAR	1I	Cp	0.01
									OXI	1I		
49.32	52.47	3.15	MST	VF	Dark green massive mudstone(?) with patchy diffuse ribbons of quartz-carbonate-epidote hosting v.f.g. sphalerite-pyrrhotite and lesser chalcopyrite-pyrite, as well as clots of v.f.g. sphalrite-pyrrhotite and sparse sub-mm stringers of carbonate+sphalerite+chalcopyrite; Very strongly magnetic; Strong bioturbation between 52 and 52.7m gives the core a mottled appearance; Black chlorite and carbonate on fracture surfaces.							
						DK	GN	MA	EPI	2I	Py	0.5
									CHL	4I	Sp	1
									CAR	2I	Po	1
											Cp	0.3
52.47	53.28	0.81	BAS	FG	Same general lithology as 3.70 - 15.86m; Sparse clots of v.f.g. sphalerite-pyrrhotite-chalcopyrite in black inter-pillow mud matrix; Basalt is strongly magnetic; Chlorite on fracture surfaces.							
						DK	GN	BX	CHL	3I	Sp	0.3
											Py	0.09
											Po	0.4
											Cp	0.09
53.28	54.35	1.07	BAS	FG	Same general lithology as 3.70 - 15.86m; Top 20cm comprises sub-angular to sub-rounded cm-diameter volcanic clasts suspended in a black mud matrix; Rare diffuse patches of quartz-carbonate without epidote; Chlorite on fracture surfaces.							
						DK	GN	BX	CHL	3I	Sp	0.05
									CAR	1I	Py	0.01
											Cp	0.05

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
											Po	0.01
54.35	60.40	6.05	BAS	FG	Same general lithology as 3.70 - 15.86m; Clots and ribbons of quartz-carbonate-epidote in black inter-pillow mud matrix; V.f.g. pyrite-pyrrhotite and lesser chalcopyrite-sphalerite as clots and ribbons in mud matrix as well as sparse disseminated v.f.g. pyrrhotite in volcanic pillows; Rare mm-scale (up to 1cm wide) quartz-carbonate stringers and angular suspended mm-scale quartz clasts; Chlorite on fracture surfaces.,							
						DK	GN	BX	CHL	2I	Py	0.03
											Sp	0.01
									EPI	2I	Po	0.1
									CAR	1I	Cp	0.01
60.40	66.05	5.65	BAS	FG	Same general lithology as 3.70 - 15.86m; Decreasing inter-pillow black mud hosting irregular blebs of quartz-carbonate-epidote with v.f.g. chalcopyrite-pyrite and lesser sphalerite-pyrrhotite as clots and ribbons; Disseminated v.f.g. pyrrhotite in the volcanic pillows; Rare diffuse patches of quartz with and without epidote; Chlorite on fracture surfaces; Low carbonate content overall; One notable 1cm-wide limonitic quartz veinlet at 65.85 (described in secondary structures log).							
						DK	GN	BX	CHL	2I	Py	0.01
											Sp	0.01
											Cp	0.05
									EPI	2I	Po	0.05
66.05	70.10	4.05	BAS	FG	Same general lithology as 3.70 - 15.86m; Top mudstone is strongly silicified with abundant patches of silica, no epidote and little sulphide; Rare sub-mm hairline stringers/fractures of limonite between 67.27 and 67.60m; Clots and ribbons of v.f.g. chalcopyrite and lesser pyrite-sphalerite-pyrrhotite, as well as rare v.f.g. pyrrhotite disseminated within the volcanic pillows; 2 notable ~1cm wide quartz veinlets at 68.74m and 69.54m, hosting clots of v.f.g. chalcopyrite-pyrrhotite-sphalerite in a relatively barren un-brecciated basalt; Chlorite on fracture surfaces; EOH.							
						DK	GN	BX	CHL	2I	Py	0.01
											Cp	0.03
									EPI	1I	Po	0.04
									SIL	2I	Sp	0.01

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	3.70	3.70	BAS	FG	Overburden; Dark green basalt; Black chlorite on fracture surfaces, no carbonate.							
						DK	GN	RB				
3.70	19.50	15.80	BAS	FG	Cycles of dark green pillow basalt, with pillowed and brecciated basalt with abundant black pyritic inter-pillow mud transitioning down-section to aphanitic un-brecciated basalt; Diffuse patches of epidote-carbonate+/-quartz within vesicular basalt pillows; Mm-scale carbonate stringers throughout; Chlorite+carbonate+limonite on fracture surfaces is ubiquitious.							
						DK	GN	BX	CHL	3I	Py	0.5
									CAR	3I		
									EPI	2I		
									OXI	1I		
19.50	28.45	8.95	MST	FG	Banded and brecciated light maroon-brown to dark grey mudstone, with numerous banded and brecciated exhalative quartz-carbonate horizons as well as quartz and quartz-carbonate stringers that cut through mudstone clasts; Siliceous, with chlorite+carbonate alteration decreasing down-section; Soft-sediment loading structures throughout, such as flames and micro-faulting; Exhalative horizons are sparsely mineralized with pyrite and minor sphalerite.							
						DK	GY	BN	SIL	2I	Py	0.5
						LT	PU	BX	CHL	1I		
						LT	BN	BD	OXI	1I		
									SER	1I		
									CAR	1I		
28.45	43.95	15.50	BAS	FG	Same general lithology as 3.70 - 15.86m; Brecciated pillow basalt with a black inter-pillow mud matrix hosting moderate pyrite and pyrrhotite, lesser chalcopyrite and sphalerite, transitioning down-cycle to un-brecciated and occasionaly plagioclase-phyric basalt. Patchy, diffuse epidote-quartz-carbonate and mm-scale carbonate stringers throughout; Chlorite on fracture surfaces is ubiquitous; Rock is moderately magnetic.							
									CAR	1I		
						DK	GN	BX	CHL	2I	Py	0.2

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									EPI	2I	Sp	0.05
									OXI	1I	Cp	0.02
43.95	44.65	0.70	SLT	VF	Massive medium grey siltstone(?); Rare limonitic sub-mm hairline fractures and trace v.f.g. disseminated pyrite; Limonite on fracture surfaces.							
									OXI	1I		
44.65	49.32	4.67	BAS	FG	Weakly brecciated dark green pillow basalt with black inter-pillow mud matrix, hosting v.f.g. pyrite+sphalerite and lesser chalcopyrite+epidote; Rare mm-scale ribbons of pyrite+sphalerite that cut volcanics; Chlorite, carbonate and limonite on fracture surfaces; Rare mm-scale (up to 1cm wide) quartz veinlets hosting clots of v.f.g. sphalerite, pyrite and lesser chalcopyrite.							
						DK	GN	BX	EPI	1I	Py	0.02
									CHL	1I	Sp	0.01
									CAR	1I	Cp	0.01
									OXI	1I		
49.32	52.47	3.15	MST	VF	Dark green massive mudstone(?) with patchy diffuse ribbons of quartz-carbonate-epidote hosting v.f.g. sphalerite-pyrrhotite and lesser chalcopyrite-pyrite, as well as clots of v.f.g. sphalrite-pyrrhotite and sparse sub-mm stringers of carbonate+sphalerite+chalcopyrite; Very strongly magnetic; Strong bioturbation between 52 and 52.7m gives the core a mottled appearance; Black chlorite and carbonate on fracture surfaces.							
						DK	GN	MA	EPI	2I	Py	0.5
									CHL	4I	Sp	1
									CAR	2I	Po	1
											Cp	0.3
52.47	70.10	17.63	BAS	FG	Same general lithology as 3.70 - 15.86m; Brecciated pillow basalt with a black inter-pillow mud matrix hosting moderate pyrite and pyrrhotite, lesser chalcopyrite and sphalerite, transitioning down-cycle to un-brecciated and occasionaly plagioclase-phyric basalt. Patchy, diffuse epidote-quartz-carbonate and mm-scale carbonate stringers throughout; Chlorite on fracture surfaces is ubiquitous; Rock is moderately magnetic.							
											Py	0.02

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN	BX	CHL	2I	Sp	0.01
									EPI	2I	Po	0.1
									CAR	1I	Cp	0.01

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From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.75	3.75	0	0	0.00	0	--	--	--	Overburden
3.75	4.57	0.82	0	0	0.00	0	--	--	--	Overburden
4.57	7.62	3.05	2.8	92	1.81	59	1R	2H	2W	
7.62	10.67	3.05	3.05	100	2.08	68	1R	2H	2W	
10.67	12.19	1.52	1.46	96	0.87	57	2R	3H	1W	
12.19	15.24	3.05	3.02	99	2.07	68	2R	3H	1W	
15.24	18.29	3.05	2.92	96	1.70	56	2R	3H	1W	
18.29	21.34	3.05	3.05	100	2.62	86	2R	3H	1W	
21.34	24.38	3.04	3.04	100	2.96	97	2R	3H	1W	
24.38	27.43	3.05	3.05	100	2.91	95	2R	3H	1W	
27.43	30.48	3.05	2.85	93	1.77	58	2R	3H	1W	
30.48	33.53	3.05	2.95	97	2.36	77	2R	3H	1W	
33.53	36.58	3.05	3.05	100	2.70	89	2R	3H	1W	
36.58	39.62	3.04	3.04	100	2.57	85	2R	3H	1W	
39.62	42.67	3.05	3.05	100	2.68	88	2R	3H	1W	
42.67	45.72	3.05	3.05	100	1.61	53	3R	3H	1W	
45.72	48.77	3.05	3.01	99	1.95	64	2R	3H	1W	
48.77	51.82	3.05	3.05	100	3.05	100	1R	3H	1W	
51.82	54.86	3.04	3.04	100	2.76	91	1R	3H	1W	
54.86	57.91	3.05	3.05	100	2.85	93	1R	3H	1W	
57.91	60.96	3.05	1.93	63	1.66	54	2R	3H	1W	
60.96	64.01	3.05	3.05	100	2.95	97	1R	3H	1W	
64.01	67.06	3.05	3.05	100	2.27	74	3R	3H	1W	
67.06	70.10	3.04	3.04	100	2.96	97	2R	3H	1W	

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Depth (m)	Magnetic Susceptibility	Rock Type	Comments
4	2.94	BAS	
5	0.072	BAS	
6	0.92	BAS	
7	0.47	BAS	
8	2.33	BAS	
9	0.6	BAS	
10	0.42	BAS	
11	0.42	BAS	
12	1.54	BAS	
13	0.53	BAS	
14	0.42	BAS	
15	4.23	BAS	
16	1.17	BAS	
17	0.35	BAS	
19	0.1	BAS	
20	2.45	MST	
21	0.33	MST	
22	0.33	MST	
23	0.97	MST	
24	2.55	MST	
25	0.25	MST	
26	1.1	MST	
27	0.58	MST	
28	0.26	MST	
29	8.13	BAS	
31	0.45	BAS	
32	1.34	BAS	
33	0.33	BAS	
34	0.47	BAS	

Depth (m)	Magnetic Susceptibility	Unit	Comments
35	0.62	BAS	
36	0.4	BAS	
37	0.26	BAS	
38	0.33	BAS	
39	0.82	BAS	
40	0.5	BAS	
41	0.35	BAS	
42	2.55	BAS	
43	0.6	BAS	
44	1.04	SLT	
45	5.22	BAS	
47	0.45	BAS	
48	14.5	BAS	
49	9.86	BAS	
50	9.13	MST	
51	13.9	MST	
52	31.8	MST	
53	24	BAS	
54	0.87	BAS	
55	2.23	BAS	
56	18.6	BAS	
57	25.7	BAS	
58	20.1	BAS	
59	0.45	BAS	
60	15.3	BAS	
61	1.1	BAS	
62	1.98	BAS	
63	23.5	BAS	
64	23.7	BAS	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
65	1.12	BAS	
66	1.93	BAS	
67	0.82	BAS	
68	10.8	BAS	
69	1.68	BAS	
70	7.74	BAS	

Depth (m)	Magnetic Susceptibility	Unit	Comments

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From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K292917	☐	H00-001			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292920	☐	H00-001		15A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292930	☐	H00-001		62Pa	☐	☐	☐
0.00	3.70	3.70	-QC-	0.67	18	K292901	☐	H00-001			☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292906	☐	H00-001			☑	☐	☐
3.70	5.12	1.42	BAS, BAS	1.36	96	K292902	☐	H00-001			☐	☐	☐
5.12	7.62	2.50	BAS	2.20	88	K292903	☐	H00-001			☐	☐	☐
7.62	10.67	3.05	BAS	3.05	100	K292904	☐	H00-001			☐	☐	☐
10.67	12.19	1.52	BAS	1.46	96	K292905	☐	H00-001			☐	☐	☐
12.19	14.00	1.81	BAS	1.80	99	K292907	☐	H00-001			☐	☐	☐
14.00	15.86	1.86	BAS	1.76	95	K292908	☐	H00-001			☐	☐	☐
15.86	18.56	2.70	BAS	2.70	100	K292909	☐	H00-001			☐	☐	☐
15.86	18.56	2.70	BAS	2.70	100	K292910	☐	H00-001			☐	☑	☐
18.56	19.50	0.94	BAS	0.90	96	K292911	☐	H00-001			☐	☐	☐
19.50	20.34	0.84	BAS, MST	0.80	95	K292912	☐	H00-001			☐	☐	☐
20.34	21.56	1.22	MST	1.22	100	K292913	☐	H00-001			☐	☐	☐
21.56	22.22	0.66	MST	0.60	91	K292914	☐	H00-001			☐	☐	☐
22.22	23.34	1.12	MST	1.10	98	K292915	☐	H00-001			☐	☐	☐
23.34	24.38	1.04	MST	1.04	100	K292916	☐	H00-001			☐	☐	☐
24.38	26.79	2.41	MST	2.34	97	K292918	☐	H00-001			☐	☐	☐
26.79	28.45	1.66	MST	1.66	100	K292919	☐	H00-001			☐	☐	☐
28.45	30.48	2.03	MST, BAS	1.84	91	K292921	☐	H00-001			☐	☐	☐
30.48	32.42	1.94	BAS	1.94	100	K292922	☐	H00-001			☐	☐	☐
32.42	33.53	1.11	BAS	1.11	100	K292923	☐	H00-001			☐	☐	☐
33.53	36.58	3.05	BAS	3.05	100	K292924	☐	H00-001			☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
33.53	36.58	3.05	BAS	3.05	100	K292925	☐	H00-001			☐	☐	☑
36.58	37.98	1.40	BAS	1.39	99	K292926	☐	H00-001			☐	☐	☐
37.98	39.90	1.92	BAS	1.92	100	K292927	☐	H00-001			☐	☐	☐
39.90	42.41	2.51	BAS	2.47	98	K292928	☐	H00-001			☐	☐	☐
42.41	43.95	1.54	BAS	1.54	100	K292929	☐	H00-001			☐	☐	☐
43.95	44.65	0.70	BAS, SLT	0.70	100	K292931	☐	H00-001			☐	☐	☐
44.65	45.72	1.07	SLT, BAS	1.06	99	K292932	☐	H00-001			☐	☐	☐
45.72	48.77	3.05	BAS	3.01	99	K292933	☐	H00-001			☐	☐	☐
48.77	51.82	3.05	BAS	3.05	100	K292934	☐	H00-001			☐	☐	☐
51.82	54.86	3.04	MST	3.04	100	K292935	☐	H00-001			☐	☐	☐
54.86	57.91	3.05	BAS	3.05	100	K292936	☐	H00-001			☐	☐	☐
57.91	60.96	3.05	BAS	3.05	100	K292937	☐	H00-002			☐	☐	☐
60.96	64.01	3.05	BAS	3.05	100	K292938	☐	H00-002			☐	☐	☐
60.96	64.01	3.05	BAS	3.05	100	K292939	☐	H00-002			☐	☑	☐
64.01	67.06	3.05	BAS	3.05	100	K292940	☐	H00-002			☐	☐	☐
67.06	70.10	3.04	BAS	3.04	100	K292941	☐	H00-002			☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-001	K292901	0.00	3.70	0.03	4		0	0.1	☐	☐	☐	☐	
H00-001	K292906	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-001	K292917	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-001	K292920	0.00	0.00	14.85	496		45	4.6	☐	☐	☐	☑ 15A	
H00-001	K292930	0.00	0.00	9.72	18		2	1.6	☐	☐	☐	☑ 62Pa	
H00-001	K292902	3.70	5.12	0.03	3		0	0.0	☐	☐	☐	☐	
H00-001	K292903	5.12	7.62	0.03	2		0	0.0	☐	☐	☐	☐	
H00-001	K292904	7.62	10.67	0.03	2		0	0.0	☐	☐	☐	☐	
H00-001	K292905	10.67	12.19	0.03	1		0	0.0	☐	☐	☐	☐	
H00-001	K292907	12.19	14.00	0.03	2		0	0.0	☐	☐	☐	☐	
H00-001	K292908	14.00	15.86	0.03	2		0	0.0	☐	☐	☐	☐	
H00-001	K292909	15.86	18.56	0.03	5		0	0.1	☐	☐	☐	☐	
H00-001	K292910	15.86	18.56	0.03	5		0	0.1	☑	☐	☐	☐	
H00-001	K292911	18.56	19.50	0.03	36		1	0.2	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-001	K292912	19.50	20.34	0.43	89		4	0.9	☐	☐	☐	☐	
H00-001	K292913	20.34	21.56	0.03	27		3	0.4	☐	☐	☐	☐	
H00-001	K292914	21.56	22.22	0.73	192		4	0.5	☐	☐	☐	☐	
H00-001	K292915	22.22	23.34	0.13	38		2	0.6	☐	☐	☐	☐	
H00-001	K292916	23.34	24.38	0.03	13		1	0.5	☐	☐	☐	☐	
H00-001	K292918	24.38	26.79	0.06	168		2	0.5	☐	☐	☐	☐	
H00-001	K292919	26.79	28.45	0.03	921		13	0.3	☐	☐	☐	☐	
H00-001	K292921	28.45	30.48	0.03	18		1	0.1	☐	☐	☐	☐	
H00-001	K292922	30.48	32.42	0.03	9		0	0.1	☐	☐	☐	☐	
H00-001	K292923	32.42	33.53	0.03	7		0	0.1	☐	☐	☐	☐	
H00-001	K292924	33.53	36.58	0.03	5		0	0.0	☐	☐	☐	☐	
H00-001	K292925	33.53	36.58	0.03	5		0	0.0	☐	☑	☐	☐	
H00-001	K292926	36.58	37.98	0.03	5		0	0.0	☐	☐	☐	☐	
H00-001	K292927	37.98	39.90	0.03	4		0	0.0	☐	☐	☐	☐	
H00-001	K292928	39.90	42.41	0.03	4		0	0.0	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-001	K292929	42.41	43.95	0.03	32		0	0.0	☐	☐	☐	☐	
H00-001	K292931	43.95	44.65	0.03	8		0	0.2	☐	☐	☐	☐	
H00-001	K292932	44.65	45.72	0.03	6		0	0.1	☐	☐	☐	☐	
H00-001	K292933	45.72	48.77	0.03	8		0	0.0	☐	☐	☐	☐	
H00-001	K292934	48.77	51.82	0.03	3		0	0.0	☐	☐	☐	☐	
H00-001	K292935	51.82	54.86	0.03	4		0	0.0	☐	☐	☐	☐	
H00-001	K292936	54.86	57.91	0.03	3		0	0.0	☐	☐	☐	☐	
H00-002	K292937	57.91	60.96	0.03	4		0	0.0	☐	☐	☐	☐	
H00-002	K292938	60.96	64.01	0.03	4		0	0.0	☐	☐	☐	☐	
H00-002	K292939	60.96	64.01	0.03	4		0	0.0	☑	☐	☐	☐	
H00-002	K292940	64.01	67.06	0.03	5		0	0.0	☐	☐	☐	☐	
H00-002	K292941	67.06	70.10	0.03	2		0	0.0	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
19.50	19.73	VN	37	50	NUL	1	Banded orange and pale green, massive, granular and colliform quartz horizons in succession, with v.f.g. pyrite along selvages, and tan to brown rip-up clasts suspended in quartz; Soft-sediment loading structures (micro-faulting); Orange to chocloate-brown limonite on fracture surfaces.			
								Py	0.1	BN
21.72	21.87	VN	37	100	NUL	1	Same horizon type as 19.50 - 19.73m; Surrounded by diffuse/patchy zone of white to forest green silica hosting v.f.g. pyrite.			
								Py	0.5	BL
22.92	23.23	VN	37	90	NUL	2	Two 6cm wide brecciated quartz-carbonate horizons, containing abundant sub-angular rip-up clasts of the surrounding mudstone wallrock, and suspended clots of forest-green chlorite; Quartz is diffuse and colliform; Very low sulphide content (in the form of clots of v.f.g. pyrite).			
25.66	25.68	VN	37	90	NUL	1	Horizon of pink vuggy adularia with fractured/fragmented boundaries in brecciated mudstone wall rock; No sulphides.			

Hartless Joe - Hartless Joe

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		516567	6753488	1553	56.39

ZONE: Unknown

SECTION:

HOLE: HAR-16-003

CLAIM:

Contractor: Beaudoin

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: -

Geology Logged By: J. Morton

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: King

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	2.79	2.79	BAS
2.79	15.28	12.49	BAS
15.28	19.42	4.14	MST
19.42	27.2	7.78	BAS
27.2	36.04	8.84	MST
36.04	40.41	4.37	BAS
40.41	40.76	0.35	AND
40.76	56.06	15.3	BAS
56.06	56.39	0.33	AND

SAMPLES	
Numbers:	K292982 to K293014
Total:	33
Batch:	003, 004
Certificates:	WH16154788, WH16156778

COMMENTS

Box Log

HAR-16-003

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	4.98
2	4.98	9.14
3	9.14	12.89
4	12.89	17.28
5	17.28	21.58
6	21.58	26.05
7	26.05	30.21
8	30.21	34.36
9	34.36	38.39
10	38.39	42.61
11	42.61	46.89
12	46.89	50.82
13	50.82	55.29
14	55.29	56.39

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.79	2.79	BAS	FG	Overburden. Dark green volcanic.							
						DK	GN	RB				
2.79	12.22	9.43	BAS	FG	Dark green pillow basalt/pillow basalt breccia; Between pillows is a black mud matrix with suspended mm- to cm-scale angular to sub-angular basalt clasts; Abundant quartz-carbonate-epidote in mud matrix, with rare round clots of v.f.g. pyrite; Rare diffuse patches of epidote and carbonate within basalt pillows, which are sometimes vesicular, with vesicles filled with black mud and rare v.f.g. pyrite; Mm- to sub-mm sized fossil (bivalve?) clasts in a mud matrix; Sparse mm- to sub-mm stringers of quartz-carbonate-epidote; Limonite and chlorite on fracture surfaces.							
						DK	GN	BX	CHL	4I	Py	0.1
									OXI	1I		
									EPI	2I		
12.22	15.28	3.06	BAS	FG	Same general lithology as 2.79 - 12.22m, with large cm-scale rounded basalt clasts with diffuse boundaries, hosted in a limey black mud matrix, along with trace round clots of v.f.g. pyrite, very rare patches of epidote-carbonate, and rare fossil (bivalve?) fragments; Chlorite and carbonate on fracture surfaces.							
						DK	GN	BX	CHL	4I	Py	0.03
									CAR	2I		
15.28	16.15	0.87	MST	VF	Dark black, bioturbated mudstone, with moderate mm- to sub-mm scale discontinuous carbonate ribbons and stringers, as well as moderate clots and disseminations of v.f.g. pyrite; Chlorite and carbonate on fracture surfaces.							
						DK	BK	SD	CHL	4I	Py	1
									CAR	2I		
16.15	17.93	1.78	MST	VF	Dark grey to maroon, calcareous mudstone hosting sparse mm-scale, (up to 0.5cm wide), quartz-carbonate veinlets and gashes, and abundant sub-mm hairline stringers of carbonate that host trace v.f.g. pyrite; Chlorite and carbonate on fracture surfaces.							
						LT	PU		CAR	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GY		CHL	4I		
17.93	19.42	1.49	MST	VF	Dark grey to maroon, calcareous and brecciated mudstone, with cm-scale subrounded mudstone clasts (up to 4cm in diameter) suspended in a black, bioturbated mud matrix; Matrix hosts abundant ribbons and round clots of v.f.g. pyrite, as well as patches of diffuse silica with rare v.f.g. pyrite; Two exhalative horizons of white to pale green, quartz-carbonate, and minor pink adularia that are 11cm and 10cm wide at 17.93m and 18.43m, respectivley; These horizons are massive, granular, and colloform, and host sparse clots and ribbons of v.f.g. pyrite, sparse clots of v.f.g. chlorite, and rare clots of v.f.g. pyrrhotite and hematite; The horizons have an orientation of ~70 degrees to core axis; Trace limonite and tan sericite on fracture surfaces within the horizons; Smaller mm-scale quartz-carbonate veinlets/ribbons throughout interval, (with an orientation described in the secondary structures log); Chlorite and carbonate on fracture surfaces.							
						LT	PU	SD	CAR	3I		
						DK	GY	BX	CHL	2I	Py	2
									SIL	1I		
19.42	23.63	4.21	BAS	FG	Medium grey to dark green, limey pillow basalt/pillow basalt breccia, with a black bioturbated mud matrix hosting sub-rounded basalt clasts, sparse patches of quartz-carbonate with minor epidote, and moderate clots and disseminations of v.f.g. pyrite associated with quartz-carbonate-epidote; Rare clots, ribbons and disseminations of v.f.g. pyrite within basalt pillows; Abundant mm-scale discontinuous quartz-carbonate veinlets; Rock is moderately magnetic, but with no apparent pyrrhotite; Chlorite and carbonate on fracture surfaces.							
						MD	GY	BX	CHL	2I	Py	0.03
						DK	GN		CAR	3I	Po	0.3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
23.63	27.20	3.57	BAS	FG	Same lithology as 2.79 - 12.22m; Top 88cm of interval consists of black mudstone with brecciated cm-scale sub-rounded clasts of limey basalt with diffuse borders; Abundant v.f.g. pyrite and pyrrhotite within the mud matrix, as well as mm-scale fossil bivalve(?) fragments, and rare patches of quartz-carbonate-epidote; Vesicles within the basalt pillows are filled with black mud and rare v.f.g. pyrite; Abundant mm-scale, un-mineralized, quartz-carbonate veinlets crosscut basalt, mud and clasts, increasing in abundance down section, (and described in more detail in the secondary structures log); Moderately magnetic but without apparent pyrrhotite; Chlorite and carbonate on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	1
									CAR	3I	Po	1
27.20	30.12	2.92	MST	VF	Dark black, brecciated and limey mudstone, transitioning down-section to brecciated maroon mudstone with sub-rounded to angular polymictic clasts; Sparse ribbons and clots of v.f.g. pyrite throughout; Moderate mm-scale colloform quartz-carbonate veinlets and gashes hosting trace pyrite and galena throughout; Patchy and diffuse smokey quartz toward the bottom of the interval hosting abundant v.f.g. pyrite; Chlorite, carbonate and limonite on fracture surfaces.							
						MD	GY		CAR	2I		
						LT	PU					
						DK	BK	BX	SIL	1I	Py	0.1

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
30.12	31.73	1.61	MST	VF	Same general lithology as 16.15 - 17.93m; Limey marroon mudstone hosting multiple banded white to pale grey quartz-carbonate horizons, up to 2cm wide, with limonite and sulphide mineralization; 2 significant horizons are 25cm and 18cm wide, at 30.12m and 30.76m, respectively, and host sparse ribbons and clots of v.f.g. pyrite and sphalerite, trace galena; Sparse clots of chlorite within the horizons, as well as suspended angular clasts of mudstone; The two significant horizons are oriented 40 degrees TCA; Live limonite and limonite gouge on fracture surfaces; Discontinuous ribbons of quartz-carbonate throughout, at a variety of orientation, and with soft-sediment loading structures (flames, micro-faulting); Round clots of v.f.g. pyrite throughout interval.							
						MD	GY	BX	SIL	1I	Py	0.8
						LT	PU	SD	CAR	2I	Sp	0.4
											Gn	0.1
31.73	33.04	1.31	MST	VF	Same general lithology as 16.15 - 17.93m; Limey maroon mudstone with mm- to cm-scale, (up to 5cm wide), ribbons and banded horizons of quartz-carbonate with soft-sediment loading structures, hosting sparse rounded clots of v.f.g. pyrite; Limonite on fracture surfaces.							
						LT	PU	SD	CAR	2I		
						DK	GY	BX	SIL	1I	Py	0.1
33.04	36.04	3.00	MST	VF	Dark grey to black, bioturbated mudstone with sparse mm-scale discontinuous carbonate stringers, rare diffuse patches of quartz-carbonate+/-epidote, rare round clots and ribbons of v.f.g. pyrite, and trace v.f.g. pyrrhotite throughout; Bottom contact is diffuse and gradational with basalt; Interval is non-magnetic; Chlorite and carbonate on fracture surfaces.							
						DK	GY	SD	CHL	2I	Py	0.01
						DK	BK		CAR	2I		
36.04	40.41	4.37	BAS	FG	Same general lithology as 2.79-12.22m; Black inter-pillow mud with abundant quartz-carbonate-epidote and round clots of v.f.g. pyrite; Rare mm-scale, discontinuous, smokey quartz veinlets; Rare diffuse patches of carbonate-epidote throughout; Chlorite, carbonate and limonite on fracture surfaces.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN	BX	CHL	2I	Py	0.02
									CAR	1I		
									EPI	2I		
									OXI	1I		
40.41	40.76	0.35	AND	FG	Medium grey, plagioclase-(glomero)phyric andesite(?) porphyry; Sharp contacts at the top and bottom of interval; Sub-mm hairline stringers of carbonate throughout; Un-mineralized; Trace limonite on fracture surfaces.							
						MD	GY					
40.76	52.43	11.67	BAS	FG	Same general lithology as 2.79 - 12.22m; Alternating between brecciated pillow basalt and medium grained epidote-altered basalt; Abundant epidote in inter-pillow matrix with sparse round clots and ribbons of v.f.g. pyrite; Trace disseminated pyrite throughout entire interval; Rare mm-scale, (up to 1cm wide), discontinuous smokey quartz veinlets hosting v.f.g. pyrite; Fossil bivalve(?) fragments in the black inter-pillow mud; Notable lack of pyrrhotite-sphalerite, and core is non-magnetic; Chlorite, carbonate, and minor limonite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	0.02
									EPI	3I		
									CAR	1I		
52.43	56.06	3.63	BAS	FG	Strongly brecciated pillow basalt with cm-scale, (up to 4cm in diameter), rounded basalt clasts hosted in a black mud matrix with trace epidote; Rare diffuse patches of smokey quartz within the mud matrix; Moderate ribbons and rounded clots of v.f.g. pyrite within the mud matrix; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	0.3
									CAR	1I		
									EPI	1I		
									OXI	1I		
56.06	56.39	0.33	AND	FG	Same lithology as 40.41 - 40.76m; Weakly silicified/bleached in appearance; Trace limonite on fracture surfaces.							
						MD	GY		SIL	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	2.79	2.79	BAS	FG	Overburden. Dark green volcanic.							
						DK	GN	RB				
2.79	15.28	12.49	BAS	FG	Dark green pillow basalt/pillow basalt breccia; Between pillows is a black mud matrix with suspended mm- to cm-scale angular clasts and rounded basalt clasts with diffuse borders; Quartz-carbonate-epidote in mud matrix, with rare round clots of v.f.g. pyrite; Rare diffuse patches of epidote and carbonate within basalt pillows, which are sometimes vesicular, with vesicles filled with black mud and rare v.f.g. pyrite; Mm- to sub-mm sized fossil (bivalve?) clasts in a mud matrix.							
						DK	GN	BX	CHL	4I	Py	0.05
									CAR	1I		
									EPI	2I		
									OXI	1I		
15.28	19.42	4.14	MST	VF	Black bioturbated pyritic mudstone and dark grey to maroon, calcareous and brecciated mudstone; Matrix hosts abundant ribbons and round clots of v.f.g. pyrite, as well as patches of diffuse silica with rare v.f.g. pyrite; Two exhalative horizons of white to pale green, quartz-carbonate, and minor pink adularia that are 11cm and 10cm wide at 17.93m and 18.43m, respectivley; These horizons are massive, granular, and colloform, and host sparse clots and ribbons of v.f.g. pyrite, sparse clots of v.f.g. chlorite, and rare clots of v.f.g. pyrrhotite and hematite.							
						DK	BK	SD	CHL	3I	Py	1
						MD	GY	BX	CAR	3I		
						LT	PU		SIL	1I		
19.42	27.20	7.78	BAS	FG	Same general lithology as 2.79 - 15.28m; Large intervals of black pyritic mudstone with brecciated cm-scale sub-rounded clasts of limey basalt with diffuse borders; Abundant v.f.g. pyrite and pyrrhotite within the mud matrix, often associated with patches of quartz-carbonate-epidote, as well as mm-scale fossil bivalve(?) fragments, and rare patches of quartz-carbonate-epidote; Moderately magnetic but without apparent pyrrhotite.							

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						MD	GY	BX	CHL	2I	Py	0.5
						DK	GN		CAR	3I	Po	0.5
27.20	36.04	8.84	MST	VF	Dark grey to black, brecciated and bioturbated mudstone at the top and bottom of the interval, with gradational transitions to limey maroon mudstone of the same general lithology as 15.28 - 19.42m; Limey marroon mudstone hosting multiple banded white to pale grey quartz-carbonate horizons, up to 2cm wide, with limonite and sulphide mineralization; 2 significant horizons are 25cm and 18cm wide, at 30.12m and 30.76m, respectively, and host sparse ribbons and clots of v.f.g. pyrite and sphalerite, trace galena; Discontinuous ribbons and gashes of quartz-carbonate throughout, at a variety of orientation, and with soft-sediment loading structures (flames, micro-faulting); Round clots of v.f.g. pyrite throughout interval.							
						LT	PU				Gn	0.01
						MD	GY	SD	CAR	2I	Sp	0.1
											Po	0.01
						DK	BK	BX	SIL	1I	Py	0.8
36.04	40.41	4.37	BAS	FG	Same general lithology as 2.79-12.22m; Black inter-pillow mud with abundant quartz-carbonate-epidote and round clots of v.f.g. pyrite; Rare mm-scale, discontinuous, smokey quartz veinlets; Rare diffuse patches of carbonate-epidote throughout; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GN	BX	CHL	2I	Py	0.02
									CAR	1I		
									EPI	2I		
									OXI	1I		
40.41	40.76	0.35	AND	FG	Medium grey, plagioclase-(glomero)phyric andesite(?) porphyry; Sharp contacts at the top and bottom of interval; Sub-mm hairline stringers of carbonate throughout; Un-mineralized; Trace limonite on fracture surfaces.							
						MD	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
40.76	56.06	15.30	BAS	FG	Same general lithology as 2.79 - 15.28m; Alternating between (strongly) brecciated pillow basalt and medium grained epidote-altered basalt; Abundant epidote in inter-pillow matrix with sparse round clots and ribbons of v.f.g. pyrite; Rare mm-scale, (up to 1cm wide), discontinuous smokey quartz veinlets hosting v.f.g. pyrite, as well as diffuse patches of smokey quartz within the mud matrix; Fossil bivalve(?) fragments in the black inter-pillow mud; Notable lack of pyrrhotite-sphalerite.							
						DK	GN	BX	CHL	2I	Py	0.1
									EPI	2I		
									CAR	1I		
56.06	56.39	0.33	AND	FG	Same lithology as 40.41 - 40.76m; Weakly silicified/bleached in appearance; Trace limonite on fracture surfaces.							
						MD	GY		SIL	2I		

HAR-16-003

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	2.79	2.79	0.66	24	0.00	0	--	--	--	Overburden.
2.79	3.36	0.57	0.57	100	0.31	54	2R	3H	2W	
3.36	4.57	1.21	1.21	100	0.93	77	3R	3H	2W	
4.57	6.10	1.53	1.53	100	1.12	73	1R	3H	2W	
6.10	7.62	1.52	1.46	96	1.20	79	2R	3H	1W	
7.62	9.14	1.52	1.51	99	1.30	86	1R	3H	1W	
9.14	12.19	3.05	3.01	99	2.25	74	2R	3H	1W	
12.19	15.24	3.05	3.05	100	2.43	80	3R	3H	1W	
15.24	18.29	3.05	3.05	100	2.34	77	3R	3H	1W	
18.29	21.34	3.05	3	98	3.00	98	3R	3H	1W	
21.34	24.38	3.04	3.04	100	3.04	100	4R	3H	1W	
24.38	27.43	3.05	2.92	96	2.85	93	4R	3H	1W	
27.43	30.48	3.05	3.02	99	2.61	86	3R	3H	1W	
30.48	33.53	3.05	3.05	100	2.79	91	3R	3H	1W	
33.53	36.58	3.05	3.05	100	2.60	85	3R	3H	1W	
36.58	39.62	3.04	3.04	100	2.29	75	2R	3H	1W	
39.62	42.67	3.05	3.01	99	2.49	82	2R	3H	1W	
42.67	45.72	3.05	2.93	96	2.63	86	3R	3H	1W	
45.72	48.77	3.05	3.05	100	1.97	65	1R	3H	1W	
48.77	51.82	3.05	3.05	100	2.46	81	3R	3H	1W	
51.82	53.34	1.52	1.22	80	0.45	30	1R	3H	1W	
53.34	56.39	3.05	2.86	94	1.67	55	1R	3H	1W	

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Magnetic Suscepatibility

HAR-16-003

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
3	1.52	BAS	
4	0.26	BAS	
5	1.17	BAS	
6	1.47	BAS	
7	0.5	BAS	
8	1.47	BAS	
9	0.5	BAS	
10	0.68	BAS	
11	20.6	BAS	
12	4.28	BAS	
13	0.33	BAS	
14	0.8	BAS	
15	0.77	BAS	
16	0.55	MST	
17	1.57	MST	
18	0.52	MST	
19	0.4	MST	
20	0.53	BAS	
21	3.83	BAS	
22	14.2	BAS	
23	22.4	BAS	
24	17.3	BAS	
25	10.7	BAS	
26	5.2	BAS	
27	1	BAS	
28	0.31	MST	
29	0.26	MST	
30	0.58	MST	
31	1.07	MST	

Depth (m)	Magnetic Susceptibility	Unit	Comments
32	2.43	MST	
33	4.38	MST	
34	5.54	MST	
35	23	MST	
35	1.31	MST	
36	1.31	MST	
37	1.84	BAS	
38	1.04	BAS	
39	3.36	BAS	
40	1.15	BAS	
41	2.8	BAS	
42	0.95	BAS	
43	7.74	BAS	
44	1.14	BAS	
45	0.8	BAS	
46	3.05	BAS	
47	2.62	BAS	
48	0.9	BAS	
49	0.97	BAS	
50	1.15	BAS	
51	1.04	BAS	
52	0.65	BAS	
53	6.08	BAS	
54	1.41	BAS	
56	0.11	BAS	

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Sample Log

HAR-16-003

Hartless Joe

Unknown Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K292992	☐	H00-004			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292996	☐	H00-004		15A	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293008	☐	H00-003			☑	☐	☐
0.00	2.79	2.79	-QC-	0.66	24	K292982	☐	H00-003			☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K292986	☐	H00-003		15A	☐	☐	☐
2.79	4.57	1.78	BAS, BAS	1.78	100	K292983	☐	H00-003			☐	☐	☐
4.57	7.62	3.05	BAS	3.05	100	K292984	☐	H00-003			☐	☐	☐
7.62	9.14	1.52	BAS	1.51	99	K292985	☐	H00-003			☐	☐	☐
9.14	12.19	3.05	BAS	3.01	99	K292987	☐	H00-003			☐	☐	☐
12.19	15.28	3.09	BAS	3.09	100	K292988	☐	H00-003			☐	☐	☐
15.28	17.93	2.65	BAS, MST	2.65	100	K292989	☐	H00-004			☐	☐	☐
17.93	19.42	1.49	MST	1.40	94	K292990	☐	H00-004			☐	☐	☐
19.42	21.34	1.92	MST, BAS	1.92	100	K292991	☐	H00-004			☐	☐	☐
21.34	23.63	2.29	BAS	2.28	100	K292993	☐	H00-004			☐	☐	☐
23.63	26.05	2.42	BAS	2.31	95	K292994	☐	H00-004			☐	☐	☐
26.05	27.20	1.15	BAS	1.14	99	K292995	☐	H00-004			☐	☐	☐
27.20	30.12	2.92	BAS, MST	2.83	97	K292997	☐	H00-004			☐	☐	☐
30.12	31.73	1.61	MST	1.61	100	K292998	☐	H00-004			☐	☐	☐
31.73	33.04	1.31	MST	1.30	99	K292999	☐	H00-004			☐	☐	☐
33.04	36.04	3.00	MST	2.95	98	K293000	☐	H00-004			☐	☐	☐
33.04	36.04	3.00	MST	2.95	98	K293001	☐	H00-004			☐	☐	☑
36.04	38.39	2.35	MST, BAS	2.35	100	K293002	☐	H00-004			☐	☐	☐
38.39	40.41	2.02	BAS	2.02	100	K293003	☐	H00-003			☐	☐	☐
38.39	40.41	2.02	BAS	2.02	100	K293004	☐	H00-003			☐	☐	☑

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
40.41	40.76	0.35	BAS, AND	0.35	100	K293005	☐	H00-003			☐	☐	☐
40.76	42.67	1.91	AND, BAS	1.85	97	K293006	☐	H00-003			☐	☐	☐
42.67	45.72	3.05	BAS	2.93	96	K293007	☐	H00-003			☐	☐	☐
45.72	48.77	3.05	BAS	3.05	100	K293009	☐	H00-003			☐	☐	☐
45.72	48.77	3.05	BAS	3.05	100	K293010	☐	H00-003			☐	☑	☐
48.77	50.82	2.05	BAS	2.05	100	K293011	☐	H00-003			☐	☐	☐
50.82	52.43	1.61	BAS	1.35	84	K293012	☐	H00-003			☐	☐	☐
52.43	53.34	0.91	BAS	0.91	100	K293013	☐	H00-003			☐	☐	☐
53.34	56.39	3.05	BAS	2.86	94	K293014	☐	H00-003			☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-003	K292982	0.00	2.79	0.03	2		0	0.1	☐	☐	☐	☐	
H00-003	K292986	0.00	0.00	14.50	431		43	4.5	☐	☐	☐	☑ 15A	
H00-004	K292992	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-004	K292996	0.00	0.00	15.15	468		46	4.5	☐	☐	☐	☑ 15A	
H00-003	K293008	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-003	K292983	2.79	4.57	0.03	3		0	0.0	☐	☐	☐	☐	
H00-003	K292984	4.57	7.62	0.03	4		0	0.0	☐	☐	☐	☐	
H00-003	K292985	7.62	9.14	0.03	4		0	0.0	☐	☐	☐	☐	
H00-003	K292987	9.14	12.19	0.03	3		1	0.1	☐	☐	☐	☐	
H00-003	K292988	12.19	15.28	0.03	4		1	0.0	☐	☐	☐	☐	
H00-004	K292989	15.28	17.93	0.03	14		1	0.1	☐	☐	☐	☐	
H00-004	K292990	17.93	19.42	0.14	54		2	0.4	☐	☐	☐	☐	
H00-004	K292991	19.42	21.34	0.03	8		1	0.1	☐	☐	☐	☐	
H00-004	K292993	21.34	23.63	0.03	4		1	0.1	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-004	K292994	23.63	26.05	0.03	2		1	0.0	☐	☐	☐	☐	
H00-004	K292995	26.05	27.20	0.03	2		1	0.1	☐	☐	☐	☐	
H00-004	K292997	27.20	30.12	0.03	17		1	0.5	☐	☐	☐	☐	
H00-004	K292998	30.12	31.73	0.97	132		3	0.6	☐	☐	☐	☐	
H00-004	K292999	31.73	33.04	0.03	36		1	0.6	☐	☐	☐	☐	
H00-004	K293000	33.04	36.04	0.03	9		0	0.1	☐	☐	☐	☐	
H00-004	K293001	33.04	36.04	0.03	9		0	0.1	☐	☑	☐	☐	
H00-004	K293002	36.04	38.39	0.03	11		0	0.0	☐	☐	☐	☐	
H00-003	K293003	38.39	40.41	0.03	10		0	0.0	☐	☐	☐	☐	
H00-003	K293004	38.39	40.41	0.03	11		0	0.0	☐	☑	☐	☐	
H00-003	K293005	40.41	40.76	0.03	3		0	0.0	☐	☐	☐	☐	
H00-003	K293006	40.76	42.67	0.03	7		0	0.0	☐	☐	☐	☐	
H00-003	K293007	42.67	45.72	0.03	8		0	0.0	☐	☐	☐	☐	
H00-003	K293009	45.72	48.77	0.03	7		0	0.0	☐	☐	☐	☐	
H00-003	K293010	45.72	48.77	0.03	7		0	0.0	☑	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-003	K293011	48.77	50.82	0.03	11		0	0.0	☐	☐	☐	☐	
H00-003	K293012	50.82	52.43	0.03	8		0	0.0	☐	☐	☐	☐	
H00-003	K293013	52.43	53.34	0.03	31		1	0.0	☐	☐	☐	☐	
H00-003	K293014	53.34	56.39	0.03	10		0	0.0	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
17.93	19.42	VN	37	25	NUL	6	Mm-scale quartz-carbonate veinlets.			
26.05	29.07	VN	37	40	NUL	29	Mm-scale quartz-carbonate veinlets.			

Hartless Joe - Hartless Joe

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		516567	6753488	1553	48.77

ZONE: Unknown

SECTION:

HOLE: HAR-16-004

CLAIM:

Contractor: Beaudoin

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: -

Geology Logged By: J. Morton

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: King

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.3	1.3	BAS
1.3	11.94	10.64	BAS
11.94	12.15	0.21	AND
12.15	25.79	13.64	BAS
25.79	28.36	2.57	MST
28.36	34.63	6.27	BAS
34.63	35.69	1.06	MST
35.69	48.77	13.08	BAS

SAMPLES	
Numbers:	K293015 to K293036
Total:	22
Batch:	003, 004, 005
Certificates:	WH16154788, WH16156778, WH16156779

COMMENTS

Box Log

HAR-16-004

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	4.24
2	4.24	8.39
3	8.39	12.35
4	12.35	16.46
5	16.46	20.48
6	20.48	24.38
7	24.38	28.53
8	28.53	32.72
9	32.72	36.95
10	36.95	41.08
11	41.08	45.38
12	45.38	48.77

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
1.30	11.94	10.64	BAS	FG	Dark green pillow basalt/pillow basalt breccia, with ark black inter-pillow mud hosting abundant epidote-quartz-carbonate and rare round clots of v.f.g. pyrite, lesser pyrrhotite; Sparse diffuse patches of epidote; Black mud contains (trace?) fossil fragments; Angular to sub-rounded mm-scale clasts of basalt suspended in black mud matrix; Very rare sub-mm hairline stringers of carbonate; Vesicles in basalt filled with black mud and trace v.f.g. pyrite; Chlorite + limonite on fracture surfaces, lesser carbonate.							
						DK	GN	BX	CHL	2I	Py	0.02
									CAR	1I	Po	0.02
									EPI	2I		
									OXI	2I		
11.94	12.15	0.21	AND	FG	Dark grey, feldspar-(glomero)phyric andesite(?); Sharp contacts with surrounding basalt wallrock; Sparse sub-mm hairline stringers of carbonate; No sx.							
						DK	GY					
12.15	15.74	3.59	BAS	FG	Same lithology as 1.30 - 11.94m; Abundant quartz-carbonate-epidote in inter-pillow mud matrix and as diffuse patches in basalt; Rare sub-mm hairline stringers of carbonate; Chlorite, carbonate and minor limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
									CAR	1I		
									EPI	2I		
									OXI	1I		
15.74	16.63	0.89	BAS	FG	Dark green un-brecciated basalt with rare mm- to sub-mm hairline stringers of carbonate with epidote and trace v.f.g. pyrite; Chlorite and carbonate on fracture surfaces.							
						DK	GN		CHL	1I		
									CAR	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
16.63	21.22	4.59	BAS	FG	Same lithology as 1.30 - 11.94m; Trace v.f.g. pyrrhotite (and sphalerite?) as disseminations and in sub-mm hairline stringers of carbonate; Abundant epidote-quartz-carbonate in interpillow matrix and as diffuse patches in basalt; Chlorite, carbonate and limonite on fracture surfaces.							
						DK	GN	BX	EPI	2I		
									CAR	1I		
									CHL	1I		
21.22	25.79	4.57	BAS	FG	Moderatley carbonate (and epidote?) altered, medium green, feldspar-(glomero)phyric basalt, with feldspar altering to carbonate; Trace sub-mm hairline stringers of carbonate throughout; Trace limonite, black dendritic manganese and carbonate on fracture surfaces.							
						MD	GN		CAR	2I		
									EPI	1I		
25.79	28.36	2.57	MST	VF	Dark black, quartz-flooded, brecciated mudstone, with sub-angular mm- to cm-scale, (up to 2cm in diameter), mudstone clasts, suspended in a mud matrix, and abundant diffuse patches and ribbons of quartz hosting abundant clots of v.f.g. chalcopyrite and pyrite; Sharp top and bottom contacts with the surrounding basalt, with contacts oriented ~70 degrees TCA; Limonite on fracture surfaces; Rare sub-mm hairline stringers of limonite.							
						DK	BK	BX	SIL	1I	Cp	1
									OXI	1I	Py	1
28.36	34.63	6.27	BAS	FG	Same lithology as 21.22 - 25.79m; Trace sub-mm hairline stringers of carbonate; Minor limonite on fracture surfaces; Trace clots of v.f.g. pyrite.							
						MD	GN		CAR	2I		
									OXI	1I		
									EPI	1I		
34.63	35.69	1.06	MST	VF	Dark grey, limey, un-brecciated mudstone(?), hosting sparse mm-scale veinlets of quartz-carbonate and pink adularia(?); Trace v.f.g. pyrite disseminated throughout; Trace limonite on fracture surfaces.							
						DK	GY					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
35.69	48.77	13.08	BAS	FG	Same lithology as 21.22 - 25.79m; Rare mm- to sub-mm scale carbonate veinlets and sub-mm hairline stringers of limonite and epidote; Epidote, carbonate and minor limonite on fracture surfaces; Trace disseminated v.f.g. pyrite throughout; Sharp contact with overlying mudstone, with an orientation of ~45 degrees TCA.							
						MD	GN					

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.30	1.30	BAS	FG	Overburden. Dark green basalt.							
								RB				
1.30	11.94	10.64	BAS	FG	Dark green pillow basalt/pillow basalt breccia, with ark black inter-pillow mud hosting abundant epidote-quartz-carbonate and rare round clots of v.f.g. pyrite, lesser pyrrhotite; Sparse diffuse patches of epidote; Black mud contains (trace?) fossil fragments; Angular to sub-rounded mm-scale clasts of basalt suspended in black mud matrix; Very rare sub-mm hairline stringers of carbonate; Vesicles in basalt filled with black mud and trace v.f.g. pyrite; Chlorite + limonite on fracture surfaces, lesser carbonate.							
									OXI	2I		
						DK	GN	BX	CHL	2I	Py	0.02
									CAR	1I	Po	0.02
									EPI	2I		
11.94	12.15	0.21	AND	FG	Dark grey, feldspar-(glomero)phyric andesite(?); Sharp contacts with surrounding basalt wallrock; Sparse sub-mm hairline stringers of carbonate; No sx.							
						DK	GY					
12.15	25.79	13.64	BAS	FG	Dark green un-brecciated basalt, pillow basalt/pillow basalt breccia, and medium green un-brecciated, carbonate-altered (glomero)-phyric basalt; Sub-mm hairline stringers of carbonate+/-epidote; Carbonate, and minor limonite on fracture surfaces; Rare diffuse patches of epidote-quartz-carbonate; Trace v.f.g. pyrite.							
									CHL	1I		
						MD	GN		EPI	1I		
						DK	GN		CAR	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
25.79	28.36	2.57	MST	VF	Dark black, quartz-flooded, brecciated mudstone, with sub-angular mm- to cm-scale, (up to 2cm in diameter), mudstone clasts, suspended in a mud matrix, and abundant diffuse patches and ribbons of quartz hosting abundant clots of v.f.g. chalcopyrite and pyrite; Sharp top and bottom contacts with the surrounding basalt, with contacts oriented ~70 degrees TCA; Limonite on fracture surfaces; Rare sub-mm hairline stringers of limonite.							
									OXI	1I	Py	1
						DK	BK	BX	SIL	1I	Cp	1
28.36	34.63	6.27	BAS	FG	Same lithology as 21.22 - 25.79m; Trace sub-mm hairline stringers of carbonate; Minor limonite on fracture surfaces; Trace clots of v.f.g. pyrite.							
						MD	GN		CAR	2I		
									OXI	1I		
									EPI	1I		
34.63	35.69	1.06	MST	VF	Dark grey, limey, un-brecciated mudstone(?), hosting sparse mm-scale veinlets of quartz-carbonate and pink adularia(?); Trace v.f.g. pyrite disseminated throughout; Trace limonite on fracture surfaces.							
						DK	GY					
35.69	48.77	13.08	BAS	FG	Same lithology as 21.22 - 25.79m; Rare mm- to sub-mm scale carbonate veinlets and sub-mm hairline stringers of limonite and epidote; Epidote, carbonate and minor limonite on fracture surfaces; Trace disseminated v.f.g. pyrite throughout; Sharp contact with overlying mudstone, with an orientation of ~45 degrees TCA.							
									EPI	2I		
						MD	GN		CAR	2I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.81	53	0.50	33	0R	3H	2W	0 - 1.30m is overburden.
1.52	3.05	1.53	1.52	99	1.44	94	0R	3H	2W	
3.05	3.96	0.91	0.91	100	0.91	100	0R	3H	2W	
3.96	4.57	0.61	0.51	84	0.37	61	1R	3H	1W	
4.57	6.10	1.53	1.48	97	1.30	85	1R	3H	1W	
6.10	7.62	1.52	1.52	100	1.33	88	2R	3H	1W	
7.62	9.14	1.52	1.42	93	0.66	43	1R	3H	1W	
9.14	10.67	1.53	1.43	93	1.09	71	1R	3H	1W	
10.67	12.19	1.52	1.52	100	1.04	68	1R	3H	1W	
12.19	13.72	1.53	1.53	100	1.49	97	1R	3H	1W	
13.72	15.24	1.52	1.52	100	0.44	29	1R	3H	1W	
15.24	16.76	1.52	1.5	99	0.92	61	1R	3H	1W	
16.76	18.29	1.53	1.53	100	1.04	68	1R	3H	1W	
18.29	19.81	1.52	1.39	91	0.63	41	1R	3H	1W	
19.81	21.34	1.53	1.37	90	0.56	37	1R	3H	1W	
21.34	22.86	1.52	1.52	100	1.14	75	1R	3H	1W	
22.86	24.38	1.52	1.52	100	0.11	7	1R	3H	1W	
24.38	25.91	1.53	1.53	100	0.78	51	1R	3H	1W	
25.91	27.43	1.52	1.52	100	1.07	70	1R	3H	1W	
27.43	28.96	1.53	1.47	96	1.10	72	1R	3H	1W	
28.96	30.48	1.52	1.47	97	1.10	72	1R	3H	1W	
30.48	32.00	1.52	1.52	100	1.02	67	1R	3H	1W	
32.00	33.53	1.53	1.44	94	0.91	59	1R	3H	1W	
33.53	35.05	1.52	1.47	97	1.31	86	1R	3H	1W	
35.05	36.58	1.53	1.42	93	1.01	66	1R	3H	1W	
36.58	38.10	1.52	1.5	99	1.36	89	1R	3H	1W	
38.10	39.62	1.52	1.44	95	1.36	89	1R	3H	1W	
39.62	41.15	1.53	1.49	97	1.22	80	1R	3H	1W	
41.15	42.67	1.52	1.5	99	1.40	92	1R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
42.67	44.20	1.53	1.47	96	1.47	96	1R	3H	1W	
44.20	45.72	1.52	1.51	99	1.41	93	1R	3H	1W	
45.72	47.24	1.52	1.52	100	0.82	54	1R	3H	1W	
47.24	48.77	1.53	1.53	100	1.03	67	1R	3H	1W	

HAR-16-004

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
2	2.28	BAS	
3	1.68	BAS	
4	1.41	BAS	
5	0.8	BAS	
6	0.63	BAS	
7	1.89	BAS	
8	0.65	BAS	
9	0.5	BAS	
10	0.89	BAS	
11	0.58	BAS	
12	0.5	AND	
13	0.78	BAS	
14	0.65	BAS	
15	0.87	BAS	
16	0.65	BAS	
17	0.84	BAS	
18	3.17	BAS	
19	0.53	BAS	
20	0.26	BAS	
21	1.34	BAS	
22	0.85	BAS	
23	0.6	BAS	
24	0.67	BAS	
25	2.08	BAS	
26	1.98	MST	
27	0.89	MST	
28	0.6	MST	
29	0.4	BAS	
30	0.47	BAS	

Depth (m)	Magnetic Susceptibility	Unit	Comments
31	0.43	BAS	
32	1.1	BAS	
33	0.72	BAS	
34	0.25	BAS	
35	0.92	MST	
36	0.78	BAS	
37	2.72	BAS	
38	1.05	BAS	
39	1.12	BAS	
40	2.94	BAS	
41	0.48	BAS	
42	1.98	BAS	
43	0.11	BAS	
44	0.06	BAS	
45	1.34	BAS	
47	0.58	BAS	
48	0.67	BAS	

HAR-16-004

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	1.30	1.30	-QC-	0.49	38	K293015	☐	H00-003			☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293031	☐	H00-005			☑	☐	☐
1.30	3.96	2.66	BAS, BAS	2.66	100	K293016	☐	H00-003			☐	☐	☐
3.96	6.10	2.14	BAS	2.14	100	K293017	☐	H00-003			☐	☐	☐
6.10	9.14	3.04	BAS	2.94	97	K293018	☐	H00-003			☐	☐	☐
9.14	12.19	3.05	BAS	2.95	97	K293019	☐	H00-003			☐	☐	☐
12.19	15.24	3.05	BAS	3.05	100	K293020	☐	H00-003			☐	☐	☐
15.24	18.29	3.05	BAS	3.03	99	K293021	☐	H00-003			☐	☐	☐
18.29	21.34	3.05	BAS	2.76	90	K293022	☐	H00-003			☐	☐	☐
21.34	24.38	3.04	BAS	3.04	100	K293023	☐	H00-004			☐	☐	☐
24.38	25.79	1.41	BAS	1.38	98	K293024	☐	H00-004			☐	☐	☐
25.79	28.36	2.57	BAS, MST	2.56	100	K293025	☐	H00-004			☐	☐	☐
28.36	30.48	2.12	MST, BAS	2.08	98	K293026	☐	H00-004			☐	☐	☐
30.48	33.53	3.05	BAS	2.96	97	K293027	☐	H00-005			☐	☐	☐
33.53	34.63	1.10	BAS	1.10	100	K293028	☐	H00-005			☐	☐	☐
34.63	35.69	1.06	BAS, MST	0.99	93	K293029	☐	H00-005			☐	☐	☐
35.69	38.10	2.41	MST, BAS	2.34	97	K293030	☐	H00-005			☐	☐	☐
38.10	41.15	3.05	BAS	2.93	96	K293032	☐	H00-005			☐	☐	☐
41.15	44.20	3.05	BAS	2.97	97	K293033	☐	H00-005			☐	☐	☐
44.20	47.24	3.04	BAS	3.03	100	K293034	☐	H00-005			☐	☐	☐
47.24	48.77	1.53	BAS	1.53	100	K293035	☐	H00-005			☐	☐	☐
47.24	48.77	1.53	BAS	1.53	100	K293036	☐	H00-005			☐	☐	☑

Sample Results

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-003	K293015	0.00	1.30	0.03	3		0	0.0	☐	☐	☐	☐	
H00-005	K293031	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-003	K293016	1.30	3.96	0.03	3		0	0.0	☐	☐	☐	☐	
H00-003	K293017	3.96	6.10	0.03	4		0	0.0	☐	☐	☐	☐	
H00-003	K293018	6.10	9.14	0.03	3		0	0.0	☐	☐	☐	☐	
H00-003	K293019	9.14	12.19	0.03	3		0	0.1	☐	☐	☐	☐	
H00-003	K293020	12.19	15.24	0.03	5		0	0.0	☐	☐	☐	☐	
H00-003	K293021	15.24	18.29	0.03	2		0	0.0	☐	☐	☐	☐	
H00-003	K293022	18.29	21.34	0.03	3		0	0.1	☐	☐	☐	☐	
H00-004	K293023	21.34	24.38	0.03	2		0	0.5	☐	☐	☐	☐	
H00-004	K293024	24.38	25.79	0.03	2		0	0.5	☐	☐	☐	☐	
H00-004	K293025	25.79	28.36	0.03	3		0	0.1	☐	☐	☐	☐	
H00-004	K293026	28.36	30.48	0.03	1		0	0.5	☐	☐	☐	☐	
H00-005	K293027	30.48	33.53	0.03	1		0	0.5	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-005	K293028	33.53	34.63	0.03	2		0	0.5	☐	☐	☐	☐	
H00-005	K293029	34.63	35.69	0.03	2		0	0.1	☐	☐	☐	☐	
H00-005	K293030	35.69	38.10	0.03	1		0	0.5	☐	☐	☐	☐	
H00-005	K293032	38.10	41.15	0.03	2		0	0.5	☐	☐	☐	☐	
H00-005	K293033	41.15	44.20	0.03	1		0	0.4	☐	☐	☐	☐	
H00-005	K293034	44.20	47.24	0.03	1		0	0.5	☐	☐	☐	☐	
H00-005	K293035	47.24	48.77	0.03	2		0	0.6	☐	☐	☐	☐	
H00-005	K293036	47.24	48.77	0.03	2		0	0.6	☐	☑	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
48.24	48.77	VN	37	70	NUL	10	Mm-scale carbonate veinlets.			

Hartless Joe - Hartless Joe

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		516567	6753488	1553	50.29

ZONE: Unknown

SECTION:

HOLE: HAR-16-005

CLAIM:

Contractor: Beaudoin

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: -

Geology Logged By: J. Morton

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: King

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	4.21	4.21	BAS
4.21	16.9	12.69	BAS
16.9	26.8	9.9	MST
26.8	27.2	0.4	SLT
27.2	36.45	9.25	MST
36.45	50.29	13.84	BAS

SAMPLES	
Numbers:	K293037 to K293065
Total:	29
Batch:	004, 005
Certificates:	WH16156778, WH16156779

COMMENTS

Box Log

HAR-16-005

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	6.43
2	6.43	10.07
3	10.07	13.6
4	13.6	17.81
5	17.81	21.73
6	21.73	25.91
7	25.91	30.07
8	30.07	33.9
9	33.9	37.81
10	37.81	41.42
11	41.42	44.4
12	44.4	48.4
13	48.4	50.29

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.21	4.21	OVB	FG	Overburden. Dark green basalt breccia with limonite, chlorite, carbonate on fracture surfaces.							
						DK	GN	BX				
								RB				
4.21	7.38	3.17	BAS	FG	Weakly brecciated, dark green basalt, with a matrix of quartz-carbonate-epidote, minor black mud; Trace v.f.g. of pyrite in epidote matrix; Sparse sub-mm hairline stringers of carbonate throughout; Chlorite and limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
									OXI	1I		
7.38	16.90	9.52	BAS	FG	Dark green pillow basalt/pillow basalt breccia, with a black mud inter-pillow matrix hosting diffuse patches of quartz-carbonate-epidote, as well as clots and ribbons of v.f.g. pyrite; Strongly brecciated and muddy top, with distinct sub-angular cm-scale basalt clasts, transitioning to larger sub-rounded basalt clasts with diffuse boundaries, and finally an un-brecciated basalt bottom; Rare clasts of rounded quartz suspended in mud matrix; Sparse sub-mm hairline stringers of carbonate toward the bottom of the interval; Chlorite and limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I	Py	0.03
									OXI	1I		
16.90	25.93	9.03	MST	VF	Dark green-black, silica-flooded mudstone, becoming increasingly calcareous down-section; Diffuse sub-angular mudstone clasts in the top 30cm of section, suspended in a dark mud matrix; Discontinuous sub-mm to mm-scale ribbons of carbonate throughout, roughly aligned to bedding (70-80 degrees TCA); Black chlorite content increasing down-section, where bottom 4.5m is strongly chlorite-altered; Sparse diffuse ribbons and patches of quartz throughout, hosting v.f.g. pyrite and pyrrhotite, and lesser chalcopyrite; Weakly magnetic throughout entire interval; Chlorite and carbonate on fracture surfaces, with limonite on fracture surfaces at the top of the interval.							
						DK	GN	BX	CHL	4I	Py	0.3

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	BK		SIL	1I	Po	0.3
									CAR	2I	Cp	0.02
25.93	26.80	0.87	MST	VF	Medium brown-maroon limey and brecciated mudstone, hosting numerous mm-scale, (up to 1cm), ribbons and bands of smokey quartz and carbonate, as well as sparse diffuse patches of quartz; Soft-seciment loading structures (micro-faulting); Abundant ribbons and round clots of v.f.g. pyrite throughout, in association with quartz-carbonate ribbons; Trace pyrrhotite within quartz patches; Chlorite and carbonate on fracture surfaces.							
						MD	BN	BX	CAR	2I	Po	0.01
						LT	PU	SD	CHL	1I	Py	2
									SIL	2I		
26.80	27.20	0.40	SLT	VF	Massive, medium grey-green siltstone(?) with sharp bottom and top contacts, no alteration and no sulphide mineralization.							
						MD	GY	MA				
						MD	GN					
27.20	27.70	0.50	MST	VF	Same lithology as 25.93 - 26.80m, hosting abundant round clots of v.f.g. pyrite, trace chalcopyrite; Gradational contact with the underlying limey grey mudstone.							
						LT	PU		CAR	2I	Py	1
						LT	BN		SIL	2I	Cp	0.01
27.70	29.77	2.07	MST	VF	Medium grey, weakly breccciated, limey mudstone, hosting numerous mm-scale carbonate stringers, very rare diffuse patches of quartz, and rare mm-scale quartz veinlets, which host trace v.f.g. pyrite and pyrrhotite; Gradational contact with underlying maroon mudstone.							
						MD	GY	BX	CAR	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
29.77	30.63	0.86	MST	VF	Same general lithology as 25.93 - 26.80m, hosting a 50cm wide horizon of exhalative silica-carbonate; Horizon is banded and brecciated, with white pale-green quartz with irregular diffuse borders, hosting suspended cm-scale sub-angular and deformed mudstone clasts and mm-scale sub-rounded quartz pebbles; Banded, wavy ribbons of carbonate with soft-sediment loading structures (micro-faulting); Moderate patches of limonite as well as sub-mm hairline fractures of limonite within the silica portion of the horizon; Rare clots of v.f.g. pyrite, trace chalcopyrite throughout.							
						LT	BN	BX			Po	0.01
						LT	PU	BN	OXI	2I	Py	0.03
						LT	WH				Cp	0.01
30.63	33.84	3.21	MST	VF	Medium green to dark brown, limey and partially brecciated mudstone, with the same general lithology as 16.90 - 25.93m; Discontinuous sub-mm ribbons of carbonate aligned roughly parallel to bedding (70 - 80 degrees TCA), along with rare mm-scale veinlets of quartz-carbonate, hosting v.f.g. pyrite, trace pyrrhotite; Some of the core is weakly magnetic; Chlorite, carbonate and limonite on fracture surfaces.							
						MD	GN	BX	CHL	2I	Py	0.03
						DK	BN		CAR	1I	Po	0.01
									OXI	1I		
33.84	36.45	2.61	MST	VF	Medium green, clast-supported, limey brecciated mudstone, with deformed and elongate medium green basalt(?) clasts suspended in a dark green mud matrix; Rare inter-clast diffuse and patchy quartz and epidote; Moderate ribbons of v.f.g. pyrite and pyrrhotite throughout, often associated with patchy quartz-epidote in a mud matrix, but also cross-cutting basalt/mud clasts; Core is slightly magnetic throughout; Dark green-black chlorite and carbonate on fracture surfaces.							
						MD	GN	BX	EPI	1I		
									CAR	2I		
									SIL	1I		
									CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
36.45	42.84	6.39	BAS	FG	Same general lithology as 4.21 - 7.38m; Weakly brecciated dark green basalt with rare diffuse patches of epidote; Darker, strongly chlorite-altered top 4.7m transitioning to un-brecciated bottom; Top 4.7m is also moderately magnetic and hosts sparse mm-scale ribbons of pyrite, pyrrhotite and epidote, as well as disseminated clots of pyrrhotite (in basalt vesicles?); Dark black chlorite, carbonate, and minor limonite on fracture surfaces.							
						DK	GN	BX	CHL	3I	Py	0.04
									CAR	1I	Po	0.1
42.84	50.29	7.45	BAS	MG	Dark green, brecciated, strongly chlorite-altered basalt top, transitioning down-section to medium green, medium grained, carbonate-epidote altered, un-brecciated bottom; Sub-mm hairline stringers of carbonate and epidote throughout; Sparse diffuse patches of epidote hosting trace clots of v.f.g. pyrrhotite and sphalerite; Core is non-magnetic; Chlorite and carbonate on fracture surfaces.							
						MD	GN		CAR	1I	Sp	0.02
						DK	GN	BX	CHL	2I	Po	0.03
									EPI	2I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	4.21	4.21	BAS	FG	Overburden. Dark green basalt breccia with limonite, chlorite, carbonate on fracture surfaces.							
								RB				
						DK	GN	BX				
4.21	16.90	12.69	BAS	FG	Dark greenm, pillow basalt/pillow basalt breccia, with black mud inter-pillow matrix hosting diffuse patches of quartz-carbonate-epidote and clots of v.f.g. pyrite; Sparse sub-mm hairline stringers of carbonate throughout; Clasts of basalt are sharp and sub-angular or diffuse and rounded down-section, finally transitioning to un-brecciated basalt at the bottom of the interval; Rare clasts of rounded quartz suspended in mud matrix.							
						DK	GN	BX	CHL	1I	Py	0.01
									OXI	1I		
16.90	26.80	9.90	MST	VF	Dark black-green, limey, brecciated mudstone top and a maroon (hematite-altered) siliceous mudstone bottom, which hosts numerous banded and brecciated quartz-carbonate horizons; Round clots of v.f.g. pyrite is ubiquiotous throughout, but most concentrated in hematite-altered bottom; Contacts are gradational.							
						LT	BN		OXI	1I		
						DK	GN	SD	CHL	3I	Py	1
						DK	BK	BX	SIL	2I	Po	0.01
						LT	PU	BN	CAR	2I		
26.80	27.20	0.40	SLT	VF	Massive, medium grey-green siltstone(?) with sharp bottom and top contacts, no alteration and no sulphide mineralization.							
						MD	GY					
						MD	GN	MA				

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
27.20	36.45	9.25	MST	VF	Maroon (hematite-altered) siliceous mudstone top, and medium green to dark green, brecciated, limey mudstone bottom; Top maroon mudstone hosts numerous banded and brecciated quartz-carbonate horizons that are up to 50cm wide; Round clots of v.f.g. pyrite is ubiquiotous throughout, but most concentrated in hematite-altered top; Bottom mud is characterized by deformed, elongate mud (rip-up?) clasts; Contacts are gradational.							
						MD	GN	BX	CAR	1I	Py	0.08
						LT	PU	BN	CHL	1I	Po	0.01
						LT	BN	SD	SIL	1I		
36.45	50.29	13.84	BAS	FG	Dark green, weakly to strongly brecciated pillow basalt/pillow basalt breccia and medium green, medium grained, carbonate and epidote altered basalt; Black inter-pillow mud matrix, hosting sparse ribbons and round clots of v.f.g. pyrite and pyrrhotite; Sub-mm hairline stringers of carbonate throughout.							
									EPI	1I		
						DK	GN	BX	CHL	2I	Py	0.03
						MD	GN		CAR	1I	Po	0.05

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	3.05	3.05	0.81	27	0.00	0	0R	3H	2W	Overburden.
3.05	4.21	1.16	0.66	57	0.35	30	1R	3H	2W	Overburden.
4.21	6.10	1.89	1.37	72	0.27	14	0R	3H	2W	
6.10	7.62	1.52	1.48	97	0.25	16	1R	3H	2W	
7.62	9.14	1.52	1.45	95	0.50	33	0R	3H	2W	
9.14	10.67	1.53	1.49	97	0.69	45	1R	3H	2W	
10.67	12.19	1.52	1.29	85	0.89	59	0R	3H	3W	
12.19	13.72	1.53	1.47	96	0.93	61	1R	3H	2W	
13.72	15.24	1.52	1.4	92	1.40	92	1R	3H	2W	
15.24	16.76	1.52	1.48	97	1.20	79	1R	3H	1W	
16.76	18.29	1.53	1.46	95	1.17	76	0R	3H	1W	
18.29	19.81	1.52	1.52	100	1.47	97	0R	3H	1W	
19.81	21.34	1.53	1.53	100	0.86	56	1R	3H	1W	
21.34	22.86	1.52	1.47	97	1.35	89	2R	3H	1W	
22.86	24.38	1.52	1.43	94	1.30	86	2R	3H	1W	
24.38	25.91	1.53	1.5	98	0.62	41	3R	3H	1W	
25.91	27.43	1.52	1.44	95	1.23	81	3R	3H	1W	
27.43	28.96	1.53	1.43	93	1.12	73	3R	3H	1W	
28.96	30.48	1.52	1.47	97	1.28	84	3R	3H	1W	
30.48	32.00	1.52	1.29	85	0.26	17	3R	3H	1W	
32.00	33.53	1.53	1.25	82	0.76	50	3R	2H	1W	
33.53	35.05	1.52	1.52	100	0.82	54	3R	3H	1W	
35.05	36.58	1.53	1.44	94	1.21	79	3R	3H	1W	
36.58	38.10	1.52	1.42	93	0.57	38	2R	3H	1W	
38.10	39.62	1.52	1.52	100	0.92	61	2R	3H	1W	
39.62	41.15	1.53	1.08	71	0.11	7	1R	2H	1W	
41.15	42.67	1.52	1.28	84	0.37	24	1R	3H	1W	
42.67	43.59	0.92	0.92	100	0.16	17	2R	2H	1W	
43.59	44.20	0.61	0.56	92	0.56	92	0R	3H	1W	

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
44.20	45.72	1.52	1.5	99	1.22	80	1R	3H	1W	
45.72	47.24	1.52	1.49	98	1.41	93	1R	3H	1W	
47.24	48.77	1.53	1.53	100	0.77	50	1R	3H	1W	
48.77	50.29	1.52	1.46	96	1.16	76	1R	3H	1W	

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Magnetic Suscepatibility

HAR-16-005

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
5	1.84	BAS	
7	2.67	BAS	
8	1.66	BAS	
9	0.77	BAS	
10	2.31	BAS	
11	1.84	BAS	
13	1.26	BAS	
14	2.13	BAS	
15	1.12	BAS	
16	0.58	BAS	
17	1.37	MST	
18	3.04	MST	
19	16.8	MST	
20	1.1	MST	
21	3.56	MST	
22	1.44	MST	
23	4.72	MST	
24	9.4	MST	
25	1.84	MST	
26	5	MST	
27	2.53	SLT	
28	0.08	MST	
29	7.22	MST	
30	5.56	MST	
31	0.58	MST	
32	4.73	MST	
33	4.93	MST	
34	1.07	MST	
35	11.12	MST	

Depth (m)	Magnetic Susceptibility	Unit	Comments
36	15.8	MST	
37	26.1	BAS	
38	23.9	BAS	
39	6.41	BAS	
40	3.64	BAS	
42	2.3	BAS	
44	2.7	BAS	
45	2.25	BAS	
46	7.1	BAS	
47	8.6	BAS	
48	0.77	BAS	
49	1.57	BAS	
50	5.51	BAS	

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Sample Log

HAR-16-005

Hartless Joe

Unknown Zone

Archer,Cathro & Associates (1981) Limited

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K293053	☐	H00-004			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293063	☐	H00-005			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293065	☐	H00-005		62Pa	☐	☐	☐
0.00	4.21	4.21	-QC-	1.17	28	K293037	☐	H00-005			☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293040	☐	H00-005		15A	☐	☐	☐
4.21	6.10	1.89	BAS, BAS	1.83	97	K293038	☐	H00-005			☐	☐	☐
6.10	9.14	3.04	BAS	2.93	96	K293039	☐	H00-005			☐	☐	☐
9.14	12.19	3.05	BAS	2.78	91	K293041	☐	H00-005			☐	☐	☐
12.19	15.24	3.05	BAS	2.87	94	K293042	☐	H00-005			☐	☐	☐
15.24	16.90	1.66	BAS	1.61	97	K293043	☐	H00-005			☐	☐	☐
16.90	18.29	1.39	BAS, MST	1.39	100	K293044	☐	H00-005			☐	☐	☐
18.29	21.34	3.05	MST	3.05	100	K293045	☐	H00-005			☐	☐	☐
21.34	24.38	3.04	MST	2.90	95	K293046	☐	H00-005			☐	☐	☐
24.38	25.91	1.53	MST	0.62	41	K293047	☐	H00-005			☐	☐	☐
24.38	25.91	1.53	MST	0.62	41	K293048	☐	H00-005			☐	☑	☐
25.91	26.80	0.89	MST	0.89	100	K293049	☐	H00-004			☐	☐	☐
26.80	27.20	0.40	MST, SLT	0.40	100	K293050	☐	H00-004			☐	☐	☐
27.20	29.77	2.57	SLT, MST	2.41	94	K293051	☐	H00-004			☐	☐	☐
29.77	30.63	0.86	MST	0.86	100	K293052	☐	H00-004			☐	☐	☐
30.63	32.00	1.37	MST	1.19	87	K293054	☐	H00-004			☐	☐	☐
32.00	33.84	1.84	MST	1.74	95	K293055	☐	H00-004			☐	☐	☐
33.84	35.05	1.21	MST	1.21	100	K293056	☐	H00-004			☐	☐	☐
35.05	36.45	1.40	MST	1.27	91	K293057	☐	H00-004			☐	☐	☐
35.05	36.45	1.40	MST	1.27	91	K293058	☐	H00-004			☐	☑	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
36.45	38.10	1.65	MST, BAS	1.65	100	K293059	☐	H00-005			☐	☐	☐
38.10	41.15	3.05	BAS	2.60	85	K293060	☐	H00-005			☐	☐	☐
41.15	44.20	3.05	BAS	1.48	49	K293061	☐	H00-005			☐	☐	☐
44.20	47.24	3.04	BAS	2.99	98	K293062	☐	H00-005			☐	☐	☐
47.24	50.29	3.05	BAS	2.99	98	K293064	☐	H00-005			☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-005	K293037	0.00	4.21	0.03	2		0	0.1	☐	☐	☐	☐	
H00-005	K293040	0.00	0.00	14.30	484		44	4.1	☐	☐	☐	☑ 15A	
H00-004	K293053	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-005	K293063	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
H00-005	K293065	0.00	0.00	9.72	18		2	1.4	☐	☐	☐	☑ 62Pa	
H00-005	K293038	4.21	6.10	0.03	4		0	0.1	☐	☐	☐	☐	
H00-005	K293039	6.10	9.14	0.03	3		0	0.0	☐	☐	☐	☐	
H00-005	K293041	9.14	12.19	0.03	3		0	0.0	☐	☐	☐	☐	
H00-005	K293042	12.19	15.24	0.03	4		0	0.0	☐	☐	☐	☐	
H00-005	K293043	15.24	16.90	0.03	5		0	0.1	☐	☐	☐	☐	
H00-005	K293044	16.90	18.29	0.03	9		0	0.1	☐	☐	☐	☐	
H00-005	K293045	18.29	21.34	0.03	10		0	0.1	☐	☐	☐	☐	
H00-005	K293046	21.34	24.38	0.03	3		0	0.1	☐	☐	☐	☐	
H00-005	K293047	24.38	25.91	0.03	5		0	0.2	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-005	K293048	24.38	25.91	0.03	5		0	0.2	☑	☐	☐	☐	
H00-004	K293049	25.91	26.80	0.13	63		2	0.7	☐	☐	☐	☐	
H00-004	K293050	26.80	27.20	0.03	2		1	0.5	☐	☐	☐	☐	
H00-004	K293051	27.20	29.77	0.03	6		1	0.2	☐	☐	☐	☐	
H00-004	K293052	29.77	30.63	0.32	56		3	0.3	☐	☐	☐	☐	
H00-004	K293054	30.63	32.00	0.03	22		1	0.0	☐	☐	☐	☐	
H00-004	K293055	32.00	33.84	0.03	26		1	0.1	☐	☐	☐	☐	
H00-004	K293056	33.84	35.05	0.03	11		1	0.1	☐	☐	☐	☐	
H00-004	K293057	35.05	36.45	0.03	6		1	0.0	☐	☐	☐	☐	
H00-004	K293058	35.05	36.45	0.03	7		1	0.0	☑	☐	☐	☐	
H00-005	K293059	36.45	38.10	0.03	6		0	0.0	☐	☐	☐	☐	
H00-005	K293060	38.10	41.15	0.03	5		0	0.0	☐	☐	☐	☐	
H00-005	K293061	41.15	44.20	0.03	2		0	0.1	☐	☐	☐	☐	
H00-005	K293062	44.20	47.24	0.03	1		0	0.0	☐	☐	☐	☐	
H00-005	K293064	47.24	50.29	0.03	1		0	0.0	☐	☐	☐	☐	

Hartless Joe - Hartless Joe

Grid East	Grid North	Easting	Northing	Elevation	Depth (m)
		517168	6752812	1734	74.68

ZONE: Unknown

SECTION:

HOLE: HAR-16-006

CLAIM:

Contractor: Beaudoin

Drill: 1

Core Size: NTW

Casing Depth:

Drilling Dates: -

Geology Logged By: J. Morton

SURVEY			
Depth (m)	Azimuth	Dip	Method

TARGET: Queen

SUMMARY			
From (m)	To (m)	Interval (m)	Rock Type
0	1.52	1.52	OVB
1.52	2.26	0.74	BAS
2.26	4.13	1.87	AND
4.13	10.92	6.79	VOL
10.92	37.53	26.61	BAS
37.53	39.95	2.42	MST
39.95	40.16	0.21	s
40.16	44.39	4.23	MST
44.39	45.35	0.96	BAS
45.35	50.9	5.55	AND
50.9	55.78	4.88	MST
55.78	74.68	18.9	BAS

SAMPLES	
Numbers:	K293066 to K293102
Total:	37
Batch:	004, 005, 006
Certificates:	WH16156778, WH16156779, WH16156781

COMMENTS

Box Log

HAR-16-006

Hartless Joe
Unknown Zone

Archer,Cathro & Associates (1981) Limited

Box Number	From (m)	To (m)
1	0	3.94
2	3.94	8.12
3	8.12	12.22
4	12.22	16.37
5	16.37	20.43
6	20.43	24.7
7	24.7	29.05
8	29.05	33.34
9	33.34	37.67
10	37.67	41.99
11	41.99	46.39
12	46.39	50.47
13	50.47	54.77
14	54.77	58.98
15	58.98	63.5
16	63.5	67.5
17	67.5	71.84
18	71.84	74.68

Box Number	From (m)	To (m)

Box Number	From (m)	To (m)

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	FG	Overburden; Medium grey andesite(?) porphyry dyke and dark green basalt rubble.							
						MD	GY					
						DK	GN	RB				
1.52	2.26	0.74	BAS	FG	Dark green, weakly brecciated basalt with a white carbonate matrix and rare diffuse patches of quartz and epidote; Chlorite and trace limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
2.26	4.13	1.87	AND	FG	Medium grey, plagioclase (glomero)-phyric porphyry dyke, with abundant sub-mm dark and limonitic hairline stringers; Trace limonite on fracture surfaces.							
						MD	GY					
4.13	10.92	6.79	VOL	FG	Dark green, silica-flooded volcanic breccia with mm- to cm-scale angular to sub-angular polymictic clasts and abundant patches of quartz-carbonate; Sparse vugs, sometimes with chocolate-brown oxide; Abundant, discontinuous mm-scale carbonate stringers throughout; Rare clots of v.f.g. pyrite and v.f.g. epidote; Chlorite and trace limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
									SIL	3I		
10.92	16.95	6.03	BAS	FG	Vuggy, weakly brecciated basalt top transitioning into un-brecciated, dark green basalt bottom, with a carbonate-epdiote matrix and abundant, discontinuous mm-scale carbonate stringers, which are sparsley limonitic, throughout; Vugs sometimes filled with chocolate-brown oxide; Trace grains of v.f.g. pyrite; Chlorite and carbonate on fracture surfaces.							
						DK	GN	BX	CHL	2I		
									CAR	2I		
16.95	34.69	17.74	BAS	FG	Same general lithology as 10.92 - 16.95m; Mm- to cm-scale angular clasts of basalt, healed in a carbonate, and minor epidote, matrix, hosting trace v.f.g. pyrite; Rare diffuse patches of carbonate-epidote; Chlorite and carbonate on fracture surfaces.							
						DK	GN	BX	CHL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									CAR	3I		
34.69	37.53	2.84	BAS	FG	Medium green, medium grained, amygdaloidal basalt, with sparse amygdules of white carbonate and sparse mm-scale veinlets of carbonate, sometimes limonitic, (described in more detail in the secondary structures log); Gradational top and bottom contacts; Carbonate on fracture surfaces; No sulphides.							
						MD	GN		CAR	2I		
37.53	39.95	2.42	MST	VF	Dark to medium green, strongly calcareous, brecciated mudstone, with moderate mm-scale discontinuous ribbons and patches of carbonate throughout; Clast-supported, with deformed muddy clasts hosted in a chloritic mud matrix; No sulphides.							
						MD	GN	BX	CHL	3I		
						DK	GN		CAR	3I		
39.95	40.16	0.21	s	FG	Strongly silicified and limonitic, orange to pale white porphyry dyke, with a diffuse/gradational top contact and a very sharp bottom contact; Abundant limonitic sub-mm stringers throughout; Protolith is unidentifiable.							
						LT	WH		OXI	4I		
						LT	OR		SIL	4I		
40.16	44.39	4.23	MST	VF	Medium grey, bioturbated, calcareous mudstone, hosting abundant, discontinuous, mm-scale ribbons and clots of carbonate, and trace clots of v.f.g. pyrite; One quartz-sericite vein, 5cm wide, @ 41.66m, is decribed in more detail in the secondary structures log; Carbonate on fracture surfaces.							
						MD	GY		CAR	3I		
44.39	45.35	0.96	BAS	FG	Same lithology as 34.96 - 37.53m; One 5cm quartz vein at the bottom of the interval.							
						MD	GN		CAR	2I		
45.35	50.90	5.55	AND	FG	Light grey, strongly silicified and sericitized, andesite(?) porphyry dyke, with plagioclase (glomero)-phenocrysts; Abundant dark grey and/or limonitic sub-mm hairline fracture and as rare clots, as well as mm-scale quartz veinlets throughout; Limonite and sericite on fracture surfaces; Trace disseminated limonite and coarse grained euhedral pyrite throughout.							
						LT	GY		SIL	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
									SER	4I		
									OXI	1I		
50.90	55.78	4.88	MST	VF	Medium grey-green, calcareous, brecciated mudstone; Clast-supported with mm- to sub-mm diameter, angular, medium green clasts in a medium grey matrix; Chlorite and minor limonite on fracture surfaces; Rare mm-scale, discontinuous carboante stringers throughout.							
						MD	GY	BX	CAR	3I		
						MD	GN		OXI	1I		
55.78	74.68	18.90	BAS	FG	Medium to dark green, moderately brecciated basalt, with a dark green/black mud matrix hosting diffuse patches of carbonate; Sparse, discontinuous, sub-mm to mm-scale carbonate stringers and ribbons throughout, sometimes limonitic; Larger cm-scale diffuse patches of tan-white carbonate, such as 61.20-61.28m; A few notable mm-scale quartz veinlets described in secondary structures log; Chlorite, carbonate and limonite on fracture surfaces; No sulphides.							
						MD	GN	BX	CHL	2I		
									CAR	2I		
									OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
0.00	1.52	1.52	OVB	FG	Overburden; Medium grey andesite(?) porphyry dyke and dark green basalt rubble.							
						DK	GN					
						MD	GY	RB				
1.52	2.26	0.74	BAS	FG	Dark green, weakly brecciated basalt with a white carbonate matrix and rare diffuse patches of quartz and epidote; Chlorite and trace limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
2.26	4.13	1.87	AND	FG	Medium grey, plagioclase (glomero)-phyric porphyry dyke, with abundant sub-mm dark and limonitic hairline stringers; Trace limonite on fracture surfaces.							
						MD	GY					
4.13	10.92	6.79	VOL	FG	Dark green, silica-flooded volcanic breccia with mm- to cm-scale angular to sub-angular polymictic clasts and abundant patches of quartz-carbonate; Sparse vugs, sometimes with chocolate-brown oxide; Abundant, discontinuous mm-scale carbonate stringers throughout; Rare clots of v.f.g. pyrite and v.f.g. epidote; Chlorite and trace limonite on fracture surfaces.							
						DK	GN	BX	CHL	1I		
									SIL	3I		
10.92	37.53	26.61	BAS	FG	Dark green, weakly brecciated basalt, with a carbonate +/-epidote matrix, and medium green, amygdaloidal basalt, with amygdules of carbonate; Sparse, discontinuous, mm-scale veinlets of carbonate as well as diffuse patches of carbonate-epidote; Occasionally vuggy, with vugs filled with choclate-brown oxide; Chlorite and carbonate on fracture surfaces.							
						DK	GN	BX	CHL	2I		
						MD	GN		CAR	2I		
37.53	39.95	2.42	MST	VF	Dark to medium green, strongly calcareous, brecciated mudstone, with moderate mm-scale discontinuous ribbons and patches of carbonate throughout; Clast-supported, with deformed muddy clasts hosted in a chloritic mud matrix; No sulphides.							
						MD	GN		CAR	3I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
						DK	GN	BX	CHL	3I		
39.95	40.16	0.21	s	FG	Strongly silicified and limonitic, orange to pale white porphyry dyke, with a diffuse/gradational top contact and a very sharp bottom contact; Abundant limonitic sub-mm stringers throughout; Protolith is unidentifiable.							
						LT	WH		OXI	4I		
						LT	OR		SIL	4I		
40.16	44.39	4.23	MST	VF	Medium grey, bioturbated, calcareous mudstone, hosting abundant, discontinuous, mm-scale ribbons and clots of carbonate, and trace clots of v.f.g. pyrite; One quartz-sericite vein, 5cm wide, @ 41.66m, is decribed in more detail in the secondary structures log; Carbonate on fracture surfaces.							
						MD	GY	SD	CAR	3I		
44.39	45.35	0.96	BAS	FG	Same lithology as 34.96 - 37.53m; One 5cm quartz vein at the bottom of the interval.							
						DK	GN		CAR	2I		
45.35	50.90	5.55	AND	FG	Light grey, strongly silicified and sericitized, andesite(?) porphyry dyke, with plagioclase (glomero)-phenocrysts; Abundant dark grey and/or limonitic sub-mm hairline fracture and as rare clots, as well as mm-scale quartz veinlets throughout; Limonite and sericite on fracture surfaces; Trace disseminated limonite and coarse grained euhedral pyrite throughout.							
						LT	GY		SIL	3I		
									SER	4I		
									OXI	1I		
50.90	55.78	4.88	MST	VF	Medium grey-green, calcareous, brecciated mudstone; Clast-supported with mm- to sub-mm diameter, angular, medium green clasts in a medium grey matrix; Chlorite and minor limonite on fracture surfaces; Rare mm-scale, discontinuous carboante stringers throughout.							
						MD	GY	BX	CAR	3I		
						MD	GN		OXI	1I		

From (m)	To (m)	Interval (m)	Rock Type	Grain Size	Description	Shade	Colour	Texture	Alteration	Intensity	Mineral	Conc.
55.78	74.68	18.90	BAS	FG	Medium to dark green, moderately brecciated basalt, with a dark green/black mud matrix hosting diffuse patches of carbonate; Sparse, discontinuous, sub-mm to mm-scale carbonate stringers and ribbons throughout, sometimes limonitic; Larger cm-scale diffuse patches of tan-white carbonate, such as 61.20-61.28m; A few notable mm-scale quartz veinlets described in secondary structures log; Chlorite, carbonate and limonite on fracture surfaces; No sulphides.							
									CAR	2I		
						MD	GN	BX	CHL	2I		
									OXI	1I		

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery %	RQD	RQD %	Reactivity	Hardness	Weathering	Comments
0.00	1.52	1.52	0.9	59	0.12	8	0R	3H	2W	
1.52	3.05	1.53	1.53	100	1.32	86	0R	4H	1W	
3.05	4.57	1.52	1.47	97	0.70	46	0R	4H	1W	
4.57	6.10	1.53	1.51	99	1.21	79	0R	4H	1W	
6.10	9.14	3.04	2.83	93	1.79	59	2R	3H	1W	
9.14	12.19	3.05	2.83	93	1.79	59	2R	3H	1W	
12.19	15.24	3.05	3.01	99	2.30	75	1R	3H	1W	
15.24	18.29	3.05	2.89	95	2.35	77	1R	4H	1W	
18.29	21.34	3.05	3.04	100	2.19	72	2R	3H	1W	
21.34	24.38	3.04	3.04	100	2.19	72	2R	3H	1W	
24.38	27.43	3.05	2.88	94	2.61	86	2R	3H	1W	
27.43	30.48	3.05	3	98	2.03	67	2R	3H	1W	
30.48	33.53	3.05	3	98	2.90	95	2R	3H	1W	
33.53	36.58	3.05	3.05	100	2.92	96	1R	4H	1W	
36.58	39.62	3.04	2.94	97	2.78	91	1R	4H	1W	
39.62	42.67	3.05	3.05	100	3.00	98	2R	3H	1W	
42.67	45.72	3.05	2.96	97	1.76	58	1R	4H	1W	
45.72	48.77	3.05	2.96	97	2.63	86	2R	3H	1W	
48.77	51.82	3.05	2.88	94	2.88	94	1R	4H	1W	
51.82	54.86	3.04	2.92	96	2.48	82	3R	3H	1W	
54.86	57.91	3.05	2.95	97	1.71	56	2R	3H	1W	
57.91	60.96	3.05	2.81	92	1.82	60	2R	3H	1W	
60.96	64.01	3.05	3.05	100	2.42	79	2R	3H	1W	
64.01	65.53	1.52	1.52	100	1.52	100	2R	3H	1W	
65.53	68.58	3.05	2.93	96	2.71	89	2R	3H	1W	
68.58	71.63	3.05	2.96	97	1.86	61	2R	3H	1W	
71.63	74.68	3.05	2.76	90	2.03	67	2R	3H	1W	

Depth (m)	Magnetic Susceptibility	Rock Type	Comments
38	31.1	MST	
39	9.03	MST	
40	0.99	s	
41	0.45	MST	
42	0.94	MST	
43	0.57	MST	
44	1.26	MST	
45	0.67	BAS	
46	0.15	AND	
47	2.04	AND	
48	0.55	AND	
49	0.6	AND	
50	0.63	AND	
51	3.24	MST	
52	3.24	MST	
53	4.06	MST	
54	3.61	MST	
55	1.31	MST	
56	2.08	BAS	
57	1.91	BAS	
58	0.78	BAS	
59	1.49	BAS	
60	1.66	BAS	
61	1.79	BAS	
62	3.22	BAS	
63	1.79	BAS	
64	2.72	BAS	
65	2.7	BAS	
66	1.29	BAS	

Depth (m)	Magnetic Susceptibility	Unit	Comments
67	0.52	BAS	
68	1.09	BAS	
69	0.53	BAS	
70	1.51	BAS	
71	2.4	BAS	
72	1.04	BAS	
73	2.48	BAS	
74	0.62	BAS	

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
0.00	0.00	0.00	-QC-	0.00	0	K293083	☐	h00-006		62Pa	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293088	☐	H00-004		62Pa	☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293095	☐	h00-006			☑	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293099	☐	h00-006		15A	☐	☐	☐
0.00	2.26	2.26	-QC-	1.50	66	K293066	☐	H00-005			☐	☐	☐
0.00	0.00	0.00	-QC-	0.00	0	K293078	☐	h00-006			☑	☐	☐
2.26	4.13	1.87	BAS, AND	1.82	97	K293067	☐	H00-005			☐	☐	☐
4.13	6.10	1.97	AND, VOL	1.97	100	K293068	☐	H00-005			☐	☐	☐
6.10	9.14	3.04	VOL	2.83	93	K293069	☐	H00-005			☐	☐	☐
9.14	12.19	3.05	VOL	2.83	93	K293070	☐	H00-005			☐	☐	☐
12.19	15.24	3.05	BAS	3.01	99	K293071	☐	H00-005			☐	☐	☐
15.24	18.29	3.05	BAS	2.89	95	K293072	☐	H00-005			☐	☐	☐
18.29	21.34	3.05	BAS	2.97	97	K293073	☐	h00-006			☐	☐	☐
21.34	24.38	3.04	BAS	3.04	100	K293074	☐	h00-006			☐	☐	☐
24.38	27.43	3.05	BAS	3.00	98	K293075	☐	h00-006			☐	☐	☐
27.43	30.48	3.05	BAS	2.88	94	K293076	☐	h00-006			☐	☐	☐
30.48	33.53	3.05	BAS	3.00	98	K293077	☐	h00-006			☐	☐	☐
33.53	34.96	1.43	BAS	1.40	98	K293079	☐	h00-006			☐	☐	☐
34.96	37.53	2.57	BAS	2.57	100	K293080	☐	h00-006			☐	☐	☐
37.53	39.95	2.42	BAS, MST	2.42	100	K293081	☐	h00-006			☐	☐	☐
39.95	41.99	2.04	MST, s	1.04	51	K293082	☐	h00-006			☐	☐	☐
41.99	44.39	2.40	MST	2.32	97	K293084	☐	h00-006			☐	☐	☐
41.99	44.39	2.40	MST	2.32	97	K293085	☐	h00-006			☐	☑	☐
44.39	45.35	0.96	BAS, MST	0.96	100	K293086	☐	H00-004			☐	☐	☐

From (m)	To (m)	Interval (m)	Rock Type	Recovery (m)	Recovery %	Sample Number	Not Sampled	BatchName	Batch Class	Standard	Blank	1/4 Dup	Coarse Dup
45.35	46.11	0.76	BAS, AND	0.63	83	K293087	☐	H00-004			☐	☐	☐
46.11	48.77	2.66	AND	2.54	95	K293089	☐	H00-004			☐	☐	☐
48.77	50.90	2.13	AND	2.13	100	K293090	☐	H00-004			☐	☐	☐
50.90	53.72	2.82	AND, MST	2.67	95	K293091	☐	H00-004			☐	☐	☐
53.72	55.78	2.06	MST	2.06	100	K293092	☐	H00-004			☐	☐	☐
55.78	57.91	2.13	MST, BAS	2.03	95	K293093	☐	h00-006			☐	☐	☐
57.91	60.96	3.05	BAS	2.81	92	K293094	☐	h00-006			☐	☐	☐
60.96	64.01	3.05	BAS	3.05	100	K293096	☐	h00-006			☐	☐	☐
60.96	64.01	3.05	BAS	3.05	100	K293097	☐	h00-006			☐	☐	☑
64.01	65.53	1.52	BAS	1.52	100	K293098	☐	h00-006			☐	☐	☐
65.53	68.58	3.05	BAS	2.93	96	K293100	☐	h00-006			☐	☐	☐
68.58	71.63	3.05	BAS	2.96	97	K293101	☐	h00-006			☐	☐	☐
71.63	74.68	3.05	BAS	2.76	90	K293102	☐	h00-006			☐	☐	☐

Sample Results

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
H00-005	K293066	0.00	2.26	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293078	0.00	0.00	0.03	1		0	0.0	☐	☐	☑	☐	
h00-006	K293083	0.00	0.00	9.56	18		2	1.5	☐	☐	☐	☑ 62Pa	
H00-004	K293088	0.00	0.00	9.84	19		2	1.5	☐	☐	☐	☑ 62Pa	
h00-006	K293095	0.00	0.00	0.03	0		0	0.0	☐	☐	☑	☐	
h00-006	K293099	0.00	0.00	15.20	476		43	4.1	☐	☐	☐	☑ 15A	
H00-005	K293067	2.26	4.13	0.03	1		0	0.1	☐	☐	☐	☐	
H00-005	K293068	4.13	6.10	0.03	4		0	0.0	☐	☐	☐	☐	
H00-005	K293069	6.10	9.14	0.03	2		0	0.0	☐	☐	☐	☐	
H00-005	K293070	9.14	12.19	0.03	2		0	0.0	☐	☐	☐	☐	
H00-005	K293071	12.19	15.24	0.03	2		0	0.0	☐	☐	☐	☐	
H00-005	K293072	15.24	18.29	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293073	18.29	21.34	0.03	3		0	0.0	☐	☐	☐	☐	
h00-006	K293074	21.34	24.38	0.03	2		0	0.0	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
h00-006	K293075	24.38	27.43	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293076	27.43	30.48	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293077	30.48	33.53	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293079	33.53	34.96	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293080	34.96	37.53	0.03	2		0	0.4	☐	☐	☐	☐	
h00-006	K293081	37.53	39.95	0.03	2		0	0.1	☐	☐	☐	☐	
h00-006	K293082	39.95	41.99	0.03	8		0	0.2	☐	☐	☐	☐	
h00-006	K293084	41.99	44.39	0.03	4		0	0.0	☐	☐	☐	☐	
h00-006	K293085	41.99	44.39	0.03	3		0	0.0	☑	☐	☐	☐	
H00-004	K293086	44.39	45.35	0.03	1		0	0.0	☐	☐	☐	☐	
H00-004	K293087	45.35	46.11	0.03	2		0	0.1	☐	☐	☐	☐	
H00-004	K293089	46.11	48.77	0.03	1		0	0.4	☐	☐	☐	☐	
H00-004	K293090	48.77	50.90	0.03	2		0	0.3	☐	☐	☐	☐	
H00-004	K293091	50.90	53.72	0.03	5		0	0.0	☐	☐	☐	☐	
H00-004	K293092	53.72	55.78	0.03	13		0	0.0	☐	☐	☐	☐	

Batch	Sample	From (m)	To (m)	Au g/t	As ppm	Hg ppm	Sb ppm	Tl ppm	¼ Dup	Crs. Dup	Blk	Standard	Comments
h00-006	K293093	55.78	57.91	0.03	9		0	0.0	☐	☐	☐	☐	
h00-006	K293094	57.91	60.96	0.03	3		0	0.0	☐	☐	☐	☐	
h00-006	K293096	60.96	64.01	0.03	5		0	0.0	☐	☐	☐	☐	
h00-006	K293097	60.96	64.01	0.03	6		1	0.0	☐	☑	☐	☐	
h00-006	K293098	64.01	65.53	0.03	6		1	0.0	☐	☐	☐	☐	
h00-006	K293100	65.53	68.58	0.03	3		0	0.0	☐	☐	☐	☐	
h00-006	K293101	68.58	71.63	0.03	2		0	0.0	☐	☐	☐	☐	
h00-006	K293102	71.63	74.68	0.03	3		0	0.0	☐	☐	☐	☐	

From (m)	To (m)	Structure Type	MapInfo Code	Attitude TCA	Attitude TRFE	Structure Count	Description	Mineral	Conc.	Mineral Texture
63.24	63.38	VN	37	70	NUL	3	3 quartz veinlets; <1cm, 1cm and 3cm wide, with tan (hematized?) selvages; Limonitic fractures as well as disseminated limonite throughout.			
65.88	65.89	VN	37	70	NUL	1	~1cm wide colloform quartz veinlet with tan (hematized?) and limonitic selvages.			

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

512,000 514,000 516,000 518,000 520,000 522,000

6,758,000 6,756,000 6,754,000 6,752,000 6,750,000 6,748,000 6,746,000

FIRST NATION LANDS

JOE 170 YF49950
JOE 168 YF49948
JOE 169 YF49949
JOE 166 YF49946
JOE 167 YF49947
JOE 164 YF49944
JOE 158 YF49938
JOE 165 YF49945
JOE 156 YF49936
JOE 163 YF49943
JOE 157 YF49937
JOE 154 YF49934
JOE 162 YF49942
JOE 155 YF49935
JOE 152 YF49932
JOE 161 YF49941
JOE 128 YF49908
JOE 153 YF49933
JOE 150 YF49930
JOE 160 YF49940
JOE 126 YF49906
JOE 151 YF49931
JOE 148 YF49928
JOE 159 YF49939
JOE 127 YF49907
JOE 124 YF49904
JOE 149 YF49929
JOE 146 YF49926
JOE 125 YF49905
JOE 122 YF49902
JOE 147 YF49927
JOE 144 YF49924
JOE 123 YF49903
JOE 120 YF49900
JOE 145 YF49925
JOE 142 YF49922
JOE 133 YF49913
JOE 121 YF49901
JOE 118 YF49898
JOE 143 YF49923
JOE 140 YF49920
JOE 132 YF49912
JOE 119 YF49899
JOE 116 YF49896
JOE 141 YF49921
JOE 138 YF49918
JOE 130 YF49910
JOE 117 YF49897
JOE 114 YF49894
JOE 139 YF49919
JOE 131 YF49911
JOE 56 YF49416
JOE 115 YF49895
JOE 112 YF49892
JOE 137 YF49917
JOE 54 YF49414
JOE 113 YF49893
JOE 110 YF49890
JOE 136 YF49916
JOE 129 YF49909
JOE 111 YF49891
JOE 108 YF49888
JOE 135 YF49915
JOE 55 YF49415
JOE 52 YF49412
JOE 109 YF49889
JOE 106 YF49886
JOE 134 YF49914
JOE 53 YF49413
JOE 50 YF49410
JOE 107 YF49887
JOE 104 YF49884
JOE 2 YC37092
JOE 51 YF49411
JOE 48 YF49408
JOE 105 YF49885
JOE 102 YF49882
JOE 1 YC37091
JOE 49 YF49409
JOE 46 YF49406
JOE 103 YF49883
JOE 100 YF49880
JOE 4 YC37094
JOE 13 YE43243
JOE 47 YF49407
JOE 44 YF49404
JOE 101 YF49881
JOE 98 YF49878
Joe 4
JOE 3 YC37093
JOE 15 YE43245
JOE 45 YF49405
JOE 42 YF49402
JOE 99 YF49879
JOE 96 YF49876
JOE 14 YE43244
JOE 43 YF49403
JOE 40 YF49400
JOE 11 YC98499
JOE 17 YE43247
JOE 97 YF49877
JOE 5 YC37095
JOE 16 YE43246
JOE 41 YF49401
JOE 38 YF49398
JOE 7 YC37097
JOE 19 YE43249
JOE 36 YF49396
JOE 95 YF49875
JOE 12 YC98500
JOE 18 YE43248
JOE 39 YF49399
JOE 21 YE43251
JOE 9 YC37099
Joe Creek
JOE 6 YC37096
JOE 23 YE43253
JOE 20 YE43250
JOE 37 YF49397
JOE 34 YF49394
JOE 68 YF49428
JOE 8 YC37098
JOE 22 YE43252
JOE 35 YF49395
JOE 32 YF49392
HART 13 YC37065
JOE 66 YF49426
JOE 10 YC37100
JOE 24 YE43254
JOE 25 YE43255
JOE 67 YF49427
JOE 64 YF49424
JOE 33 YF49393
HART 15 YC37067
JOE 27 YE43257
HART 14 YC37066
HART 17 YC37069
LES 12 YC88020
LES 9 YC37089
JOE 65 YF49425
JOE 62 YF49422
JOE 31 YF49391
King
LES 7 YC37087
JOE 26 YE43256
JOE 29 YE43259
JOE 63 YF49423
HART 16 YC37068
LES 11 YC88019
JOE 60 YF49420
HART 4 YC30014
HART 9 YC37061
HART 18 YC37070
LES 5 YC37085
JOE 28 YE43258
JOE 58 YF49418
HART 12 YC37064
LES 10 YC37090
JOE 83 YF49443
JOE 61 YF49421
Ace
LES 8 YC37088
HART 45 YD00309
JOE 30 YE43260
JOE 82 YF49442
JOE 59 YF49419
HART 3 YC30013
HART 10 YC37062
LES 1 YC37081
LES 3 YC37083
LES 6 YC37086
JOE 57 YF49417
HART 11 YC37063
HART 6 YC37058
Les 2
Queen
Jack
HART 43 YD00307
JOE 81 YF49441
JOE 91 YF49451
HART 98 YF47858
LES 4 YC37084
HART 46 YD00310
JOE 73 YF49433
HART 2 YC30012
HART 41 YD00305
JOE 80 YF49440
JOE 92 YF49452
HART 97 YF47857
HART 5 YC37057
LES 2 YC37082
HART 44 YD00308
JOE 79 YF49439
JOE 89 YF49449
HART 7 YC37059
HART 40 YD35300
JOE 71 YF49431
JOE 72 YF49432
JOE 78 YF49438
JOE 90 YF49450
Grumpy
HART 96 YF47856
HART 39 YD35299
HART 42 YD00306
HART 27 YC37079
HART 19 YC37071
HART 38 YD35298
JOE 69 YF49429
JOE 77 YF49437
JOE 87 YF49447
HART 8 YC37060
HART 21 YC37073
HART 37 YD35297
JOE 70 YF49430
HART 28 YC37080
HART 95 YF47855
HART 35 YD35295
JOE 76 YF49436
JOE 88 YF49448
HART 123 YF49143
JOE 93 YF49453
HART 23 YC37075
HART 20 YC37072
JOE 75 YF49435
JOE 85 YF49445
HART 22 YC37074
HART 58 YF47818
HART 36 YD35296
JOE 94 YF49454
HART 125 YF49145
JOE 74 YF49434
JOE 86 YF49446
HART 155 YF49175
HART 33 YD35293
HART 24 YC37076
HART 25 YC37077
HART 57 YF47817
HART 56 YF47816
HART 143 YF49163
JOE 84 YF49444
HART 147 YF49167
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HART 124 YF49144
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HART 162 YF49182
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HART 110 YF49130
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HART 88 YF47848
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HART 87 YF47847
HART 86 YF47846
HART 84 YF47844
HART 85 YF47845
HART 83 YF47843

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

3 4[illegible]

nlbrp hwihv

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

FILE: ../Figures/FX-Claim_Locations.WOR | DATE: MARCH 2017