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ASSESSMENT REPORT

describing

**HAND TRENCHING, GEOLOGICAL MAPPING, PROSPECTING AND
GEOCHEMICAL SAMPLING**

at the

HARTLESS JOE PROPERTY

Hart, Les, Joe and HJ Claims

NTS 105D/15

Latitude 60°55'N; Longitude 134°50'W

Field work performed from June 25 to July 18, 2018

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

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

March 2019

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INTRODUCTION

The Hartless Joe property covers high-grade gold-silver mineralization in southern Yukon. The mineral occurrences are predominantly characterized as low-sulphidation, epithermal-type; however, a number of geological and geochemical features suggest that the property is also highly prospective for submarine, exhalative-type mineralization. It is wholly owned by Strategic Metals Ltd.

This report describes hand trenching, geological mapping, prospecting and geochemical sampling, which were conducted from June 25 to July 18, 2018. Archer, Cathro & Associates (1981) Limited managed the program on behalf of Strategic Metals. The author supervised and participated in the exploration program and interpreted all resulting data. The author's Statement of Qualifications is provided in Appendix I, and a Statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Hartless Joe property is located in south-central Yukon at latitude 60°55' north and longitude 134°50' west on NTS map sheet 105D/15 (Figure 1). The property covers an area of approximately 11,735 ha (117.35 km²).

The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Hart 1	YC26563	March 1, 2037
Hart 2-4	YC30012-YC30014	March 1, 2037
Hart 5-28	YC37057-YC37080	March 1, 2037
Hart 29-40	YD35289-YD35300	March 1, 2034
Hart 41-46	YD00305-YD00310	March 1, 2031
Hart 47-98	YF47807-YF47858	March 1, 2028
Hart 99-163	YF49119-YF49183	March 1, 2026
Joe 1-10	YC37091-YC37100	March 1, 2037
Joe 11-12	YC98499-YC98500	March 1, 2032
Joe 13-30	YE43243-YE43260	March 1, 2031
Joe 31-94	YF49391-YF49454	March 1, 2028
Joe 95-170	YF49875-YF49950	March 1, 2026
Les 1-10	YC37081-YC37090	March 1, 2037
Les 11-12	YC88019-YC88020	March 1, 2031
HJ 1-239	YE93801-YE94039	September 26, 2019

* Expiry dates include 2018 work, which has been filed for assessment credit but has not yet been accepted.

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

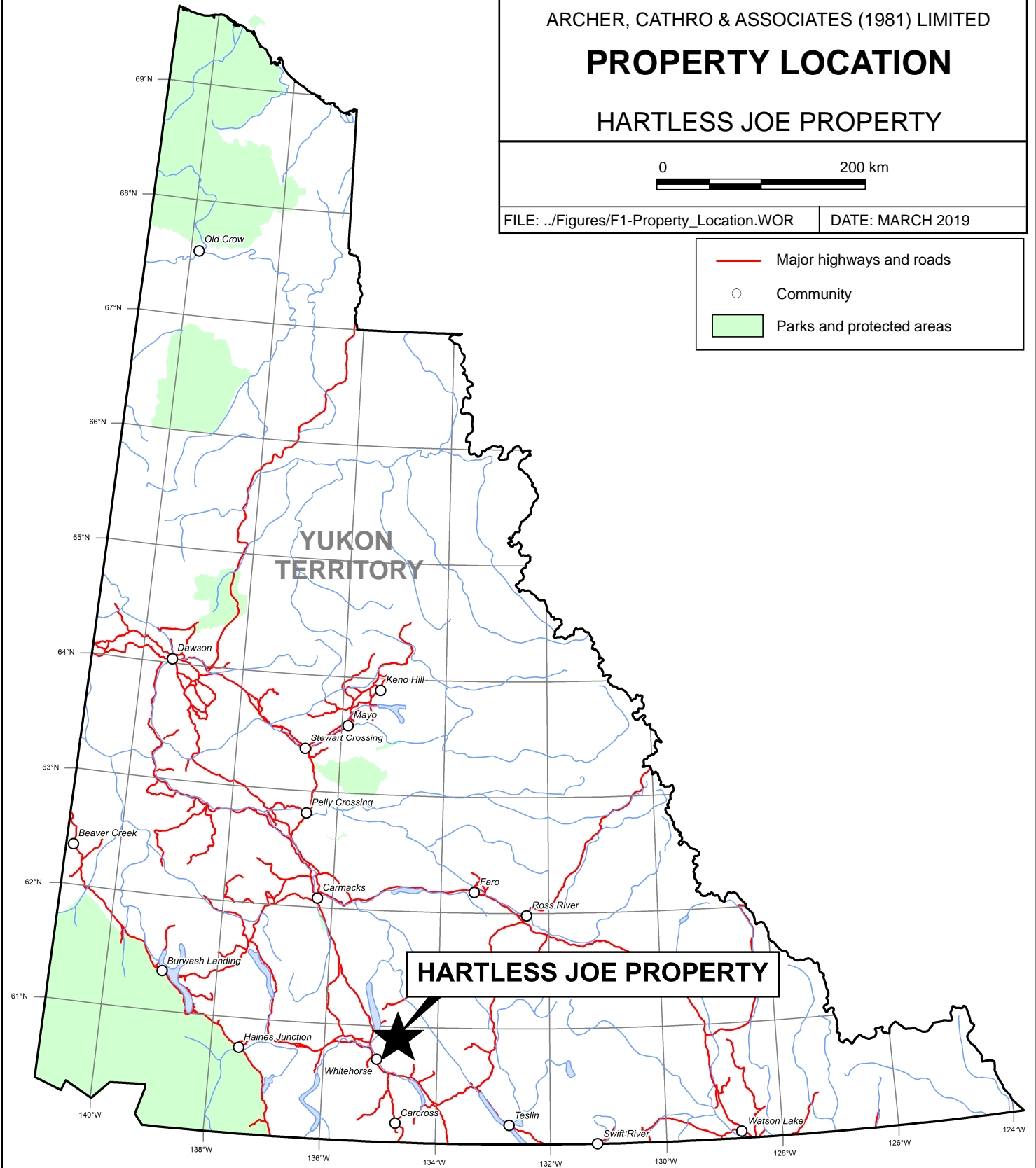
HARTLESS JOE PROPERTY

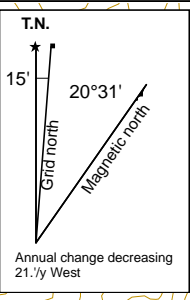
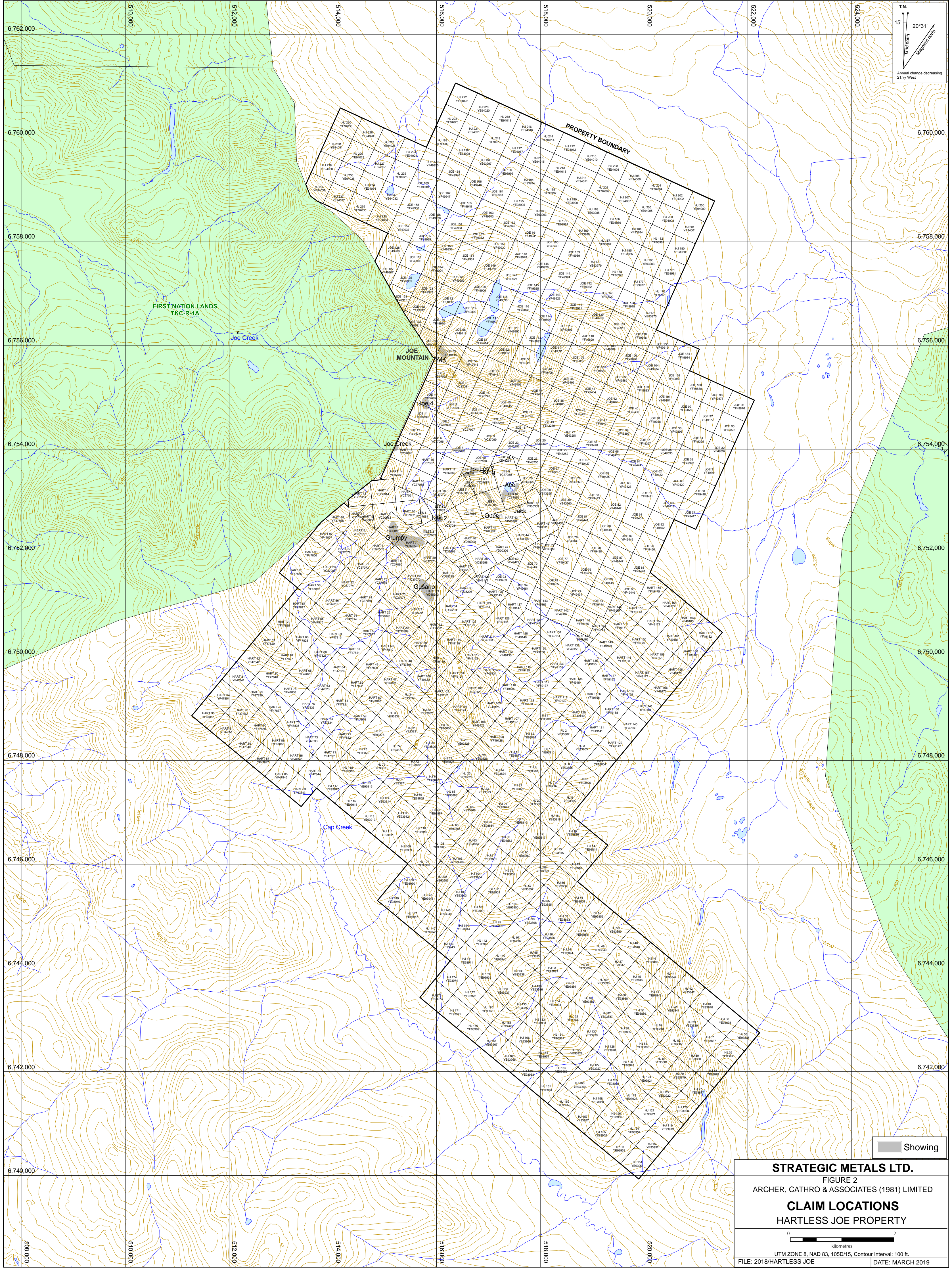


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DATE: MARCH 2019

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





Showing

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

0 2
kilometres

UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.
FILE: 2018/HARTLESS JOE DATE: MARCH 2019

In 2018, mobilization of camp gear, personnel and supplies to and from the property was provided by a Bell 206B helicopter operated by Capital Helicopters (1995) Inc. from its base at the Whitehorse Airport, located 24 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 mineral exploration. Work areas in the north-central part of the property were found to have limited potential for heritage resources, and no further heritage resource work was recommended.

HISTORY AND PREVIOUS WORK

The earliest record of staking and exploration in the vicinity of the Hartless Joe property dates from the late 1960s. In 1967, J. Smith recorded the Ben 1 to 22 claims after discovering the Ace Showing, a low-sulphide quartz vein. Silicified material collected from a shallow hand trench dug across a northwest-trending shear zone within this showing reportedly returned 27.4 g/t gold, 78.9 g/t silver, 2.2% lead and 1.9% zinc over 10 cm (Deklerk and Traynor, 2017).

In 1968, Esensee Exploration Ltd. performed soil geochemical sampling and ground magnetic and electromagnetic surveys over part of the Ben claim block. Although the surveys suggested the presence of two possible gold-bearing fissure veins (Deklerk and Traynor, 2017), 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, 2017). No record of work is available for this claim, and it subsequently expired.

In 1997, C. Hart discovered two showings in the area of the current 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, 2017).

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 identified a mineralized, quartz-rich vein or exhalative horizon at the King Showing, with an ambiguous,

bedding-parallel orientation. Chip sampling across the horizon yielded an a weighted average grade of 60 g/t, 554 g/t silver, 5.01% lead and 0.35% copper over 1.2 m (Morton, 2016).

In 2016, Strategic Metals performed prospecting, hand trenching, geochemical sampling and 367.3 m of diamond drilling in six holes. Prospecting resulted in the discovery of a flat-lying, gold-bearing quartz vein at the Queen Showing, where a continuous chip sample returned 462 g/t gold, 79.6 g/ silver, 0.28% copper and 1% lead over 40 cm. A second prospecting discovery, the Jack Showing, was identified 350 m east of the Queen Showing, where a chip sample across another flat-lying quartz vein yielded 4.53 g/t gold. At the King Showing, hand trenching exposed the mineralized horizon along a strike length of 82 m. Five diamond drill holes were collared from a single pad in a fanned array designed to intersect the down-dip extension of the King horizon. Three of the holes, HJ-16-01, -03, and -05, returned elevated values for gold and silver, but failed reproduce the strong results obtained from surface samples. A sixth drill hole, targeting the Queen Showing, cut the footwall stratigraphy observed in outcrop but failed to intersect the gold-rich quartz vein. A complete report pertaining to this work can be found in Morton (2017), while results are summarized in the Diamond Drilling section below.

In 2017, Strategic Metals conducted a two-phase exploration program on the property, consisting of prospecting and soil sampling. This work resulted in the discovery of the MK and Gusano showings, where rock samples returned 37.5 g/t gold and 49.8 g/t gold, respectively. Both showings cover bedding-parallel quartz veins adjacent to felsic sills or flows. Soil samples returned a number of high values for gold and copper in the vicinity of the MK Showing (Morton, 2018).

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 1035 to 2010 m above sea level. Local topography consists of steep, unvegetated slopes separated by broad glacial valleys with marshy moss-covered floors. Outcrops 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 straddles the boundary between the Whitehorse Trough overlap assemblage and Cache Creek terrane – an accretionary complex made up of a mixture of ocean and arc volcanic rocks, pelagic sedimentary rocks, ultramafic bodies, and exotic limestone

containing Early Permian fauna (Figure 3). In the southern Yukon, Cache Creek terrane is overthrust by Stikinia and Quesnellia terranes, which are interpreted to have originated as a single, continuous magmatic arc. In the early Mesozoic, the Stikinia-Quesnellia arc lay outboard of Laurentia and was separated from the continent by the intervening Cache Creek Ocean. Shallow water carbonates and syn-orogenic sedimentary rocks of Whitehorse Trough record the Late Triassic to Early Jurassic closure of the Cache Creek Ocean and the accretion of the Stikinia-Quesnellia arc onto the western Laurentian margin (Nelson et al., 2013).

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, it 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 and 2018 further refined the stratigraphic and structural relationships in the map area (Bordet, 2017; Bordet et al., 2019).

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

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

Map Suite	Age	Map Unit	Description
Mount Nansen Group	Mid-Cretaceous	mKN	Byng Creek Volcanics: light weathering, black to light orange, quartz-eye rhyolite and dacite flows, tuffs, breccias and assorted fragmental volcanics with tourmaline breccia.
Whitehorse Suite	Mid-Cretaceous	mKgW	Biotite-hornblende granodiorite, hornblende-quartz diorite and hornblende diorite; leucocratic, biotite-hornblende granodiorite with sparse grey-pink potassium feldspar phenocrysts.
		mKqW	Grey, medium to coarse grained, generally equigranular granitic rocks of felsic composition.
Teslin Plutonic Suite	Lower Cretaceous	EKgT	White to pale grey weathering, recessive, leucocratic, fine to coarse grained equigranular hornblende-biotite granite, granodiorite, quartz monzonite and quartz monzodiorite, locally with sparse grey and pink potassium feldspar phenocrysts; associated aplitic phases and dykes.
Laberge Group	Lower to Middle Jurassic	JL	Poorly sorted, medium bedded to massive arkosic sandstone and minor shale with interbeds and thick members of resistant heterolithic pebble and boulder conglomerate; recessive, dark brown

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FIGURE 3

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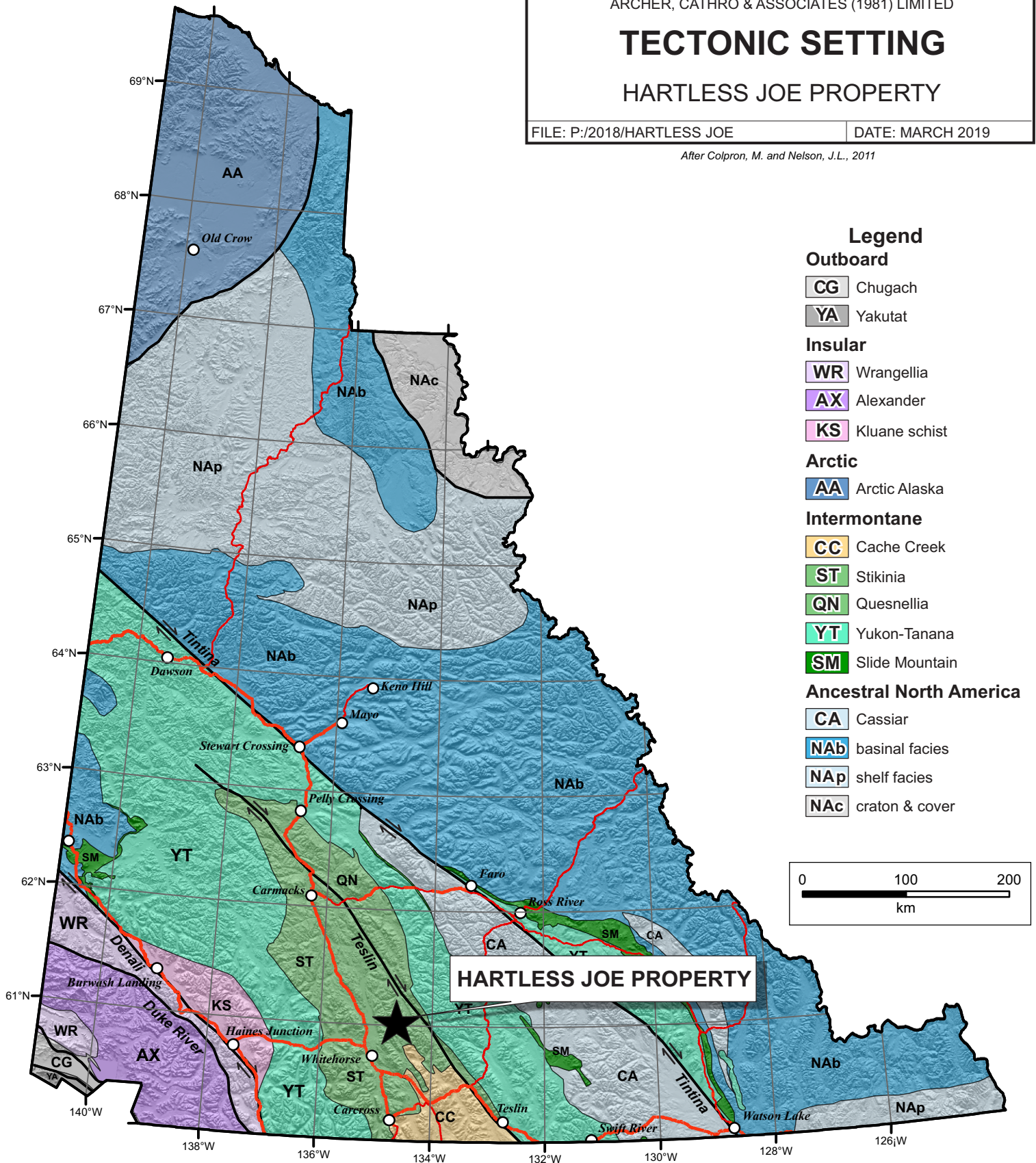
TECTONIC SETTING

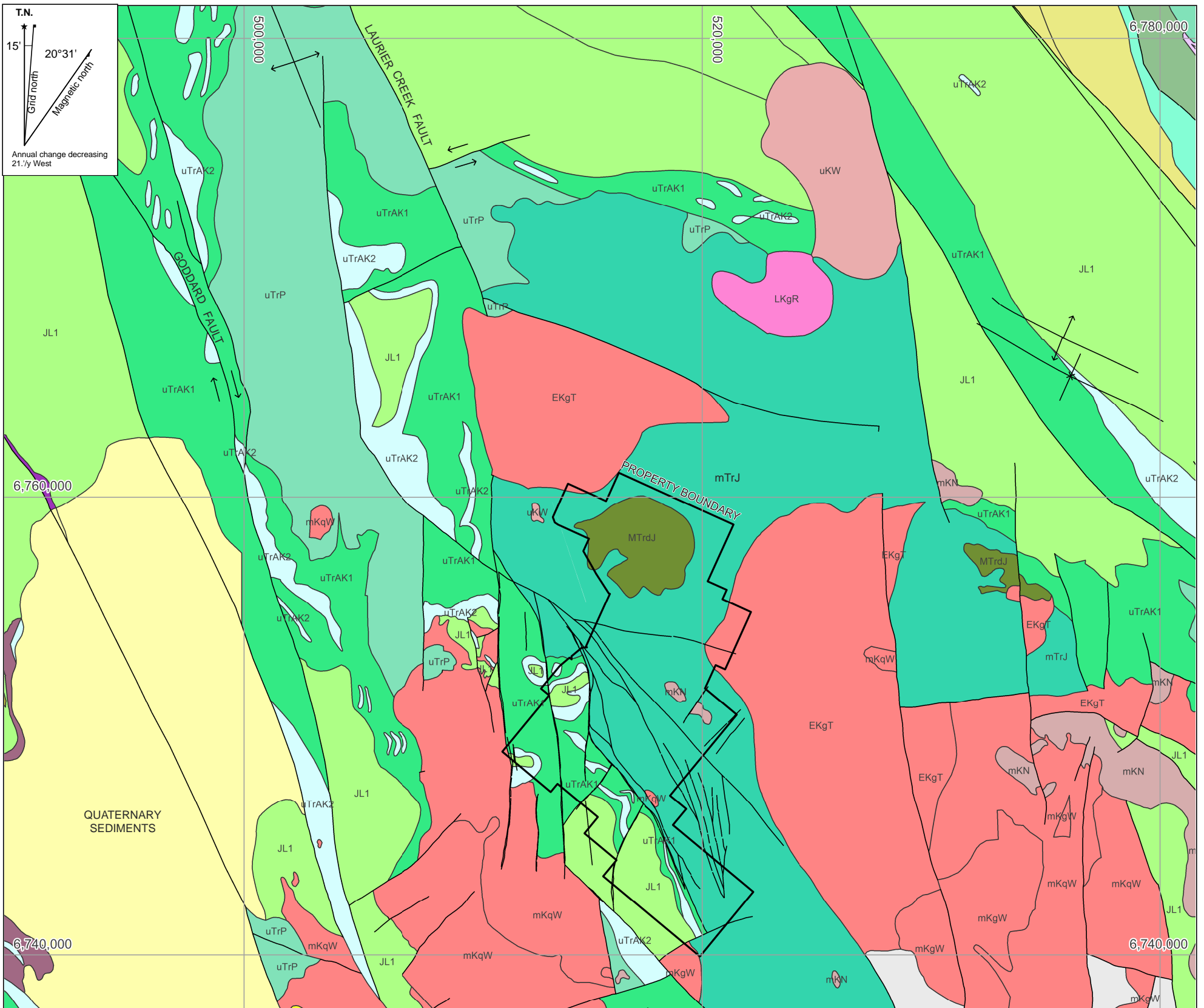
HARTLESS JOE PROPERTY

FILE: P:/2018/HARTLESS JOE

DATE: MARCH 2019

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





LATE CRETACEOUS

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

MIDDLE CRETACEOUS

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

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

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

LOWER CRETACEOUS

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

LOWER TO MIDDLE JURASSIC

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

UPPER TRIASSIC

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

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

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

MIDDLE TRIASSIC

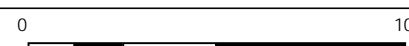
MTrdJ Joe Mountain Formation: Discrete plutons of leucocratic, coarse-grained and texturally variable, pyroxene gabbro.

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

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FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY
HARTLESS JOE PROPERTY



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

FILE: 2018\HARTLESS JOE

DATE: MARCH 2019

			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.

Recent work by the YGS has led to a reassignment of Joe Mountain Formation from Stikina to Cache Creek terrane. The reassignment is based on lithological, geochronological and geochemical affinities with Cache Creek arc assemblages elsewhere in the cordillera. It is suggested that an intra-oceanic, volcanic arc system, represented by the Kutcho and Sitlika assemblages in northern British Columbia and the Joe Mountain and Michie formation in southern Yukon, developed within the Cache Creek Ocean during Permian to Triassic time. This arc eventually became part of the Cache Creek composite terrane during amalgamation in the Late Triassic to Early Jurassic (Bordet et al., 2019)

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

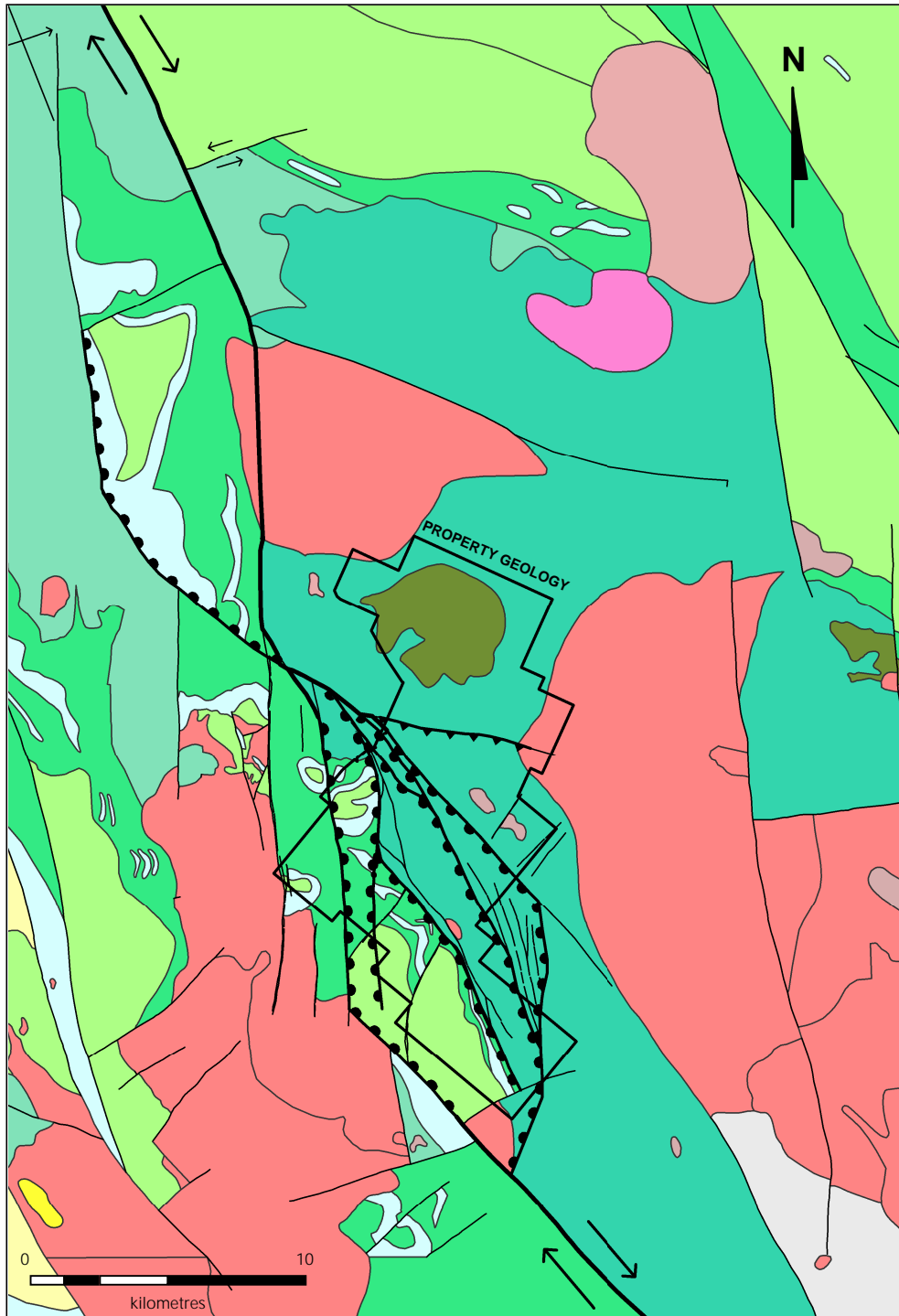
Overlying this basement are sedimentary rocks of the Whitehorse Trough overlap assemblage. The trough was a fault-bounded, marginal basin that formed off the west coast of North America and filled with up to seven kilometres of largely arc-derived clastic rocks. Units comprising the assemblage extend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

Three large Cretaceous aged plutons are located near the claim block: the Lower Cretaceous M'Clintock Lakes and Laurier Creek plutons, which are located immediately east and north of the property, respectively; and the mid-Cretaceous Cap Creek pluton, which is located immediately west of the property. The Laurier Creek, (formerly M'Clintock River), and M'Clintock Lakes plutons are part of the Teslin Plutonic Suite, which is characterized as homogenous, coarse grained, biotite-hornblende granodiorite to quartz monzonite. The Cap Creek pluton is represented by several phases, but dominantly comprises medium to coarse grained, biotite-hornblende granodiorite and quartz-diorite. In the Hartless Joe area, three phases of dykes are recognized. The oldest phase consists of diabase dykes that cut solely rocks of the Joe Mountain Formation, while two other are felsic phases that appear to cut the entire stratigraphy (Bordet, 2017; Hart, 1997). Northwest of the property, age dating of the felsic dykes have returned dates of 138 to 136 Ma, representing a previously unrecognized magmatic suite, informally named the Goddard Suite (Bordet, 2019).

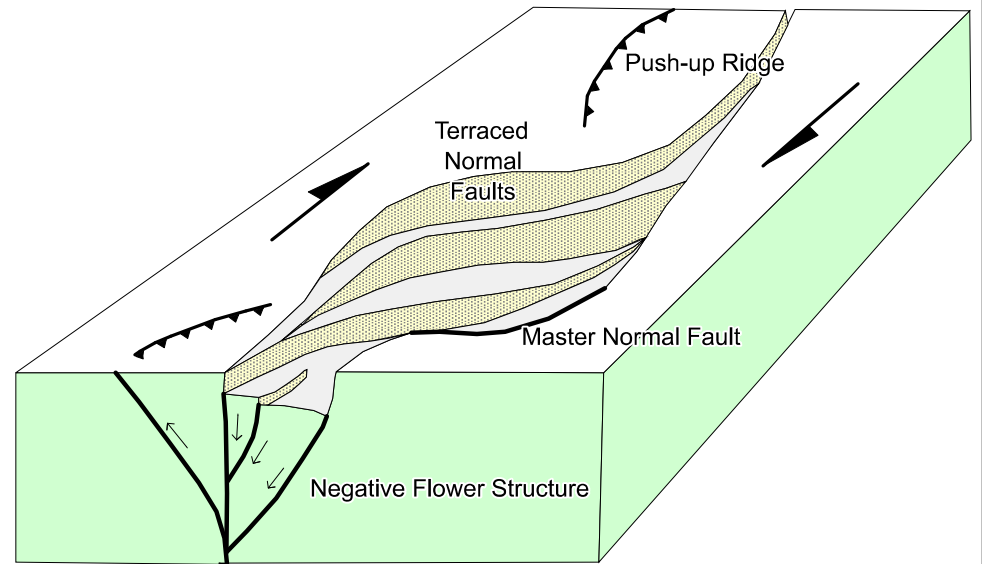
In the Hartless Joe area, the north- to northwest-trending Laurier Creek fault marks the western boundary of the Joe Mountain Formation. It forms a distinctive valley to the north of the property, and may have facilitated strike-slip motion and/or reactivation of a pre-existing structure (Bordet, 2017). 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 throughout 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

Prior to 2018, no systematic geological mapping had been performed on the Hartless Joe property by Strategic Metals, or preceding exploration companies. Between 1992 and 1995, the area was subject to a regional mapping initiative by the YGS, which produced maps at 1:50,000



LOOKING SOUTH



* Adapted from Dooley and McClay, 1997.

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FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL INTERPRETATION

HARTLESS JOE PROPERTY

scale and an accompanying report (Hart, 1997). The property geology illustrated on Figure 6 is derived from this work.

In 2018, Strategic Metals performed detailed geological mapping at 1:5000 scale, in the vicinity of the Grumpy and Gusano showings, in the west-central part of the property (Figure 7). The following is a summary based on Strategic Metals' work and observations made by other exploration geologists who have worked on the property at various times.

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.

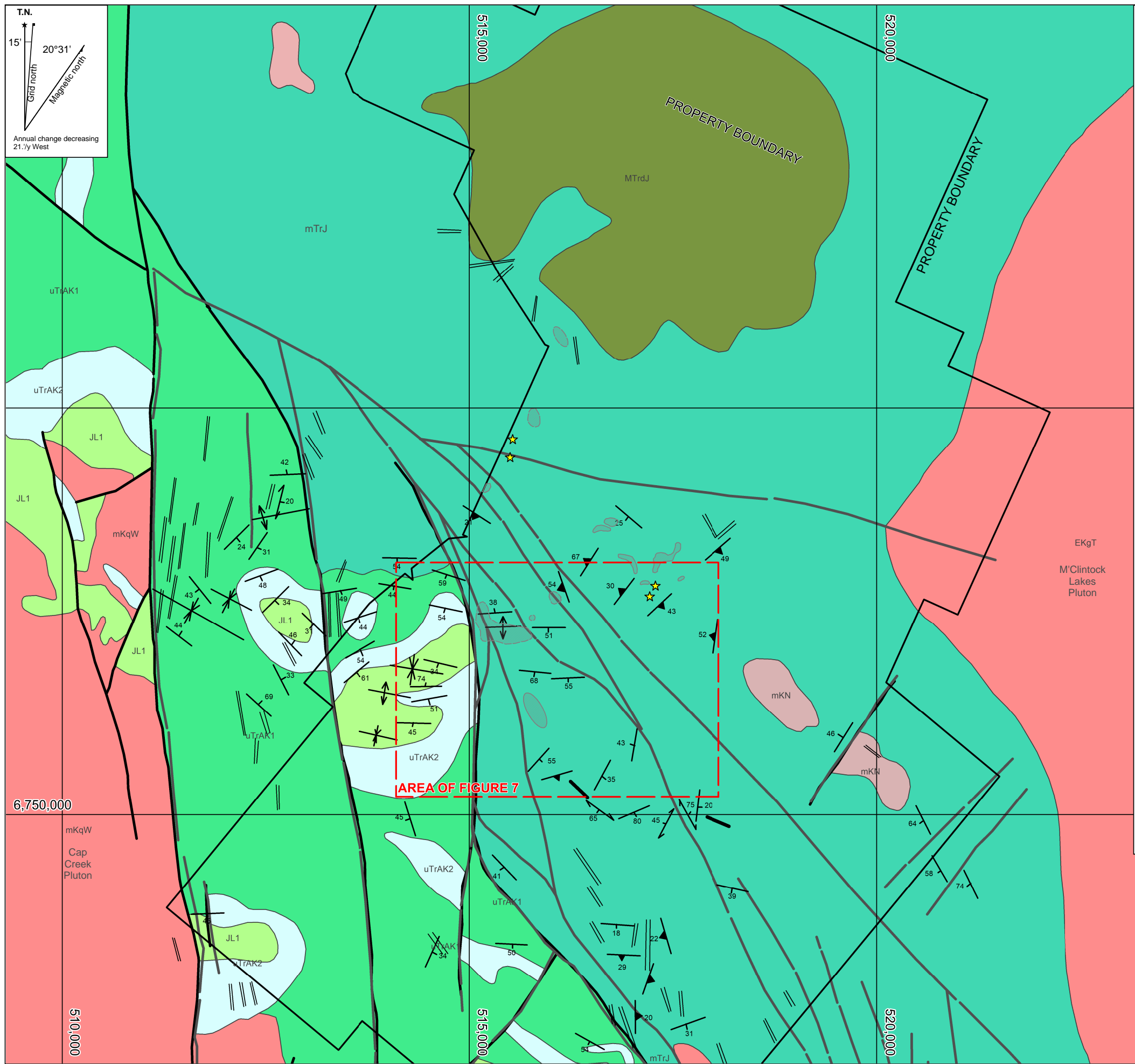
Aksala Formation sediments are found within the southwestern portion of the claim block, comprising the Casca Member (uTrAK1) and the Hancock Member (uTrAK2), a distinctive limey sub-unit. Aksala Formation strata are lithologically variable and in this area include limey siltstone, siltstone, shale, 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 western part of the property, a series of east-trending antiforms and synforms occur within Aksala Formation and Joe Mountain Formation rocks.

The Grumpy-Gusano area is underlain by feldspar- and pyroxene-phyric basalt flows and massive microdiorite (mTrJ3), which are interbedded with volcanic conglomerate, sandstone and mudstone (mTrJ2). Clasts within the conglomerate are sub-angular, aligned, two to three centimetres long and composed of dominantly fine grained mafic rock and/or mudstone. In this area, variably pyritic and flow-banded, quartz-phyric rhyolite (rhy) is observed in two discrete orientations: as a series of north-northwest trending, sub-vertical dykes, and as an approximately three to four metre thick horizon that parallels bedding in the adjacent sedimentary units. Rhyolite in the latter orientation sits on top of a recessive, thin-bedded, limey mudstone (mTrJms) that is exposed in scarce outcrops within a broad talus field. Bedding in the area dips moderately to steeply to the east and southeast.

Elsewhere on the property, three major mafic dyke swarms follow an arc that is roughly concave to the east.



	Showing		Anticline		Syncline
	Flow surface		Bedding		Schistosity or shear zone
	Fault				

MIDDLE CRETACEOUS

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

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

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

LOWER CRETACEOUS

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

LOWER TO MIDDLE JURASSIC

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

UPPER TRIASSIC

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

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

MIDDLE TRIASSIC

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

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

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

Basaltic andesite and gabbro dykes.

Algoma-type iron formation

STRATEGIC METALS LTD.

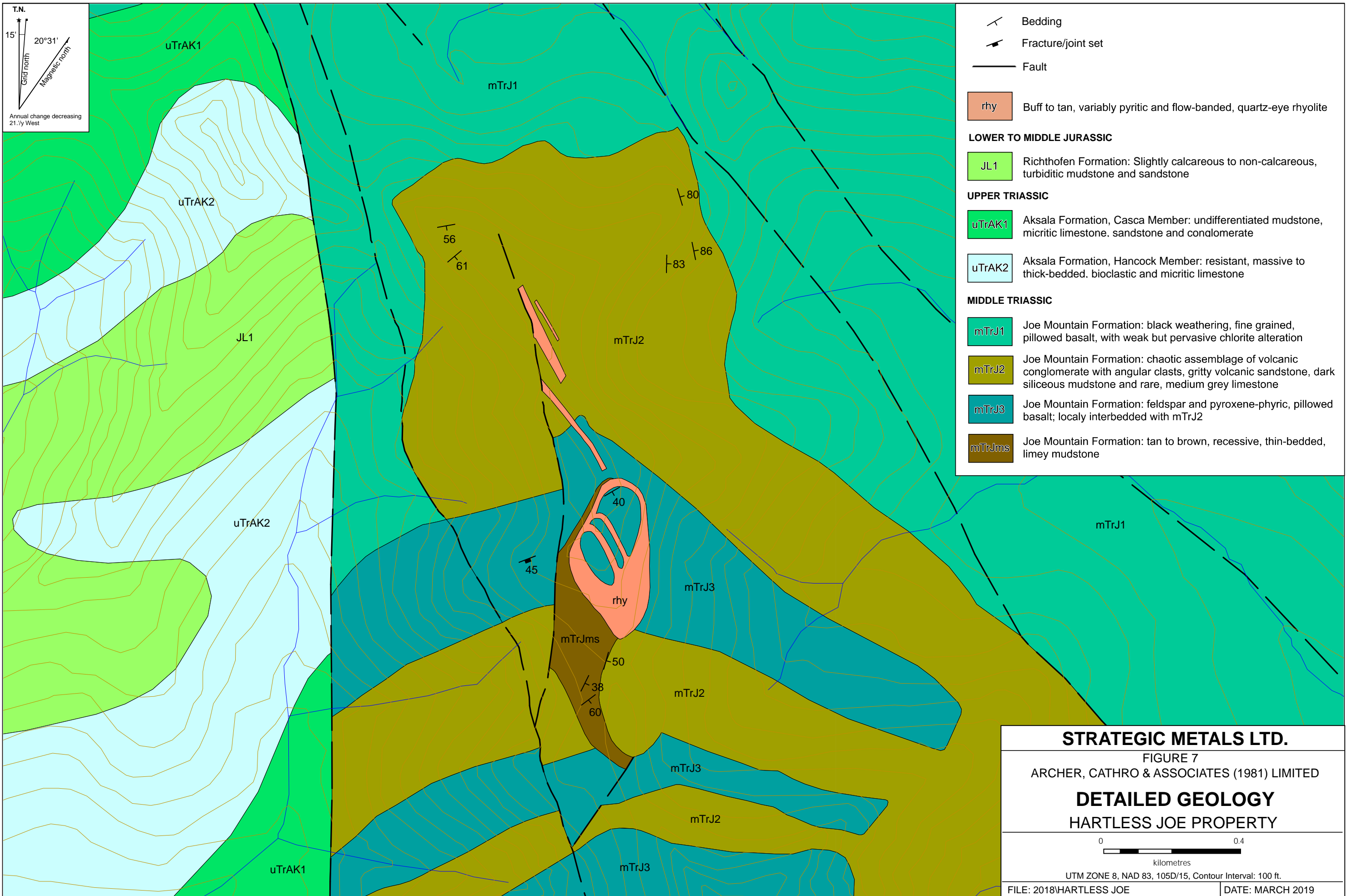
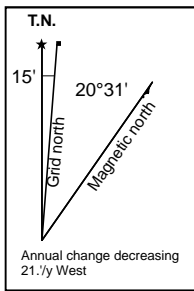
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY
HARTLESS JOE PROPERTY

0 2
kilometres

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

FILE: 2018/HARTLESS JOE	DATE: MARCH 2019
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	Bedding
	Fracture/joint set
	Fault
	Buff to tan, variably pyritic and flow-banded, quartz-eye rhyolite
LOWER TO MIDDLE JURASSIC	
	Richthofen Formation: Slightly calcareous to non-calcareous, turbiditic mudstone and sandstone
UPPER TRIASSIC	
	Aksala Formation, Casca Member: undifferentiated mudstone, micritic limestone, sandstone and conglomerae
	Aksala Formation, Hancock Member: resistant, massive to thick-bedded, bioclastic and micritic limestone
MIDDLE TRIASSIC	
	Joe Mountain Formation: black weathering, fine grained, pillowed basalt, with weak but pervasive chlorite alteration
	Joe Mountain Formation: chaotic assemblage of volcanic conglomerate with angular clasts, gritty volcanic sandstone, dark siliceous mudstone and rare, medium grey limestone
	Joe Mountain Formation: feldspar and pyroxene-phyric, pillowed basalt; locally interbedded with mTrJ2
	Joe Mountain Formation: tan to brown, recessive, thin-bedded, limey mudstone

STRATEGIC METALS LTD.

FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

DETAILED GEOLOGY
HARTLESS JOE PROPERTY

0 0.4

kilometres

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

FILE: 2018/HARTLESS JOE	DATE: MARCH 2019
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PROPERTY MINERALIZATION AND HAND TRENCHING

The main exploration target at the Hartless Joe property is gold- and silver-bearing epithermal-style mineralization that occurs within veins, silica- and carbonate- breccias, and as stratigraphically-controlled horizons. Nine showings of this type have been identified on the property and are referred to as the Grumpy, Gusano, Joe Creek, Les 2, MK, Ace, King, Queen and Jack. Many of the occurrences, where they are observed in outcrop, have an ambiguous, bedding-parallel orientation. As a result, most of the showings in this report are described as veins, but some may be exhalative in nature.

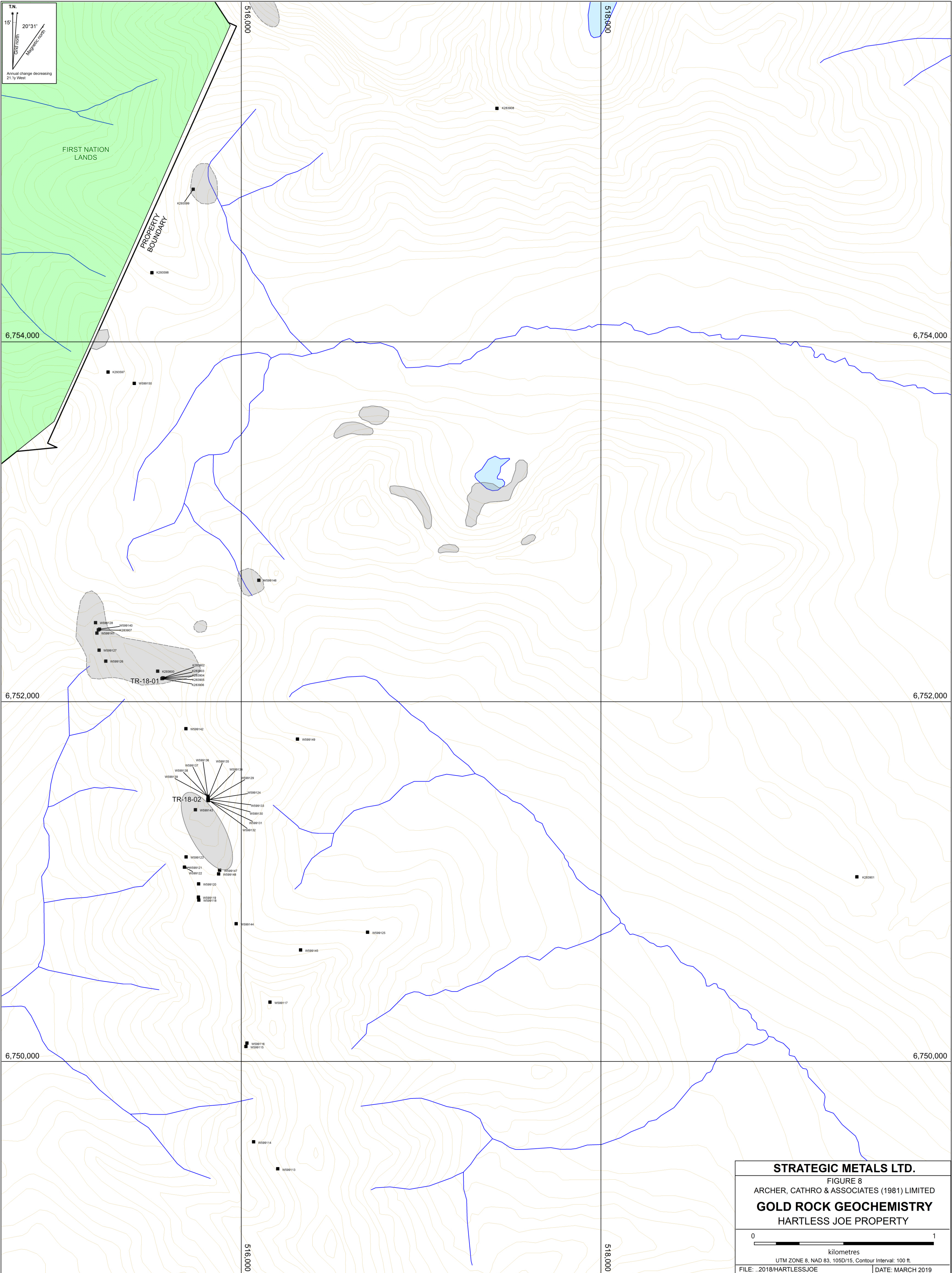
The nine occurrences are characterized by varying amounts of gold and silver, with trace to minor amounts of copper, lead and zinc. Mercury- and antimony-in-rock values are erratically distributed and not appreciably enriched in zones of mineralization. Arsenic is strongly associated with gold mineralization at the Grumpy Showing, where samples have yielded arsenic values of up to 5310 ppm. The remaining gold occurrences are characterized by low arsenic values. A tenth mineral occurrence, the Joe 5 Showing, covers quartz breccia that is characterized by high copper to gold ratios. All of the mineral occurrences are hosted in Joe Mountain Formation volcanics and volcanoclastics.

Algoma-type iron formations, comprising quartz-hematite-magnetite mineralization, have also been identified within Joe Mountain Formation. The first occurrence was noted by Piercy (2005) in the area of the Joe 4 Showing, and was interpreted as a hydrothermal-exhalative precipitate developed in association with a submarine vent. Algoma-type iron formations are commonly found in association with volcanogenic massive sulphide (VMS) mineralization and are usually formed further from the heat source. Work by Strategic Metals has identified several other quartz-hematite occurrences on the property (Figure 6).

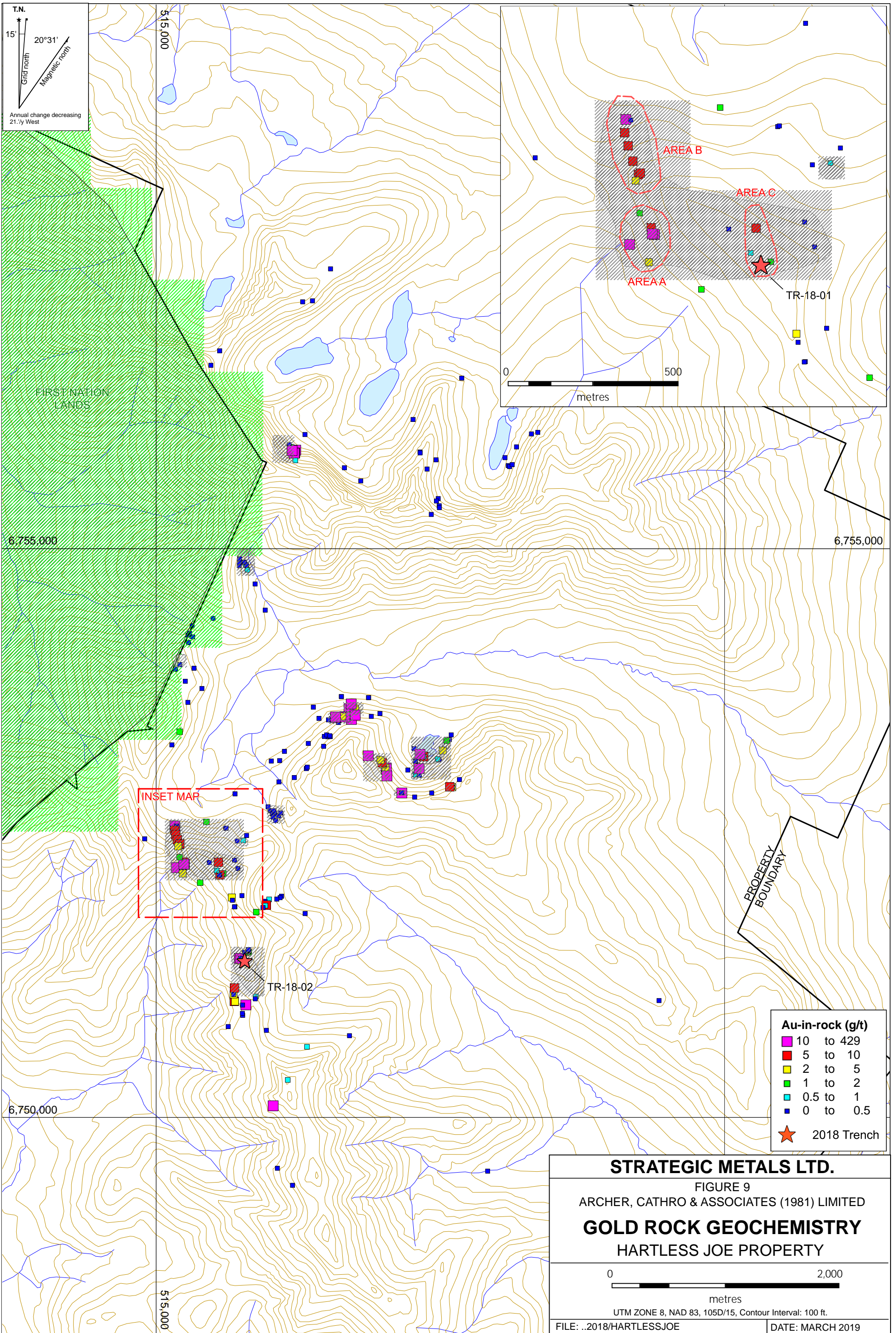
In 2018, Strategic Metals collected a total of 36 rock samples from the property, and completed two hand trenches (TR-18-01 and TR-18-02). Trench TR-18-02 was continuously chip sampled across bedrock exposed over its entire length. Trench TR-18-01 failed to reach bedrock, so continuous talus composite samples were collected along the trench floor. This work resulted in a total of 14 chip and composite samples. The 2018 rock and trench sample locations are plotted on Figure 8. Results from all programs since 2005 are illustrated thematically for gold, silver and copper on Figures 9 to 11, respectively.

The 2018 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. Following this, >100 micron material remaining on the screen was analyzed for coarse gold by fire assay with a gravimetric finish (Au-SCR21). The fine fraction was analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analysed for gold by fire assay and inductively coupled plasma-mass spectroscopy finish (Au-ICP21). Overlimit silver values were determined

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



STRATEGIC METALS LTD.	
FIGURE 8	
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED	
GOLD ROCK GEOCHEMISTRY	
HARTLESS JOE PROPERTY	
0 1	
kilometres	
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.	
FILE: ...2018/HARTLESSJOE	DATE: MARCH 2019



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

FIRST NATION
 LANDS

INSET MAP

TR-18-02

AREA B

AREA C

AREA A

TR-18-01

0 500
 metres

PROPERTY
 BOUNDARY

Au-in-rock (g/t)	
10 to 429	★ 2018 Trench
5 to 10	
2 to 5	
1 to 2	
0.5 to 1	
0 to 0.5	

STRATEGIC METALS LTD.

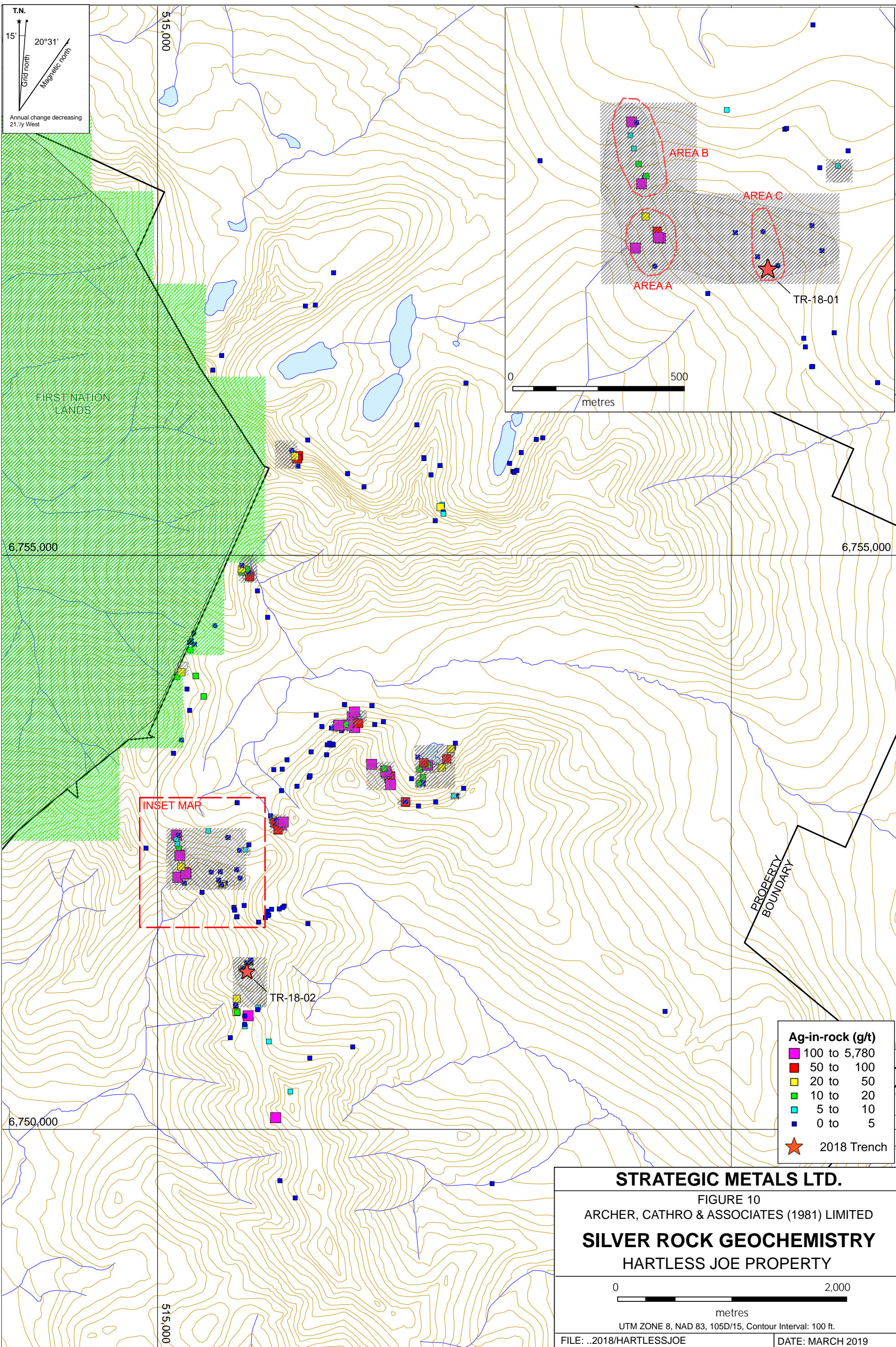
FIGURE 9
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD ROCK GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 2,000
 metres

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

FILE: ..2018/HARTLESSJOE

DATE: MARCH 2019



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

FIRST NATION
 LANDS

INSET MAP

TR-18-02

AREA B

AREA C

AREA A

TR-18-01

PROPERTY
 BOUNDARY

Ag-in-rock (g/t)	
100 to 5,780	[Pink square]
50 to 100	[Red square]
20 to 50	[Yellow square]
10 to 20	[Green square]
5 to 10	[Cyan square]
0 to 5	[Blue square]
2018 Trench	[Red star]

STRATEGIC METALS LTD.

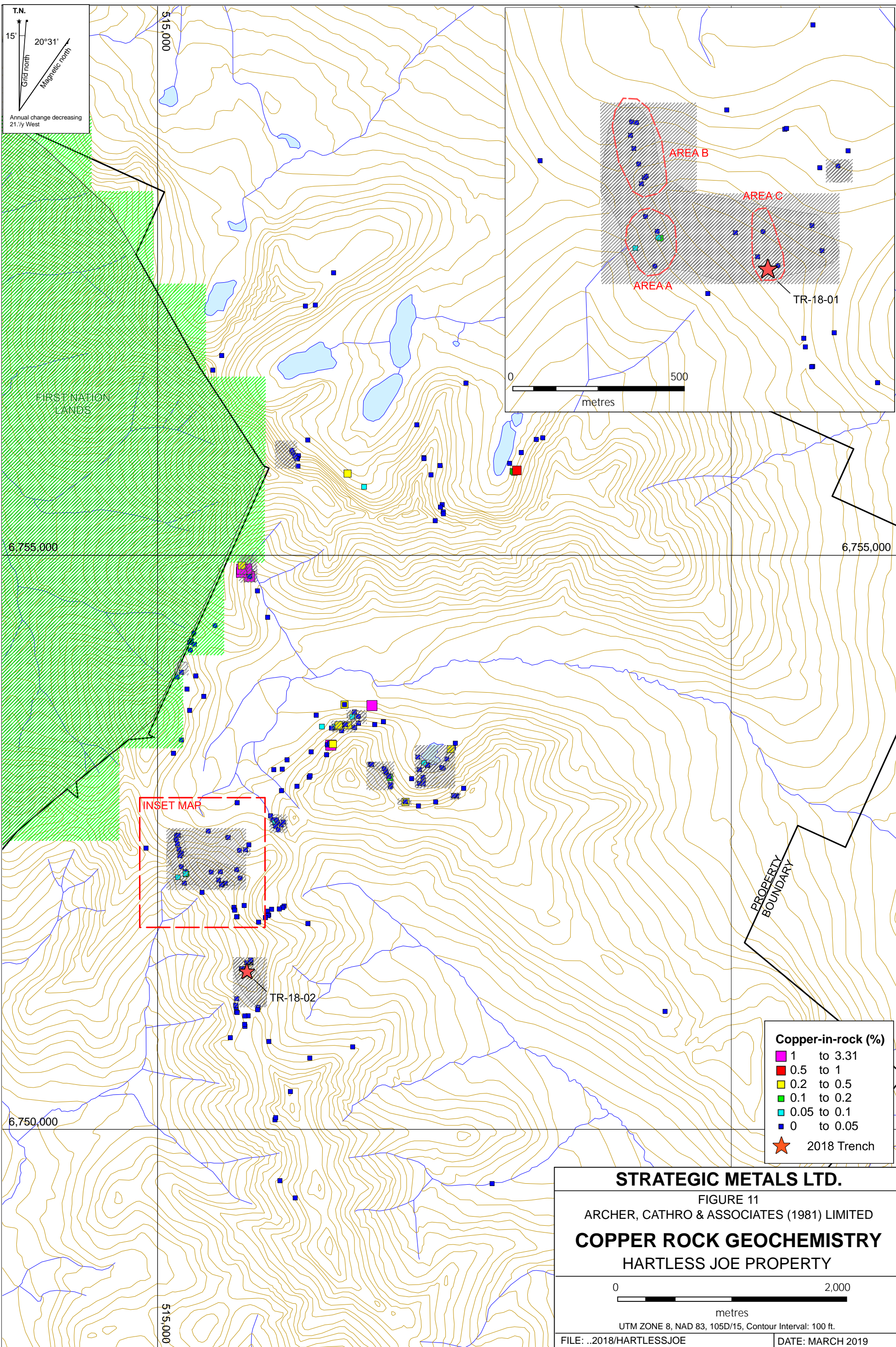
FIGURE 10
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER ROCK GEOCHEMISTRY
 HARTLESS JOE PROPERTY



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

FILE: ..2018/HARTLESSJOE

DATE: MARCH 2019



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

FIRST NATION
 LANDS

INSET MAP

TR-18-02

AREA B

AREA C

AREA A

TR-18-01

0 500
 metres

PROPERTY
 BOUNDARY

Copper-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
★	2018 Trench

STRATEGIC METALS LTD.

FIGURE 11
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER ROCK GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 2,000
 metres

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

FILE: ..2018/HARTLESSJOE

DATE: MARCH 2019

by four acid digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Ag-OG46). Rock Sample Descriptions and Certificates of Analysis for the 2018 samples are provided in Appendices III and IV respectively.

The 2018 work program focused on the west-central part of the property where hand trenching resulted in new exposures of mineralization at the Grumpy and Gusano showings. Descriptions of all showings on the Hartless Joe property are provided in the following paragraphs.

The **Grumpy Showing** lies in the west-central part of the property, at the head of Cap Creek. It covers Joe Mountain Formation volcanics and volcanoclastics, on the eastern side of a major north-trending fault. The showing was discovered by Craig Hart and Julie Hunt (1997) during a YGS regional mapping program, and 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 delineated three separate areas of mineralization: 1) quartz-carbonate talus on a steep, west-facing slope, located immediately uphill from the fault zone (Area A); 2) a 30 cm wide, shallowly dipping quartz-rich horizon (Area B), located 180 m north of Area A; and 3) quartz float associated with a sub-vertical rhyolite dyke and prominent topographic linear (Area C), located 300 m east of Area A. Float samples collected from all three areas have yielded high gold values. Many samples from areas A and B are enriched in arsenic, and some of the samples also have very high silver content. Table II compiles the most significant assay results from the Grumpy Showing.

Table II - Significant Results from the Grumpy Showing

Sample	Area	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
M011214	A	251	1270	413	148	0.02	0.93	0.13
W599126*	A	62.3	4380	1050	785	0.09	0.96	0.05
B395831	A	55.3	5010	143	1590	0.09	0.55	0.06
C105714	B	27	466	190	76	0.01	0.1	0.34
B395832	A	18.5	2310	213	364	0.11	0.73	0.06
M011209	A	15.65	4540	139	1350	0.01	0.62	0.03
C105707	C	9.97	3.8	66	13	0.01	0.04	0.06
W599140*	B	8.39	14.45	407	4.55	0.01	0.03	0.02
W599128*	B	7.88	11.65	358	4.57	0.01	0.03	0.04
K283907*	B	7.26	3.08	5770	9.24	0	0	0.01
B395833	A	5.32	50	5310	17	0.01	0.02	0.01
M011211	A	3.54	82.7	51	16	0.01	0.05	0.12
C105716	B	3.03	4	3770	7	0	0	0
W599141*	B	2.98	181	252	55.9	0.02	0.01	0.21
M011212	A	2.17	339	94	98	0.02	0.11	0.14
B395830	A	0.8	211	453	80	0.02	0	0.01

* Sample collected in 2018

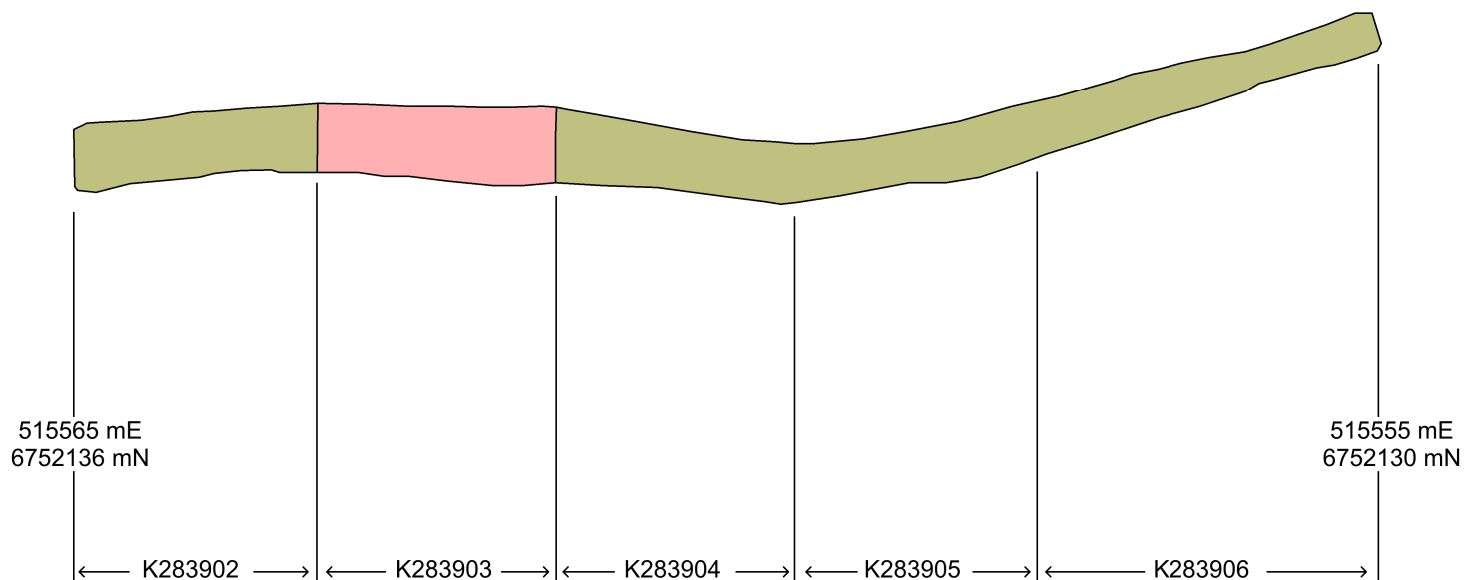
Area A covers an approximately 100 m by 100 m zone of quartz-carbonate talus that occurs within a narrow gully and on an adjacent, steep west-facing slope. The talus typically exhibits a syntaxial or comb texture, and sulphide minerals appear as millimetre-scale bands and blebs. Sulphide minerals comprise 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). Rocks from this area have yielded grades of up to 251 g/t gold and 5010 g/t silver.

Area B comprises a 30 cm thick, banded, quartz-rich vein or exhalative horizon, which has been traced along a 25 m strike length and is the source of a 200 m long float train of mineralized talus. It is hosted within a volcanic conglomerate (mTrJ1), located immediately above the contact with pillowed basalt (mTrJ1). Bedding measurements in overlying volcanoclastic rocks dip steeply to the south, and the horizon appears to be aligned sub-parallel with this orientation. Mineralization comprises ribbons of arsenopyrite, lesser pyrite and trace chalcopyrite, which is rimmed by malachite. In 2018, outcrop samples collected from the vein returned grades of up to 8.39 g/t gold and 181 g/t silver.

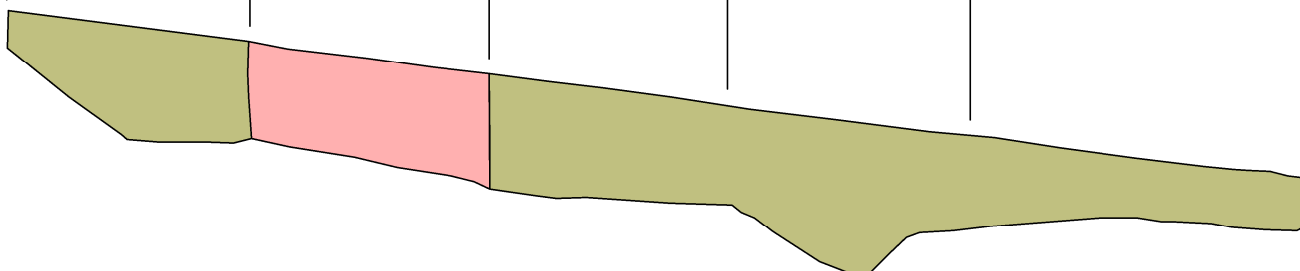
Area C covers a north-trending fault that forms a prominent topographic linear. Wallrocks are volcanoclastic rocks and a series of steeply-dipping, northwest-trending rhyolite dykes, which converge with the fault. Grab samples of quartz, collected from the topographic linear, have assayed up to 9.97 g/t gold. In 2018, a hand trench (TR-18-01) was excavated, perpendicular to the linear, in order to expose the source of the mineralized float. The trench failed to reach bedrock, but talus and subcrop along the floor of the trench was sampled continuously for 11 m. One sample, across a section of abundant orange weathering quartz, hosting trace amounts of fine grained pyrite and galena, returned 9.57 g/t gold over two metres. A cross section of the trench is illustrated on Figure 12.



The **Gusano Showing** lies 600 m south of the Grumpy Showing, immediately uphill from the surface trace of the fault that crosses Area C. It covers a 600 m by 200 m talus field of banded and mineralized quartz boulders in an area of recessive, thin-bedded, calcareous mudstone. Samples from milky quartz boulders (up to 40 cm in diameter), hosting bands and disseminations of pyrite, arsenopyrite and galena, have yielded values of up to 49.8 g/t gold and 365 g/t silver. In 2018, a 29 m long hand trench (TR-18-02) exposed a dark orange weathering, banded quartz vein or exhalative horizon. The vein is estimated to be 50 cm wide, and is immediately adjacent to a moderately south-dipping, quartz-phyric rhyolite sill or flow. Continuous chip samples taken across the vein and rhyolite wallrock returned a weighted average grade of 1.31 g/t gold over seven metres. A photograph of the showing, with the fault illustrated in red, is provided as Photo 1, while a cross section of trench TR-18-02 is illustrated on Figure 13.

PLAN
VIEW



CROSS-
SECTION



-  Dark black, variably calcareous volcanoclastic rock
-  Orange weathering, fractured and banded quartz, hosting trace fine grained pyrite and galena, and with dendritic manganese on fracture surfaces

STRATEGIC METALS LTD.

FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH TR-18-01
HARTLESS JOE PROPERTY



UTM ZONE 8, NAD 83, 116A/04

FILE: ../2018/HARTLESS JOE

DATE: MARCH 2019

PLAN
VIEW

515816 mE
6751449 mN

W599129

W599130

W599131

W599132

W599133

W599134

W599135

W599136

W599137




W599138

W599139

515813 mE
6751474 mN

000° N

CROSS-
SECTION

-  Dark orange weathering, weakly calcareous, basaltic andesite
-  Dark orange and punky weathering, banded quartz
-  Dark orange weathering, manganiferous and pyritic, banded rhyolite

STRATEGIC METALS LTD.

FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH TR-18-02
HARTLESS JOE PROPERTY

0 metres 6

UTM ZONE 8, NAD 83, 116A/04

FILE: ../2018/HARTLESS JOE

DATE: MARCH 2019

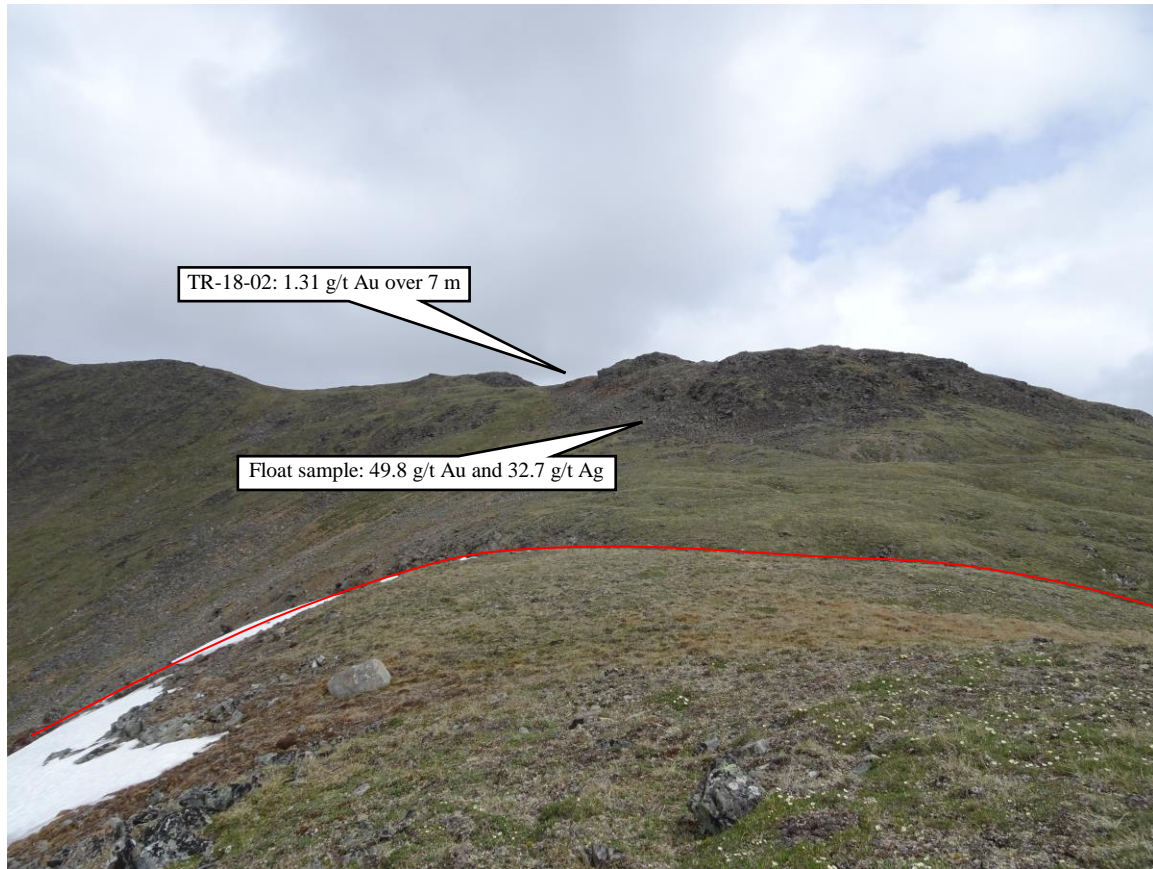


Photo 1 – Looking east at the Gusano Showing (fault illustrated in red)

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). In 2018, a float sample consisting of a 5 cm wide quartz vein in basalt, with clots of galena and pyrite, returned 212 g/t silver. The source of the float has not been identified. 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
W599146*	0.27	212	2	1	0.02	0.08	0.02

* Sample collected in 2018

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 mineralized 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

The **Ace Showing** is located 420 m southeast of the King Showing, and covers a 10 cm wide, flat-lying, quartz-carbonate vein or exhalative horizon, 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 vein, 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, 2017). Sampling of mineralized talus in the area has returned up to 190.5 g/t gold and 5780 g/t silver (Wengzynowski, 2006). In 2016, four outcrop samples of the vein, 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

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 **MK Showing** was discovered in 2017, and is located 1920 m north-northeast of the Joe Creek Showing. It covers a shallowly dipping quartz vein that occupies the margin of an approximately four metre wide, stratigraphy-parallel, leucocratic dyke. Five rock samples of the vein, each hosting varying amounts of galena, arsenopyrite, pyrite and minor chalcopyrite, returned an average grade of 23.8 g/t gold and 56.8 g/t silver, with peak values of 37.5 g/t gold and 91.7 g/t silver. Copper values were generally low.

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. It is located near a boulder field of Algoma-type quartz-hematite boulders (Figure 6). 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 (Wengzynowski, 2006). In 2018, a sample of rusty weathering and malachite-stained, quartz-after-calcite breccia, with abundant fine grained pyrite and chalcopyrite, yielded 2.27% copper. The source of the float has not been identified. 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
K293599*	0.01	11.7	7	0	2.27	0.00	0.34

* Sample collected in 2018

SOIL GEOCHEMISTRY

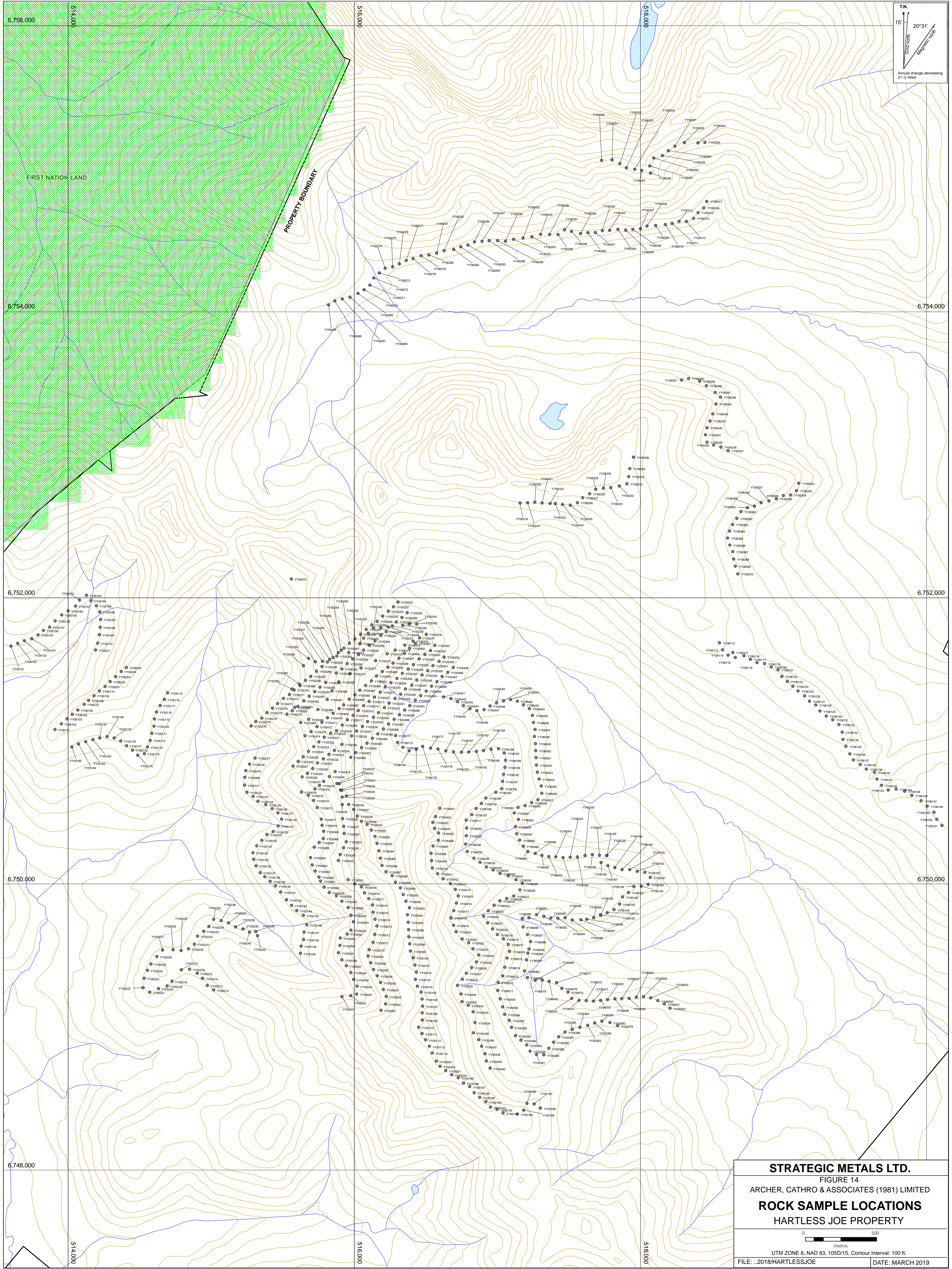
Most soil geochemical sampling performed between 2005 and 2018 has been conducted on widely spaced, reconnaissance traverses across the core of the Hartless Joe property. Tighter-spaced, grid sampling has only been done in the vicinity of the Grumpy and Ace showings.

In 2018, Strategic Metals collected 821 grid and contour soil samples, largely to the south of the Gusano Showing. The 2018 sample locations are shown on Figure 14, while results from all programs for gold, silver, copper, arsenic, lead and zinc are illustrated thematically on Figures 15 to 20, respectively. Certificates of Analysis for the 2018 samples are provided in Appendix IV.

Soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 15 to 50 cm deep holes dug by handheld auger. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma and atomic emission spectroscopy finish (Au-ICP21).

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

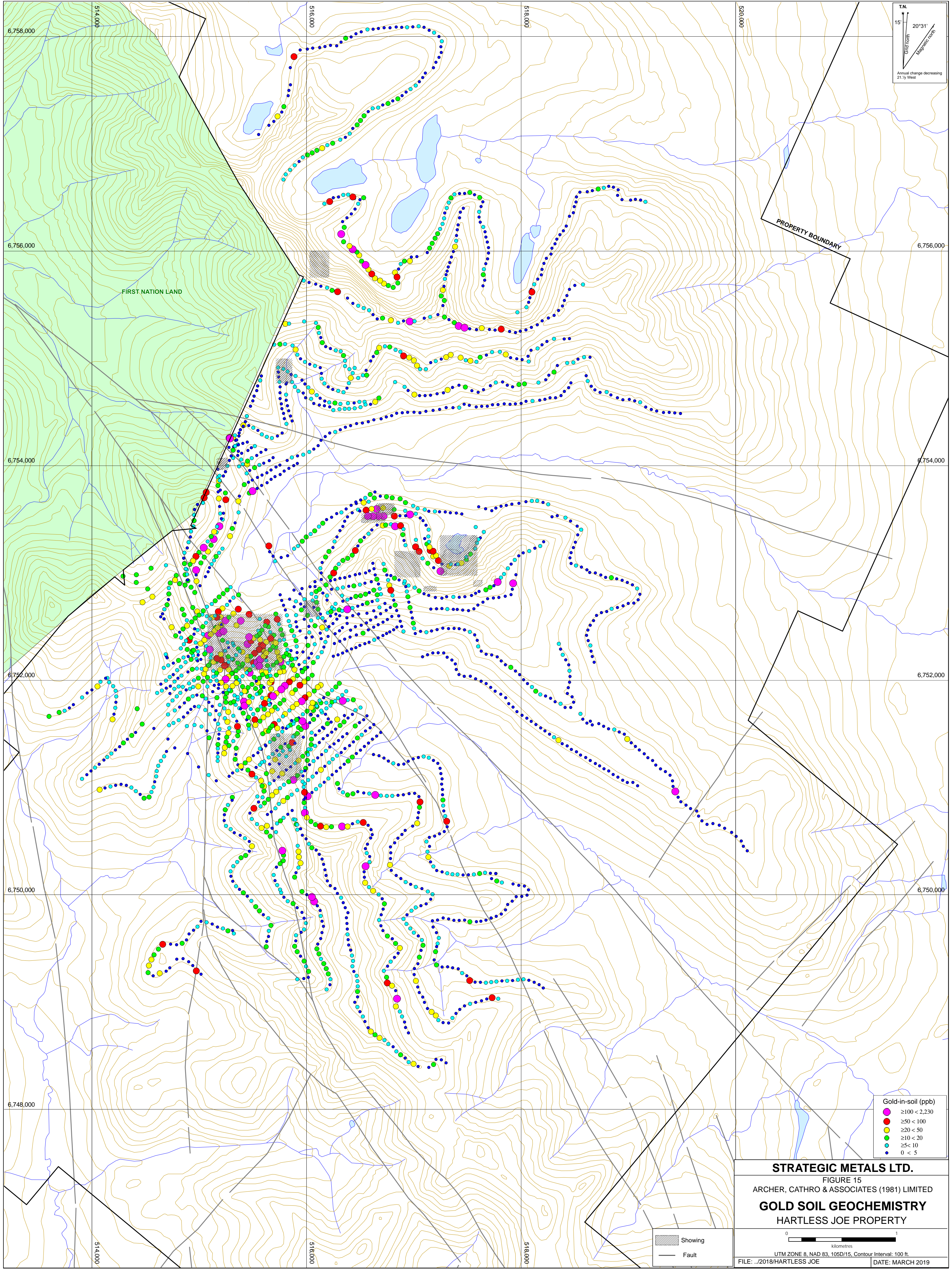
Moderate to strong gold, silver and lead values have also been identified in a number of other areas on the property, forming clusters up to 300 m long near some of the showings. Arsenic and



STRATEGIC METALS LTD.
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ROCK SAMPLE LOCATIONS
HARTLESS JOE PROPERTY

0 500
metres
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ..2018/HARTLESSJOE DATE: MARCH 2019



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

FIRST NATION LAND

PROPERTY BOUNDARY

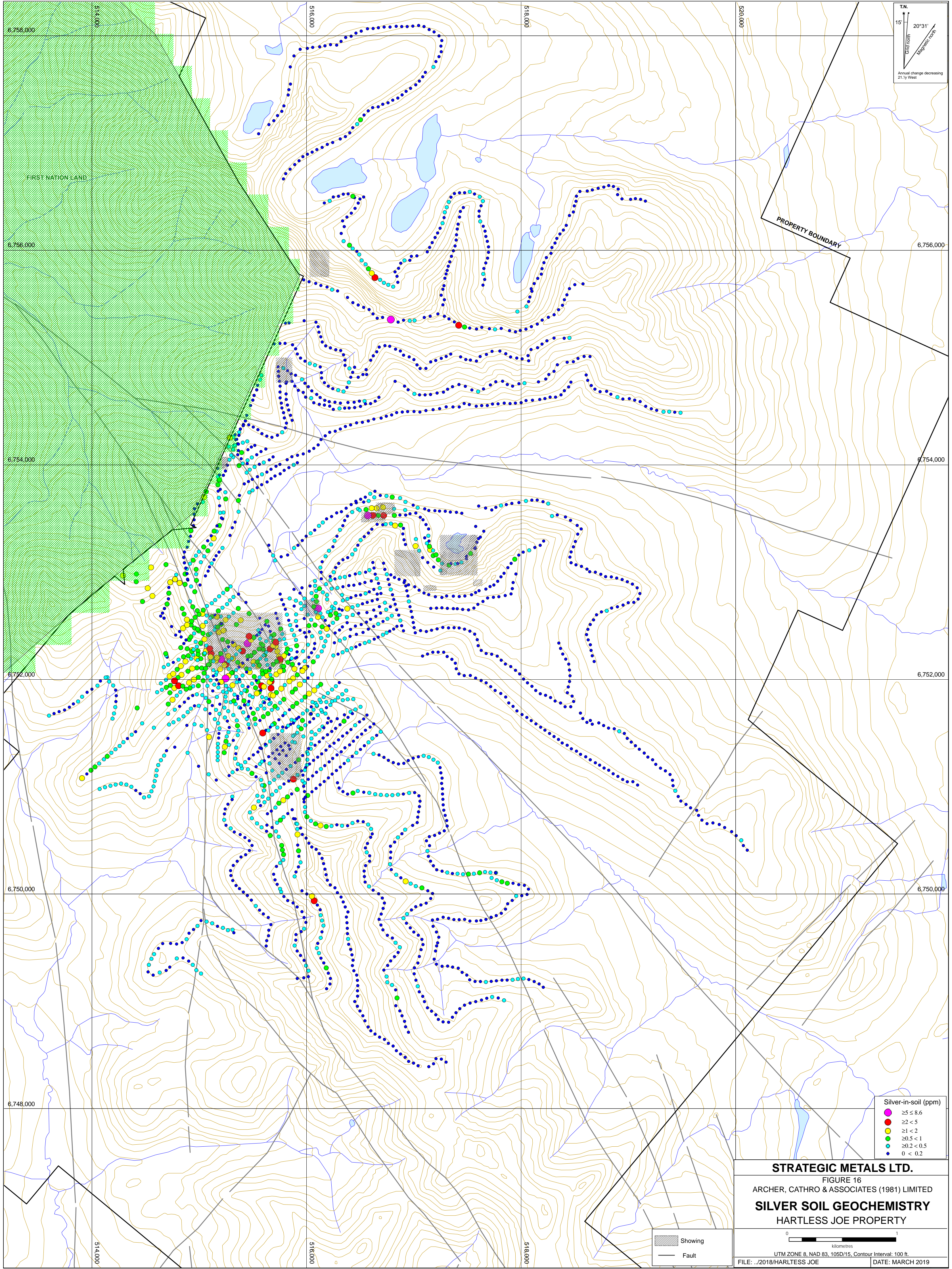
Gold-in-soil (ppb)
 ● ≥100 < 2,230
 ● ≥50 < 100
 ● ≥20 < 50
 ● ≥10 < 20
 ● ≥5 < 10
 ● 0 < 5

Showing
 Fault

STRATEGIC METALS LTD.
 FIGURE 15
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD SOIL GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1
 kilometres

UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.
 FILE: ../2018/HARTLESS JOE DATE: MARCH 2019



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

PROPERTY BOUNDARY

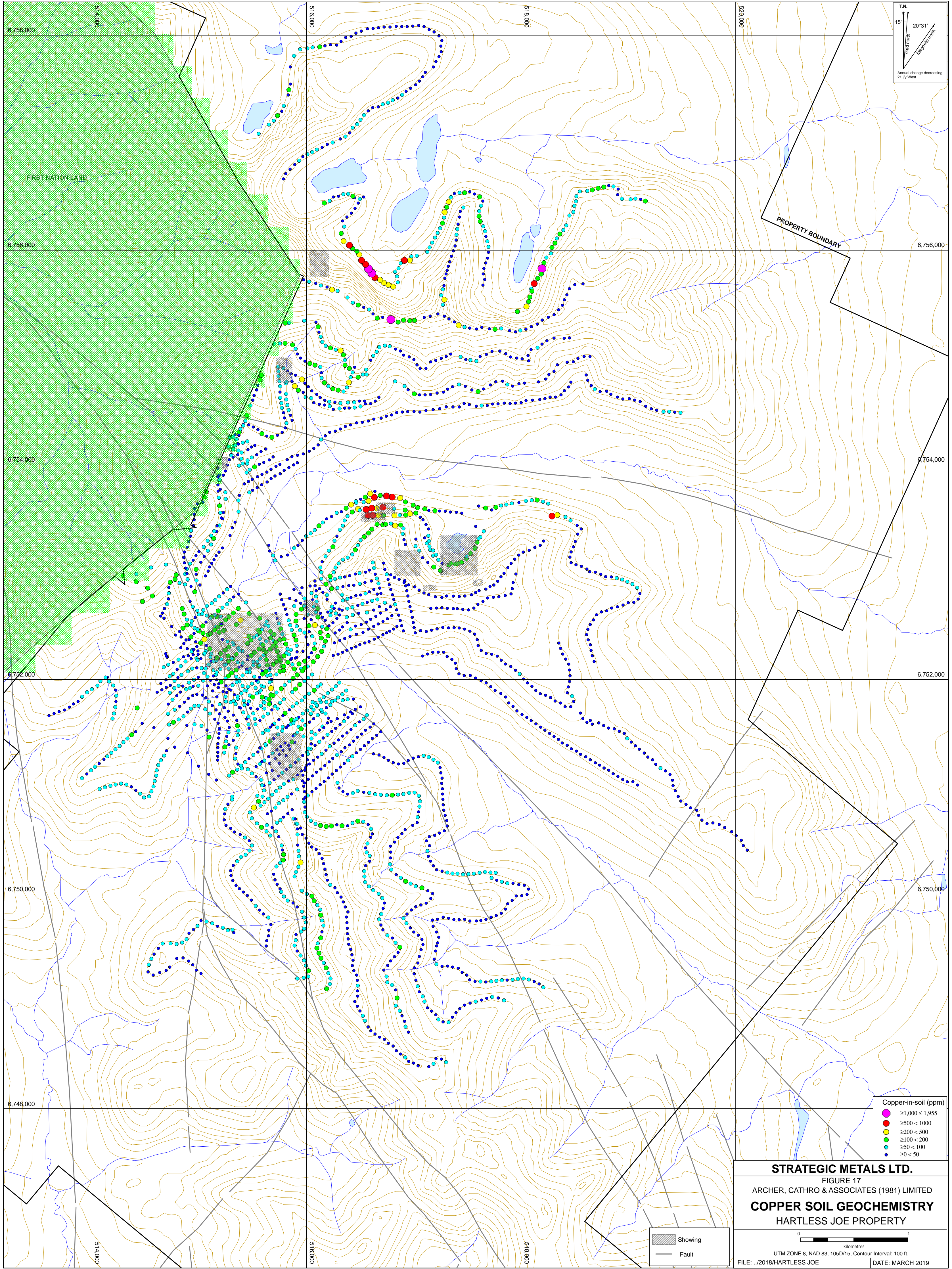
FIRST NATION LAND

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

Showing
 Fault

STRATEGIC METALS LTD.
 FIGURE 16
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER SOIL GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1
 kilometres
 UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.
 FILE: ../2018/HARTLESS JOE DATE: MARCH 2019



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

PROPERTY BOUNDARY

FIRST NATION LAND

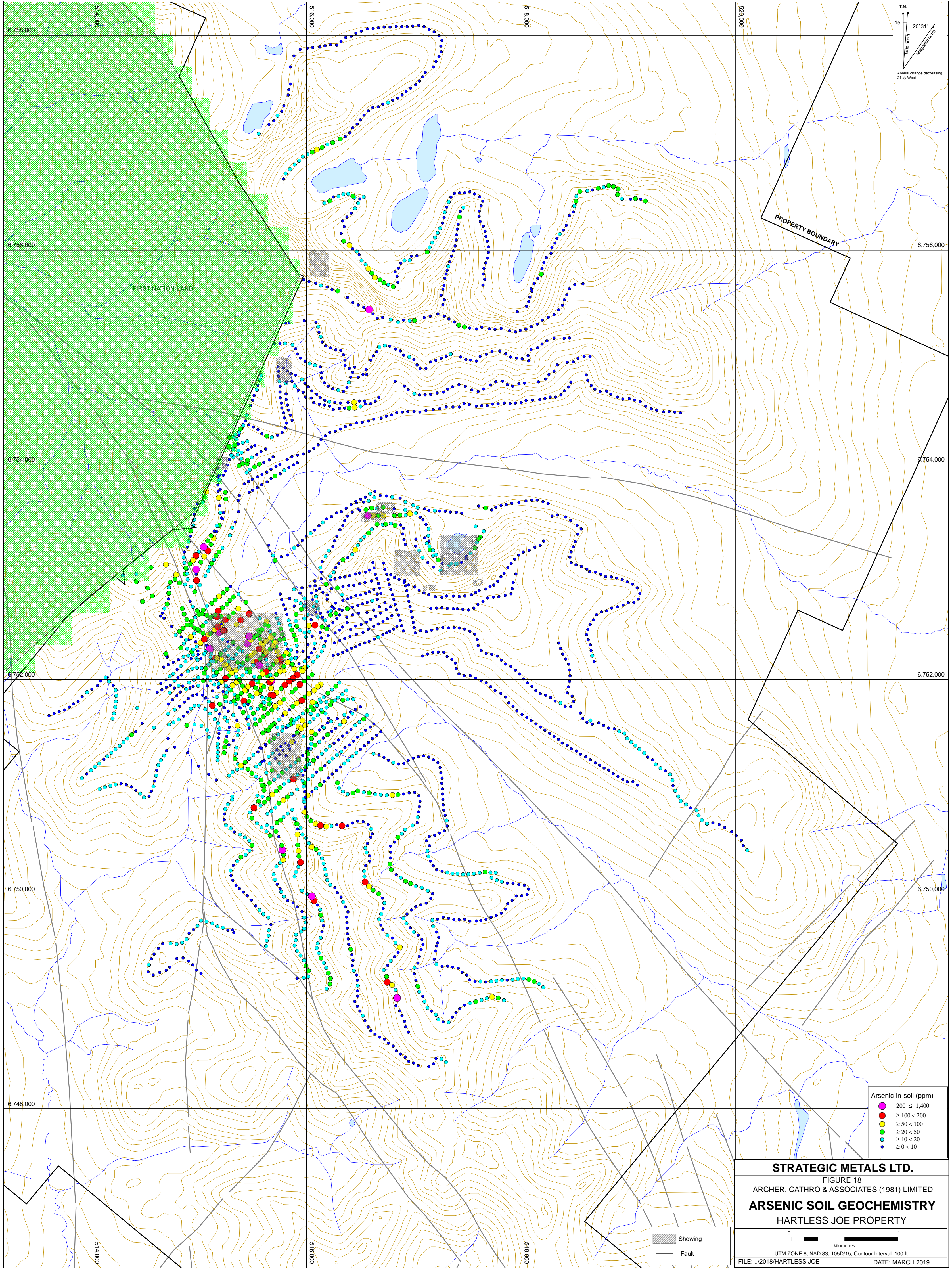
Copper-in-soil (ppm)
 ● ≥1,000 ≤ 1,955
 ● ≥500 < 1000
 ● ≥200 < 500
 ● ≥100 < 200
 ● ≥50 < 100
 ● ≥20 < 50

Showing
 Fault

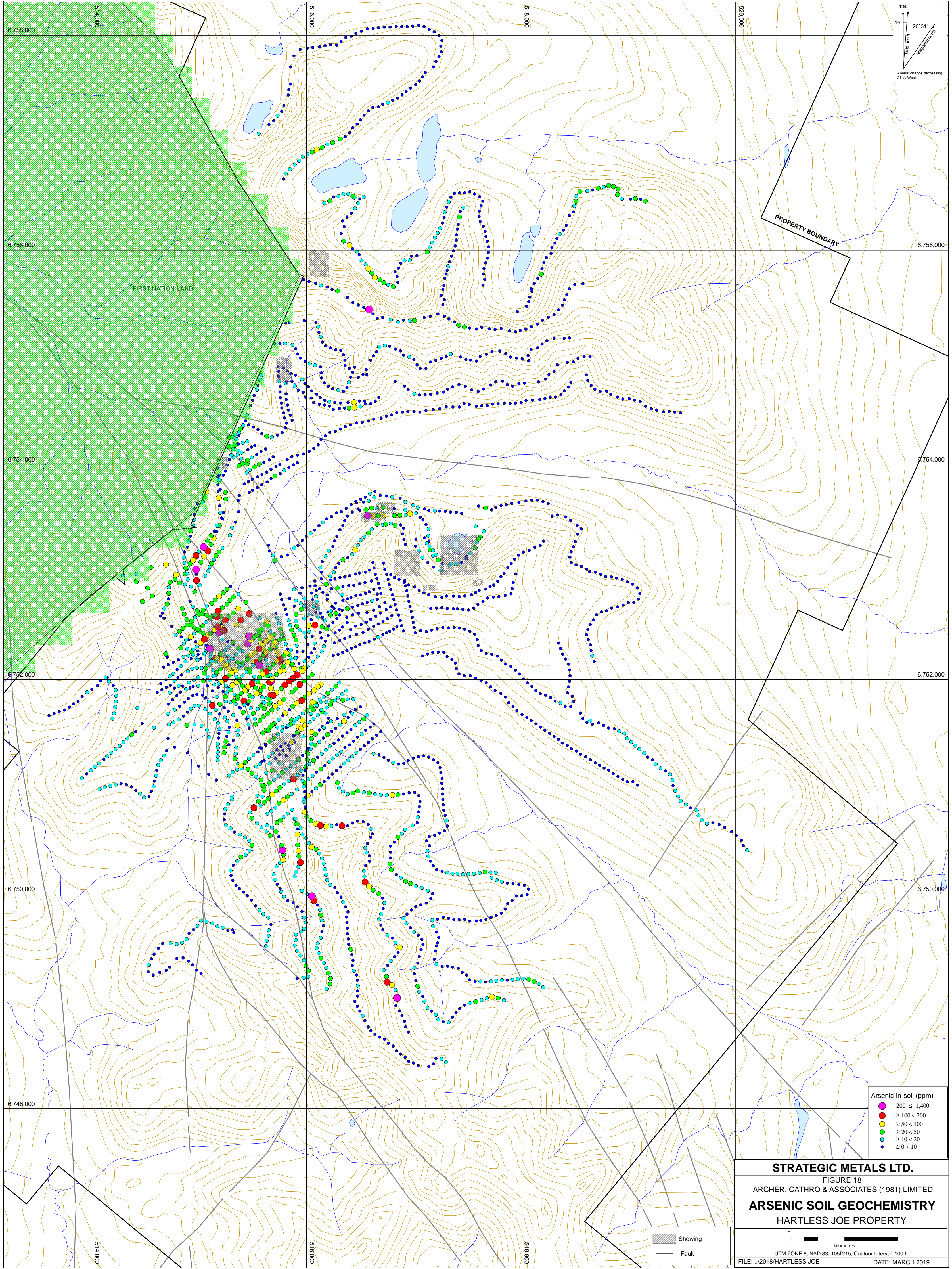
STRATEGIC METALS LTD.
 FIGURE 17
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER SOIL GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1
 kilometres

UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.
 FILE: .../2018/HARTLESS JOE DATE: MARCH 2019



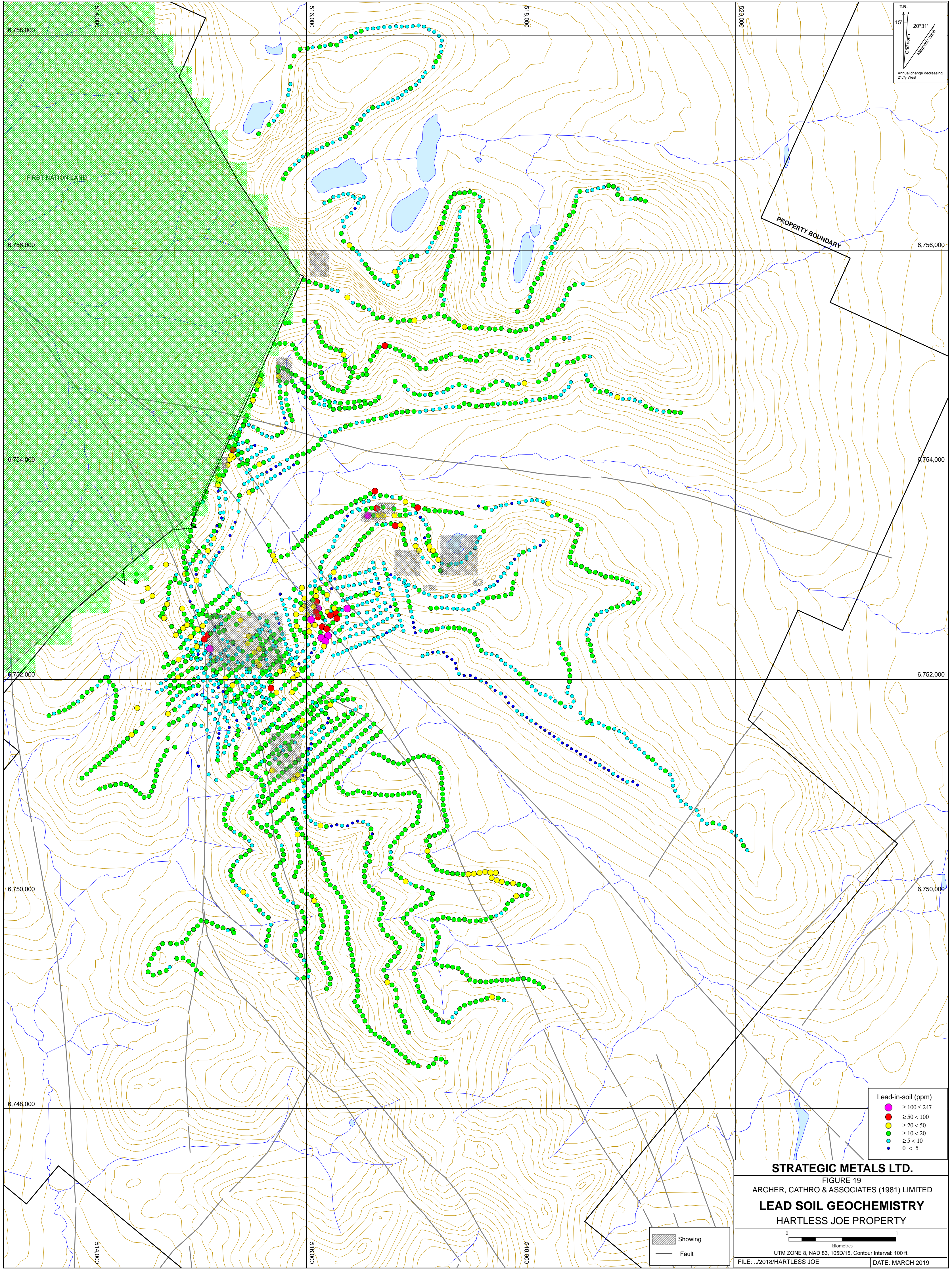
T.N.
15
20°31'
Annual change decreasing 21.7y West



STRATEGIC METALS LTD.
 FIGURE 18
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ARSENIC SOIL GEOCHEMISTRY
 HARTLESS JOE PROPERTY

0 1
kilometres
 UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.
 FILE: ../2018/HARTLESS JOE DATE: MARCH 2019

Showing
 Fault



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

PROPERTY BOUNDARY

FIRST NATION LAND

- Lead-in-soil (ppm)
- ≥ 100 ≤ 247
 - ≥ 50 < 100
 - ≥ 20 < 50
 - ≥ 10 < 20
 - ≥ 5 < 10
 - 0 < 5

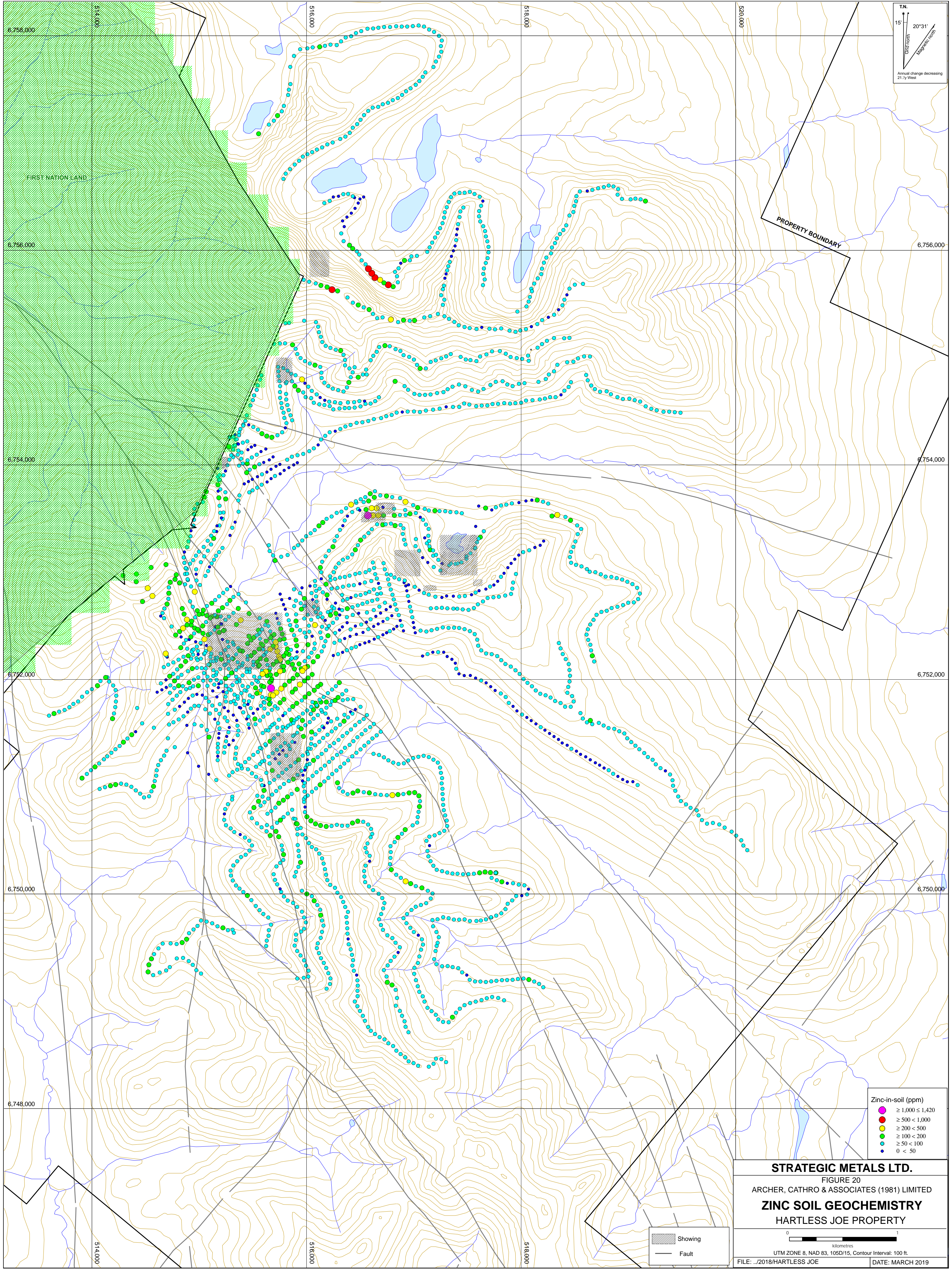
- ▨ Showing
- Fault

STRATEGIC METALS LTD.

FIGURE 19
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD SOIL GEOCHEMISTRY
HARTLESS JOE PROPERTY

0 1
kilometres
UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.

FILE: ../2018/HARTLESS JOE DATE: MARCH 2019



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

PROPERTY BOUNDARY

FIRST NATION LAND

Zinc-in-soil (ppm)	
●	≥ 1,000 ≤ 1,420
●	≥ 500 < 1,000
●	≥ 200 < 500
●	≥ 100 < 200
●	≥ 50 < 100
●	0 < 50

Showing
Fault

STRATEGIC METALS LTD.

FIGURE 20
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ZINC SOIL GEOCHEMISTRY
HARTLESS JOE PROPERTY

0 1
kilometres
UTM ZONE 8, NAD 83, 10SD/15, Contour Interval: 100 ft.

FILE: J:\2018\HARTLESS JOE DATE: MARCH 2019

antimony are sporadically elevated (up to 1440 ppm arsenic and 16 ppm antimony) in the vicinity of the Grumpy and Les 2 showings. Zinc is subdued across most of the property; however, a string of six contour soil samples collected from the area of the MK Showing are notably enriched in zinc.

In 2018, contour soil sampling returned clusters of moderately to very strongly anomalous gold and arsenic values south of the Grumpy Showing. The samples were collected on steep scree slopes that surround a prominent peak. A smaller cluster of anomalous gold- and arsenic-in-soil is located 900 m to the south. These areas have not received follow-up work.

Soil geochemistry on the property exhibits a marked north-south metal zonation. Samples collected in the vicinity of the MK and King showings are notably enriched in copper and zinc, while samples collected in the Grumpy area are strongly enriched in arsenic. This lateral zonation may represent a hydrothermal fluid temperature gradient, or overprinting phases of mineralization.

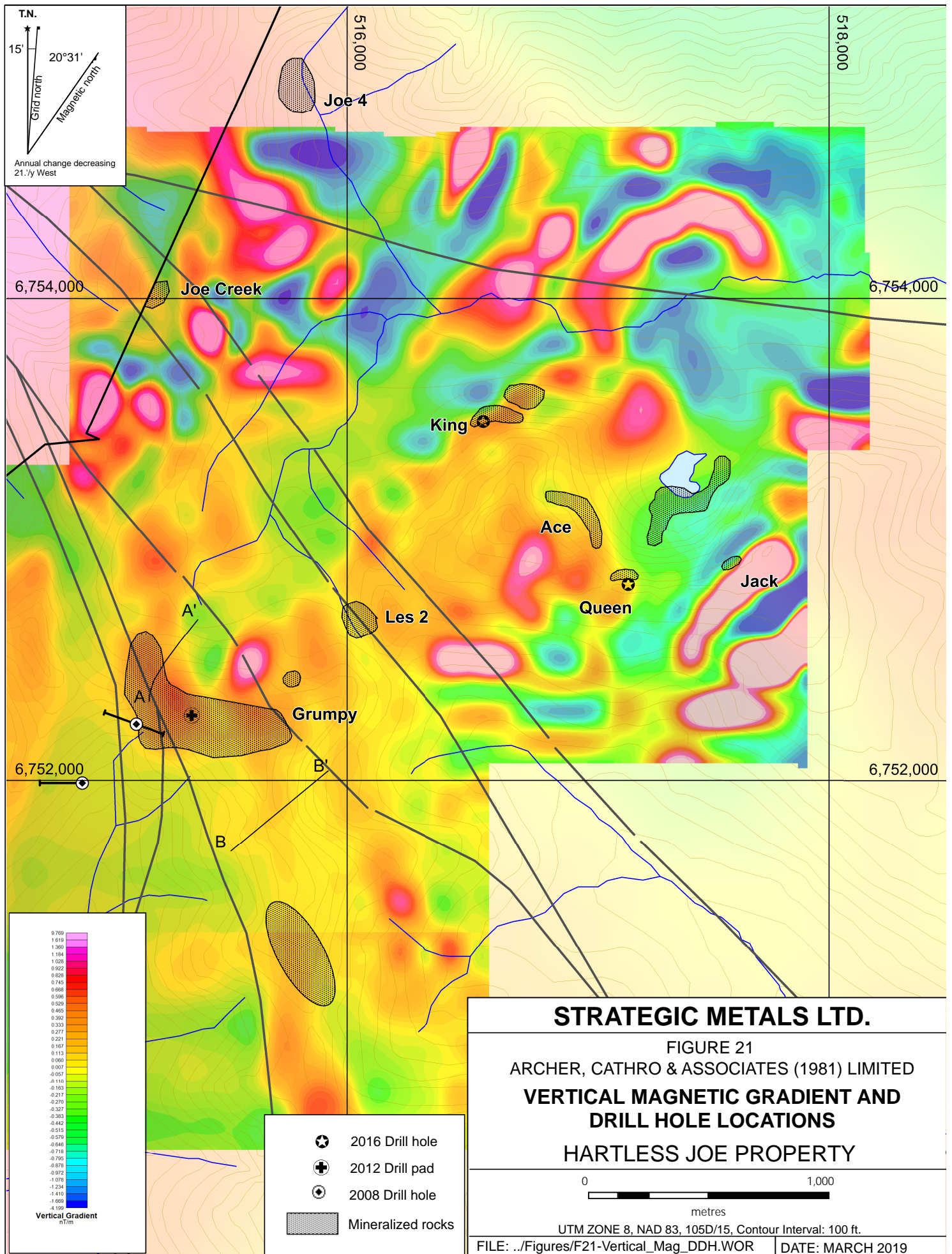
GEOPHYSICAL AND LIDAR SURVEYS

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 21 illustrates the vertical magnetic gradient of the property. Two sets of linear features are identified in the survey area: north- to northwest-trending magnetic lows, some of which correspond with known faults; and northeast-trending magnetic highs, which may be formational. An isolated ovoid magnetic high located in the west-central part of the property could represent a buried mafic pluton.

The VTEM response is quiet except for an anomaly in the southwestern part of the block, which is mostly underlain by sediments (Figure 22). 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 23. 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.



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

6,754,000

516,000

518,000

Joe Creek

6,754,000

King

Ace

Jack

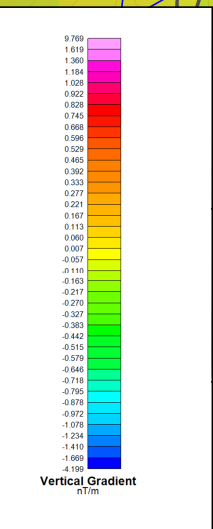
Queen

Les 2

Grumpy

6,752,000

6,752,000



- 2016 Drill hole
- 2012 Drill pad
- 2018 Drill hole
- Mineralized rocks

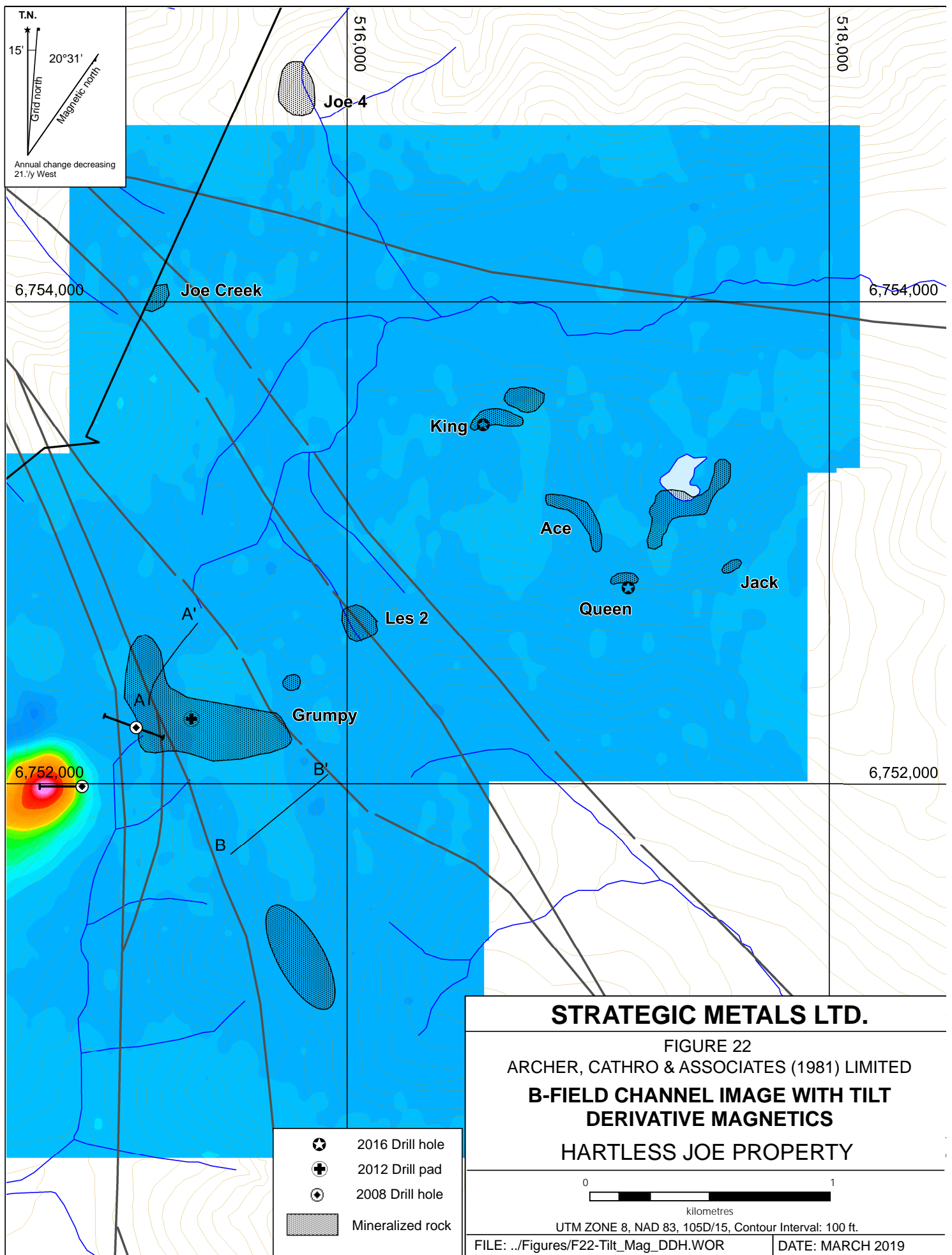
STRATEGIC METALS LTD.

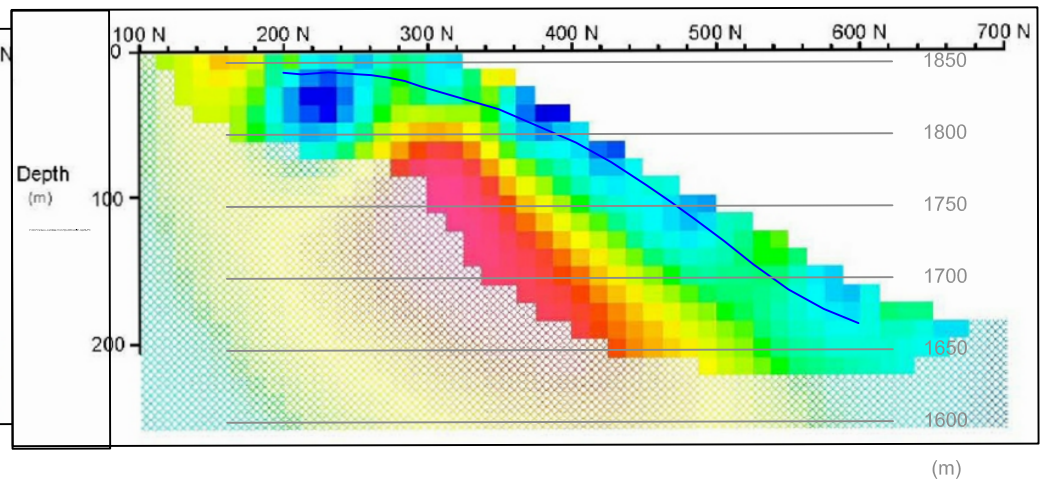
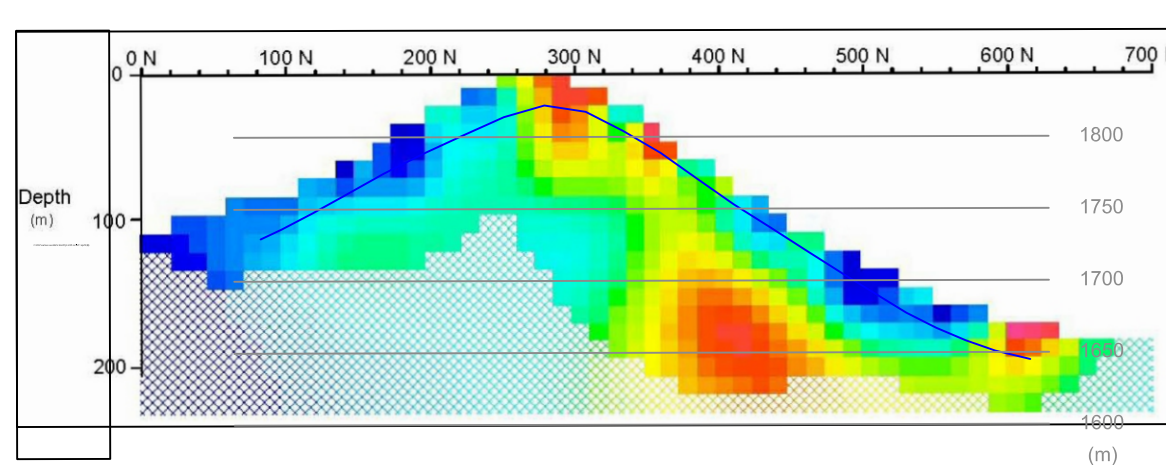
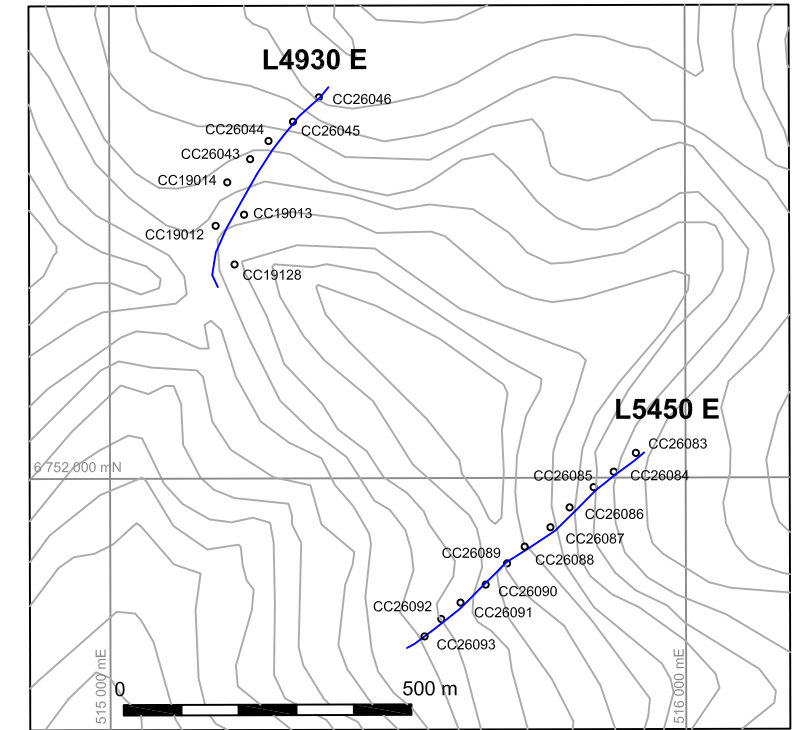
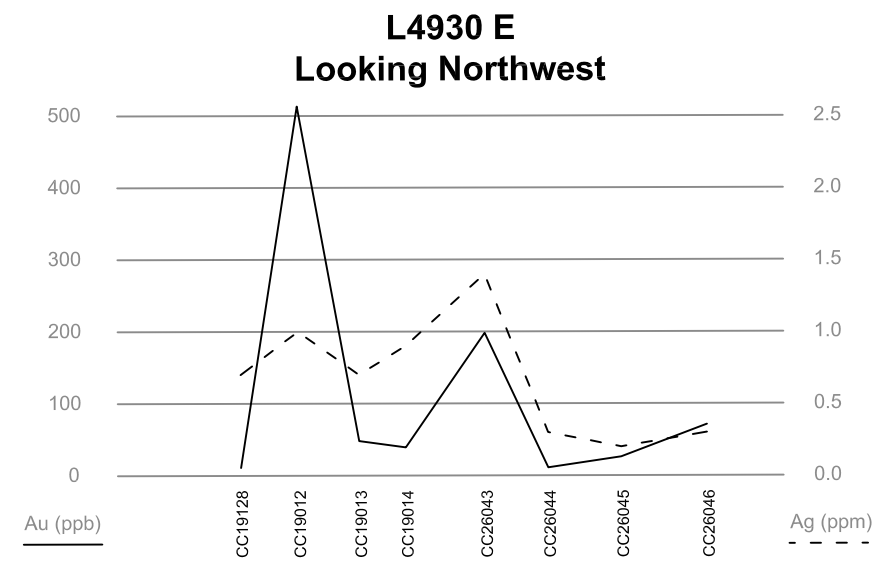
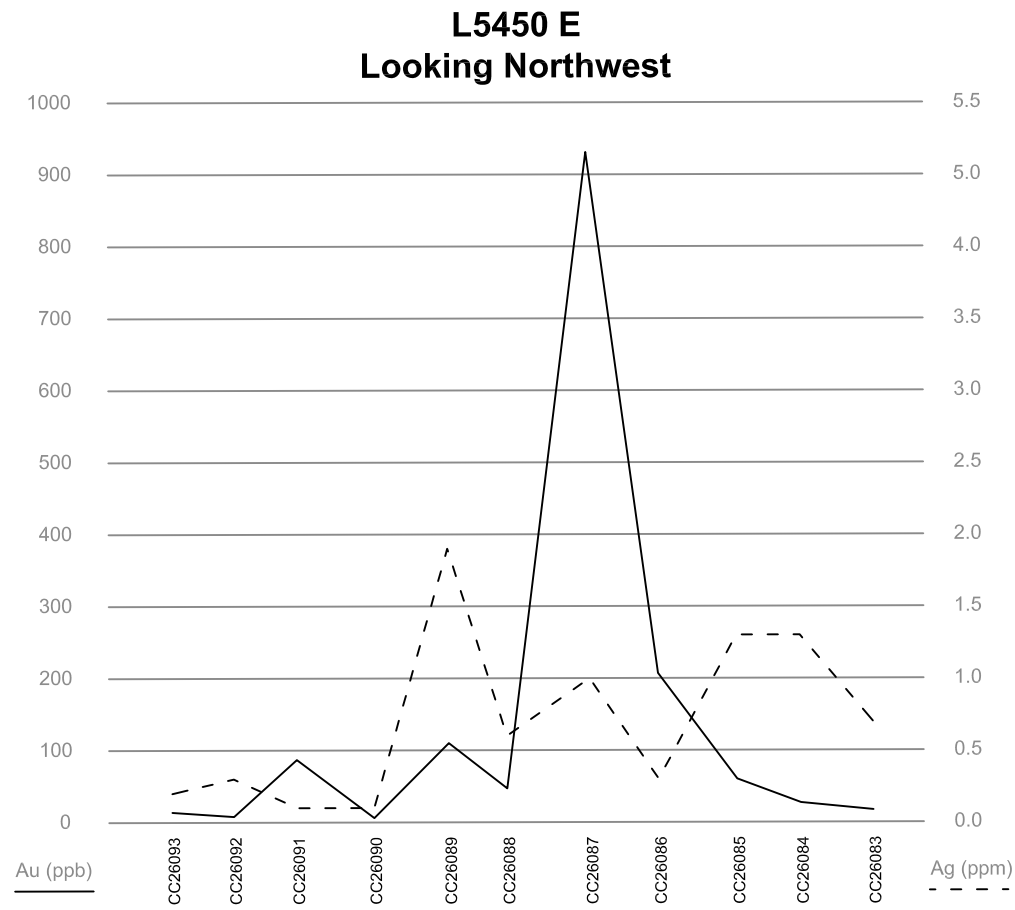
FIGURE 21
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**VERTICAL MAGNETIC GRADIENT AND
 DRILL HOLE LOCATIONS**
 HARTLESS JOE PROPERTY

0 1,000
 metres

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

FILE: ../Figures/F21-Vertical_Mag_DDH.WOR | DATE: MARCH 2019





STRATEGIC METALS LTD.

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

0 500 m

UTM ZONE 8, NAD 83, 115D/15

DRAWN / REVISED BY: MRD	
FILE: 2016/HARTLESSJOE	DATE: MARCH 2019

The southeasterly line identified what appears to be a lithological boundary (probably a fault) near a ridge crest, with more conductive rocks on its north side. Three chargeability features are modelled to come to surface in areas where strong gold-in-soil geochemical anomalies have been outlined.

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

DIAMOND DRILLING

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

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

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

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

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

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 24 and 25 illustrate cross-sections of the five drill holes at the King Showing.

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-pyritic, latite dyke, which was hosted in a 6.86 m wide interval of dark, calcareous mudstone. One unmineralized, five centimetre wide, quartz-sericite vein was intersected near the bottom of the interval. The geochemical response for all elements of interest was low.

516567 mE, 6753488 mN
Elevation 1553 m







020° NORTHEAST

HJ-16-04
48.77 m

Fault

HJ-16-01
67.06 m

HJ-16-02
70.10 m

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

STRATEGIC METALS LTD.

FIGURE 24
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**KING SHOWING NORTH-SOUTH
CROSS SECTION**
HARTLESS JOE PROPERTY

0 20 m

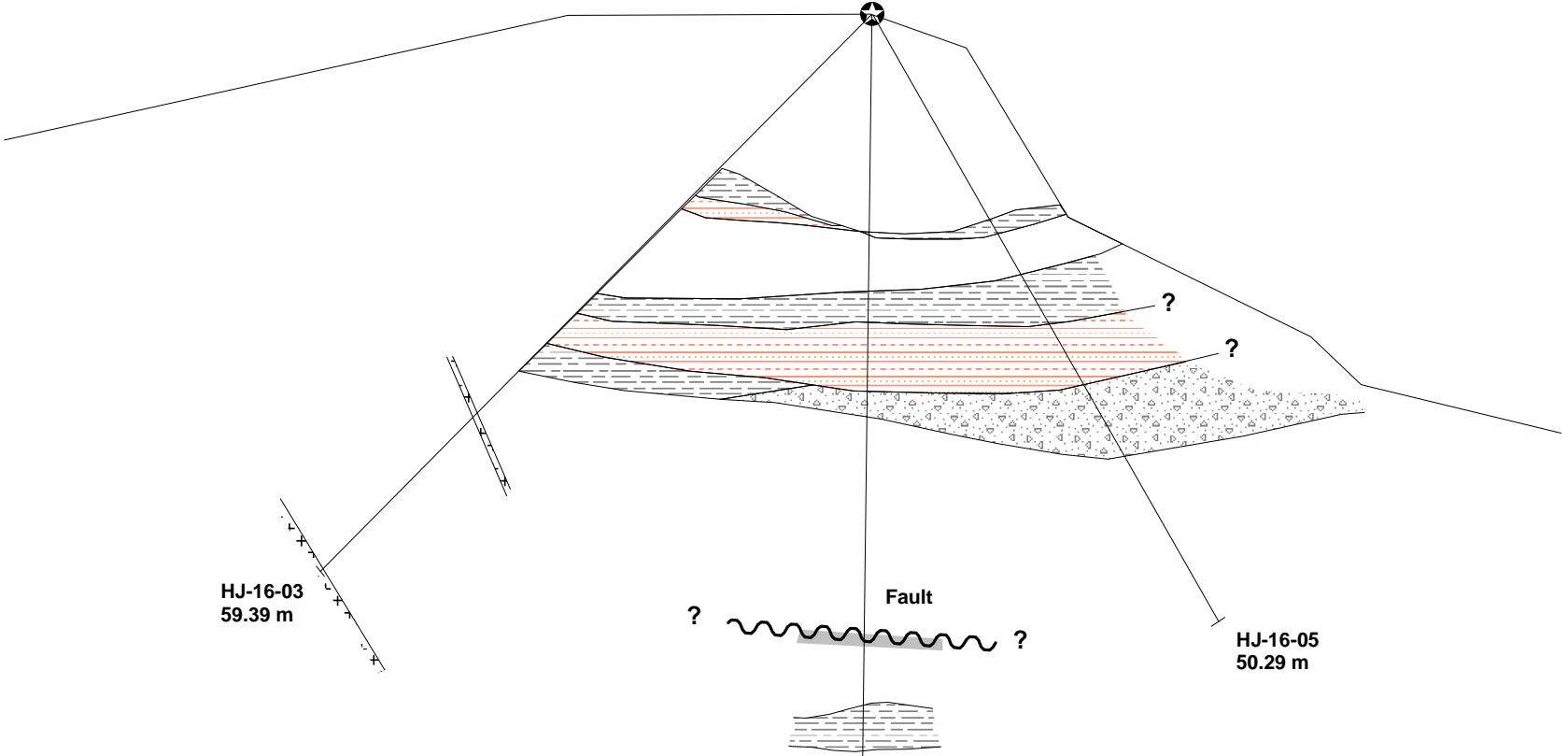
UTM ZONE 8, NAD 83, 105D/15, Contour Interval: 100 ft.

FILE: ../F24-North_South_X-Section.WOR

DATE: MARCH 2019

0270° WEST







516567 mE, 6753488 mN
Elevation 1553 m



HJ-16-03
59.39 m

HJ-16-05
50.29 m

Fault

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

STRATEGIC METALS LTD.

FIGURE 25
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**KING SHOWING EAST-WEST
CROSS SECTION**
HARTLESS JOE PROPERTY



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

FILE: ../Figures/F25-East_West_X-Section.WOR | DATE: MARCH 2019

DISCUSSION AND CONCLUSIONS

The Hartless Joe property covers several high-grade gold and silver prospects. They are hosted within a package of volcanic and sedimentary rocks that are cut by numerous large-scale and complex faults. Most of the known mineral occurrences are characterized as low-sulphidation, epithermal-type; however, strong copper and zinc geochemical values in the northern part of the property, as well as the presence of Algoma-type iron occurrences, suggest that the property is also prospective for VMS-type mineralization. Occurrences of flat-lying, banded, mineralized quartz may be flat-lying veins developed preferentially in intra-volcanic mudstones, or sub-aqueous exhalative horizons.

In 2018, hand trenching at the Grumpy Showing exposed mineralized quartz in association with a steeply-dipping, north-trending fault. Continuous talus samples collected from the floor of the trench returned 9.57 g/t gold over 2 m. A second trench at the Gusano Showing, across a moderately-dipping, siliceous horizon, yielded 1.31 g/t gold over 7 m. These two trenches represent the first exposures of mineralization at these showings, and define specific drill targets.

Further work on the Hartless Joe property should continue to evaluate undrilled showings and areas where anomalous geochemical or geophysical results have been obtained. Work at the MK Showing should be designed to assess the tenor and geometry of the gold-bearing quartz vein. Reconnaissance-scale soil geochemical coverage should be extended to cover the entire property, and detailed geological mapping in conjunction with prospecting should be performed in the vicinity of all showings and geochemical anomalies. Diamond drilling should be directed toward the newly identified targets at the Grumpy and Gusano showings, as well as the chargeability anomaly beneath the Grumpy Showing.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink, appearing to read 'J. Morton', with a horizontal line extending to the right.

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

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

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



J. Morton, B.Sc., P.Ge.

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures

Hartless Joe Property

January 15, 2019

Labour

Employee	Job Description	Hours	Time Period	Rate/hr	Total
Cam Webber	Expediting	4.5	March 2 - January 15	\$ 58.00	\$ 261.00
Doug Eaton	Sr. Geologist	18	March 2 - January 15	\$ 120.00	\$ 2,160.00
Heather Burrell	Sr. Geologist	78	March 2 - January 15	\$ 111.00	\$ 8,658.00
Jack Morton	Sr. Geologist	276	March 2 - January 15	\$ 96.00	\$ 26,496.00
Jason Brockman-Jack	Field Labour	192	March 2 - January 15	\$ 47.00	\$ 9,024.00
Kirein McClenahan	Field Labour	120	March 2 - January 15	\$ 49.00	\$ 5,880.00
Liz Smith	Logistics & Field Support	50	March 2 - January 15	\$ 83.00	\$ 4,150.00
Lorna Corbett	Logistics & Office	25	March 2 - January 15	\$ 83.00	\$ 2,075.00
Meggie Laverge	Field Labour	64	March 2 - January 15	\$ 55.00	\$ 3,520.00
Scott Newman	Office & Mapping	51	March 2 - January 15	\$ 69.00	\$ 3,519.00
Shawn Slipetz	Expediting	28	March 2 - January 15	\$ 69.00	\$ 1,932.00
Steve Israel	Sr. Geologist	3	March 2 - January 15	\$ 111.00	\$ 333.00
Thomas Rozsypaleck	Field Labour	112	March 2 - January 15	\$ 47.00	\$ 5,264.00
Virginia Cobbett	Support	25	March 2 - January 15	\$ 69.00	\$ 1,725.00
Wayne Schneider	Logistics & Support	16	March 2 - January 15	\$ 98.00	\$ 1,568.00
					\$ 76,565.00

Expenses

Field room and board	79 mandays	\$ 100.00 /per day	\$ 7,900.00
Whitehorse room and board	17 mandays	\$ 180.00 / per day	\$ 3,060.00
JP Exploration Services Inc.			\$ 2,100.00
Capital Helicopters, as attached			\$ 27,350.89
ALS Chemex, as attached			\$ 25,650.16
			<u>\$ 66,061.05</u>

Total 2018 expenditures \$ 142,626.05

Cost per sample \$ 163.37

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: K283901 UTM: 519424 mE Nad83, Zone 8
Elevation: 5083 m UTM: 6751027 mN

Comments: Float sample of rusty weathering, fractured, milky white quartz with no visible sulphides. Removed from a 80cm³ boulder. No rep.

Sample Number: K283902 UTM: 515563 mE Nad83, Zone 8
Elevation: 5995 m UTM: 6752134 mN

Comments: TR-18-04: 0-2m, dark black volcanoclastic.

Sample Number: K283903 UTM: 515562 mE Nad83, Zone 8
Elevation: 5993 m UTM: 6752133 mN

Comments: TR-18-04: 2-4m, orange weathering fractured quartz, with trace fine grained pyrite and galena, and dendritic manganese on fracture surfaces.

Sample Number: K283904 UTM: 515560 mE Nad83, Zone 8
Elevation: 5994 m UTM: 6752132 mN

Comments: TR-18-04: 4-6m, weakly calcareous, dark black volcanoclastic hosting <1cm wide quartz veinlets.

Sample Number: K283905 UTM: 515559 mE Nad83, Zone 8
Elevation: 5995 m UTM: 6752131 mN

Comments: TR-18-04: 6-8m, dark black volcanoclastic.

Sample Number: K283906 UTM: 515557 mE Nad83, Zone 8
Elevation: 5994 m UTM: 6752130 mN

Comments: TR-18-04: 8-11m, dark black volcanoclastic.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: K283907 UTM: 515203 mE Nad83, Zone 8

Elevation: 5718 m UTM: 6752401 mN

Comments: Subcrop sample, removed from a 70x30x20cm boulder, of rusty-brown weathering coxcomb quartz, with abundant (>2%) very fine grained pyrite in bands of smokey grey (apy. bearing?) quartz.

Sample Number: K283908 UTM: 517421 mE Nad83, Zone 8

Elevation: 6237 m UTM: 6755302 mN

Comments: Approximately 1m wide chip sample across a narrow, pyritic, 1-5cm wide seam of banded orange-brown weathering carbonate veinlets, with silicified selvages, which cuts yellow-green and rusty weathering, strongly fractured, pyritic basalt, with abundant epidote in the footwall. The veinlets have an approximate orientation of 170/55E.

Sample Number: K293597 UTM: 515257 mE Nad83, Zone 8

Elevation: 5360 m UTM: 6753835 mN

Comments: Subcrop sample of milk-white, crystalline quartz with trace clots of medium grained galena and lesser very fine grained chalcopyrite. Piece is apx. 5 cm thick, collected on a ridge-top.

Sample Number: K293598 UTM: 515501 mE Nad83, Zone 8

Elevation: 5197 m UTM: 6754388 mN

Comments: Outcrop sample, removed from a ~30cm wide quartz vein through volcanic conglomerate, comprising milk white, coarse crystalline quartz and clots of light brown ankerite, with sparse vugs hosting earthy brown oxide and rare disseminated fine grained chalcopyrite, rimmed by malachite. Vein has an apx. orientation of 279/48 N.

Sample Number: K293599 UTM: 515731 mE Nad83, Zone 8

Elevation: 5205 m UTM: 6754852 mN

Comments: Float sample of rusty weathering, quartz-carbonate breccia, with clast-supported volcanics, hosting abundant fine grained pyrite and lesser chalcopyrite (>2%), in a quartz matrix. Botryoidal quartz is pseudomorphing calcite and is stained with malachite and azurite. Collected from a 20cm³ boulder in a talus slope.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: K293600 UTM: 515533 mE Nad83, Zone 8

Elevation: 5982 m UTM: 6752171 mN

Comments: Float sample of rock with the same lithology as sample W599124. No rep.

Sample Number: W599113 UTM: 516201 mE Nad83, Zone 8

Elevation: 5819 m UTM: 6749403 mN

Comments: Outcrop sample where 3 skinny quartz vein (2cm, 2cm and 5cm wide over ~1m) cut medium grained basalt with an orientation of 239/38. Samples comprise coxcomb, vuggy, smokey grey quartz (after calcite?) with selvages of deep red hematite.

Sample Number: W599114 UTM: 516067 mE Nad83, Zone 8

Elevation: 5647 m UTM: 6749553 mN

Comments: Float sample, removed from a 50x30x25cm boulder, of banded, coxcomb, orange weathering quartz-carbonate with trace fine grained pyrite hostred with crystalline white quartz. Locally abundant in float but where is the source?

Sample Number: W599115 UTM: 516024 mE Nad83, Zone 8

Elevation: 5871 m UTM: 6750083 mN

Comments: Float sample of rusty orange weathering, white crystalline quartz, removed from a 15x15x10cm boulder, with sparse disseminated pocks containing live limonite and sparse clots and thin ribbons of medium grained galena. Locally abundant in float but source unknown.

Sample Number: W599116 UTM: 516030 mE Nad83, Zone 8

Elevation: 5917 m UTM: 6750102 mN

Comments: Float sample of rock with the same lithology as W599115, with sparse ribbons of medium grained galena, rare clots of fine grained chalcopryrite, rimmed by malachite, and metallic blue covellite(?). See W599115 for rep.

Sample Number: W599117 UTM: 516158 mE Nad83, Zone 8

Elevation: 6155 m UTM: 6750330 mN

Comments: Subcrop sample, removed from a ~10cm wide rock, of rusty banded quartz with abundant pocks filled with live limonite and sparse clots of goethite. No visible sulphides. Locally abundant on the ridge top.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: W599118 UTM: 515762 mE Nad83, Zone 8

Elevation: 5570 m UTM: 6750898 mN

Comments: Composite sample of orange weathering, limonitic, punky quartz-carbonate with sparse dendritic manganese and no visible sulphides.

Sample Number: W599119 UTM: 515760 mE Nad83, Zone 8

Elevation: 5557 m UTM: 6750914 mN

Comments: Float sample of white, weakly banded quartz, removed from a 40x20x15cm boulder, with thin bands of chlorite and moderate limonite in bands and on fracture surfaces. Rare dendritic manganese on outside surfaces. No visible sulphides.

Sample Number: W599120 UTM: 515761 mE Nad83, Zone 8

Elevation: 5566 m UTM: 6750988 mN

Comments: Float grab of rusty-orange weathering, weakly banded quartz with sparse clots of fine grained pyrite and medium grained galena, and moderate dendritic manganese and limonite on fracture surfaces.

Sample Number: W599121 UTM: 515682 mE Nad83, Zone 8

Elevation: 5462 m UTM: 6751081 mN

Comments: Float sample of rusty-orange weathering quartz, removed from a 60x40x20cm boulder, with bands of smokey dark quartz and disseminated pocks filled with limonite and sparse fine grained pyrite. Collected in an area of abundant rusty boulders of this size and larger.

Sample Number: W599122 UTM: 515682 mE Nad83, Zone 8

Elevation: 5467 m UTM: 6751081 mN

Comments: Composite sample of rusty-orange weathering quartz with vugs filled with pale yellow jarosite(?) and early brown oxides. No visible sulphide and no rep.

Sample Number: W599123 UTM: 515691 mE Nad83, Zone 8

Elevation: 5532 m UTM: 6751138 mN

Comments: Float sample, removed from a 20cm³ boulder, of rusty-orange weathering, banded quartz, with abundant bands of fine grained galena and pyrite.

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: W599124 UTM: 515812 mE Nad83, Zone 8
Elevation: 5923 m UTM: 6751456 mN

Comments: Float sample, collected from a 30cm³ boulder, of orange-brown weathering, banded, coxcomb quartz with moderate limonite throughout, druses filled with earthy brown oxide and sparse, disseminated, coarse grained pyrite.

Sample Number: W599125 UTM: 516701 mE Nad83, Zone 8
Elevation: 5406 m UTM: 6750719 mN

Comments: Subcrop(?) sample of rusty-orange weathering, brecciated and banded quartz, from an approx. 50cm wide vein, hosting sparse clots of medium grained galena, with earthy brown oxide on fracture surfaces.

Sample Number: W599126 UTM: 515244 mE Nad83, Zone 8
Elevation: 5736 m UTM: 6752227 mN

Comments: GRUMPY SHOWING: Float sample, removed from a 30x25x15cm boulder, of rusty-orange weathering banded quartz, with yellow-green sulphide bloom on outside surfaces, and abundant bands (>2%) of fine grained galena and lesser pyrite and chalcopyrite. Collected in a talus slope.

Sample Number: W599127 UTM: 515207 mE Nad83, Zone 8
Elevation: 5737 m UTM: 6752288 mN

Comments: GRUMPY SHOWING: Float grab of orange weathering, limonitic quartz-carbonate boxwork, with sparse disseminated coarse grained pyrite. Collected in a talus slope.

Sample Number: W599128 UTM: 515187 mE Nad83, Zone 8
Elevation: 5621 m UTM: 6752441 mN

Comments: GRUMPY SHOWING: Float sample, removed from a 50x35x20cm boulder, of rusty-orange weathering banded quartz, with moderate (~1%) bands of very fine grained arsenopyrite and lesser pyrite. Collected in a talus slope, below cliffs.

Sample Number: W599129 UTM: 515813 mE Nad83, Zone 8
Elevation: 5938 m UTM: 6751451 mN

Comments: TR-18-02: 0-2m, dark orange weathering, punky, ferruginous, weakly calcareous, basaltic andesite.

Rock Sample DescriptionsProperty: Hartless Joe

Sample Number: W599130 UTM: 515813 mE Nad83, Zone 8

Elevation: 5940 m UTM: 6751451 mN

Comments: TR-18-02: 2-4m, ferruginous, punky, dark orange weathering banded quartz, hosting bands of rusty goethite, masses of earthy brown oxide and sparse dendritic manganese.

Sample Number: W599131 UTM: 515815 mE Nad83, Zone 8

Elevation: 5938 m UTM: 6751452 mN

Comments: TR-18-02: 4-7m, blocky, buff to orange weathering, pale grey pyritic rhyolite, with rare <=1cm wide calcite veinlets.

Sample Number: W599132 UTM: 515815 mE Nad83, Zone 8

Elevation: 5936 m UTM: 6751455 mN

Comments: TR-18-02: 7-10m, orange weathering, ferruginous rhyolite.

Sample Number: W599133 UTM: 515814 mE Nad83, Zone 8

Elevation: 5934 m UTM: 6751458 mN

Comments: TR-18-02: 10-13m, blocky, buff-orange weathering calcareous rhyolite.

Sample Number: W599134 UTM: 515814 mE Nad83, Zone 8

Elevation: 5933 m UTM: 6751462 mN

Comments: TR-18-02: 13-16m, rock with the same lithology as sample W599133.

Sample Number: W599135 UTM: 515813 mE Nad83, Zone 8

Elevation: 5932 m UTM: 6751464 mN

Comments: TR-18-02: 16-19m, orange-brown weathering, pyritic, pale white, banded, non-calcareous rhyolite, with moderate limonite and dendritic manganese on fracture surfaces.

Sample Number: W599136 UTM: 515813 mE Nad83, Zone 8

Elevation: 5932 m UTM: 6751467 mN

Comments: TR-18-02: 19-21m, rock with the same lithology as W599135.

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: W599137 UTM: 515813 mE Nad83, Zone 8
Elevation: 5932 m UTM: 6751469 mN

Comments: TR-18-02: 21-24m, rock with the same lithology as sample W599135 but strongly silicified, with a network of numerous, mm-scale, milk-white quartz veinlets.

Sample Number: W599138 UTM: 515813 mE Nad83, Zone 8
Elevation: 5933 m UTM: 6751473 mN

Comments: TR-18-02: 24-27m, rock with the same lithology as W599135 with abundant manganese.

Sample Number: W599139 UTM: 515813 mE Nad83, Zone 8
Elevation: 5933 m UTM: 6751475 mN

Comments: TR-18-02: 27-29m, rock with the same lithology as W599135.

Sample Number: W599140 UTM: 515209 mE Nad83, Zone 8
Elevation: 5768 m UTM: 6752405 mN

Comments: Outcrop sample of rusty weathering, banded quartz, with abundant bands of very fine grained arsenopyrite (>2%), lesser pyrite and trace chalcopyrite, rimmed by malachite; Removed from a 30 cm wide vein hosted in volcanoclastic rock, with an approximate orientation of 085/30.

Sample Number: W599141 UTM: 515195 mE Nad83, Zone 8
Elevation: 5757 m UTM: 6752383 mN

Comments: Subcrop sample of rusty weathering, crystalline white quartz with sparse clots and mm-scale ribbons of fine grained galena rimming lesser chalcopyrite; Collected along strike of sample W599140.

Sample Number: W599142 UTM: 515690 mE Nad83, Zone 8
Elevation: 5944 m UTM: 6751851 mN

Comments: Float sample, removed from a 30x25x15cm boulder, of banded orange weathering quartz, with limonite on fracture surfaces; no visible sulphides.

Rock Sample Descriptions		Property: Hartless Joe	
Sample Number:	W599143	UTM:	515743 mE Nad83, Zone 8
Elevation:	5851 m	UTM:	6751400 mN
Comments: Float sample comprising punky, limonitic, orange-weathering, manganiferous quartz, removed from a hand pit (trench TR-18-01).			
Sample Number:	W599144	UTM:	515970 mE Nad83, Zone 8
Elevation:	5513 m	UTM:	6750766 mN
Comments: Float sample with the same lithology as sample W599127; collected in a steep talus slope.			
Sample Number:	W599145	UTM:	516328 mE Nad83, Zone 8
Elevation:	5527 m	UTM:	6750620 mN
Comments: Float sample, removed from a 40x30x30cm boulder, comprising orange weathering, coxcomb quartz-carvbonate with abundant limonite, dendritic manganese on fracture surfaces, trace coarse grained euhedral pyrite and dark grey patches (containing arsenopyrite?); collected in a steep talus slope.			
Sample Number:	W599146	UTM:	516096 mE Nad83, Zone 8
Elevation:	5302 m	UTM:	6752677 mN
Comments: Float sample of orange weathering, coarse crystalline quartz, removed from a small boulder of blocky basalt, containing a 5cm wide vein hosting moderate clots of fine to coarse grained galena and coarse grained pyrite; collected in a steep talus slope.			
Sample Number:	W599147	UTM:	515878 mE Nad83, Zone 8
Elevation:	5573 m	UTM:	6751064 mN
Comments: Float sample of rock with the same lithology as W599124. No rep.			
Sample Number:	W599148	UTM:	515872 mE Nad83, Zone 8
Elevation:	5577 m	UTM:	6751043 mN
Comments: Float sample of rock with the same lithology as W599124, hosting trace, disseminated, coarse grained galena and trace very fine grained chalcopyrite. Very abundant in talus, under a snow patch.			

Rock Sample Descriptions

Property: Hartless Joe

Sample Number: W599149 UTM: 516311 mE Nad83, Zone 8
Elevation: 5235 m UTM: 6751793 mN

Comments: Outcrop sample of rusty weathering, clast-supported basalt breccia, with a matrix of white quartz with abundant dark grey-black patches and hosting sparse coarse grained pyrite. Collected under outcrop of pillow basalt. No rep.

Sample Number: W599150 UTM: 515403 mE Nad83, Zone 8
Elevation: 5113 m UTM: 6753772 mN

Comments: Subcrop sample of rusty weathering, toothy/drusy quartz, with moderate clots of pyrite and goethite and rare clay and earthy brown oxide in druses.

APPENDIX IV
CERTIFICATES OF ANALYSIS



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

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

Page: 1
Total # Pages: 7 (A - D)
Plus Appendix Pages
Finalized Date: 28- JUL- 2018
Account: MTT

CERTIFICATE WH18166141

Project: HARTLESS JOE

This report is for 208 Soil samples submitted to our lab in Whitehorse, YT, Canada on 11-JUL-2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
 Total # Pages: 7 (A - D)
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 Account: MTT

Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166141

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
YY06001		0.33	0.004	0.19	7.23	19.9	820	1.04	0.15	1.67	0.17	36.3	21.4	107	3.78	42.4
YY06002		0.45	0.003	0.08	7.11	21.0	830	1.10	0.16	1.52	0.19	36.4	19.4	99	3.88	35.3
YY06003		0.29	0.003	0.16	7.63	22.3	720	1.18	0.14	1.30	0.30	32.1	26.2	107	4.88	60.5
YY06004		0.42	0.005	0.23	7.49	14.2	660	1.10	0.12	1.74	0.23	30.3	29.8	105	4.35	69.9
YY06005		0.36	0.005	0.25	7.57	14.4	780	1.12	0.15	1.76	0.25	34.6	27.3	111	4.09	64.7
YY06006		0.38	0.004	0.25	7.62	13.4	850	1.17	0.19	1.52	0.18	32.0	24.7	116	5.28	62.5
YY06007		0.33	0.006	0.12	7.33	9.3	800	1.20	0.17	1.95	0.14	33.1	16.2	73	2.84	35.1
YY06008		0.36	0.004	0.13	8.00	13.3	860	1.41	0.18	1.51	0.19	35.6	26.0	121	5.34	60.3
YY06009		0.25	0.005	0.15	7.80	12.3	750	1.15	0.17	1.62	0.23	34.8	26.5	124	4.69	58.8
YY06010		0.27	0.009	0.16	7.91	14.1	770	1.13	0.18	1.53	0.21	32.6	27.7	124	6.65	61.9
YY06011		0.21	0.003	0.08	6.97	8.9	900	1.26	0.20	1.59	0.22	38.0	12.6	67	2.75	37.2
YY06012		0.26	0.004	0.08	6.16	10.8	900	1.21	0.18	1.69	0.52	39.1	14.7	94	3.33	34.8
YY06013		0.11	0.003	0.13	5.60	4.0	690	0.95	0.15	2.05	0.69	33.5	15.0	39	2.30	18.8
YY06014		0.26	0.011	0.06	6.95	8.4	890	1.40	0.16	1.84	0.40	54.9	13.6	69	3.14	46.2
YY06015		0.22	0.003	0.09	6.93	7.0	810	1.21	0.14	2.07	0.43	39.5	12.9	56	2.43	35.9
YY06016		0.22	0.011	0.16	6.28	3.1	600	1.00	0.13	2.34	0.35	29.4	14.7	25	2.28	49.6
YY06017		0.34	0.006	0.08	7.15	9.1	860	1.25	0.15	1.99	0.18	50.7	19.3	105	4.47	47.9
YY06018		0.22	0.001	0.19	5.08	6.5	630	0.76	0.13	1.47	0.31	24.7	17.4	71	3.22	40.4
YY06019		0.23	0.007	0.10	7.19	12.2	850	1.31	0.17	1.51	0.22	44.9	17.9	87	4.00	46.3
YY06020		0.21	0.007	0.09	6.43	9.2	770	1.07	0.14	1.73	0.47	37.2	17.4	69	3.34	43.9
YY06021		0.50	0.007	0.16	7.48	11.1	870	1.30	0.14	2.01	0.28	59.9	19.5	93	2.83	61.3
YY06022		0.23	0.007	0.27	7.04	18.0	860	1.28	0.17	1.92	0.56	44.4	16.6	83	4.52	74.0
YY06023		0.11	0.003	0.24	5.96	4.5	660	1.05	0.15	2.04	0.48	33.3	12.7	44	2.50	25.2
YY06024		0.18	0.008	0.18	5.18	6.0	630	0.88	0.12	1.69	0.96	31.9	13.9	53	2.49	27.6
YY06025		0.20	0.005	0.08	6.77	7.8	870	1.20	0.16	1.63	0.23	38.5	14.4	87	2.74	28.8
YY06026		0.26	0.004	0.08	6.83	7.8	940	1.23	0.20	1.49	0.18	37.7	12.9	86	2.37	25.6
YY06027		0.22	0.003	0.10	6.54	7.5	810	1.15	0.14	1.53	0.22	38.7	15.6	81	2.48	29.5
YY06028		0.31	0.004	0.12	7.36	8.5	880	1.24	0.14	2.04	0.20	46.7	23.4	87	2.31	41.7
YY06029		0.29	0.006	0.15	6.64	8.0	750	0.95	0.14	1.69	0.15	32.2	18.4	82	3.22	36.9
YY06030		0.40	0.007	0.09	7.70	12.3	860	1.25	0.14	1.73	0.16	42.8	21.6	97	3.41	47.3
YY06031		0.23	0.003	0.97	7.38	13.9	830	1.14	0.13	1.89	1.27	46.7	28.4	110	4.68	110.0
YY06032		0.55	0.007	0.20	7.16	13.3	850	1.22	0.12	2.18	0.45	49.0	23.3	88	2.92	69.7
YY06033		0.13	0.004	0.38	3.60	27.6	410	0.53	0.10	2.33	3.72	20.3	16.7	71	5.68	58.4
YY06034		0.29	0.008	1.26	7.58	48.9	810	1.08	0.20	1.56	2.74	33.1	37.5	149	7.22	156.5
YY06035		0.30	0.001	0.18	7.76	15.0	920	1.25	0.16	1.85	0.37	43.0	20.7	111	3.96	55.6
YY06036		0.12	0.004	0.29	5.32	8.5	660	0.85	0.19	1.19	0.76	35.8	30.1	64	3.36	33.1
YY06037		0.25	0.004	0.13	7.22	23.3	790	1.06	0.13	1.87	0.48	42.4	17.3	105	3.23	65.6
YY06038		0.10	0.028	0.46	4.54	35.1	660	0.81	0.12	1.62	5.79	29.8	16.0	57	2.79	60.7
YY06039		0.09	0.003	0.11	5.96	8.1	820	1.03	0.15	1.49	0.66	36.0	14.1	74	2.89	29.3
YY06040		0.10	0.003	0.19	2.60	4.7	390	0.46	0.08	2.91	1.74	15.75	7.3	33	1.52	36.8



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY06001		4.99	15.95	0.11	1.8	0.066	1.24	17.7	17.1	2.01	1010	0.71	1.96	7.1	45.4	970
YY06002		4.78	16.35	0.13	2.1	0.054	1.32	17.1	17.0	1.78	824	0.74	1.92	8.0	39.3	1020
YY06003		6.27	17.70	0.11	1.8	0.069	1.14	15.2	21.3	2.40	1170	0.73	1.73	6.7	54.6	1040
YY06004		6.44	18.30	0.12	1.5	0.071	1.10	14.8	20.1	2.52	1120	0.73	1.96	6.4	54.2	920
YY06005		5.92	18.65	0.12	1.6	0.066	1.23	17.9	19.1	2.30	1060	0.97	1.93	7.7	62.1	880
YY06006		5.80	18.80	0.11	2.0	0.068	1.17	16.9	21.5	2.21	1080	0.90	1.66	8.2	60.8	1190
YY06007		4.09	17.90	0.11	2.1	0.045	1.50	17.4	18.3	1.43	746	1.19	2.24	7.6	33.3	900
YY06008		5.89	20.1	0.11	1.8	0.071	1.30	17.5	22.0	2.23	1160	0.96	1.81	8.8	58.8	1120
YY06009		5.77	18.65	0.11	1.6	0.069	1.20	17.4	20.0	2.40	1030	0.81	2.02	8.0	57.6	750
YY06010		6.18	19.25	0.10	1.9	0.075	1.19	16.3	21.7	2.52	1050	0.83	1.86	7.7	60.9	890
YY06011		3.22	16.70	0.12	2.2	0.037	1.59	19.2	18.1	1.03	684	1.21	2.06	8.4	28.9	1280
YY06012		3.76	15.05	0.11	1.9	0.049	1.34	20.2	17.9	1.19	869	0.98	1.63	8.9	40.0	2030
YY06013		2.71	13.80	0.11	1.8	0.028	1.22	16.5	10.8	0.75	2100	1.44	1.78	6.2	14.8	1740
YY06014		3.87	15.50	0.11	2.0	0.055	1.44	26.8	15.7	1.07	665	0.74	2.19	9.3	26.8	630
YY06015		3.60	16.65	0.12	2.1	0.044	1.46	19.8	16.0	1.09	687	0.92	2.20	8.5	22.1	970
YY06016		3.07	15.35	0.11	2.0	0.031	1.30	15.0	12.2	0.81	943	1.33	2.02	5.7	11.3	1300
YY06017		4.32	16.60	0.11	1.8	0.051	1.40	24.0	18.4	1.53	755	0.80	2.08	9.9	39.1	700
YY06018		3.50	12.00	0.11	1.5	0.042	0.99	11.9	10.7	1.05	854	0.89	1.48	5.9	26.3	1520
YY06019		4.40	17.25	0.12	2.1	0.056	1.46	21.4	17.1	1.39	888	0.94	2.04	9.8	32.2	1370
YY06020		3.94	15.35	0.13	1.7	0.048	1.25	17.7	15.2	1.24	956	0.83	1.96	8.3	27.4	1190
YY06021		4.47	16.65	0.15	2.1	0.054	1.42	29.1	16.7	1.52	906	0.81	2.33	10.1	36.4	850
YY06022		3.91	16.10	0.14	1.9	0.051	1.41	23.5	19.1	1.33	723	1.26	1.89	8.3	39.9	1240
YY06023		3.39	15.15	0.12	1.9	0.037	1.22	17.4	12.4	0.91	838	1.42	1.77	6.7	18.0	2010
YY06024		2.84	12.20	0.10	1.5	0.033	1.04	16.2	11.3	0.92	1360	1.68	1.45	5.5	23.8	1860
YY06025		3.73	15.75	0.12	1.8	0.047	1.35	19.8	15.9	1.32	735	0.95	1.91	8.1	35.0	1360
YY06026		3.72	15.05	0.12	1.7	0.046	1.46	19.4	14.4	1.15	618	0.88	1.93	8.7	28.7	1270
YY06027		3.72	14.85	0.12	1.6	0.046	1.22	19.1	14.4	1.31	723	0.73	1.89	7.5	31.9	1220
YY06028		4.24	16.25	0.14	1.7	0.056	1.31	22.9	14.3	1.73	881	0.59	2.50	7.7	38.1	740
YY06029		4.10	14.70	0.11	1.5	0.051	1.22	15.0	13.7	1.49	737	0.71	2.09	6.3	32.3	1090
YY06030		4.71	17.45	0.12	1.6	0.058	1.35	20.7	16.9	1.80	827	0.85	2.32	7.8	44.1	590
YY06031		5.05	16.05	0.15	1.6	0.060	1.51	25.5	17.7	1.64	1840	2.12	1.89	7.6	58.3	1040
YY06032		4.41	15.40	0.14	2.0	0.052	1.38	24.9	13.8	1.45	841	1.64	2.41	8.5	41.1	820
YY06033		3.10	8.27	0.09	0.9	0.040	0.67	12.8	14.5	0.70	1180	5.74	0.80	2.6	39.6	1700
YY06034		6.77	17.80	0.12	1.6	0.080	1.23	21.4	25.7	2.18	1600	9.64	1.35	5.2	90.0	1610
YY06035		4.58	17.00	0.14	1.9	0.057	1.41	22.7	19.6	1.75	907	1.44	2.18	8.8	46.2	1000
YY06036		3.41	13.10	0.10	1.5	0.045	1.03	15.8	12.8	0.96	4210	1.91	1.31	5.9	24.7	2400
YY06037		4.66	15.30	0.12	2.0	0.053	1.23	21.4	18.2	1.68	752	1.39	2.07	7.4	48.6	1100
YY06038		2.83	9.77	0.10	1.2	0.037	0.93	14.0	9.8	0.82	1670	1.66	1.28	5.2	28.0	1530
YY06039		3.66	14.35	0.11	1.6	0.044	1.34	16.9	13.9	0.91	856	1.12	1.76	8.3	24.8	1040
YY06040		1.52	5.92	0.10	0.6	0.022	0.54	9.2	5.9	0.51	558	1.02	0.69	2.9	14.5	1510



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY06001		18.3	47.3	<0.002	0.05	1.51	21.1	<1	1.1	244	0.50	0.07	4.84	0.511	0.40	1.4
YY06002		13.6	51.2	<0.002	0.04	1.41	19.1	1	1.3	247	0.55	<0.05	5.02	0.538	0.42	1.6
YY06003		16.6	45.8	<0.002	0.04	1.99	26.2	1	1.1	181.0	0.46	0.05	4.69	0.572	0.39	1.5
YY06004		14.4	35.0	<0.002	0.02	1.85	29.4	1	1.2	204	0.42	0.05	3.88	0.692	0.36	1.3
YY06005		17.2	44.0	0.002	0.02	2.31	26.5	1	1.2	231	0.51	0.05	5.70	0.562	0.35	1.3
YY06006		16.6	50.9	<0.002	0.06	2.11	24.8	1	1.3	195.5	0.54	0.08	6.05	0.480	0.42	1.5
YY06007		13.3	47.3	<0.002	0.05	1.80	16.6	1	1.1	392	0.50	<0.05	5.80	0.434	0.32	1.6
YY06008		17.0	52.5	<0.002	0.04	2.03	25.7	<1	1.3	223	0.57	0.07	6.14	0.517	0.40	1.6
YY06009		16.0	42.8	<0.002	0.03	2.15	27.2	1	1.3	229	0.53	0.06	5.43	0.564	0.37	1.5
YY06010		16.4	47.2	0.002	0.04	6.64	29.2	<1	1.3	208	0.51	0.05	5.55	0.547	0.37	1.6
YY06011		14.7	52.6	0.002	0.06	1.10	12.6	1	1.3	353	0.58	<0.05	6.90	0.352	0.41	2.0
YY06012		14.1	54.4	<0.002	0.08	1.25	14.8	<1	1.3	262	0.63	0.05	7.66	0.370	0.37	2.2
YY06013		11.1	44.2	<0.002	0.11	0.79	9.9	<1	1.0	419	0.42	<0.05	4.76	0.336	0.29	1.4
YY06014		12.3	50.3	<0.002	0.03	1.56	15.1	<1	1.4	323	0.69	<0.05	8.34	0.408	0.38	1.9
YY06015		11.0	48.4	0.002	0.06	1.71	13.7	<1	1.2	428	0.59	<0.05	6.52	0.428	0.33	1.7
YY06016		8.2	38.0	<0.002	0.11	0.64	10.0	1	0.9	520	0.37	<0.05	4.54	0.342	0.22	1.5
YY06017		13.6	52.2	<0.002	0.05	1.31	17.5	<1	1.4	314	0.70	0.06	8.72	0.427	0.42	1.9
YY06018		10.6	40.3	<0.002	0.15	1.14	14.3	1	0.9	223	0.41	<0.05	4.16	0.353	0.29	1.2
YY06019		16.9	52.3	<0.002	0.06	10.40	18.5	<1	1.4	280	0.67	0.05	7.16	0.483	0.43	2.0
YY06020		13.5	46.6	<0.002	0.07	1.28	16.4	<1	1.2	279	0.58	<0.05	5.97	0.419	0.34	1.6
YY06021		14.5	46.4	<0.002	0.02	1.28	20.6	1	1.4	335	0.80	0.05	9.42	0.465	0.40	2.4
YY06022		18.7	51.1	<0.002	0.05	1.45	19.0	1	1.3	315	0.59	<0.05	7.54	0.374	0.43	2.3
YY06023		11.4	44.1	<0.002	0.13	0.81	11.5	<1	1.0	417	0.45	<0.05	5.37	0.401	0.28	1.6
YY06024		10.8	44.3	<0.002	0.15	0.99	11.9	1	0.9	282	0.39	<0.05	4.38	0.302	0.27	1.4
YY06025		14.4	53.5	<0.002	0.06	1.15	16.6	1	1.2	295	0.58	<0.05	6.92	0.394	0.37	1.9
YY06026		14.1	50.9	<0.002	0.05	1.14	15.1	<1	1.3	273	0.65	<0.05	6.83	0.408	0.39	1.7
YY06027		12.9	45.3	<0.002	0.06	1.07	17.0	1	1.1	262	0.54	<0.05	5.97	0.402	0.36	1.5
YY06028		15.4	44.7	0.002	0.02	1.33	21.4	<1	1.2	322	0.53	0.06	6.51	0.500	0.36	1.5
YY06029		15.1	45.5	<0.002	0.07	1.17	19.5	<1	1.0	264	0.44	0.05	4.98	0.441	0.36	1.3
YY06030		16.3	45.5	<0.002	0.03	1.44	22.4	<1	1.2	296	0.53	0.07	6.63	0.483	0.40	1.6
YY06031		14.4	47.8	<0.002	0.04	1.86	23.9	2	1.2	288	0.52	0.07	6.66	0.436	0.42	1.8
YY06032		14.4	44.0	<0.002	0.02	1.66	20.3	1	1.2	363	0.59	0.05	7.91	0.500	0.36	1.9
YY06033		9.0	26.4	<0.002	0.20	3.24	14.8	2	0.6	132.5	0.17	0.05	2.78	0.158	0.31	1.1
YY06034		20.3	48.8	0.002	0.09	3.62	32.9	4	1.0	195.0	0.34	0.12	5.68	0.331	0.72	2.5
YY06035		15.0	51.6	<0.002	0.04	1.66	22.9	<1	1.3	314	0.63	<0.05	7.36	0.471	0.44	1.9
YY06036		16.5	40.8	<0.002	0.18	0.99	14.2	1	1.0	227	0.41	<0.05	5.16	0.304	0.47	1.7
YY06037		11.5	39.8	0.002	0.05	1.73	20.9	1	1.2	323	0.52	<0.05	6.62	0.447	0.36	2.1
YY06038		10.9	34.6	<0.002	0.13	2.33	13.0	1	0.8	220	0.38	<0.05	4.58	0.267	0.31	1.2
YY06039		12.8	48.6	<0.002	0.06	1.07	13.3	<1	1.2	271	0.59	<0.05	5.74	0.370	0.39	1.7
YY06040		7.1	21.2	<0.002	0.21	0.65	7.0	1	0.5	215	0.20	<0.05	2.42	0.147	0.18	0.8



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166141

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY06001		169	2.1	19.2	75	55.4
YY06002		167	1.8	16.5	74	78.1
YY06003		214	2.3	22.4	102	86.5
YY06004		235	2.8	25.7	93	47.5
YY06005		202	2.3	22.9	93	47.3
YY06006		188	1.9	20.8	92	64.6
YY06007		129	1.3	13.0	69	68.1
YY06008		194	2.5	20.0	92	55.5
YY06009		200	2.1	21.1	88	45.1
YY06010		210	2.7	21.3	93	50.6
YY06011		96	1.2	12.7	66	65.7
YY06012		113	1.3	13.8	93	51.6
YY06013		87	0.8	9.8	61	53.7
YY06014		109	1.3	16.9	73	52.7
YY06015		114	1.2	14.3	66	64.1
YY06016		90	0.6	10.5	63	64.6
YY06017		141	1.5	16.7	64	54.0
YY06018		119	1.3	10.5	49	39.2
YY06019		146	2.2	16.8	67	59.0
YY06020		129	1.5	14.3	85	55.6
YY06021		147	1.8	22.8	75	56.0
YY06022		138	1.8	21.2	94	54.9
YY06023		106	0.9	12.6	65	56.5
YY06024		90	1.0	16.5	69	41.7
YY06025		120	1.3	16.0	74	54.7
YY06026		114	1.3	16.2	55	54.3
YY06027		120	1.4	15.9	58	48.0
YY06028		151	2.9	19.9	62	45.8
YY06029		137	2.1	14.4	57	40.2
YY06030		159	2.0	19.3	71	43.6
YY06031		167	3.0	27.1	119	50.0
YY06032		151	1.8	21.1	81	51.7
YY06033		126	0.8	20.5	143	25.7
YY06034		283	2.6	39.4	234	53.0
YY06035		166	2.1	22.4	93	54.0
YY06036		104	1.3	13.0	65	47.0
YY06037		167	3.1	17.9	100	52.7
YY06038		92	1.6	13.6	84	33.5
YY06039		110	1.4	12.6	62	52.4
YY06040		49	0.6	9.4	73	20.1



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY06041		0.45	0.005	0.29	7.52	8.2	740	1.02	0.99	1.62	0.20	34.2	25.2	118	4.59	59.0
YY06042		0.25	0.006	0.34	7.50	8.0	790	1.06	0.55	1.96	0.24	37.7	24.1	111	3.60	59.6
YY06043		0.33	<0.001	0.31	7.31	7.2	700	0.94	0.71	1.97	0.17	29.0	20.7	112	3.96	55.4
YY06044		0.35	0.002	0.21	7.93	7.5	820	1.06	1.34	1.69	0.17	34.8	23.3	113	3.80	57.7
YY06045		0.26	0.001	0.12	6.32	6.0	910	1.09	0.46	1.52	0.26	33.8	10.9	76	5.62	22.9
YY06046		0.42	0.002	0.12	7.49	7.8	860	1.07	0.65	1.44	0.17	36.1	18.8	107	2.74	39.1
YY06047		0.34	0.002	0.10	7.79	9.9	860	1.12	0.89	1.67	0.16	34.9	22.9	109	3.40	44.8
YY06048		0.33	0.001	0.08	7.57	8.2	850	1.14	0.60	1.41	0.17	35.3	19.6	104	4.07	41.2
YY06049		0.32	0.004	0.11	6.87	7.0	730	0.96	0.63	1.23	0.19	33.3	16.2	103	5.12	33.8
YY06050		0.32	<0.001	0.10	7.08	5.5	680	0.91	0.74	1.09	0.22	29.1	16.4	109	6.03	35.8
YY06051		0.25	0.010	0.14	6.88	5.3	740	0.94	0.60	1.38	0.19	30.8	14.4	83	7.47	29.5
YY06052		0.35	0.006	0.17	6.90	4.9	790	1.04	0.55	1.33	0.13	32.6	11.7	67	4.45	29.5
YY06053		0.34	0.002	0.08	7.02	6.9	870	1.19	0.20	1.27	0.29	34.3	15.4	94	3.71	35.7
YY06054		0.38	0.006	0.09	7.32	5.2	840	1.10	0.21	1.61	0.18	33.4	11.5	62	4.78	29.5
YY06055		0.35	0.050	0.12	7.71	10.8	850	1.09	0.24	1.22	0.26	33.8	20.2	109	5.32	41.7
YY06056		0.31	<0.001	0.05	7.01	7.5	920	1.07	0.25	1.42	0.29	33.9	13.6	89	6.62	27.3
YY06057		0.23	<0.001	0.08	7.74	4.9	770	1.26	0.16	2.37	0.16	40.3	13.7	50	4.32	27.8
YY06058		0.19	<0.001	0.09	7.19	2.3	740	1.15	0.17	2.16	0.09	33.5	10.0	22	3.48	16.5
YY06059		0.33	0.004	0.07	6.42	6.7	820	1.04	0.19	1.46	0.32	35.1	17.0	83	6.68	37.7
YY06060		0.29	<0.001	0.11	6.97	2.8	810	1.13	0.15	1.90	0.20	34.4	9.0	23	2.63	25.7
YY06061		0.34	0.009	0.12	6.61	8.6	840	1.17	0.20	1.29	0.25	35.9	13.0	83	2.98	26.8
YY06062		0.22	<0.001	0.08	6.08	7.0	870	1.04	0.22	1.22	0.13	30.3	9.7	66	4.58	20.9
YY06063		0.36	0.006	0.24	7.74	14.2	930	1.22	0.23	1.99	0.35	46.6	25.1	98	4.19	57.0
YY06064		0.30	0.024	0.14	7.71	11.2	910	1.22	0.15	1.96	0.21	42.6	20.7	106	3.79	49.2
YY06065		0.27	<0.001	0.05	6.78	9.3	970	1.02	0.19	1.39	0.22	36.3	13.5	95	3.87	23.1
YY06066		0.29	0.005	0.09	6.41	9.2	830	1.97	0.15	1.43	0.28	35.5	15.4	90	2.63	26.2
YY06067		0.29	0.004	0.08	7.80	9.6	880	1.07	0.16	1.93	0.20	37.0	22.5	118	3.96	49.2
YY06068		0.23	0.004	0.06	6.82	8.0	1040	1.09	0.23	1.55	0.19	34.9	13.9	94	4.84	26.6
YY06069		0.31	0.007	0.25	7.80	15.9	860	1.08	0.20	1.80	0.29	34.1	24.7	124	7.72	61.7
YY06070		0.29	0.007	0.17	7.95	12.2	900	1.11	0.25	1.71	0.26	36.6	23.9	122	8.54	59.2
YY06071		0.21	0.006	0.25	7.53	8.5	820	1.17	0.18	1.57	0.11	34.9	16.4	62	4.03	49.6
YY06072		0.44	0.004	0.13	7.92	14.1	850	1.15	0.15	1.90	0.21	38.4	24.0	99	3.48	53.8
YY06073		0.28	<0.001	0.10	7.42	9.9	880	1.08	0.15	1.72	0.17	35.2	19.7	119	3.28	42.9
YY06074		0.32	0.051	0.06	7.25	9.7	810	1.02	0.13	1.61	0.39	35.4	20.3	96	2.73	31.5
YY06075		0.25	0.001	0.12	6.61	4.4	840	1.02	0.17	1.57	0.13	33.1	8.1	41	2.07	18.6
YY06076		0.37	0.008	0.07	6.94	8.6	850	1.04	0.12	1.83	0.19	37.0	15.6	91	2.37	28.9
YY06077		0.42	0.002	0.09	7.29	9.4	950	1.11	0.19	1.85	0.16	40.1	15.6	89	2.38	28.0
YY06078		0.30	0.002	0.10	6.90	7.5	890	0.99	0.13	1.88	0.15	40.2	13.3	86	1.91	25.5
YY06079		0.32	0.002	0.05	6.86	7.9	940	1.02	0.15	1.63	0.12	36.5	11.9	81	2.26	22.7
YY06080		0.39	0.003	0.09	7.53	8.5	1100	1.35	0.13	1.71	0.26	44.4	17.0	75	2.23	29.1



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY06041		5.12	16.35	0.14	1.6	0.056	1.17	17.1	16.2	2.12	888	1.08	2.40	6.7	51.7	690
YY06042		4.94	16.40	0.13	1.5	0.057	1.23	18.5	15.4	2.06	961	0.87	2.46	7.2	51.6	710
YY06043		5.00	16.45	0.13	1.3	0.057	1.06	14.6	15.8	2.08	690	0.71	2.30	6.1	46.8	740
YY06044		5.29	17.60	0.11	1.4	0.062	1.30	17.5	16.7	2.23	876	0.83	2.48	7.4	50.5	620
YY06045		3.90	16.65	0.12	1.7	0.045	1.50	17.1	16.8	1.10	554	1.13	1.80	9.8	23.5	670
YY06046		4.63	16.50	0.11	1.8	0.053	1.30	16.8	16.0	1.77	770	0.95	2.05	8.2	42.5	1040
YY06047		5.28	17.95	0.11	1.9	0.061	1.38	17.0	19.3	2.07	913	1.10	2.14	7.8	49.9	710
YY06048		4.79	16.85	0.11	1.8	0.055	1.34	16.6	17.2	1.78	867	1.02	1.98	8.3	42.8	1030
YY06049		4.52	16.60	0.12	1.8	0.055	1.25	16.2	15.7	1.54	641	1.00	1.95	8.4	33.9	1200
YY06050		4.65	16.85	0.10	1.8	0.054	1.20	14.1	17.2	1.65	723	0.92	1.95	7.4	35.1	1420
YY06051		4.11	16.55	0.11	2.0	0.044	1.39	15.4	15.7	1.30	758	1.10	1.94	7.5	27.2	1280
YY06052		3.59	16.70	0.10	2.1	0.044	1.41	16.8	13.5	1.06	459	1.13	2.11	7.5	22.0	1130
YY06053		4.29	15.50	0.10	1.8	0.051	1.45	15.9	15.7	1.40	631	0.92	1.79	8.9	35.5	1370
YY06054		3.78	18.20	0.13	2.4	0.042	1.70	16.6	16.0	1.08	528	1.27	2.16	8.5	21.0	900
YY06055		5.27	17.95	0.11	1.8	0.063	1.37	16.1	22.2	1.81	751	1.01	1.70	8.8	46.1	570
YY06056		4.31	17.85	0.11	1.9	0.050	1.59	16.5	16.8	1.38	653	0.98	2.03	8.8	29.5	670
YY06057		3.91	19.05	0.15	2.2	0.042	1.57	18.6	17.1	1.36	527	1.00	2.42	8.1	23.9	790
YY06058		3.12	18.95	0.14	2.6	0.028	1.82	16.8	16.1	0.79	621	1.50	2.54	7.1	8.4	970
YY06059		4.29	16.65	0.12	2.0	0.052	1.34	16.3	15.6	1.32	775	1.22	1.81	8.7	31.6	1840
YY06060		2.63	17.90	0.14	2.7	0.028	1.89	17.3	16.2	0.71	656	1.60	2.45	6.9	9.5	1050
YY06061		3.75	15.25	0.12	1.8	0.049	1.37	17.3	14.2	1.06	732	1.19	1.84	8.8	26.7	1620
YY06062		3.27	16.95	0.11	2.2	0.044	1.58	14.9	9.8	0.64	499	1.79	1.93	10.4	17.5	940
YY06063		4.80	17.55	0.13	1.5	0.056	1.55	22.3	17.9	1.82	936	0.93	2.45	8.1	47.4	790
YY06064		4.53	17.10	0.15	1.8	0.054	1.44	21.2	15.7	1.72	961	0.74	2.36	7.9	46.0	850
YY06065		4.33	17.85	0.12	1.9	0.051	1.60	18.1	12.7	1.16	640	1.13	2.02	9.6	26.5	980
YY06066		4.28	15.25	0.10	1.6	0.051	1.31	17.2	12.1	1.11	766	1.03	1.86	7.9	27.8	1830
YY06067		4.94	17.30	0.12	1.6	0.059	1.35	18.2	16.3	2.04	903	0.72	2.39	8.0	46.9	740
YY06068		3.87	18.55	0.13	1.9	0.049	1.70	17.0	14.9	1.13	969	1.11	1.91	10.3	27.3	1350
YY06069		5.56	18.20	0.12	1.6	0.064	1.35	17.2	20.4	2.37	923	0.84	1.97	7.4	65.8	880
YY06070		5.54	18.45	0.12	2.0	0.067	1.39	17.9	20.3	2.19	963	0.88	1.95	8.1	59.0	900
YY06071		4.08	19.00	0.14	2.5	0.049	1.66	18.9	21.4	1.47	765	1.20	2.09	6.4	31.9	1180
YY06072		4.98	17.90	0.13	1.5	0.060	1.38	18.5	17.1	1.97	882	0.67	2.41	7.5	45.4	680
YY06073		4.89	16.95	0.13	1.8	0.055	1.37	17.0	16.5	1.81	857	0.71	2.07	8.9	46.8	810
YY06074		4.75	16.60	0.13	1.7	0.056	1.33	16.8	13.4	1.45	919	0.78	2.21	7.9	33.1	1040
YY06075		2.71	16.60	0.13	2.3	0.031	1.82	16.8	14.0	0.67	522	1.44	2.32	7.3	12.5	1030
YY06076		4.04	15.75	0.13	1.7	0.051	1.36	17.2	13.9	1.42	685	0.79	2.31	7.8	32.5	800
YY06077		3.97	15.95	0.06	1.4	0.059	1.47	20.4	14.4	1.41	696	0.75	2.30	7.4	31.3	640
YY06078		3.55	14.40	0.07	1.4	0.049	1.36	19.9	12.1	1.31	729	0.58	2.28	6.8	27.8	790
YY06079		3.58	14.55	0.07	1.4	0.069	1.40	18.0	13.6	1.22	586	0.72	2.02	7.3	26.5	1100
YY06080		3.77	15.20	0.07	1.4	0.057	1.39	21.9	16.4	1.37	771	0.72	2.18	7.5	28.6	980



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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	
	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
Method Analyte Units LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	
YY06041	19.0	43.3	0.002	0.02	0.96	25.1	<1	1.1	244	0.46	0.18	5.22	0.581	0.41	1.3	
YY06042	16.1	42.5	0.002	0.02	1.02	25.1	<1	1.2	289	0.49	0.10	5.05	0.563	0.38	1.2	
YY06043	15.7	38.5	<0.002	0.05	0.89	25.6	1	1.0	248	0.43	0.15	4.52	0.545	0.38	1.1	
YY06044	17.8	43.8	<0.002	0.02	0.97	25.1	<1	1.2	268	0.51	0.16	5.17	0.577	0.41	1.3	
YY06045	14.6	53.3	<0.002	0.04	1.04	13.7	<1	1.4	261	0.72	0.09	5.64	0.433	0.45	1.6	
YY06046	16.0	44.1	<0.002	0.04	1.04	18.3	1	1.2	252	0.60	0.09	5.81	0.494	0.41	1.5	
YY06047	19.0	47.0	0.002	0.03	1.15	20.7	<1	1.2	255	0.53	0.14	5.76	0.520	0.40	1.4	
YY06048	18.4	51.2	<0.002	0.04	1.05	19.6	<1	1.3	236	0.56	0.11	5.96	0.482	0.45	1.5	
YY06049	14.5	46.6	<0.002	0.05	0.92	18.1	1	1.2	219	0.59	0.10	5.73	0.511	0.42	1.6	
YY06050	13.6	47.3	<0.002	0.07	0.88	19.4	<1	1.2	211	0.52	0.09	4.78	0.524	0.42	1.5	
YY06051	14.6	52.6	<0.002	0.05	0.85	16.0	<1	1.1	287	0.53	0.12	5.10	0.449	0.39	1.4	
YY06052	12.4	46.1	<0.002	0.05	0.85	13.5	<1	1.1	316	0.54	0.10	6.07	0.408	0.39	1.7	
YY06053	13.0	52.1	<0.002	0.06	1.09	15.8	<1	1.3	240	0.73	0.05	6.63	0.435	0.40	1.7	
YY06054	12.1	48.8	<0.002	0.04	0.90	12.0	1	1.2	401	0.61	<0.05	5.59	0.420	0.39	1.8	
YY06055	17.9	49.8	<0.002	0.03	1.22	18.9	1	1.4	218	0.61	0.07	6.34	0.479	0.43	1.4	
YY06056	16.6	51.0	<0.002	0.03	1.02	14.3	<1	1.3	319	0.61	0.06	5.59	0.437	0.40	1.5	
YY06057	12.7	41.7	<0.002	0.03	0.77	13.2	1	1.1	575	0.55	<0.05	5.80	0.465	0.32	1.6	
YY06058	11.6	42.9	<0.002	0.03	0.53	7.5	<1	0.9	600	0.48	<0.05	5.55	0.400	0.27	1.8	
YY06059	15.0	48.6	<0.002	0.07	1.01	14.9	1	1.3	267	0.62	<0.05	5.33	0.425	0.34	1.5	
YY06060	11.8	49.6	<0.002	0.05	0.60	7.3	<1	0.9	529	0.49	<0.05	5.87	0.315	0.28	1.8	
YY06061	17.3	51.5	<0.002	0.07	1.16	15.0	<1	1.3	255	0.64	0.05	6.25	0.407	0.42	1.7	
YY06062	15.0	60.0	<0.002	0.04	1.30	13.3	1	1.8	265	0.80	0.07	5.06	0.491	0.47	1.9	
YY06063	20.1	47.8	0.002	0.01	1.54	22.1	1	1.2	323	0.58	0.07	6.99	0.489	0.44	1.4	
YY06064	16.6	48.7	<0.002	0.02	20.7	20.6	<1	1.3	334	0.60	0.05	6.40	0.475	0.39	1.6	
YY06065	16.7	61.6	<0.002	0.03	1.34	15.4	<1	1.5	277	0.70	0.06	5.69	0.485	0.44	1.6	
YY06066	14.2	49.9	<0.002	0.07	1.21	15.2	1	1.2	256	0.58	0.06	6.08	0.431	0.36	1.7	
YY06067	15.3	43.7	<0.002	0.03	1.12	21.8	<1	1.2	301	0.56	<0.05	5.80	0.500	0.37	1.4	
YY06068	16.8	65.9	<0.002	0.06	1.29	14.7	1	1.6	284	0.75	0.05	6.08	0.440	0.49	1.7	
YY06069	16.3	50.7	<0.002	0.04	1.44	26.2	<1	1.2	248	0.48	0.06	5.90	0.453	0.41	1.3	
YY06070	19.1	54.0	<0.002	0.04	1.38	24.2	<1	1.3	245	0.54	0.09	6.37	0.473	0.44	1.6	
YY06071	15.3	46.1	<0.002	0.07	1.48	15.6	<1	1.0	375	0.44	<0.05	6.24	0.320	0.35	1.7	
YY06072	15.6	40.7	<0.002	0.02	2.52	22.5	<1	1.2	299	0.51	0.06	5.63	0.519	0.37	1.3	
YY06073	14.7	47.6	<0.002	0.03	1.48	19.8	<1	1.3	268	0.68	0.05	5.74	0.491	0.37	1.4	
YY06074	15.2	49.1	<0.002	0.04	1.41	18.8	<1	1.3	272	0.55	<0.05	5.17	0.547	0.36	1.4	
YY06075	11.9	49.6	<0.002	0.06	0.83	8.6	1	1.0	413	0.53	<0.05	5.49	0.333	0.34	1.6	
YY06076	13.0	45.1	<0.002	0.03	1.16	17.1	<1	1.1	313	0.55	0.05	5.50	0.476	0.32	1.4	
YY06077	12.8	52.8	<0.002	0.02	1.23	16.4	1	1.2	316	0.54	0.05	5.07	0.468	0.40	1.6	
YY06078	12.0	43.9	<0.002	0.04	1.06	15.4	<1	1.0	321	0.52	<0.05	4.87	0.451	0.35	1.6	
YY06079	12.0	47.9	<0.002	0.04	1.14	13.8	1	1.1	286	0.53	<0.05	4.69	0.430	0.41	1.5	
YY06080	14.5	48.1	<0.002	0.03	1.21	15.6	1	1.1	311	0.57	0.05	5.74	0.428	0.40	1.7	



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Sample Description	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY06041		179	4.8	20.7	78	46.6
YY06042		172	3.6	22.8	77	42.9
YY06043		178	4.0	19.7	78	40.4
YY06044		189	4.3	20.7	80	43.0
YY06045		130	2.3	12.9	55	56.3
YY06046		151	2.6	16.3	73	53.2
YY06047		172	3.6	16.7	85	57.4
YY06048		157	3.3	16.3	76	56.7
YY06049		151	4.2	15.0	66	56.5
YY06050		163	4.6	12.8	76	56.1
YY06051		137	3.8	13.2	80	58.6
YY06052		116	2.6	11.2	58	61.5
YY06053		127	1.8	18.1	70	51.2
YY06054		113	1.4	12.0	63	72.1
YY06055		158	2.0	14.8	78	55.6
YY06056		133	2.0	11.9	78	61.0
YY06057		115	1.1	13.7	69	68.1
YY06058		86	0.8	9.5	57	86.2
YY06059		133	1.7	14.1	83	51.6
YY06060		74	0.8	9.7	58	87.6
YY06061		119	1.6	14.6	57	56.2
YY06062		135	2.2	11.8	43	75.4
YY06063		158	3.6	21.1	78	44.7
YY06064		154	1.8	20.3	69	54.1
YY06065		149	1.8	13.2	67	61.3
YY06066		132	1.5	15.3	56	48.0
YY06067		171	2.0	17.9	76	46.0
YY06068		132	1.7	13.1	59	67.2
YY06069		182	2.3	19.9	98	55.0
YY06070		179	2.5	20.1	91	59.0
YY06071		117	1.3	20.6	72	95.0
YY06072		173	2.3	20.5	76	45.3
YY06073		158	1.9	20.7	70	62.6
YY06074		161	2.0	17.9	63	48.7
YY06075		85	1.0	9.6	47	77.3
YY06076		139	1.6	16.8	56	65.8
YY06077		143	1.5	15.8	59	41.4
YY06078		130	1.4	18.1	54	46.7
YY06079		126	1.4	13.8	56	39.7
YY06080		127	3.4	17.5	62	41.4



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY06081		0.32	0.019	0.15	7.12	19.0	840	1.05	0.12	1.89	0.45	49.9	15.4	76	3.09	54.4
YY06082		0.35	<0.001	0.11	6.79	4.3	770	1.09	0.14	1.80	0.19	36.4	10.0	38	1.83	18.8
YY06083		0.39	0.011	0.10	7.12	8.9	920	1.20	0.16	1.39	0.23	36.2	13.5	89	3.41	27.4
YY06084		0.22	<0.001	0.10	7.39	2.1	740	1.13	0.13	2.45	0.20	33.4	10.0	17	1.42	15.0
YY06085		0.34	0.008	0.11	6.91	7.3	860	1.13	0.13	1.63	0.21	38.9	13.0	77	2.32	28.2
YY06086		0.42	0.007	0.09	7.67	8.8	1000	1.16	0.15	2.03	0.13	42.4	16.3	95	2.34	35.5
YY06087		0.28	0.003	0.09	7.34	8.9	950	1.20	0.15	1.77	0.17	38.1	16.2	88	2.84	30.9
YY06088		0.41	0.003	0.16	7.17	10.8	900	1.15	0.14	1.74	0.18	38.4	16.9	91	3.14	42.4
YY06089		0.35	0.002	0.11	7.79	10.7	950	1.22	0.14	1.99	0.28	42.8	19.5	102	2.47	42.0
YY06090		0.28	<0.001	0.16	7.02	4.5	800	1.20	0.14	2.09	0.62	36.4	13.8	57	3.20	26.2
YY06091		0.42	0.003	0.10	7.02	8.1	860	1.20	0.13	1.98	0.32	37.5	16.1	102	2.28	28.7
YY06092		0.37	<0.001	0.09	6.76	8.6	870	1.28	0.14	1.62	0.30	39.4	15.1	91	2.18	29.6
YY06093		0.35	<0.001	0.12	6.25	6.4	800	1.01	0.13	1.49	0.29	31.7	12.5	75	2.32	21.7
YY06094		0.29	0.001	0.08	6.20	7.6	990	1.10	0.16	1.29	0.31	32.4	9.8	90	2.47	18.1
YY06095		0.47	<0.001	0.11	7.12	7.7	890	1.14	0.16	1.61	0.24	40.4	15.5	100	4.90	30.7
YY06096		0.30	0.017	0.13	7.02	7.7	880	1.01	0.14	1.60	0.25	38.8	17.7	107	7.71	34.0
YY06097		0.35	<0.001	0.07	6.69	5.7	840	1.05	0.18	1.47	0.15	33.0	13.4	82	3.77	22.3
YY06098		0.44	0.004	0.10	6.98	6.8	840	1.16	0.17	1.61	0.27	35.3	16.3	90	3.83	29.6
YY06099		0.21	<0.001	0.14	6.25	3.6	750	1.01	0.16	1.68	0.31	33.5	13.3	48	7.27	21.7
YY06100		0.36	<0.001	0.10	7.05	6.3	800	1.06	0.17	1.67	0.26	39.0	17.5	85	3.92	30.2
YY06101		0.39	0.008	1.03	7.86	14.0	1080	1.24	0.18	1.34	0.51	45.7	29.6	83	2.46	97.4
YY06102		0.31	<0.001	0.18	6.80	7.4	1060	1.28	0.17	1.54	0.17	39.0	9.6	67	2.08	20.4
YY06103		0.38	0.001	0.58	6.34	10.4	940	1.10	0.17	0.99	0.15	33.0	18.3	59	2.52	64.2
YY06105		0.42	0.005	0.71	7.16	17.8	890	1.22	0.18	0.98	0.23	50.4	27.4	66	2.54	82.4
YY06106		0.34	0.002	0.35	6.81	12.6	970	1.09	0.17	1.38	0.21	48.0	16.4	70	2.21	48.2
YY06107		0.35	0.003	0.32	7.37	9.8	1120	1.27	0.20	1.38	0.22	47.0	14.9	82	2.34	46.4
YY06108		0.46	0.007	0.50	7.79	11.1	1350	1.49	0.21	1.49	0.23	55.6	18.0	75	2.85	78.2
YY06109		0.51	0.007	0.29	7.54	10.5	1250	1.35	0.22	1.54	0.18	49.4	15.9	80	2.66	69.1
YY06110		0.31	0.004	0.30	7.41	11.6	1090	1.34	0.22	1.27	0.29	44.6	19.0	76	3.74	76.5
YY06111		0.19	0.001	0.13	5.58	6.7	720	0.87	0.15	1.35	0.45	26.7	11.1	68	2.96	20.5
YY06112		0.29	0.005	0.15	7.06	7.2	670	0.92	0.09	1.86	0.19	27.9	19.5	108	1.75	40.7
YY06113		0.19	0.002	0.14	6.52	5.1	680	0.93	0.13	1.69	0.25	32.4	12.3	74	2.10	20.6
YY06114		0.33	0.001	0.11	6.26	5.3	780	1.11	0.19	1.33	0.16	40.1	8.1	71	2.42	17.6
YY06115		0.46	<0.001	0.07	7.34	8.3	680	0.96	0.09	1.85	0.18	31.9	17.8	115	1.80	39.5
YY06116		0.34	<0.001	0.08	7.59	6.5	700	0.91	0.08	2.16	0.16	29.0	20.7	114	1.66	40.9
YY06117		0.22	0.003	0.08	7.61	7.7	740	0.95	0.09	1.93	0.18	32.1	21.7	111	1.99	42.4
YY06118		0.39	0.003	0.12	5.90	5.2	670	0.93	0.16	1.30	0.13	28.7	9.9	83	1.82	25.4
YY06119		0.31	0.008	0.11	7.12	9.4	670	1.04	0.08	2.34	0.14	33.6	17.1	95	1.60	40.1
YY06120		0.52	<0.001	0.24	7.25	17.0	690	0.92	0.08	2.58	0.14	30.9	19.7	92	1.89	46.5
YY06121		0.38	0.003	0.09	7.34	11.5	690	0.83	0.08	2.34	0.13	30.6	21.0	93	1.68	47.1



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY06081		4.18	15.40	0.08	1.7	0.056	1.38	26.6	18.5	1.33	861	0.91	2.04	7.3	31.4	1120
YY06082		2.97	16.85	0.08	2.2	0.034	1.70	19.7	16.4	0.88	662	1.24	2.26	6.7	14.1	1070
YY06083		4.02	16.00	0.08	1.6	0.056	1.42	17.9	17.2	1.35	779	0.72	1.92	8.4	30.1	1690
YY06084		2.95	18.30	0.07	2.4	0.035	1.76	17.1	17.0	0.87	689	1.24	2.56	6.1	8.0	930
YY06085		3.59	15.05	0.08	1.7	0.051	1.42	19.8	15.9	1.28	705	0.81	1.98	7.2	26.3	1700
YY06086		4.17	16.05	0.09	1.4	0.053	1.48	20.5	16.0	1.62	793	0.57	2.36	7.6	35.2	880
YY06087		4.12	16.00	0.09	1.6	0.056	1.44	18.9	17.3	1.49	816	0.75	2.07	7.8	33.7	1260
YY06088		4.24	15.15	0.07	1.5	0.056	1.32	19.3	18.2	1.63	814	0.76	1.90	7.0	37.8	1100
YY06089		4.53	16.30	0.08	1.4	0.057	1.42	21.6	18.1	1.77	849	0.89	2.32	7.4	45.0	1060
YY06090		3.73	17.45	0.07	2.0	0.045	1.47	18.6	16.9	1.29	985	1.04	2.14	7.1	21.3	2080
YY06091		4.29	15.10	0.08	1.6	0.056	1.32	19.1	17.1	1.68	817	0.74	1.95	7.5	33.5	1620
YY06092		3.84	14.75	0.07	1.6	0.061	1.30	19.7	16.6	1.31	800	0.74	1.94	7.0	36.2	1820
YY06093		3.47	14.60	0.09	1.6	0.049	1.32	15.6	13.0	0.97	760	1.04	1.86	7.3	22.8	1540
YY06094		3.75	15.20	0.08	1.6	0.048	1.44	16.1	15.7	1.10	609	0.76	1.70	8.5	24.5	1900
YY06095		4.09	16.05	0.09	1.6	0.062	1.36	19.1	18.4	1.52	725	0.75	1.91	8.0	36.9	1220
YY06096		4.61	16.00	0.08	1.4	0.061	1.38	18.6	19.0	1.75	813	0.79	1.91	7.7	39.4	960
YY06097		3.84	15.60	0.07	1.6	0.051	1.32	16.5	15.9	1.27	813	0.94	1.95	7.5	25.1	1360
YY06098		4.22	15.05	0.08	1.5	0.053	1.27	17.2	16.5	1.53	833	0.65	1.96	7.3	32.1	1300
YY06099		3.10	15.35	0.08	1.9	0.043	1.43	16.6	16.4	0.95	1320	1.18	1.92	6.4	16.1	2010
YY06100		4.30	14.95	0.08	1.5	0.059	1.27	19.0	16.3	1.50	804	0.61	2.00	7.2	29.2	1290
YY06101		5.07	15.20	0.11	1.7	0.066	1.20	22.7	25.9	1.39	927	1.77	2.19	6.5	59.3	800
YY06102		3.22	15.25	0.09	1.7	0.052	1.47	20.5	20.1	0.89	469	0.95	1.96	9.3	20.6	550
YY06103		4.22	13.05	0.08	1.5	0.057	1.09	18.9	21.5	0.98	707	1.67	1.66	5.9	31.2	2140
YY06105		5.07	14.35	0.10	1.6	0.074	1.08	25.6	30.1	1.16	1180	1.43	1.96	5.8	41.7	1440
YY06106		3.65	13.85	0.10	1.5	0.059	1.14	23.0	20.8	1.03	732	1.22	1.82	7.0	35.5	1260
YY06107		3.71	15.25	0.09	1.6	0.050	1.40	23.4	21.1	1.16	583	1.07	2.16	7.6	36.7	690
YY06108		4.23	15.85	0.11	1.5	0.057	1.60	29.4	22.1	1.39	911	0.99	2.28	7.7	46.0	540
YY06109		4.23	16.05	0.09	1.8	0.058	1.44	26.9	23.4	1.38	927	1.06	2.06	7.8	41.4	1180
YY06110		4.43	15.60	0.09	1.7	0.054	1.37	22.4	24.5	1.32	947	1.30	1.77	7.4	42.3	1520
YY06111		3.20	13.00	0.07	1.5	0.047	1.22	13.5	15.0	1.02	763	1.07	1.57	6.0	21.3	1840
YY06112		4.46	16.15	0.07	1.4	0.069	1.00	14.2	20.4	1.60	875	0.92	1.98	5.3	42.5	700
YY06113		4.22	17.75	0.08	1.9	0.071	1.13	15.5	16.3	1.24	689	1.13	1.95	7.4	25.0	650
YY06114		3.05	15.75	0.07	2.0	0.057	1.33	17.5	14.2	0.86	606	1.24	1.62	9.2	19.5	2020
YY06115		4.38	15.75	0.08	1.3	0.067	0.98	15.9	17.6	1.55	828	1.00	2.06	5.7	45.5	850
YY06116		4.57	16.30	0.06	1.2	0.063	1.00	14.0	17.6	1.73	919	0.74	2.26	5.4	47.8	600
YY06117		4.66	17.20	0.08	1.2	0.071	1.11	16.3	18.9	1.69	935	0.91	2.13	5.8	47.1	590
YY06118		3.36	14.75	0.06	1.5	0.055	1.00	14.7	12.8	0.94	554	1.03	1.44	8.1	26.3	2580
YY06119		4.26	15.00	0.08	1.5	0.072	1.02	17.2	15.0	1.56	839	0.64	2.26	5.8	39.8	540
YY06120		4.43	15.75	0.08	1.1	0.071	1.00	15.5	15.6	1.62	949	0.57	2.36	4.9	38.4	660
YY06121		4.67	15.75	0.08	1.2	0.072	0.97	15.7	15.5	1.65	1020	0.48	2.37	4.9	37.4	510



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY06081		14.3	45.8	<0.002	0.03	1.92	17.5	1	1.1	315	0.53	<0.05	6.41	0.423	0.39	2.1
YY06082		10.1	44.6	<0.002	0.06	0.79	8.8	1	0.9	469	0.50	<0.05	5.25	0.354	0.32	2.0
YY06083		13.5	54.7	<0.002	0.05	1.49	16.4	1	1.3	265	0.62	<0.05	5.44	0.455	0.42	1.9
YY06084		8.0	43.0	<0.002	0.05	0.46	7.5	1	0.8	667	0.43	<0.05	4.67	0.392	0.28	1.8
YY06085		12.0	52.0	<0.002	0.06	1.10	14.5	<1	1.1	319	0.53	<0.05	5.80	0.408	0.37	1.7
YY06086		12.9	50.2	<0.002	0.02	1.46	17.7	1	1.2	330	0.60	0.05	5.93	0.491	0.41	1.6
YY06087		14.2	52.5	<0.002	0.04	1.28	16.8	1	1.2	298	0.58	<0.05	5.48	0.463	0.40	1.8
YY06088		12.8	46.5	<0.002	0.05	1.29	18.1	1	1.1	271	0.53	0.06	5.49	0.448	0.39	1.6
YY06089		13.1	46.9	<0.002	0.04	1.37	19.2	1	1.1	322	0.53	<0.05	5.75	0.482	0.40	1.6
YY06090		10.2	62.3	<0.002	0.08	0.81	14.7	1	1.0	438	0.50	<0.05	5.17	0.458	0.32	1.7
YY06091		12.4	50.1	<0.002	0.05	1.14	19.2	1	1.1	278	0.63	<0.05	5.24	0.470	0.34	1.7
YY06092		12.8	50.0	<0.002	0.06	1.11	15.9	1	1.1	291	0.51	<0.05	5.20	0.425	0.34	1.7
YY06093		11.4	47.2	<0.002	0.07	1.10	12.5	1	1.1	290	0.56	0.05	4.38	0.411	0.37	1.7
YY06094		13.0	54.0	<0.002	0.07	1.19	13.0	1	1.2	246	0.65	<0.05	5.09	0.428	0.40	1.7
YY06095		11.9	50.7	<0.002	0.05	1.10	17.9	1	1.2	269	0.57	<0.05	5.75	0.441	0.42	1.7
YY06096		11.3	50.0	<0.002	0.04	1.15	17.5	1	1.1	261	0.54	<0.05	5.24	0.445	0.38	1.6
YY06097		12.1	50.3	<0.002	0.04	0.87	15.6	1	1.1	270	0.53	0.06	5.25	0.453	0.39	1.7
YY06098		13.2	48.0	<0.002	0.06	1.56	18.3	<1	1.1	261	0.51	<0.05	4.82	0.480	0.35	1.6
YY06099		11.0	49.6	<0.002	0.10	0.65	11.5	1	0.9	354	0.46	<0.05	4.87	0.350	0.34	1.8
YY06100		12.7	47.2	<0.002	0.06	0.84	18.6	1	1.1	266	0.51	0.05	4.87	0.484	0.34	1.6
YY06101		12.5	41.4	<0.002	0.05	1.42	19.3	2	0.9	416	0.43	0.08	5.71	0.408	0.36	2.3
YY06102		13.7	51.9	<0.002	0.03	1.04	10.7	1	1.3	326	0.70	<0.05	5.62	0.357	0.43	2.0
YY06103		11.8	44.4	<0.002	0.11	1.23	13.7	2	0.9	335	0.41	0.09	4.92	0.320	0.31	2.0
YY06105		13.9	40.6	<0.002	0.07	2.09	16.5	2	0.9	341	0.39	0.13	5.01	0.341	0.35	2.0
YY06106		12.2	41.3	<0.002	0.07	1.30	13.0	1	1.2	340	0.46	0.05	5.65	0.344	0.36	2.1
YY06107		13.3	48.6	<0.002	0.03	1.13	14.4	2	1.1	369	0.53	0.05	5.77	0.384	0.41	1.9
YY06108		15.2	56.4	<0.002	0.03	1.22	16.1	1	1.1	402	0.52	0.06	6.91	0.393	0.43	2.1
YY06109		14.2	51.3	<0.002	0.04	1.09	16.2	1	1.1	389	0.53	0.08	6.34	0.396	0.41	2.3
YY06110		14.8	53.2	<0.002	0.08	1.15	14.6	2	1.0	342	0.51	<0.05	6.46	0.373	0.43	2.5
YY06111		10.8	46.9	<0.002	0.10	0.85	11.7	1	0.9	269	0.45	<0.05	4.10	0.340	0.34	1.5
YY06112		9.2	37.1	<0.002	0.05	0.83	22.2	1	0.9	216	0.37	0.05	3.27	0.445	0.33	1.5
YY06113		9.0	45.8	<0.002	0.05	0.82	17.5	<1	1.4	267	0.52	0.05	3.48	0.568	0.35	1.5
YY06114		11.6	46.4	<0.002	0.08	0.86	12.4	1	1.3	240	0.68	0.05	4.90	0.378	0.44	2.0
YY06115		9.5	32.2	<0.002	0.04	0.96	22.3	1	1.0	224	0.39	0.05	3.50	0.462	0.37	1.5
YY06116		8.5	30.1	<0.002	0.02	0.86	22.6	<1	0.9	239	0.38	0.05	3.03	0.475	0.32	1.3
YY06117		9.9	38.4	<0.002	0.02	0.98	21.8	1	1.0	228	0.38	<0.05	3.34	0.466	0.35	1.4
YY06118		10.1	36.6	<0.002	0.08	0.86	14.3	1	1.2	190.5	0.58	<0.05	4.06	0.397	0.41	1.8
YY06119		8.1	34.0	<0.002	0.02	1.43	21.9	1	0.9	255	0.41	<0.05	3.37	0.482	0.27	1.3
YY06120		8.2	33.6	<0.002	0.01	2.20	24.2	<1	1.0	265	0.32	0.06	2.97	0.502	0.28	1.2
YY06121		8.1	31.4	<0.002	0.02	2.21	23.6	<1	0.9	250	0.34	<0.05	3.24	0.524	0.29	1.2



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY06081		148	2.2	19.7	84	44.8
YY06082		87	0.9	9.4	61	72.8
YY06083		136	1.7	16.5	71	48.1
YY06084		86	0.5	8.8	61	78.3
YY06085		120	1.3	14.3	68	47.5
YY06086		148	1.5	18.3	66	39.9
YY06087		138	1.6	16.3	67	51.1
YY06088		145	1.7	17.3	74	39.3
YY06089		153	1.6	18.2	81	41.4
YY06090		118	1.2	15.0	92	60.3
YY06091		147	1.8	16.5	82	41.8
YY06092		125	1.4	15.9	84	42.4
YY06093		114	1.3	13.4	62	65.2
YY06094		112	1.5	13.6	66	47.3
YY06095		134	1.7	18.5	72	49.2
YY06096		145	1.4	16.3	75	46.6
YY06097		135	1.8	13.6	64	62.0
YY06098		144	2.0	17.9	73	44.1
YY06099		97	1.3	11.7	67	60.0
YY06100		144	2.0	19.3	68	43.2
YY06101		151	1.0	23.0	109	56.6
YY06102		101	1.0	13.2	55	50.4
YY06103		107	0.8	16.1	81	50.0
YY06105		117	0.9	26.2	103	53.7
YY06106		112	0.9	18.2	75	51.0
YY06107		119	1.4	16.3	67	53.1
YY06108		124	2.6	20.5	85	45.4
YY06109		130	1.2	21.3	84	61.0
YY06110		131	1.2	18.2	98	63.8
YY06111		107	1.2	9.4	82	42.0
YY06112		155	1.1	20.0	88	44.6
YY06113		149	0.9	21.4	78	53.8
YY06114		100	1.0	13.9	59	73.8
YY06115		157	1.0	20.4	80	40.2
YY06116		166	1.0	19.4	78	37.5
YY06117		166	1.2	21.4	85	40.3
YY06118		113	1.1	13.8	55	54.6
YY06119		156	1.2	20.0	75	41.6
YY06120		166	1.7	23.5	77	38.3
YY06121		174	1.3	21.2	77	36.3



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY06122		0.34	0.020	0.12	7.65	16.5	720	0.96	0.09	2.31	0.16	29.0	27.1	108	2.32	58.5
YY06123		0.53	<0.001	0.06	7.14	11.1	670	0.80	0.07	2.57	0.11	29.8	18.0	94	1.55	43.2
YY06124		0.37	0.003	0.09	7.27	13.0	660	0.82	0.09	2.37	0.15	28.8	20.8	105	1.97	45.6
YY06125		0.47	0.002	0.07	7.38	14.2	670	0.92	0.09	2.28	0.15	28.3	21.4	101	1.96	48.6
YY06126		0.29	0.001	0.12	7.12	11.1	620	0.92	0.10	1.98	0.17	28.9	18.8	103	2.00	44.7
YY06127		0.23	<0.001	0.13	6.66	6.0	850	1.06	0.15	1.72	0.12	33.7	8.2	51	1.78	22.0
YY06128		0.27	0.002	0.06	6.59	9.5	750	0.98	0.13	1.56	0.29	28.5	13.9	86	2.16	27.9
YY06129		0.23	0.001	0.08	7.29	13.4	710	1.07	0.10	1.98	0.18	29.3	17.3	92	2.18	38.3
YY06130		0.20	<0.001	0.09	7.12	11.9	570	0.92	0.09	2.11	0.15	28.0	23.4	98	2.05	55.9
YY06131		0.42	0.001	0.11	6.64	7.4	920	1.02	0.17	1.61	0.12	36.1	9.7	84	1.97	19.2
YY06132		0.22	<0.001	0.10	6.63	11.7	540	0.78	0.09	1.91	0.14	23.9	20.9	87	2.36	41.4
YY06133		0.22	0.003	0.08	7.56	12.7	610	0.94	0.08	2.05	0.15	27.9	25.0	91	2.46	49.0
YY06134		0.25	<0.001	0.15	7.01	7.9	600	0.95	0.11	2.01	0.12	30.3	14.9	63	2.00	39.4
YY06135		0.23	0.101	0.23	7.11	15.7	680	0.85	0.11	1.79	0.15	27.2	18.4	93	2.74	43.1
YY06136		0.38	0.002	0.12	7.53	13.3	690	0.95	0.10	1.96	0.20	33.0	20.8	92	2.70	46.1
YY06137		0.24	<0.001	0.10	6.98	12.2	680	1.02	0.13	1.88	0.18	28.8	20.1	85	2.73	42.2
YY06138		0.18	0.002	0.10	6.46	10.5	680	0.89	0.11	1.62	0.18	25.9	14.9	76	2.63	31.9
YY06139		0.19	<0.001	0.08	6.26	9.3	700	0.86	0.12	1.54	0.25	27.5	12.6	75	2.94	25.9
YY06140		0.26	0.001	0.09	6.66	11.0	560	0.84	0.10	2.08	0.29	28.4	20.6	76	2.96	37.1
YY06141		0.33	<0.001	0.08	7.10	11.2	640	0.97	0.10	2.11	0.14	33.0	21.0	83	2.70	41.5
YY06142		0.34	<0.001	0.07	7.16	11.9	570	0.90	0.09	2.19	0.18	30.6	22.2	78	2.76	39.5
YY06143		0.22	0.002	0.17	6.44	11.5	620	0.92	0.11	1.78	0.24	25.7	19.6	79	2.32	37.2
YY06144		0.39	0.002	0.11	6.71	9.7	750	0.99	0.13	1.74	0.24	28.7	12.7	88	2.46	29.6
YY06145		0.40	<0.001	0.13	7.14	2.9	780	1.12	0.14	1.98	0.08	35.4	6.8	22	1.40	16.0
YY06146		0.15	<0.001	0.08	6.07	7.8	740	0.86	0.18	1.52	0.20	27.3	8.7	79	2.01	18.9
YY06147		0.26	<0.001	0.10	6.78	9.2	530	0.85	0.09	1.94	0.24	23.3	16.2	93	2.09	33.1
YY06148		0.27	<0.001	0.13	6.61	6.6	660	0.91	0.12	1.66	0.18	28.7	10.6	81	2.47	23.6
YY06149		0.19	0.002	0.26	6.08	4.0	600	0.95	0.11	1.60	0.10	29.0	7.8	48	1.61	21.8
YY06150		0.18	<0.001	0.08	6.37	7.3	850	1.09	0.17	1.61	0.14	30.7	8.6	85	2.44	16.2
YY06151		0.13	<0.001	0.14	6.84	12.5	570	0.86	0.12	1.93	0.21	25.5	17.2	100	2.21	37.2
YY06152		0.24	0.001	0.09	6.01	4.4	720	1.03	0.21	1.60	0.25	34.1	13.9	61	6.43	20.8
YY06153		0.24	0.001	0.18	6.71	3.0	830	1.09	0.18	2.04	0.11	36.0	8.3	28	2.12	16.0
YY06154		0.20	<0.001	0.11	5.85	3.7	760	0.95	0.18	1.81	0.66	33.5	11.3	49	3.26	20.5
YY06155		0.08	0.001	0.17	4.45	3.9	600	0.74	0.19	1.68	1.89	32.8	16.5	45	5.99	26.9
YY06156		0.26	0.001	0.12	6.97	4.0	710	1.07	0.27	2.11	0.25	36.8	9.3	32	2.25	18.7
YY06157		0.43	0.002	0.06	6.67	7.1	800	1.02	0.22	1.50	0.34	37.0	14.3	83	2.85	26.9
YY06158		0.42	0.004	0.25	7.32	7.9	780	1.25	0.25	1.79	0.33	44.2	17.8	87	4.91	41.1
YY06159		0.17	0.001	0.14	5.85	4.4	730	0.92	0.19	1.67	0.31	33.5	10.4	59	2.75	17.4
YY06160		0.16	0.003	0.10	5.30	3.1	600	0.90	0.18	1.59	0.27	30.7	15.9	42	3.81	22.5
YY06161		0.24	0.001	0.11	5.52	5.1	760	1.09	0.22	1.32	0.31	37.5	11.9	61	3.65	20.3



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		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY06122		188	1.6	21.7	89	37.9
YY06123		173	1.6	21.7	76	36.9
YY06124		174	1.6	21.2	84	38.9
YY06125		178	1.5	20.9	82	36.7
YY06126		164	1.3	20.3	78	36.1
YY06127		87	0.9	10.9	51	77.3
YY06128		135	1.3	15.6	58	58.5
YY06129		157	1.4	18.0	73	51.0
YY06130		164	1.4	23.3	87	44.4
YY06131		124	1.3	14.8	49	54.6
YY06132		164	1.6	17.6	82	45.1
YY06133		182	1.8	20.6	88	36.1
YY06134		135	1.1	18.1	76	70.0
YY06135		167	1.6	18.5	82	50.4
YY06136		173	1.5	21.6	88	55.2
YY06137		158	1.4	19.1	87	63.2
YY06138		126	1.2	18.2	73	53.3
YY06139		133	1.3	15.5	74	52.1
YY06140		190	1.3	22.2	86	51.7
YY06141		183	1.3	25.4	86	65.6
YY06142		203	1.4	25.3	95	36.6
YY06143		145	1.0	17.6	84	48.5
YY06144		128	1.1	16.2	63	52.4
YY06145		63	0.6	9.2	52	86.6
YY06146		115	1.1	14.2	54	59.9
YY06147		129	0.8	17.1	73	37.4
YY06148		111	0.9	16.4	61	51.4
YY06149		75	0.7	18.3	53	60.3
YY06150		116	1.0	13.6	51	53.7
YY06151		127	0.9	17.1	80	45.9
YY06152		107	1.4	10.9	66	60.5
YY06153		70	1.0	9.1	51	77.0
YY06154		94	1.4	11.2	71	60.0
YY06155		86	1.2	12.8	72	32.9
YY06156		91	1.3	10.1	60	78.0
YY06157		138	1.7	14.8	72	52.0
YY06158		155	3.6	20.0	73	47.9
YY06159		114	1.6	12.5	47	54.1
YY06160		119	1.2	12.8	70	66.5
YY06161		116	1.2	14.8	48	53.9



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166141

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
YY06162		0.22	<0.001	0.08	6.32	6.5	800	1.07	0.16	1.70	0.13	36.7	15.5	76	3.18	24.9
YY06163		0.25	0.001	0.08	6.64	6.4	750	0.99	0.17	1.76	0.24	36.2	17.6	79	2.79	29.9
YY06164		0.23	0.001	0.11	7.30	7.4	760	1.12	0.19	1.94	0.20	40.6	23.3	90	2.83	45.5
YY06165		0.20	NSS	0.60	2.32	3.5	250	0.48	0.16	2.29	0.25	17.25	6.1	31	1.25	52.8
YY06166		0.40	0.007	0.59	7.05	14.4	700	1.05	0.82	2.08	0.42	34.9	24.9	99	4.59	70.8
YY06167		0.54	0.014	0.21	7.06	14.6	720	1.18	0.58	2.13	0.34	42.6	28.1	102	2.34	49.7
YY06168		0.19	0.004	0.28	7.01	18.6	650	1.06	0.55	1.83	0.28	35.1	26.4	107	3.57	52.0
YY06169		0.15	<0.001	0.23	4.71	9.5	490	0.65	0.37	1.48	1.22	21.1	17.4	75	3.74	34.7
YY06171		0.24	0.015	0.16	7.58	28.4	870	1.24	0.19	1.63	0.51	41.8	21.9	122	3.79	65.1
YY06172		0.28	<0.001	0.12	7.01	11.3	810	1.15	0.21	1.41	0.19	39.4	10.3	76	2.61	41.7
YY06173		0.25	0.006	0.12	6.49	12.5	750	1.03	0.20	1.23	0.39	39.0	15.8	97	2.82	35.9
YY06174		0.43	0.010	0.15	7.08	12.1	890	1.19	0.22	2.04	0.40	41.0	16.9	94	3.30	38.7
YY06175		0.34	0.010	0.58	7.17	30.9	850	1.08	0.24	1.90	0.42	33.0	22.1	110	4.45	66.9
YY06176		0.38	0.004	0.38	7.48	21.7	920	1.28	0.29	1.78	0.57	38.6	23.6	122	4.47	71.7
YY06177		0.45	0.003	0.12	6.90	10.4	990	1.17	0.28	1.77	0.17	40.7	17.1	99	3.50	34.8
YY06178		0.38	0.005	0.38	7.21	21.1	880	1.11	0.29	1.81	0.71	36.4	23.7	125	4.59	73.2
YY06179		0.52	0.101	0.28	7.06	10.7	870	1.18	0.30	1.94	0.36	43.1	22.8	106	3.17	53.1
YY06180		0.39	0.006	0.27	7.02	12.5	900	1.18	0.22	1.92	0.65	39.8	21.2	107	2.90	57.8
YY06181		0.37	0.007	0.23	7.19	13.6	880	1.11	0.26	1.86	0.31	37.8	21.7	109	3.62	61.0
YY06182		0.37	0.005	0.49	6.87	84.4	800	1.10	0.25	1.87	1.90	36.4	28.8	114	5.86	100.0
YY06183		0.33	0.003	0.45	7.20	40.6	820	1.10	0.26	1.84	0.53	34.3	26.9	119	4.50	91.8
YY06184		0.36	<0.001	0.14	7.36	9.3	840	1.13	0.27	1.83	0.22	40.3	24.9	112	3.25	63.2
YY06185		0.48	<0.001	0.20	7.31	7.5	720	1.04	0.30	1.72	0.25	38.0	26.4	113	4.23	69.0
YY06186		0.40	<0.001	0.12	7.40	8.5	710	1.07	0.41	1.59	0.24	41.6	27.2	124	4.57	68.1
YY06187		0.34	<0.001	0.12	7.31	9.0	640	1.17	0.40	1.46	0.23	33.3	31.9	118	3.82	74.2
YY06188		0.26	0.099	0.19	7.51	7.4	640	1.14	0.46	1.25	0.15	32.7	29.2	136	3.66	53.1
YY06189		0.38	0.010	0.14	7.37	9.4	690	1.13	0.25	1.53	0.30	32.8	25.8	108	3.68	58.5
YY06190		0.42	0.001	0.12	6.33	8.4	930	1.16	0.22	1.30	0.28	33.8	11.2	83	3.68	31.8
YY06191		0.34	0.004	0.09	7.57	10.2	740	1.15	0.21	1.53	0.24	38.2	25.6	117	3.49	57.7
YY06192		0.33	0.033	0.12	6.95	9.4	860	1.17	0.21	1.68	0.15	35.1	18.7	96	3.74	38.8
YY06193		0.36	0.001	0.08	7.02	10.3	890	1.41	0.24	1.41	0.16	36.0	16.9	95	3.86	31.9
YY06194		0.33	0.001	0.20	6.37	18.9	740	1.16	0.15	1.29	0.55	35.5	18.4	81	3.02	44.5
YY06195		0.34	0.004	0.10	6.54	10.8	840	1.19	0.20	1.46	0.49	36.1	18.6	97	3.45	37.1
YY06196		0.35	0.002	0.21	6.66	23.5	880	1.26	0.16	1.54	0.87	41.2	20.4	99	3.46	47.3
YY06197		0.36	0.002	0.06	6.51	9.6	900	1.25	0.19	1.39	0.34	39.7	14.9	93	3.32	29.2
YY06201		0.36	0.004	0.38	7.55	11.9	1150	1.49	0.18	1.40	0.18	46.2	20.4	78	3.31	80.0
YY06202		0.33	0.012	0.27	7.64	14.3	1190	1.52	0.26	1.50	0.36	50.2	20.9	95	3.53	83.7
YY06203		0.37	0.003	0.16	7.34	11.5	1030	1.44	0.15	1.73	0.17	58.0	20.5	98	2.85	52.1
YY06204		0.39	0.015	0.32	6.95	25.3	930	2.07	0.33	1.59	0.45	49.3	36.8	82	6.33	142.5
YY06205		0.35	0.003	0.12	6.88	7.9	980	1.39	0.16	1.70	0.12	44.2	10.4	86	2.10	18.7



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY06162		149	1.3	16.9	50	61.4
YY06163		162	2.0	17.7	56	54.3
YY06164		186	2.1	20.6	73	42.1
YY06165		46	0.6	23.2	31	12.8
YY06166		191	3.5	23.5	100	39.6
YY06167		182	3.6	22.7	76	43.6
YY06168		192	4.2	19.3	88	39.5
YY06169		123	2.1	10.2	107	31.8
YY06171		179	1.9	22.7	111	45.5
YY06172		119	1.6	12.1	72	70.4
YY06173		134	1.8	16.0	77	49.5
YY06174		138	1.9	17.5	85	52.5
YY06175		180	2.4	20.5	117	49.1
YY06176		196	2.3	22.6	126	41.0
YY06177		139	1.9	16.2	66	44.4
YY06178		182	2.2	22.4	159	42.2
YY06179		161	2.6	19.9	85	43.7
YY06180		156	2.3	20.2	92	42.2
YY06181		155	2.2	20.7	90	41.0
YY06182		196	1.9	26.7	258	48.7
YY06183		176	2.0	21.8	114	41.6
YY06184		174	2.3	19.3	90	53.9
YY06185		185	43.2	22.4	105	42.4
YY06186		185	3.1	21.3	104	47.2
YY06187		198	3.5	17.9	120	43.1
YY06188		191	4.8	16.5	82	42.9
YY06189		189	5.0	19.4	100	42.0
YY06190		131	2.2	13.1	80	57.1
YY06191		173	2.8	18.3	84	45.0
YY06192		155	2.5	15.7	70	44.5
YY06193		142	2.0	15.8	81	51.0
YY06194		128	1.4	13.8	101	52.5
YY06195		141	2.0	15.2	93	56.8
YY06196		149	2.0	15.9	113	49.2
YY06197		129	1.8	13.9	67	52.9
YY06201		134	1.0	20.4	95	64.0
YY06202		138	1.3	24.3	118	58.9
YY06203		127	1.0	19.9	71	57.4
YY06204		122	1.0	25.1	120	60.4
YY06205		107	1.2	13.1	48	49.1



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY06241		0.33	0.005	0.26	7.62	13.6	790	1.19	0.24	1.54	0.24	34.5	25.9	118	8.43	59.9
YY06242		0.36	0.001	0.20	7.12	10.8	740	1.08	0.18	1.68	0.24	31.9	24.5	118	8.95	57.2
YY06243		0.30	0.004	0.89	7.41	12.9	850	1.16	0.45	1.86	0.21	32.0	24.4	115	4.89	58.8
YY06244		0.35	0.005	0.45	7.26	12.2	820	1.14	0.40	1.97	0.24	30.5	25.8	117	5.68	60.4
YY06245		0.22	0.011	0.58	7.46	16.8	770	1.13	0.58	1.67	0.21	30.7	29.4	120	6.55	78.0
YY06246		0.27	0.008	0.39	7.98	20.6	800	1.19	0.82	1.58	0.22	30.1	30.2	129	7.96	78.7
YY06247		0.28	0.003	0.29	7.72	18.0	800	1.18	0.61	1.71	0.30	32.4	29.8	123	5.19	62.3
YY06248		0.25	<0.001	0.19	7.36	14.6	790	1.19	0.49	1.61	0.25	35.1	25.2	113	3.93	52.0



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CERTIFICATE OF ANALYSIS WH18166141

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY06241		5.50	16.85	0.09	1.4	0.064	1.29	17.6	22.5	2.17	1050	0.84	1.86	6.6	56.0	880
YY06242		5.19	15.85	0.07	1.5	0.063	1.20	16.2	21.7	2.06	1020	0.84	1.82	6.4	52.4	960
YY06243		5.39	16.75	0.07	1.2	0.062	1.25	16.0	21.5	2.14	897	0.98	1.74	6.8	57.2	1080
YY06244		5.24	16.65	0.07	1.2	0.068	1.28	15.2	20.7	2.14	889	1.00	1.90	6.8	55.7	900
YY06245		6.15	17.05	0.08	1.3	0.067	1.19	16.4	21.7	2.40	969	1.45	1.79	5.8	62.5	880
YY06246		6.74	18.75	0.08	1.8	0.075	1.38	15.9	23.5	2.48	1040	1.74	1.72	5.6	65.3	1020
YY06247		6.29	18.25	0.07	1.5	0.073	1.26	16.7	22.7	2.35	1000	1.51	1.82	6.7	62.4	1070
YY06248		5.73	16.90	0.08	1.3	0.064	1.22	17.1	19.7	2.19	970	1.11	1.89	7.2	54.1	860

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



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY06241		18.6	49.0	<0.002	0.04	1.49	27.5	1	1.0	214	0.46	0.09	5.35	0.480	0.35	1.5
YY06242		14.4	48.2	<0.002	0.05	1.23	27.6	1	1.0	219	0.46	0.07	4.55	0.467	0.32	1.5
YY06243		23.4	49.1	<0.002	0.06	1.17	23.1	1	1.1	220	0.46	0.12	4.94	0.437	0.31	1.5
YY06244		22.9	45.9	<0.002	0.05	1.33	24.9	1	1.0	234	0.45	0.12	4.55	0.461	0.34	1.3
YY06245		29.7	46.8	<0.002	0.05	1.08	27.3	1	1.0	203	0.39	0.22	4.72	0.454	0.34	1.5
YY06246		39.5	55.6	<0.002	0.05	1.17	27.9	1	1.0	221	0.40	0.26	5.02	0.452	0.41	1.8
YY06247		34.3	50.1	<0.002	0.05	1.13	26.5	<1	1.1	220	0.46	0.20	4.72	0.508	0.34	1.4
YY06248		28.6	45.3	0.002	0.04	1.09	23.5	1	1.1	227	0.49	0.16	4.68	0.538	0.32	1.5



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Sample Description	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY06241		184	3.1	19.2	87	51.3
YY06242		177	2.6	19.5	81	44.4
YY06243		174	2.7	17.1	90	42.9
YY06244		178	3.1	18.9	89	40.3
YY06245		200	3.7	21.4	104	48.7
YY06246		216	4.8	20.1	117	62.7
YY06247		206	3.4	19.9	104	53.9
YY06248		190	2.6	17.8	94	45.6



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	CERTIFICATE COMMENTS
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: NSS is non- sufficient sample. ALL METHODS</p> <p>Applies to Method: REE's may not be totally soluble in this method. ME- MS61</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG- 22 SCR- 41 WEI- 21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au- ICP21 ME- MS61</p>



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Project: HARTLESS JOE

This report is for 13 Rock samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL-2018.

The following have access to data associated with this certificate:

HEATHER BURRELL
SCOTT NEWMAN

ANDREW CARNE

JACK MORTON

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-QC	Crushing QC Test
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test
CRU-32	Fine Crushing 90% <2mm
PUL-35a	Pulv 1 kg split to 95%<106 um

ANALYTICAL PROCEDURES

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

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: 8-AUG-2018
 Account: MTT

Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18175020

Sample Description	Method Analyte Units LOD	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Au ppm 0.001	Au ppm 0.05	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2
K283901		<0.001		0.07	0.05	8.5	10	<0.05	<0.01	0.01	<0.02	0.25	0.9	36	<0.05	9.0
K283902		0.092		3.81	5.34	226	230	0.80	0.02	1.84	0.27	25.6	43.6	16	2.79	46.5
K283903		>10.0	9.57	23.8	0.45	576	40	0.08	0.02	0.04	0.39	2.09	1.4	34	0.56	21.5
K283904		0.493		1.07	4.63	267	120	0.69	0.01	3.47	0.23	20.4	32.6	21	3.27	36.8
K283905		0.017		0.27	6.85	29.7	360	0.38	0.02	9.40	1.06	6.46	25.2	180	4.00	64.1
K283906		0.002		0.12	7.01	17.6	500	0.36	0.03	2.78	0.29	10.10	24.5	214	3.45	67.1
K283907		7.26		3.08	1.21	5770	20	0.16	<0.01	7.06	0.37	3.23	5.1	43	1.01	17.6
K283908		0.047		0.91	7.76	25.8	100	0.84	0.38	5.97	0.18	41.2	21.0	19	2.55	130.0
K293597		0.007		1.63	1.40	5.4	120	0.13	2.20	1.71	0.30	3.19	4.2	31	0.32	19.4
K293598		0.008		0.65	0.73	2.3	20	0.05	0.02	0.88	0.28	1.98	3.6	47	0.10	406
K293599		0.012		11.65	1.76	7.2	20	0.09	0.06	2.88	37.5	1.71	41.7	42	0.14	>10000
K293600		0.542		0.71	0.65	28.2	40	0.08	<0.01	0.06	0.45	1.38	1.0	31	0.67	139.0
W599150		0.267		13.35	1.61	13.4	50	0.10	11.15	0.80	5.31	2.89	11.1	28	0.27	188.5



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18175020

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K283901		1.00	0.21	<0.05	<0.1	<0.005	0.02	<0.5	1.0	<0.01	75	1.09	0.01	<0.1	1.9	20
K283902		12.40	20.7	0.12	1.1	0.116	0.86	9.2	37.0	3.08	886	8.97	0.14	6.8	24.4	1120
K283903		1.82	1.38	<0.05	0.1	0.022	0.19	0.8	3.0	0.05	98	2.64	0.03	0.4	1.8	70
K283904		8.26	16.80	0.08	0.4	0.093	0.31	7.3	32.5	2.66	1280	0.88	0.83	5.6	20.3	920
K283905		5.28	13.55	0.06	0.7	0.041	0.63	3.5	42.4	2.95	1530	6.19	1.73	1.8	76.3	360
K283906		5.69	14.75	0.07	0.7	0.052	0.71	5.0	35.5	3.67	946	1.25	1.63	2.6	86.3	580
K283907		3.45	3.22	<0.05	0.1	0.023	0.18	1.3	10.1	1.80	1080	0.64	0.02	0.2	20.4	320
K283908		8.18	28.3	0.15	1.0	0.148	0.23	13.2	9.5	0.82	1120	1.81	3.25	6.2	11.2	1530
K293597		1.97	3.66	<0.05	0.1	0.012	0.25	1.3	3.0	0.33	381	0.84	0.50	0.6	1.4	270
K293598		1.34	1.80	<0.05	0.1	0.030	0.08	0.8	2.8	0.74	279	0.86	0.09	0.2	4.5	70
K293599		5.85	5.36	0.11	0.3	0.103	0.03	0.5	3.1	1.01	297	4.59	0.56	0.3	14.0	120
K293600		0.90	1.74	<0.05	0.1	<0.005	0.26	0.7	1.9	0.06	89	0.92	0.05	0.2	1.5	120
W599150		5.07	4.80	<0.05	0.1	0.099	0.05	1.2	4.8	0.57	473	23.3	0.64	0.7	3.8	260



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 Finalized Date: 8-AUG-2018
 Account: MTT

Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18175020

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	
K283901		0.9	0.4	<0.002	0.01	0.08	0.1	1	<0.2	1.7	<0.05	<0.05	0.02	<0.005	<0.02	<0.1
K283902		22.2	24.8	0.005	0.36	9.33	30.2	3	1.8	144.5	0.46	<0.05	0.58	1.370	0.23	1.8
K283903		1220	4.7	<0.002	0.17	12.30	1.7	2	<0.2	19.0	<0.05	0.12	0.06	0.086	0.06	0.1
K283904		30.1	8.7	<0.002	0.09	3.80	25.1	1	1.3	162.0	0.37	<0.05	0.36	1.105	0.11	0.6
K283905		3.6	20.8	0.002	0.08	2.07	30.3	2	0.3	616	0.11	0.05	0.38	0.292	0.22	0.6
K283906		2.6	9.7	0.002	0.03	0.73	30.0	1	0.5	527	0.17	<0.05	0.85	0.342	0.19	0.5
K283907		7.7	4.4	0.006	1.30	9.24	4.3	1	<0.2	183.0	<0.05	<0.05	0.02	0.056	0.12	<0.1
K283908		6.4	7.4	0.002	1.12	2.35	18.1	1	1.4	275	0.45	0.19	0.75	0.614	0.12	0.1
K293597		136.0	7.0	<0.002	0.11	0.17	5.7	1	<0.2	35.0	<0.05	0.39	0.10	0.134	0.06	<0.1
K293598		1.7	0.7	<0.002	0.09	0.14	2.6	1	0.2	20.9	<0.05	<0.05	0.02	0.051	<0.02	0.2
K293599		4.5	0.3	0.063	3.77	0.26	9.5	38	0.2	21.7	<0.05	<0.05	0.02	0.208	<0.02	0.1
K293600		6.0	6.4	<0.002	0.05	2.34	0.4	1	<0.2	9.4	<0.05	<0.05	0.15	0.011	0.07	0.1
W599150		801	1.3	<0.002	0.67	0.60	10.7	1	0.2	30.5	<0.05	8.98	0.15	0.211	0.02	0.1



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18175020

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001	WEI-21 Recvd Wt. kg 0.02
K283901		4	52.0	0.1	<2	<0.5		1.17
K283902		422	34.2	32.8	177	50.3		1.76
K283903		30	6.0	1.4	63	4.2		2.69
K283904		331	5.1	23.4	110	14.1		2.43
K283905		223	0.9	12.2	126	22.7		2.27
K283906		240	0.7	10.5	92	18.9		3.11
K283907		47	870	6.2	66	2.5		1.38
K283908		42	12.4	105.0	69	8.6		4.15
K293597		57	7.9	5.2	20	2.3		1.56
K293598		29	0.3	2.5	19	3.4		1.15
K293599		79	0.8	6.2	3350	8.0	2.27	2.77
K293600		10	1.2	0.5	98	4.1		1.57
W599150		125	7.1	4.9	226	4.0		1.30



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18175020

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.
CRU-32 CRU-QC LOG-21 PUL-35a
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-GRA21 Au-ICP21 Cu-OG62 ME-MS61
ME-OG62



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Finalized Date: 10- AUG- 2018
Account: MTT

CERTIFICATE WH18175025

Project: HARTLESS JOE

This report is for 123 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
---------------------------------	--------------	-------------

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

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

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 WH18175025

Sample Description	Method	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY06250		0.30	0.006	0.10	7.09	6.6	930	1.31	0.18	2.41	0.25	76.7	13.8	89	1.75	29.9
YY06251		0.24	0.007	0.10	7.21	6.2	780	1.23	0.16	3.22	0.22	68.2	23.1	100	1.77	47.1
YY06252		0.17	0.040	0.16	5.90	5.5	660	0.93	0.17	1.84	0.36	34.8	17.9	88	2.03	31.7
YY06253		0.23	<0.001	0.16	6.57	6.0	750	1.12	0.14	2.43	0.22	40.2	26.8	86	2.04	47.8
YY06254		0.18	0.001	0.08	6.95	5.2	710	1.08	0.16	2.57	0.17	45.5	17.9	69	1.71	48.1
YY06255		0.26	0.004	0.07	6.56	5.9	720	1.13	0.14	2.31	0.15	43.9	26.9	79	1.85	40.2
YY06256		0.23	0.005	0.11	4.83	4.4	520	0.77	0.14	1.74	0.25	27.9	13.3	57	2.02	30.8
YY06257		0.21	0.002	0.08	7.12	4.0	760	1.19	0.15	2.32	0.13	44.9	11.9	40	1.57	27.9
YY06258		0.29	0.002	0.05	6.70	5.1	800	1.14	0.14	2.21	0.18	44.5	14.1	75	1.59	28.7
YY06259		0.19	0.009	0.09	6.87	5.5	740	1.23	0.12	2.74	0.16	45.8	21.2	90	1.73	50.2
YY06260		0.27	0.001	0.11	6.10	4.6	740	1.03	0.14	2.02	0.32	36.0	15.8	103	1.83	34.0
YY06261		0.21	0.002	0.05	6.57	5.4	810	1.14	0.10	2.43	0.21	43.8	15.6	101	1.56	28.4
YY06262		0.20	0.009	0.09	6.17	4.9	780	1.04	0.11	2.01	0.24	48.9	13.2	110	1.73	30.8
YY06263		0.17	0.002	0.07	6.32	4.4	740	1.02	0.10	2.32	0.21	46.0	13.3	70	2.04	29.0
YY06264		0.17	<0.001	0.23	7.44	5.5	600	0.96	0.08	1.29	0.25	36.2	20.5	50	5.80	27.6
YY06265		0.32	<0.001	0.05	6.64	4.7	750	1.07	0.10	2.37	0.16	36.2	11.8	77	1.48	25.6
YY06266		0.41	0.007	0.04	6.73	6.3	840	1.21	0.14	1.66	0.13	37.4	11.7	77	2.13	20.3
YY06267		0.51	0.003	0.08	6.47	4.3	820	1.16	0.16	1.57	0.10	37.2	7.0	54	1.96	15.4
YY06268		0.34	0.006	0.09	6.58	4.1	820	1.10	0.14	1.90	0.16	34.0	8.0	43	1.68	16.2
YY06269		0.48	0.006	0.08	6.62	4.5	830	1.22	0.14	1.67	0.12	37.8	9.0	62	1.95	18.0
YY06270		0.45	<0.001	0.04	6.47	6.3	890	1.16	0.17	1.45	0.13	35.1	9.6	67	2.33	16.5
YY06271		0.46	0.001	0.05	6.54	4.0	780	1.26	0.12	2.22	0.11	34.0	11.1	71	1.89	15.9
YY06272		0.28	0.003	0.18	6.90	6.9	720	1.11	0.11	2.41	0.17	46.5	18.3	93	2.43	54.8
YY06273		0.39	0.003	0.09	6.23	4.7	590	0.96	0.11	2.04	0.14	31.7	14.9	85	2.25	30.6
YY06274		0.25	<0.001	0.14	7.42	1.4	750	1.26	0.12	2.52	0.06	38.8	8.4	12	1.21	17.4
YY06275		0.39	0.007	0.10	5.98	3.8	730	1.08	0.15	1.56	0.09	32.9	8.6	61	2.71	16.0
YY06276		0.44	<0.001	0.11	6.47	3.6	680	1.05	0.13	1.93	0.12	33.6	10.7	60	1.96	22.1
YY06277		0.36	<0.001	0.10	6.18	4.3	800	1.06	0.17	1.63	0.13	34.7	9.6	61	3.53	26.6
YY06278		0.18	<0.001	0.12	5.85	2.2	670	0.92	0.13	2.14	0.57	28.7	16.0	27	2.76	14.4
YY06279		0.17	<0.001	0.10	7.07	1.6	740	1.15	0.12	2.28	0.12	32.3	6.8	11	1.19	14.0
YY06280		0.22	<0.001	0.12	7.07	1.4	790	1.23	0.12	2.22	0.14	36.5	8.8	16	1.30	16.9
YY06281		0.29	<0.001	0.10	7.15	6.2	700	1.13	0.14	2.21	0.25	34.9	19.0	75	3.23	45.4
YY06282		0.54	<0.001	0.09	7.27	6.2	800	1.31	0.15	2.03	0.25	40.2	19.1	89	2.39	38.0
YY06283		0.18	<0.001	0.08	6.14	4.5	760	1.03	0.15	1.88	0.21	32.3	13.3	79	2.72	24.9
YY06284		0.14	<0.001	0.09	3.19	2.1	460	0.54	0.08	1.34	0.40	17.05	6.7	34	1.42	16.8
YY06285		0.37	0.002	0.11	6.14	5.6	810	1.19	0.17	1.66	0.17	36.1	11.0	76	2.52	21.5
YY06286		0.10	<0.001	0.10	5.89	5.0	680	1.11	0.13	1.81	0.30	33.1	16.2	58	3.39	37.5
YY06287		0.12	<0.001	0.13	4.66	5.0	600	0.71	0.20	1.43	0.19	21.8	7.8	75	3.06	21.3
YY06288		0.23	0.004	0.07	6.62	5.6	790	1.18	0.13	1.99	0.19	37.6	14.4	81	2.20	31.1
YY06289		0.34	0.002	0.10	5.92	3.7	660	0.94	0.14	1.96	0.23	31.1	13.7	75	2.00	25.7



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 C/ O ARCHER, CATHRO & ASSOCIATES (1981)
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 1016- 510 W HASTINGS ST
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 Account: MTT

Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18175025

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY06250		3.78	16.10	0.11	2.3	0.046	1.51	39.5	14.3	1.13	700	1.03	2.14	11.1	31.9	930
YY06251		4.42	16.40	0.11	2.3	0.049	1.19	35.3	13.2	1.44	836	0.86	2.04	11.3	37.2	1310
YY06252		3.85	14.40	0.07	1.6	0.041	0.95	17.2	12.2	0.93	1200	1.13	1.55	7.7	29.2	1640
YY06253		4.10	14.65	0.09	1.6	0.045	1.03	19.2	13.6	1.31	892	1.05	1.74	7.0	48.1	1720
YY06254		4.24	16.45	0.10	2.0	0.046	1.32	23.3	14.0	1.24	671	1.09	2.00	8.6	29.2	1140
YY06255		4.31	15.80	0.10	1.7	0.047	1.16	22.9	14.0	1.18	751	1.28	1.75	8.4	36.3	930
YY06256		3.68	13.25	0.14	1.4	0.042	0.82	13.2	11.1	0.89	624	0.97	1.20	6.6	22.7	1980
YY06257		3.00	16.95	0.17	2.2	0.038	1.49	22.4	17.1	1.00	551	1.12	2.21	7.5	18.7	980
YY06258		3.65	14.75	0.21	1.7	0.051	1.22	22.5	15.5	1.18	609	0.62	2.04	8.3	29.7	1010
YY06259		4.23	15.35	0.11	1.7	0.050	1.18	22.9	14.2	1.39	705	1.03	1.94	9.2	41.7	650
YY06260		3.68	13.95	0.10	1.4	0.047	1.08	17.0	14.7	1.16	892	0.93	1.70	6.7	46.1	1570
YY06261		3.85	14.35	0.11	1.4	0.046	1.22	21.8	14.3	1.37	671	0.63	2.04	7.1	47.4	970
YY06262		3.01	13.15	0.10	1.5	0.037	1.15	24.3	13.3	1.24	577	0.72	1.77	7.0	44.7	1040
YY06263		3.30	13.75	0.11	1.8	0.037	1.09	23.3	11.7	1.08	589	0.74	1.85	7.1	27.7	790
YY06264		5.58	16.60	0.09	1.2	0.040	0.92	19.2	210	0.79	1460	0.60	0.95	4.7	32.5	830
YY06265		3.27	13.40	0.10	1.1	0.049	1.18	18.1	10.8	1.27	560	0.60	2.25	6.0	29.2	950
YY06266		3.42	14.50	0.10	1.4	0.043	1.34	19.1	14.1	1.09	625	0.86	1.86	7.1	24.8	1190
YY06267		2.73	16.00	0.11	1.8	0.035	1.60	19.6	15.2	0.80	419	1.16	1.94	7.9	15.6	1130
YY06268		2.77	16.05	0.11	1.8	0.033	1.69	17.3	15.2	0.83	448	1.16	2.22	6.6	15.5	710
YY06269		2.92	15.55	0.11	1.8	0.039	1.55	19.6	15.6	0.90	520	1.17	2.01	7.0	19.3	1030
YY06270		3.35	16.15	0.11	1.6	0.045	1.54	18.0	17.1	0.99	533	1.05	1.79	8.1	21.7	810
YY06271		3.52	15.60	0.10	1.5	0.048	1.33	17.7	14.2	1.23	566	0.90	2.17	6.5	23.4	640
YY06272		4.39	15.30	0.11	1.3	0.053	1.09	25.1	15.1	1.57	755	1.25	2.06	7.3	35.3	1130
YY06273		4.14	14.80	0.10	1.3	0.051	0.96	16.0	11.8	1.29	705	1.21	1.74	6.2	26.1	1600
YY06274		2.68	18.40	0.12	2.4	0.023	1.94	20.2	17.7	0.83	449	1.41	2.68	5.7	7.6	910
YY06275		2.92	14.45	0.12	1.5	0.040	1.27	16.8	13.3	0.83	478	1.13	1.64	7.3	18.1	1810
YY06276		3.37	15.55	0.10	1.6	0.039	1.31	18.1	14.2	1.04	595	1.16	1.89	6.2	20.0	1470
YY06277		3.06	15.45	0.12	1.7	0.041	1.37	19.3	15.6	0.92	590	1.10	1.69	6.8	19.8	1450
YY06278		2.72	15.60	0.10	1.7	0.030	1.33	13.8	12.6	0.75	2190	1.78	1.95	4.9	9.9	880
YY06279		2.36	17.65	0.10	2.2	0.023	1.92	17.3	16.9	0.70	398	1.39	2.65	5.4	6.4	570
YY06280		2.12	17.65	0.11	2.3	0.021	2.04	18.8	18.5	0.64	644	1.52	2.64	5.4	6.2	580
YY06281		4.31	15.90	0.09	1.3	0.049	1.23	16.8	17.5	1.48	694	0.85	2.01	6.0	34.0	710
YY06282		4.19	17.00	0.11	1.5	0.050	1.38	19.5	17.7	1.46	877	0.91	2.04	7.2	36.8	1020
YY06283		3.90	15.65	0.10	1.4	0.045	1.24	16.2	14.7	1.15	815	0.98	1.76	7.3	26.2	1200
YY06284		1.65	7.82	0.07	0.8	0.021	0.72	8.1	6.3	0.53	402	0.57	1.04	3.5	12.7	1240
YY06285		3.52	15.55	0.10	1.5	0.050	1.32	18.8	14.7	1.02	659	1.00	1.67	7.7	23.7	1070
YY06286		3.06	13.40	0.10	1.4	0.044	1.14	16.8	13.6	1.01	992	0.86	1.78	5.3	22.9	1310
YY06287		2.65	13.65	0.09	1.2	0.040	1.06	10.4	8.5	0.73	514	1.65	1.34	6.1	18.8	1680
YY06288		3.83	15.60	0.10	1.5	0.053	1.28	19.0	15.5	1.25	644	0.72	1.90	7.0	32.2	1100
YY06289		4.10	16.30	0.10	1.4	0.044	1.12	15.8	11.4	1.12	699	0.88	1.71	7.1	23.1	740



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		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
YY06250		114	1.4	19.5	62	63.4
YY06251		137	1.4	23.8	65	67.1
YY06252		113	1.2	14.1	54	55.0
YY06253		116	1.1	17.8	61	50.2
YY06254		128	1.0	17.7	77	61.1
YY06255		129	1.0	17.3	62	49.1
YY06256		116	0.8	12.4	69	37.1
YY06257		88	0.8	13.1	82	62.4
YY06258		117	1.0	17.4	3990	42.2
YY06259		135	1.3	19.9	57	51.4
YY06260		115	0.9	14.5	70	49.0
YY06261		122	0.9	17.5	63	41.8
YY06262		94	1.0	14.7	58	46.8
YY06263		105	0.8	14.8	55	52.1
YY06264		122	0.9	23.9	70	32.8
YY06265		117	1.0	18.4	54	36.4
YY06266		108	1.0	14.0	54	46.8
YY06267		84	1.0	10.6	50	63.5
YY06268		80	0.7	10.2	50	62.4
YY06269		89	0.9	12.1	51	56.1
YY06270		97	1.0	11.9	55	54.4
YY06271		114	1.0	15.6	49	56.3
YY06272		144	1.3	24.8	69	41.6
YY06273		133	1.1	15.9	55	40.2
YY06274		71	0.5	9.1	56	85.2
YY06275		93	1.1	12.2	44	52.1
YY06276		105	0.9	14.9	53	55.2
YY06277		98	1.1	14.0	53	58.8
YY06278		86	0.7	8.6	56	63.1
YY06279		62	0.5	7.7	51	79.1
YY06280		53	0.5	8.2	51	82.5
YY06281		130	1.1	16.6	65	46.1
YY06282		134	1.1	17.9	72	51.3
YY06283		123	1.1	14.9	57	44.0
YY06284		53	0.5	7.5	68	26.5
YY06285		111	1.2	14.8	57	47.2
YY06286		91	1.6	15.2	77	42.1
YY06287		106	1.4	9.3	44	41.7
YY06288		116	1.7	18.7	64	43.4
YY06289		140	1.0	15.1	53	51.0



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Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOD		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY06290		2.38	17.60	0.11	2.2	0.027	1.84	16.9	16.3	0.77	503	1.40	2.54	5.6	9.4	660
YY06291		3.05	15.80	0.09	2.1	0.034	1.40	16.4	13.6	0.85	511	1.10	2.05	5.8	14.3	850
YY06292		2.26	18.50	0.12	2.3	0.021	2.04	18.0	17.9	0.68	396	1.46	2.65	5.5	5.9	400
YY06293		3.96	13.90	0.10	1.3	0.046	0.85	12.5	10.8	1.29	652	0.61	1.78	5.3	27.3	940
YY06294		2.69	11.75	0.09	1.2	0.029	1.08	11.1	10.0	0.86	651	0.93	1.71	4.7	16.4	910
YY06295		3.00	13.65	0.13	1.8	0.035	1.26	13.1	11.2	0.77	1260	1.14	1.81	5.6	12.9	1110
YY06296		3.98	16.15	0.12	2.0	0.049	1.36	22.8	17.5	1.26	750	0.90	1.99	8.7	29.6	1170
YY06297		4.13	14.80	0.13	1.4	0.049	1.02	14.9	12.9	1.17	711	0.88	1.67	6.7	27.0	1490
YY06298		4.02	15.75	0.10	1.6	0.053	1.14	17.2	17.0	1.29	698	1.08	2.02	6.7	27.2	1090
YY06299		3.72	15.95	0.14	1.5	0.042	1.21	16.1	16.2	1.19	905	1.19	1.89	7.1	28.6	1030
YY06300		4.69	16.10	0.11	1.5	0.052	1.04	13.2	15.8	1.32	790	0.82	1.95	6.9	31.9	800
YY06301		4.23	16.65	0.10	1.7	0.057	1.40	18.8	20.4	1.17	653	0.87	2.00	8.7	31.3	620
YY06302		4.38	16.15	0.13	1.4	0.060	1.18	18.7	16.9	1.43	784	0.78	2.03	7.2	36.9	980
YY06303		3.19	13.75	0.11	1.3	0.031	1.01	10.7	12.1	0.92	1080	0.87	1.62	5.6	16.6	1490
YY06304		4.94	16.85	0.06	1.4	0.054	1.13	15.2	12.4	1.37	1200	0.88	1.88	7.8	34.6	1120
YY06305		4.33	14.30	0.05	1.3	0.047	0.98	14.5	10.6	1.27	955	0.72	1.81	6.3	33.0	1020
YY06306		3.47	13.65	<0.05	1.5	0.040	1.16	14.2	8.8	0.98	1840	0.71	1.66	7.3	24.2	1260
YY06307		3.02	18.95	0.08	2.4	0.027	1.91	18.2	14.0	0.84	519	1.38	2.65	6.9	8.9	650
YY06308		5.07	16.55	0.07	1.6	0.058	1.14	18.5	15.6	1.65	1000	0.65	2.12	7.8	46.8	1020
YY06309		2.67	10.45	0.06	1.0	0.030	0.87	12.7	8.3	0.77	683	0.71	1.31	4.7	22.5	1810
YY06310		4.14	15.50	0.07	1.5	0.045	1.29	16.2	15.2	1.17	1160	0.86	1.91	7.4	26.9	1460
YY06311		2.78	17.65	0.08	2.2	0.028	1.75	17.3	13.7	0.79	1100	1.50	2.50	6.1	8.6	1000
YY06312		4.82	16.60	0.09	1.4	0.056	1.17	19.2	13.9	1.62	932	1.05	2.28	7.7	45.5	1010
YY06313		3.63	14.20	0.06	1.2	0.044	1.20	13.7	11.4	0.98	865	1.18	1.62	7.3	22.8	1600
YY06314		2.24	15.70	0.08	2.1	0.022	1.66	16.1	12.6	0.70	372	1.50	2.32	5.5	8.3	1030
YY06315		3.37	16.40	0.10	2.0	0.037	1.48	20.0	14.0	1.07	528	1.05	2.21	7.5	19.9	1230
YY06316		4.03	14.35	0.09	1.3	0.048	1.08	16.7	11.5	1.25	734	0.81	2.08	6.6	27.4	1340
YY06317		4.33	15.15	0.09	2.0	0.048	1.05	20.6	13.1	1.44	752	0.76	2.01	7.5	35.7	1330
YY06318		4.54	16.45	0.07	2.1	0.053	1.31	17.4	14.2	1.42	910	1.22	1.74	11.4	49.8	1510
YY06319		4.23	16.10	0.09	1.7	0.053	1.34	21.0	14.9	1.54	805	0.80	2.21	8.2	44.2	940
YY06320		4.11	15.55	0.09	1.6	0.059	1.05	17.4	14.5	1.53	856	0.86	1.98	6.9	44.0	950
YY06321		3.56	13.95	0.07	1.5	0.044	1.02	12.8	12.8	1.04	980	1.16	1.53	7.1	29.2	2040
YY06322		3.55	14.25	0.08	1.4	0.050	0.97	14.8	13.9	1.22	820	1.05	1.76	6.0	35.8	1070
YY06323		3.44	15.35	0.09	1.9	0.041	1.34	15.5	14.4	1.09	751	1.14	2.06	6.6	24.5	1470
YY06324		2.90	13.80	0.08	1.7	0.033	1.21	13.7	10.5	0.86	881	1.33	1.87	6.2	15.9	1900
YY06325		3.47	13.05	0.09	1.6	0.047	1.03	18.6	11.4	1.04	963	1.04	1.63	7.2	24.4	2080
YY06326		3.05	11.55	0.08	1.3	0.037	0.93	19.8	11.2	1.02	1100	0.90	1.45	5.4	25.7	1550
YY06327		2.74	11.80	0.07	1.3	0.035	1.07	15.6	11.7	0.92	1380	0.79	1.51	6.1	24.6	1660
YY06328		3.84	15.50	0.11	1.9	0.055	1.41	29.0	14.1	1.31	753	0.73	2.23	10.7	37.4	740
YY06329		3.82	15.05	0.10	1.6	0.050	1.32	16.7	15.0	1.28	804	1.07	1.95	7.9	38.6	1380



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
YY06290	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	
YY06290	8.9	45.0	<0.002	0.04	0.45	7.2	<1	0.8	553	0.41	<0.05	4.89	0.312	0.27	1.8	
YY06291	8.5	42.8	<0.002	0.05	0.55	10.1	1	0.8	358	0.43	<0.05	4.48	0.361	0.26	1.7	
YY06292	8.3	46.1	<0.002	0.02	0.42	5.3	<1	0.7	611	0.39	<0.05	5.05	0.297	0.26	1.9	
YY06293	8.4	32.4	<0.002	0.06	0.51	16.1	1	0.8	196.0	0.39	<0.05	3.67	0.450	0.21	1.3	
YY06294	7.1	32.4	<0.002	0.07	0.47	9.0	1	0.7	319	0.35	<0.05	3.63	0.321	0.22	1.3	
YY06295	8.8	37.0	<0.002	0.06	0.60	10.1	1	0.9	340	0.40	<0.05	3.59	0.331	0.25	1.5	
YY06296	13.8	49.6	<0.002	0.05	0.87	14.5	1	1.3	280	0.63	<0.05	6.97	0.451	0.39	2.5	
YY06297	10.3	39.0	<0.002	0.08	0.75	15.3	1	1.1	206	0.48	<0.05	4.83	0.455	0.28	1.8	
YY06298	13.2	41.6	<0.002	0.06	0.73	16.7	<1	1.1	264	0.48	<0.05	5.57	0.457	0.32	2.5	
YY06299	10.8	48.3	<0.002	0.06	0.78	14.3	1	1.1	251	0.51	<0.05	4.12	0.431	0.34	1.6	
YY06300	10.8	42.7	<0.002	0.04	0.76	16.9	1	1.2	225	0.49	0.06	3.71	0.514	0.28	1.3	
YY06301	12.8	53.6	<0.002	0.03	0.94	14.1	1	1.3	263	0.66	<0.05	5.62	0.448	0.39	1.6	
YY06302	11.3	41.6	<0.002	0.06	0.85	17.1	1	1.3	256	0.51	<0.05	5.07	0.457	0.31	1.8	
YY06303	9.3	34.9	<0.002	0.10	0.57	10.7	1	1.0	295	0.39	<0.05	3.92	0.366	0.23	1.4	
YY06304	13.0	44.2	<0.002	0.05	0.75	17.1	1	1.2	233	0.67	<0.05	4.06	0.526	0.28	1.9	
YY06305	11.2	39.2	<0.002	0.08	0.68	15.2	1	1.1	231	0.46	<0.05	3.47	0.465	0.24	1.3	
YY06306	11.3	52.2	<0.002	0.06	0.77	12.7	1	1.1	250	0.51	<0.05	3.92	0.436	0.29	1.5	
YY06307	8.8	46.7	<0.002	0.03	0.50	7.2	1	1.0	641	0.47	<0.05	4.83	0.406	0.26	1.9	
YY06308	10.3	45.6	<0.002	0.05	0.74	18.8	1	1.2	264	0.55	<0.05	6.08	0.525	0.28	2.0	
YY06309	6.9	34.1	<0.002	0.12	0.53	9.8	1	0.8	230	0.34	<0.05	2.98	0.302	0.21	1.1	
YY06310	10.9	54.7	<0.002	0.05	0.81	14.2	1	1.1	305	0.51	<0.05	4.41	0.440	0.29	1.5	
YY06311	9.4	44.8	<0.002	0.04	0.48	7.0	1	0.9	621	0.42	<0.05	4.61	0.362	0.29	1.8	
YY06312	11.6	40.5	<0.002	0.04	0.78	19.1	1	1.2	266	0.56	<0.05	5.84	0.530	0.28	1.7	
YY06313	10.2	48.0	<0.002	0.06	0.78	12.3	1	1.1	232	0.53	<0.05	4.61	0.388	0.31	1.7	
YY06314	7.5	38.7	<0.002	0.05	0.45	6.4	1	0.8	562	0.40	<0.05	4.31	0.317	0.23	1.7	
YY06315	9.9	42.9	<0.002	0.06	0.63	11.3	1	1.1	421	0.51	<0.05	5.68	0.411	0.30	2.1	
YY06316	9.0	35.9	<0.002	0.07	0.59	15.2	1	1.0	269	0.51	<0.05	4.82	0.449	0.24	1.6	
YY06317	9.2	35.2	<0.002	0.06	0.65	16.7	1	1.1	280	0.56	<0.05	6.38	0.479	0.24	2.1	
YY06318	10.0	49.8	<0.002	0.08	0.93	15.8	1	1.3	244	0.74	<0.05	4.78	0.541	0.32	1.7	
YY06319	10.8	43.5	<0.002	0.05	0.94	17.9	1	1.2	284	0.54	<0.05	5.44	0.480	0.33	1.7	
YY06320	9.7	37.0	<0.002	0.06	0.79	19.3	1	1.1	244	0.45	<0.05	4.41	0.450	0.29	1.5	
YY06321	9.5	44.0	<0.002	0.13	0.82	14.5	1	1.1	202	0.47	<0.05	3.61	0.389	0.30	1.4	
YY06322	9.2	35.4	<0.002	0.08	0.73	16.0	1	1.0	231	0.40	<0.05	3.54	0.380	0.27	1.3	
YY06323	8.9	38.5	<0.002	0.08	0.69	13.0	1	1.0	342	0.47	<0.05	4.36	0.382	0.30	1.8	
YY06324	8.3	39.1	<0.002	0.13	0.59	10.6	1	1.0	394	0.41	<0.05	3.83	0.379	0.27	1.6	
YY06325	8.5	38.4	<0.002	0.15	0.66	14.0	1	1.0	254	0.51	<0.05	4.81	0.414	0.28	1.8	
YY06326	8.7	33.6	<0.002	0.14	0.65	12.3	1	0.9	217	0.39	<0.05	4.10	0.320	0.27	1.6	
YY06327	9.5	37.7	<0.002	0.12	0.71	11.2	1	0.9	231	0.41	<0.05	3.93	0.295	0.31	1.4	
YY06328	10.6	47.4	<0.002	0.03	0.99	16.8	1	1.4	331	0.75	<0.05	7.83	0.459	0.35	2.3	
YY06329	11.0	49.3	<0.002	0.07	1.18	16.2	1	1.2	254	0.55	<0.05	4.65	0.420	0.36	1.6	



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CERTIFICATE OF ANALYSIS WH18175025

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY06290		68	0.6	8.8	55	76.4
YY06291		91	0.7	11.8	51	62.1
YY06292		58	0.5	7.9	51	84.2
YY06293		131	0.8	17.3	52	47.9
YY06294		81	0.6	9.3	48	41.9
YY06295		93	0.6	9.4	52	59.6
YY06296		122	1.3	19.0	71	56.5
YY06297		127	1.0	16.6	54	45.0
YY06298		135	1.1	18.9	57	47.5
YY06299		127	1.0	15.7	63	44.7
YY06300		161	1.0	15.9	65	45.1
YY06301		130	1.1	14.3	61	51.8
YY06302		141	1.2	20.5	61	43.8
YY06303		96	0.6	10.6	87	42.0
YY06304		163	1.0	16.7	78	46.0
YY06305		145	0.9	15.9	62	40.5
YY06306		123	1.0	12.9	71	48.3
YY06307		84	0.6	9.3	60	82.4
YY06308		166	1.2	20.3	65	57.0
YY06309		85	0.6	11.2	88	31.2
YY06310		136	0.9	14.1	88	54.6
YY06311		79	0.6	8.9	56	76.0
YY06312		164	1.4	21.3	69	43.3
YY06313		117	1.0	12.5	55	41.4
YY06314		63	0.5	8.3	49	74.2
YY06315		102	0.8	14.0	63	68.0
YY06316		132	0.9	18.0	62	46.4
YY06317		137	1.0	18.4	68	55.3
YY06318		139	0.9	15.5	79	71.7
YY06319		137	1.0	19.4	71	53.6
YY06320		135	0.9	19.0	75	45.6
YY06321		113	0.8	13.6	70	50.9
YY06322		115	0.9	17.6	84	46.8
YY06323		105	0.7	13.7	72	64.7
YY06324		96	0.6	10.9	82	60.4
YY06325		114	0.8	15.9	74	49.2
YY06326		96	0.7	18.1	72	40.4
YY06327		84	0.7	13.7	75	41.4
YY06328		128	1.1	20.5	65	56.0
YY06329		123	1.1	15.4	70	53.3



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY06330		0.22	0.003	0.06	6.85	7.7	880	1.21	0.13	1.70	0.21	40.3	13.4	91	2.10	28.9
YY06331		0.33	0.003	0.07	7.59	8.2	930	1.19	0.11	2.18	0.22	35.9	18.0	105	1.64	40.3
YY06332		0.27	0.003	0.08	6.54	7.4	920	1.15	0.12	1.80	0.22	36.1	13.3	90	1.51	28.6
YY06333		0.63	0.004	0.06	7.43	8.9	960	1.28	0.13	1.82	0.21	42.5	15.1	92	1.97	33.2
YY06334		0.45	0.002	0.08	7.93	8.4	980	1.33	0.16	2.10	0.19	39.7	15.1	90	2.09	39.3
YY06335		0.36	0.852	0.06	7.45	8.8	960	1.16	0.14	1.94	0.17	38.1	14.9	96	2.02	34.7
YY06336		0.41	0.002	0.05	7.42	7.6	950	1.22	0.14	1.95	0.22	40.8	14.7	100	1.96	29.8
YY06337		0.37	<0.001	0.07	7.42	8.0	990	1.22	0.16	1.66	0.28	38.1	15.5	96	2.63	28.8
YY06338		0.32	0.003	0.10	7.15	7.1	880	1.14	0.14	1.82	0.20	40.1	15.7	89	2.41	34.5
YY06339		0.35	0.007	0.10	7.31	8.9	890	1.19	0.15	1.62	0.13	37.4	16.5	90	2.51	37.2
YY06340		0.31	0.001	0.08	7.75	6.1	920	1.27	0.14	2.05	0.11	41.6	10.8	53	1.77	27.9
YY06341		0.13	<0.001	0.07	6.74	6.8	840	1.20	0.13	1.83	0.36	43.6	14.3	74	1.87	31.7
YY06342		0.23	0.001	0.05	6.88	7.2	890	1.15	0.14	1.71	0.21	36.9	11.1	83	1.99	20.3
YY06343		0.44	<0.001	0.05	7.28	6.8	890	1.32	0.14	1.84	0.20	42.9	12.0	78	1.94	26.3
YY06344		0.25	0.001	0.10	6.70	5.0	810	1.07	0.15	1.85	0.20	36.2	10.2	63	1.55	23.5
YY06345		0.17	<0.001	0.07	6.71	5.7	870	1.05	0.17	1.88	0.26	36.1	10.7	64	2.27	26.8
YY06346		0.17	0.008	0.09	6.29	5.8	770	1.07	0.16	1.68	0.19	33.8	11.4	82	2.16	35.3
YY06347		0.15	<0.001	0.08	6.86	6.9	860	1.20	0.13	1.85	0.24	36.0	13.0	85	2.05	34.8
YY06348		0.26	<0.001	0.06	7.11	7.2	940	1.13	0.17	1.95	0.39	39.8	20.0	93	3.04	90.9
YY06349		0.16	0.006	0.09	6.42	6.2	760	1.07	0.13	1.80	0.22	32.4	17.8	82	2.51	52.3
YY06350		0.24	0.001	0.13	7.10	7.1	1000	1.12	0.14	1.48	1.20	34.8	46.9	71	3.38	414
YY06351		0.26	<0.001	0.26	6.44	7.6	600	1.05	0.17	1.44	0.31	29.3	21.7	76	2.56	744
YY06352		0.14	<0.001	0.06	6.41	5.7	830	0.95	0.15	2.20	0.38	30.9	13.8	87	2.37	24.2
YY06353		0.15	0.001	0.10	6.11	7.0	780	1.11	0.12	1.82	0.23	33.2	14.9	75	2.21	27.9
YY06354		0.28	<0.001	0.08	6.94	7.9	830	1.15	0.12	2.02	0.12	35.3	13.8	90	1.95	23.9
YY06355		0.34	<0.001	0.08	6.31	5.6	970	1.06	0.16	1.63	0.31	31.8	9.0	77	2.45	13.9
YY06356		0.18	<0.001	0.10	7.56	2.6	850	1.15	0.12	2.37	0.08	34.9	8.2	17	1.29	16.8
YY06357		0.28	<0.001	0.07	6.37	7.6	840	1.06	0.12	1.75	0.41	33.0	11.7	84	2.30	22.2
YY06358		0.18	0.008	0.16	6.69	9.2	780	1.00	0.12	1.81	0.29	28.7	13.3	87	2.30	26.9
YY06359		0.22	<0.001	0.23	6.50	3.6	700	1.02	0.11	2.00	0.24	31.9	8.6	34	1.35	20.2
YY06360		0.12	0.004	0.17	3.88	3.9	570	0.64	0.08	1.54	0.97	31.5	10.6	44	1.29	25.0
YY06361		0.27	<0.001	0.07	6.28	6.2	980	1.11	0.14	1.74	0.33	34.1	10.7	73	2.32	17.0
YY06362		0.19	<0.001	0.12	4.70	3.8	740	0.73	0.13	1.37	0.26	24.0	8.0	55	2.47	15.5
YY06363		0.28	<0.001	0.09	5.81	4.5	660	0.84	0.10	1.61	0.27	32.5	10.1	68	1.43	22.9
YY06364		0.23	<0.001	0.13	5.66	3.2	670	0.78	0.10	1.81	0.21	24.2	9.7	46	1.53	17.1
YY06365		0.38	<0.001	0.12	7.88	2.6	840	1.11	0.13	2.51	0.09	38.4	8.2	18	1.25	18.4
YY06366		0.24	0.003	0.08	6.50	5.7	790	1.06	0.11	1.76	0.21	42.3	11.9	83	1.61	26.7
YY06367		0.30	0.009	0.05	6.60	6.3	790	1.00	0.13	1.69	0.21	33.9	12.2	93	1.66	23.5
YY06368		0.43	<0.001	0.04	6.13	5.3	1020	1.12	0.17	1.36	0.34	32.8	7.4	73	2.28	13.6
YY06369		0.40	<0.001	0.04	8.07	13.1	1050	1.46	0.19	1.29	0.25	35.9	16.0	109	3.36	44.5



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY06330		3.56	14.55	0.09	1.6	0.048	1.27	19.6	15.5	1.28	621	0.89	1.90	7.8	44.4	1300
YY06331		4.20	15.55	0.08	1.7	0.052	1.31	17.5	16.4	1.57	975	1.72	2.26	7.1	51.7	730
YY06332		3.31	13.95	0.09	1.4	0.045	1.27	18.1	13.4	1.16	695	0.89	2.07	6.9	36.3	900
YY06333		3.80	16.35	0.11	1.5	0.051	1.39	21.3	16.8	1.34	681	0.86	2.12	8.8	40.3	1070
YY06334		4.10	17.80	0.10	1.6	0.047	1.57	20.2	17.7	1.42	702	0.99	2.29	8.5	38.4	1230
YY06335		3.88	16.60	0.11	1.7	0.051	1.44	19.3	16.7	1.36	772	0.94	2.15	8.2	42.8	1260
YY06336		3.96	15.85	0.10	1.7	0.052	1.41	20.3	15.9	1.38	781	1.13	2.11	8.7	37.8	1150
YY06337		3.94	17.10	0.11	1.7	0.051	1.44	19.7	17.5	1.25	881	0.99	1.98	8.9	35.1	770
YY06338		3.93	15.60	0.10	1.5	0.051	1.25	21.1	17.9	1.29	961	1.00	1.82	8.2	37.1	1410
YY06339		4.03	16.65	0.10	1.5	0.050	1.32	19.6	21.1	1.29	786	1.15	1.86	8.1	40.0	1390
YY06340		3.16	17.55	0.11	2.1	0.038	1.77	21.6	17.8	1.06	568	1.20	2.39	7.7	25.2	980
YY06341		3.40	15.55	0.11	1.8	0.048	1.31	22.6	16.3	1.14	726	1.00	1.99	7.5	31.4	1000
YY06342		3.38	15.50	0.10	1.7	0.051	1.37	18.7	16.2	1.00	563	0.88	2.00	9.0	25.7	850
YY06343		3.47	16.65	0.10	1.8	0.047	1.46	21.6	16.1	1.09	665	0.94	2.12	8.4	26.7	1100
YY06344		3.36	15.90	0.10	1.8	0.042	1.39	18.0	13.7	0.97	543	1.11	2.02	8.6	20.4	770
YY06345		3.45	17.20	0.11	1.8	0.042	1.51	18.2	16.1	1.00	585	1.09	2.07	8.4	23.0	690
YY06346		3.62	14.50	0.09	1.4	0.045	1.15	16.4	14.0	0.94	604	0.95	1.65	7.9	25.9	1370
YY06347		3.58	14.40	0.10	1.4	0.042	1.30	17.6	15.4	1.18	661	0.80	2.03	7.0	33.1	1240
YY06348		4.18	16.45	0.11	1.8	0.051	1.44	20.4	16.6	1.23	654	1.37	2.06	9.0	40.1	890
YY06349		3.90	15.25	0.10	1.4	0.049	1.12	17.1	16.2	1.22	732	1.31	1.76	6.9	33.7	1450
YY06350		4.56	15.45	0.09	1.4	0.055	1.18	17.2	16.7	1.17	1080	1.05	1.71	7.3	34.3	900
YY06351		6.50	14.25	0.09	1.4	0.075	0.95	14.7	17.1	1.19	658	2.87	1.53	6.3	34.8	1130
YY06352		3.90	17.15	0.09	1.9	0.042	1.34	16.2	13.3	1.20	641	1.12	2.01	7.8	30.7	850
YY06353		3.28	13.70	0.10	1.3	0.043	1.15	17.0	16.9	1.06	636	0.89	1.65	7.1	35.0	1050
YY06354		3.53	15.45	0.10	1.5	0.051	1.31	18.3	16.0	1.18	699	0.85	2.15	7.6	30.8	600
YY06355		3.19	16.60	0.09	1.6	0.044	1.60	16.5	12.4	0.92	556	0.89	2.01	9.6	20.8	510
YY06356		2.70	19.45	0.12	2.5	0.025	2.06	18.2	17.5	0.77	523	1.42	2.78	6.8	7.7	460
YY06357		3.38	15.45	0.11	1.6	0.047	1.33	17.2	15.3	1.07	772	0.88	1.89	7.8	27.7	960
YY06358		3.96	16.10	0.10	1.4	0.050	1.25	14.6	18.1	1.25	656	0.98	1.95	7.2	33.6	790
YY06359		3.01	15.65	0.11	2.0	0.034	1.45	16.6	14.1	0.79	442	1.30	2.12	6.3	14.2	1330
YY06360		2.32	8.87	0.09	0.9	0.029	0.65	18.4	7.4	0.65	1420	1.08	1.01	3.5	18.6	1730
YY06361		3.06	15.20	0.11	1.5	0.044	1.52	17.8	14.0	0.94	659	0.94	1.92	9.1	22.3	710
YY06362		2.43	12.10	0.07	1.4	0.037	1.19	12.2	7.0	0.61	1120	1.00	1.54	6.9	14.9	1000
YY06363		3.26	13.40	0.10	1.6	0.040	1.11	17.3	12.0	0.94	599	0.95	1.71	6.3	22.5	1210
YY06364		2.94	13.30	0.08	1.6	0.033	1.19	12.5	8.4	0.76	853	1.16	1.85	5.9	14.7	1270
YY06365		2.76	19.40	0.11	2.5	0.025	1.99	20.4	17.3	0.87	485	1.39	2.77	6.7	9.4	970
YY06366		3.69	14.00	0.11	1.6	0.047	1.18	23.4	13.4	1.11	625	0.83	1.83	7.5	28.2	1820
YY06367		3.83	14.25	0.14	1.4	0.044	1.20	16.6	13.4	1.08	960	0.88	1.83	6.8	27.9	1500
YY06368		3.14	15.70	0.14	1.6	0.036	1.64	16.0	12.8	0.72	852	0.98	1.78	9.7	18.6	1230
YY06369		4.80	18.60	0.14	1.7	0.062	1.62	16.4	27.0	1.40	934	0.94	1.57	9.0	48.0	1510



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CERTIFICATE OF ANALYSIS WH18175025

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY06330		10.4	45.2	<0.002	0.06	1.10	15.2	1	1.1	264	0.54	<0.05	5.02	0.390	0.35	1.6
YY06331		13.4	42.2	<0.002	0.04	1.22	18.3	1	1.1	287	0.46	<0.05	4.65	0.428	0.34	1.5
YY06332		11.0	41.7	<0.002	0.06	1.00	14.5	1	1.0	283	0.47	<0.05	4.68	0.362	0.35	1.4
YY06333		12.0	48.0	<0.002	0.03	1.06	16.5	1	1.2	294	0.61	<0.05	5.65	0.407	0.39	1.8
YY06334		12.0	49.7	<0.002	0.04	1.11	15.9	1	1.2	382	0.55	<0.05	5.68	0.454	0.38	1.8
YY06335		11.6	47.7	<0.002	0.05	1.26	16.1	1	1.2	324	0.55	<0.05	5.27	0.416	0.38	1.7
YY06336		12.1	46.9	<0.002	0.05	1.01	16.6	1	1.3	295	0.60	<0.05	5.83	0.441	0.37	1.9
YY06337		12.6	52.2	<0.002	0.03	1.01	15.8	1	1.3	265	0.60	<0.05	5.57	0.420	0.43	1.9
YY06338		11.7	45.0	<0.002	0.07	0.86	15.9	1	1.2	263	0.53	<0.05	6.01	0.421	0.36	2.1
YY06339		12.0	46.7	<0.002	0.07	0.95	16.1	1	1.2	260	0.54	<0.05	5.84	0.403	0.39	2.0
YY06340		10.7	49.3	<0.002	0.04	0.81	10.8	1	1.0	471	0.51	<0.05	5.77	0.344	0.33	2.0
YY06341		10.7	43.6	<0.002	0.05	0.94	15.1	1	1.1	287	0.51	<0.05	5.83	0.384	0.33	1.9
YY06342		11.7	46.9	<0.002	0.04	1.01	13.8	1	1.2	271	0.62	<0.05	5.24	0.366	0.37	1.8
YY06343		11.3	46.9	<0.002	0.05	0.92	14.1	1	1.2	321	0.56	<0.05	6.81	0.398	0.37	2.0
YY06344		10.5	42.8	<0.002	0.04	0.74	11.7	1	1.2	365	0.57	<0.05	5.47	0.401	0.33	1.8
YY06345		11.5	52.2	<0.002	0.04	0.84	11.6	1	1.1	348	0.56	<0.05	4.86	0.397	0.36	1.8
YY06346		11.3	38.9	<0.002	0.09	0.90	12.8	1	1.1	233	0.53	0.05	5.92	0.394	0.34	1.7
YY06347		11.4	45.6	<0.002	0.09	0.86	14.0	1	1.0	270	0.45	<0.05	5.37	0.379	0.32	1.6
YY06348		12.9	50.0	<0.002	0.05	1.03	14.9	1	1.3	277	0.60	<0.05	5.73	0.425	0.39	2.0
YY06349		10.6	42.4	<0.002	0.12	0.83	15.1	1	1.1	229	0.44	<0.05	4.86	0.382	0.33	1.7
YY06350		11.4	43.3	<0.002	0.06	0.83	13.5	2	1.1	230	0.47	<0.05	5.42	0.347	0.33	1.5
YY06351		9.6	37.4	<0.002	0.10	0.77	14.9	2	1.0	188.0	0.40	0.06	4.19	0.343	0.28	1.6
YY06352		10.2	50.9	<0.002	0.05	0.82	14.1	1	1.2	338	0.50	<0.05	4.81	0.445	0.33	1.6
YY06353		10.3	47.1	<0.002	0.07	0.79	12.8	1	1.0	225	0.46	<0.05	4.95	0.346	0.32	1.6
YY06354		10.6	46.2	<0.002	0.03	0.90	15.7	1	1.2	264	0.55	<0.05	4.77	0.381	0.34	1.7
YY06355		12.1	89.2	<0.002	0.03	0.97	12.8	1	1.4	272	0.67	<0.05	4.00	0.402	0.45	1.6
YY06356		8.7	48.1	<0.002	0.02	0.51	6.6	1	0.9	653	0.45	<0.05	4.91	0.358	0.27	1.9
YY06357		10.7	60.8	<0.002	0.05	0.95	14.7	1	1.1	250	0.53	<0.05	5.39	0.367	0.37	1.6
YY06358		10.1	52.0	<0.002	0.05	0.95	15.6	1	1.2	241	0.48	<0.05	4.22	0.402	0.34	1.5
YY06359		8.0	38.0	<0.002	0.08	0.59	9.4	1	0.9	467	0.40	<0.05	4.69	0.368	0.26	1.8
YY06360		6.9	29.5	<0.002	0.18	0.63	9.7	2	0.6	180.5	0.23	<0.05	3.89	0.227	0.19	1.5
YY06361		12.1	68.0	<0.002	0.05	1.00	12.5	1	1.3	279	0.62	<0.05	4.66	0.374	0.41	1.7
YY06362		7.8	53.8	<0.002	0.07	0.84	11.4	1	1.1	205	0.49	<0.05	2.92	0.363	0.31	1.4
YY06363		8.0	35.8	<0.002	0.07	0.70	12.6	1	0.8	266	0.46	<0.05	4.38	0.353	0.23	1.6
YY06364		7.6	37.8	<0.002	0.08	0.68	10.7	1	0.9	361	0.41	<0.05	3.07	0.369	0.25	1.3
YY06365		8.4	43.3	<0.002	0.04	0.49	7.0	1	0.8	668	0.44	<0.05	4.99	0.347	0.26	2.0
YY06366		10.2	41.5	<0.002	0.08	0.86	15.1	1	1.0	251	0.51	<0.05	6.05	0.397	0.30	1.9
YY06367		10.1	41.6	<0.002	0.06	0.90	14.9	1	1.0	233	0.50	<0.05	4.71	0.418	0.29	1.6
YY06368		12.0	61.2	<0.002	0.05	1.06	10.8	1	1.4	251	0.72	<0.05	5.02	0.395	0.40	1.8
YY06369		14.2	67.4	<0.002	0.06	1.22	16.2	1	1.3	228	0.64	<0.05	7.48	0.393	0.47	2.0



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	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY06330		115	0.9	15.0	71	50.5
YY06331		139	0.9	16.7	80	46.3
YY06332		108	0.9	15.3	59	43.6
YY06333		124	1.1	17.3	75	46.9
YY06334		129	1.1	15.6	84	53.5
YY06335		126	1.1	15.5	77	53.7
YY06336		132	1.2	17.7	77	52.1
YY06337		128	1.2	15.6	78	55.7
YY06338		128	1.1	18.3	73	52.2
YY06339		130	1.2	17.7	74	55.3
YY06340		91	0.8	13.0	67	70.7
YY06341		109	1.0	18.1	70	63.1
YY06342		104	1.1	15.3	69	47.9
YY06343		109	1.0	15.8	66	64.6
YY06344		106	1.0	12.4	59	60.9
YY06345		108	1.0	12.1	63	59.3
YY06346		113	1.0	13.8	66	44.3
YY06347		115	0.9	14.4	72	46.1
YY06348		123	1.2	17.1	107	48.4
YY06349		121	1.4	15.4	78	41.7
YY06350		112	1.3	13.2	221	47.0
YY06351		122	0.9	18.1	133	40.9
YY06352		128	0.9	12.7	62	59.9
YY06353		102	0.9	13.7	64	39.1
YY06354		115	1.2	16.1	60	43.2
YY06355		110	1.0	13.2	83	46.9
YY06356		73	0.6	8.6	58	84.5
YY06357		105	1.1	14.3	71	46.6
YY06358		122	1.0	15.0	76	45.0
YY06359		84	0.6	10.3	55	64.3
YY06360		69	0.5	14.6	63	27.5
YY06361		102	1.2	19.1	68	45.8
YY06362		94	0.8	10.1	97	50.2
YY06363		100	0.8	14.1	61	53.4
YY06364		100	0.7	10.5	61	49.0
YY06365		73	0.5	10.8	61	86.2
YY06366		116	1.2	16.7	61	45.6
YY06367		127	1.0	14.3	72	40.0
YY06368		105	1.3	11.2	74	51.3
YY06369		142	1.3	14.2	143	50.7



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Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY06370		0.20	<0.001	0.08	8.17	2.4	810	1.30	0.13	2.84	0.06	38.9	8.9	16	1.14	17.7
YY06371		0.31	<0.001	0.10	8.53	14.3	730	1.42	0.10	0.58	0.28	26.4	6.9	53	1.86	38.5
YY06372		0.55	0.404	0.99	7.45	246	770	0.89	0.08	15.05	2.84	12.75	28.5	176	43.7	79.7



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Sample Description	Method Analyte Units LOD	ME- MS61 Fe %	ME- MS61 Ga ppm	ME- MS61 Ge ppm	ME- MS61 Hf ppm	ME- MS61 In ppm	ME- MS61 K %	ME- MS61 La ppm	ME- MS61 Li ppm	ME- MS61 Mg %	ME- MS61 Mn ppm	ME- MS61 Mo ppm	ME- MS61 Na %	ME- MS61 Nb ppm	ME- MS61 Ni ppm	ME- MS61 P ppm
YY06370		3.04	19.90	0.18	2.4	0.026	1.94	18.8	18.3	0.97	447	1.31	2.87	6.4	9.6	980
YY06371		6.68	18.20	0.14	1.6	0.045	1.29	15.2	14.9	0.84	384	2.91	2.06	5.3	37.5	1220
YY06372		5.55	15.75	0.09	0.9	0.061	2.29	7.7	85.7	1.34	1080	4.28	0.33	2.2	75.9	460



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CERTIFICATE OF ANALYSIS WH18175025

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY06370		7.8	42.1	<0.002	0.03	0.45	8.0	<1	0.9	748	0.41	<0.05	4.72	0.405	0.27	1.8
YY06371		11.4	35.2	<0.002	0.05	0.92	9.2	1	0.9	148.0	0.31	<0.05	5.15	0.225	0.61	2.8
YY06372		21.8	65.9	0.003	0.03	12.50	36.9	1	0.6	295	0.14	0.05	0.84	0.429	0.71	1.2



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CERTIFICATE OF ANALYSIS WH18175025

Sample Description	Method	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte	V	W	Y	Zn	Zr
Units		ppm	ppm	ppm	ppm	ppm
LOD		1	0.1	0.1	2	0.5
YY06370		84	0.5	10.0	61	80.9
YY06371		91	0.5	14.5	163	51.5
YY06372		301	5.3	18.9	168	28.2



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CERTIFICATE OF ANALYSIS WH18175025

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

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



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CERTIFICATE WH18157287

Project: HARTLESS JOE

This report is for 235 Soil samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL- 2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05001		4.48	17.60	0.12	2.1	0.067	1.35	23.2	24.4	1.15	1490	0.90	2.01	7.5	15.5	1110
YY05002		3.71	16.15	0.08	1.9	0.047	1.37	17.0	16.7	0.99	784	1.06	2.07	6.6	16.2	1180
YY05003		4.88	18.75	0.09	2.1	0.063	1.49	22.3	24.6	1.41	1120	0.80	1.96	8.9	41.1	1210
YY05004		4.68	16.50	0.09	1.8	0.062	1.40	22.0	24.4	1.12	1140	0.95	1.88	10.0	25.9	1190
YY05005		4.23	14.95	0.10	1.9	0.055	1.28	20.0	21.9	1.02	1100	1.00	1.76	8.3	22.2	1730
YY05006		3.77	14.80	0.10	2.1	0.050	1.30	22.7	19.3	0.90	938	1.04	1.69	10.3	22.8	1420
YY05007		5.32	17.60	0.10	1.7	0.079	1.39	17.8	22.8	1.17	1460	0.63	1.78	7.8	17.0	800
YY05008		4.36	16.65	0.09	1.8	0.058	1.46	21.7	22.0	1.22	1190	0.91	1.96	10.5	30.7	1040
YY05009		4.69	15.95	0.10	2.0	0.059	1.36	19.9	20.9	1.00	1590	1.53	1.76	9.7	23.6	1820
YY05010		4.77	16.70	0.08	1.9	0.068	1.27	22.3	21.8	1.38	1050	0.93	2.04	9.2	34.7	1170
YY05011		4.60	17.50	0.08	1.9	0.056	1.43	22.7	25.3	1.30	1240	0.90	1.90	7.7	35.0	1450
YY05012		2.89	16.70	0.09	2.3	0.037	1.59	18.7	17.1	0.74	491	1.14	2.22	7.4	11.1	1040
YY05013		4.09	15.40	0.09	1.7	0.052	1.15	19.7	20.2	1.39	1260	0.83	1.60	6.9	44.3	1540
YY05014		4.98	17.90	0.09	1.7	0.061	1.42	20.6	23.0	1.69	1250	0.97	1.83	10.4	66.8	1400
YY05015		5.08	19.85	0.13	2.1	0.069	1.72	24.9	25.0	1.79	1280	1.19	1.60	8.4	86.9	1400
YY05016		4.44	15.65	0.08	1.7	0.056	1.24	20.5	21.7	1.82	1100	0.82	1.65	7.9	110.5	1500
YY05017		4.00	15.70	0.09	1.9	0.052	1.32	22.0	17.9	1.13	872	0.92	1.87	9.9	30.5	1210
YY05018		4.86	16.45	0.11	1.7	0.059	1.53	27.2	18.8	1.27	1340	0.84	2.02	9.1	31.6	850
YY05019		5.99	16.45	0.12	2.0	0.069	1.54	28.7	17.8	1.11	1360	0.93	1.82	9.7	20.2	1080
YY05020		4.04	16.15	0.09	1.8	0.054	1.34	19.4	21.1	0.98	1120	1.23	1.64	9.9	25.0	1870
YY05021		3.74	15.65	0.09	1.8	0.049	1.38	23.2	18.4	0.96	984	1.27	1.81	9.5	24.4	1630
YY05022		3.82	16.40	0.07	1.7	0.058	1.44	21.0	19.5	1.09	1140	1.54	1.85	10.1	26.6	1670
YY05023		3.50	16.55	0.08	2.1	0.049	1.58	23.1	18.5	1.05	699	1.18	2.06	10.1	27.4	1090
YY05024		3.42	15.10	0.09	1.8	0.049	1.46	20.9	18.4	0.91	982	1.46	1.79	9.3	24.6	1590
YY05025		4.85	15.60	0.09	1.4	0.069	1.15	21.2	24.0	1.36	1380	1.58	1.49	6.9	36.2	2020
YY05026		4.48	17.25	0.10	1.8	0.059	1.42	22.7	22.8	1.38	1170	1.17	1.81	10.0	40.6	1240
YY05027		4.30	14.15	0.08	1.3	0.054	1.14	17.9	20.4	1.16	1260	0.97	1.28	6.1	30.8	1890
YY05028		4.01	16.55	0.09	2.0	0.052	1.40	19.7	20.8	1.12	896	0.90	1.88	9.0	26.3	1560
YY05029		3.65	11.30	0.06	1.2	0.045	0.98	14.2	11.0	0.79	1170	2.67	1.18	4.7	24.5	3160
YY05030		2.90	10.15	0.08	0.9	0.036	0.77	15.1	14.1	1.16	1290	1.30	1.14	4.9	59.9	1660
YY05031		6.15	15.95	0.09	1.1	0.061	1.30	14.5	25.5	2.49	1250	5.18	1.74	4.2	87.7	850
YY05032		4.10	17.05	0.08	1.8	0.053	1.58	22.8	22.5	1.49	877	1.16	2.08	9.4	54.3	520
YY05033		4.08	16.40	0.12	1.8	0.051	1.41	24.1	19.6	1.45	731	1.38	2.13	9.7	54.6	760
YY05034		5.34	16.00	0.08	1.5	0.057	1.09	15.0	23.1	2.27	956	3.21	2.09	5.4	60.2	1050
YY05035		3.76	16.15	0.09	1.9	0.051	1.38	21.8	19.8	1.74	696	1.16	2.00	9.7	69.8	1280
YY05036		3.80	16.40	0.09	1.9	0.056	1.62	20.0	18.9	1.08	824	1.09	2.13	10.7	29.0	1130
YY05037		4.42	15.85	0.08	1.8	0.054	1.49	18.9	21.1	0.99	807	1.77	1.71	10.1	80.1	1430
YY05038		3.90	15.85	0.08	1.6	0.052	1.38	18.3	19.0	1.28	798	1.03	1.91	9.2	42.8	1230
YY05039		5.14	16.80	0.09	1.5	0.059	1.25	21.9	19.8	1.39	1390	0.96	1.87	8.0	33.7	1570
YY05040		3.79	15.45	0.08	2.0	0.049	1.52	23.8	17.8	1.38	819	1.00	2.11	9.1	59.0	990



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18157287

Sample Description	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
Method Analyte Units LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY05001	12.4	47.8	<0.002	0.06	1.69	23.4	1	1.1	286	0.54	<0.05	6.67	0.411	0.36	2.0
YY05002	10.6	43.7	<0.002	0.08	1.58	15.2	<1	0.9	397	0.45	<0.05	5.26	0.370	0.32	1.7
YY05003	16.4	60.4	<0.002	0.05	2.30	22.8	<1	1.3	273	0.78	<0.05	7.20	0.452	0.49	2.3
YY05004	12.2	54.2	<0.002	0.05	1.98	20.4	<1	1.3	275	0.87	<0.05	6.48	0.424	0.44	2.0
YY05005	15.0	47.8	<0.002	0.10	1.67	19.8	<1	1.1	280	0.61	<0.05	6.71	0.369	0.38	2.0
YY05006	13.4	53.2	<0.002	0.08	1.57	15.4	<1	1.3	263	0.79	<0.05	6.86	0.407	0.45	2.0
YY05007	10.1	53.0	<0.002	0.03	2.11	26.7	<1	1.2	239	0.57	<0.05	4.79	0.493	0.43	1.6
YY05008	13.7	56.1	<0.002	0.05	1.81	20.0	1	1.6	299	0.82	<0.05	6.36	0.419	0.45	1.8
YY05009	14.6	54.5	<0.002	0.10	1.58	18.6	<1	1.3	268	0.70	<0.05	6.35	0.423	0.45	2.1
YY05010	12.4	48.1	<0.002	0.05	2.26	21.1	<1	1.2	287	0.68	<0.05	6.23	0.484	0.39	1.8
YY05011	19.9	58.1	<0.002	0.08	1.73	21.4	<1	1.1	282	0.54	0.06	8.33	0.378	0.48	2.3
YY05012	10.8	45.3	<0.002	0.07	0.76	10.0	<1	0.9	449	0.53	<0.05	5.70	0.338	0.31	2.0
YY05013	16.2	49.3	<0.002	0.11	1.15	18.1	<1	1.0	239	0.49	<0.05	6.41	0.339	0.42	1.8
YY05014	16.3	60.3	<0.002	0.05	1.67	21.9	<1	1.2	260	0.82	<0.05	7.18	0.421	0.49	2.7
YY05015	19.5	70.4	<0.002	0.05	2.76	24.3	<1	1.5	231	0.60	0.05	7.77	0.404	0.60	2.7
YY05016	13.8	52.4	<0.002	0.08	1.35	19.8	<1	1.1	260	0.56	<0.05	6.39	0.363	0.45	1.9
YY05017	13.9	50.8	<0.002	0.07	1.18	16.8	<1	1.3	291	0.75	<0.05	6.65	0.416	0.43	1.9
YY05018	27.1	55.0	<0.002	0.03	2.09	22.5	<1	1.3	315	0.69	<0.05	6.79	0.436	0.41	2.0
YY05019	17.2	54.3	<0.002	0.05	2.07	23.9	<1	1.3	281	0.74	<0.05	8.14	0.471	0.42	2.5
YY05020	14.7	54.5	<0.002	0.11	1.19	15.4	1	1.4	267	0.74	<0.05	6.04	0.389	0.44	1.9
YY05021	14.7	50.9	<0.002	0.10	1.13	14.5	<1	1.2	319	0.68	<0.05	6.66	0.369	0.42	1.9
YY05022	17.9	59.1	<0.002	0.09	1.25	16.3	<1	1.4	286	0.75	<0.05	7.43	0.379	0.49	2.2
YY05023	13.5	54.5	<0.002	0.06	1.32	14.1	1	1.3	341	0.75	<0.05	7.20	0.382	0.41	2.1
YY05024	14.3	54.2	<0.002	0.11	1.47	14.3	1	1.2	294	0.66	<0.05	6.47	0.351	0.44	1.9
YY05025	15.8	46.7	<0.002	0.14	2.38	23.6	2	1.0	270	0.49	0.05	5.68	0.363	0.44	2.5
YY05026	16.2	55.6	<0.002	0.06	1.57	19.0	<1	1.3	272	0.74	<0.05	6.95	0.395	0.50	2.1
YY05027	15.1	49.0	<0.002	0.14	1.69	20.0	<1	0.9	219	0.42	<0.05	5.44	0.288	0.40	1.7
YY05028	15.5	53.3	<0.002	0.10	1.64	17.6	<1	1.2	275	0.66	<0.05	6.21	0.367	0.45	1.7
YY05029	28.3	32.7	<0.002	0.22	4.10	20.3	2	0.8	251	0.33	0.05	3.34	0.299	0.40	2.1
YY05030	9.7	31.1	<0.002	0.19	1.21	16.4	1	0.7	257	0.34	<0.05	3.85	0.232	0.33	1.7
YY05031	13.1	38.9	<0.002	0.07	3.86	31.2	2	0.7	401	0.31	0.07	3.17	0.358	0.67	1.5
YY05032	15.9	60.9	<0.002	0.03	1.76	18.5	<1	1.3	330	0.67	<0.05	7.27	0.398	0.57	1.7
YY05033	14.8	51.1	<0.002	0.03	1.55	18.5	1	1.2	315	0.69	0.05	6.75	0.459	0.47	1.8
YY05034	11.8	35.7	<0.002	0.05	2.43	25.8	1	0.9	352	0.39	<0.05	3.66	0.389	0.49	1.5
YY05035	14.6	50.6	<0.002	0.07	1.35	18.6	<1	1.2	328	0.69	0.05	6.79	0.371	0.45	2.1
YY05036	14.0	58.3	<0.002	0.07	1.61	14.7	<1	1.3	306	0.81	<0.05	6.70	0.396	0.48	1.9
YY05037	15.3	60.7	<0.002	0.08	3.35	15.9	<1	1.2	240	0.66	<0.05	6.87	0.363	0.49	1.6
YY05038	12.9	53.7	<0.002	0.07	1.35	16.4	<1	1.2	279	0.62	<0.05	5.88	0.390	0.43	1.7
YY05039	13.2	47.7	<0.002	0.09	1.27	20.9	<1	1.2	277	0.51	0.05	5.63	0.456	0.36	1.4
YY05040	13.5	56.0	<0.002	0.04	1.52	15.7	<1	1.1	323	0.61	<0.05	7.51	0.392	0.41	2.0



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Sample Description	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY05001		143	1.6	22.1	81	65.8
YY05002		115	1.6	12.5	65	58.6
YY05003		167	2.5	19.0	92	64.9
YY05004		155	2.2	17.3	74	54.7
YY05005		140	1.6	17.6	76	56.9
YY05006		124	4.4	15.4	74	57.1
YY05007		200	3.2	16.2	77	47.9
YY05008		140	1.9	16.7	75	68.1
YY05009		148	1.7	16.5	80	57.5
YY05010		160	2.6	16.8	79	53.9
YY05011		146	1.8	18.1	89	60.0
YY05012		86	1.0	10.5	59	72.0
YY05013		124	1.5	16.8	84	50.6
YY05014		152	2.0	18.2	91	56.2
YY05015		182	4.1	24.0	112	71.0
YY05016		136	1.4	18.8	84	56.1
YY05017		134	1.7	15.4	70	66.6
YY05018		153	3.5	21.8	100	51.4
YY05019		172	4.9	20.7	87	58.7
YY05020		132	1.5	15.1	106	56.1
YY05021		117	2.0	15.0	94	55.3
YY05022		122	1.5	15.3	75	51.2
YY05023		110	1.6	15.0	68	68.1
YY05024		108	1.9	15.5	78	55.1
YY05025		171	2.3	25.2	105	44.1
YY05026		152	1.8	18.7	88	53.0
YY05027		133	2.2	19.1	75	41.7
YY05028		128	2.1	15.7	67	55.8
YY05029		146	3.5	14.3	91	45.4
YY05030		104	1.2	16.3	68	30.2
YY05031		255	2.8	18.9	172	35.7
YY05032		144	1.8	16.1	84	60.5
YY05033		143	2.3	17.5	76	55.1
YY05034		221	2.1	16.2	128	41.7
YY05035		127	1.5	14.8	62	72.8
YY05036		127	1.6	14.7	65	57.5
YY05037		116	2.9	14.0	73	60.4
YY05038		126	1.7	15.6	72	49.6
YY05039		170	1.6	17.7	97	51.0
YY05040		119	1.3	16.5	72	59.4



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Sample Description	Method Analyte Units LOD	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS61 Ag ppm	ME- MS61 Al %	ME- MS61 As ppm	ME- MS61 Ba ppm	ME- MS61 Be ppm	ME- MS61 Bi ppm	ME- MS61 Ca %	ME- MS61 Cd ppm	ME- MS61 Ce ppm	ME- MS61 Co ppm	ME- MS61 Cr ppm	ME- MS61 Cs ppm	ME- MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05041		0.26	0.005	0.09	7.02	6.2	760	1.18	0.15	1.97	0.22	39.1	23.9	172	5.03	87.4
YY05042		0.27	0.002	0.07	7.67	14.4	740	1.22	0.12	2.07	0.25	50.2	22.6	163	4.93	60.7
YY05043		0.09	0.002	0.15	5.65	10.2	580	0.83	0.16	1.51	0.48	30.6	16.3	95	5.31	55.3
YY05044		0.23	0.012	0.26	7.82	43.2	750	1.11	0.16	1.61	0.27	40.0	25.9	131	11.20	105.0
YY05045		0.18	0.008	0.28	7.24	21.0	740	1.17	0.16	1.84	0.29	42.2	20.8	112	11.05	90.7
YY05046		0.14	0.010	0.18	5.29	14.0	540	0.77	0.11	1.89	0.55	26.1	15.1	71	9.42	67.6
YY05047		0.13	0.002	0.17	6.90	16.5	770	1.19	0.18	1.53	0.24	35.3	16.0	90	7.69	58.7
YY05048		0.22	0.016	0.13	6.42	12.8	800	1.01	0.19	1.55	0.25	31.3	16.9	96	4.97	46.4
YY05049		0.13	0.017	0.22	6.12	14.4	800	1.12	0.18	1.92	0.58	35.3	18.0	92	5.14	56.0
YY05050		0.23	0.003	0.18	6.25	17.0	720	1.05	0.17	1.93	0.30	29.2	16.0	91	5.47	61.7
YY05051		0.18	0.006	0.09	7.02	17.4	850	1.20	0.17	1.74	0.23	46.5	20.6	102	5.07	49.7
YY05052		0.25	0.004	0.11	7.76	14.9	900	1.33	0.20	2.08	0.31	50.5	24.1	138	6.28	69.8
YY05053		0.33	0.006	0.20	8.35	15.3	920	1.51	0.25	1.52	0.15	52.7	17.0	64	15.05	73.0
YY05054		0.21	0.008	0.17	6.54	12.6	820	1.16	0.17	1.43	0.32	38.3	12.5	63	3.96	51.3
YY05055		0.27	0.004	0.12	6.99	11.2	940	1.32	0.19	1.61	0.24	44.7	14.7	88	3.36	50.9
YY05056		0.22	0.003	0.07	6.79	6.8	800	1.19	0.17	1.79	0.29	48.6	15.2	52	2.55	59.5
YY05057		0.16	0.001	0.11	6.02	9.2	910	1.04	0.18	1.80	0.25	30.4	13.1	82	3.70	34.7
YY05058		0.07	0.016	0.14	5.89	4.3	620	0.99	0.14	2.88	0.46	29.5	11.4	26	1.80	34.3
YY05059		0.25	0.007	0.11	7.08	8.3	770	1.10	0.14	1.95	0.25	37.1	17.6	161	5.85	61.7
YY05060		0.25	0.004	0.14	7.09	17.1	970	1.27	0.19	2.06	0.22	47.5	20.0	125	3.20	73.9
YY05061		0.24	0.007	0.37	6.65	17.5	870	1.23	0.20	2.13	0.29	47.4	17.2	82	4.71	85.1
YY05062		0.14	0.005	0.36	5.15	6.3	660	0.94	0.13	1.66	0.24	32.7	10.4	65	1.84	41.9
YY05063		0.12	0.005	0.18	6.06	9.0	800	1.16	0.15	2.63	0.30	46.9	13.5	72	3.49	48.6
YY05064		0.23	0.002	0.13	6.95	10.0	1020	1.31	0.16	1.98	0.19	43.4	16.3	115	2.37	35.9
YY05065		0.16	0.005	0.11	7.15	13.6	800	1.17	0.14	1.95	0.33	52.0	17.8	114	2.88	48.2
YY05066		0.18	0.004	0.15	7.18	15.3	910	1.23	0.16	1.97	0.30	45.2	19.3	106	3.95	62.1
YY05067		0.16	0.018	0.23	7.53	13.7	830	1.22	0.12	1.91	0.27	48.1	19.6	91	6.14	84.2
YY05068		0.15	0.011	0.31	6.51	76.3	770	1.22	0.20	1.96	0.44	35.6	21.4	80	7.72	137.0
YY05069		0.12	0.013	0.93	5.06	37.8	550	0.79	0.14	3.08	1.41	25.0	18.4	82	4.99	120.0
YY05070		0.10	0.285	0.97	5.84	390	550	0.85	0.10	1.41	1.05	23.2	25.8	43	5.73	46.9
YY05071		0.06	NSS	0.57	3.58	36.8	380	0.48	0.11	2.45	1.51	16.85	14.0	66	4.45	75.4
YY05072		0.06	NSS	0.53	2.43	14.3	280	0.43	0.08	2.00	1.65	16.15	9.8	39	2.95	50.3
YY05073		0.05	NSS	0.26	2.23	9.0	340	0.33	0.09	3.02	2.22	12.15	7.2	41	1.87	39.1
YY05074		0.10	0.006	0.48	5.20	27.8	620	0.77	0.13	2.15	2.10	21.5	16.6	102	3.19	62.8
YY05075		0.10	0.004	0.11	4.98	10.6	720	0.96	0.16	2.05	2.34	32.5	13.7	77	2.29	32.1
YY05076		0.12	0.033	0.16	5.55	14.7	720	0.83	0.16	1.81	0.46	30.0	17.2	67	3.42	50.1
YY05077		0.18	0.004	0.11	6.63	12.5	860	1.21	0.18	1.58	0.23	36.9	15.3	77	3.61	76.6
YY05078		0.19	0.005	0.08	6.52	10.3	950	1.13	0.12	2.06	0.22	43.8	13.7	108	1.85	41.9
YY05079		0.14	0.010	0.12	6.40	10.0	890	1.07	0.14	2.07	0.33	40.9	15.1	85	2.32	69.0
YY05080		0.18	0.003	0.13	5.78	8.0	910	1.13	0.15	1.59	0.27	30.2	10.5	80	2.18	26.6



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05041		4.49	15.30	0.08	1.7	0.058	1.18	19.7	25.2	2.14	1100	0.71	1.85	7.6	62.6	1420
YY05042		4.80	16.90	0.10	1.9	0.060	1.35	26.1	21.9	1.91	1210	0.61	2.35	8.8	56.8	870
YY05043		3.72	12.90	0.07	1.5	0.047	0.97	16.1	16.0	1.18	859	0.77	1.47	6.4	30.5	1550
YY05044		5.29	16.95	0.09	1.5	0.061	1.51	21.5	25.6	1.75	1410	0.64	1.82	6.8	53.6	800
YY05045		5.02	16.80	0.09	1.7	0.064	1.25	21.9	24.0	1.50	1220	0.76	1.79	7.1	39.0	1120
YY05046		3.55	12.00	0.08	1.1	0.044	0.96	13.6	22.3	0.93	943	0.88	1.29	4.6	25.0	1360
YY05047		4.31	16.00	0.07	1.6	0.056	1.19	18.3	23.9	1.17	786	0.85	1.69	7.6	30.9	1150
YY05048		4.23	16.05	0.09	1.5	0.053	1.18	15.5	20.3	1.22	1020	0.98	1.64	7.5	44.4	1590
YY05049		3.80	14.50	0.08	1.3	0.052	1.15	17.0	20.9	1.21	964	0.92	1.49	6.9	44.3	1510
YY05050		4.06	14.40	0.08	1.3	0.049	1.05	15.7	20.5	1.13	931	0.98	1.49	6.8	38.2	1840
YY05051		4.12	15.80	0.07	1.5	0.051	1.31	21.6	20.6	1.38	804	0.96	1.95	7.7	50.2	830
YY05052		4.62	17.40	0.09	1.8	0.061	1.38	27.4	22.5	1.89	1100	0.90	2.16	8.7	72.8	970
YY05053		3.97	19.35	0.11	2.3	0.048	1.62	29.4	28.6	1.30	1030	0.81	1.89	8.1	32.6	1130
YY05054		3.86	15.15	0.07	1.9	0.047	1.36	19.9	16.5	0.87	968	1.03	1.79	7.6	20.4	2120
YY05055		3.99	15.75	0.09	1.8	0.049	1.38	22.6	18.5	1.25	821	0.77	1.96	8.8	41.8	1440
YY05056		4.11	15.45	0.08	2.0	0.052	1.30	24.1	16.8	0.96	902	0.91	2.03	8.9	19.9	1110
YY05057		3.92	14.75	0.07	1.6	0.045	1.22	15.5	16.9	1.10	871	1.13	1.75	8.0	32.1	1320
YY05058		2.77	15.30	0.07	1.8	0.029	1.30	15.2	14.8	0.80	699	1.22	1.96	5.9	11.2	1290
YY05059		4.19	15.80	0.08	1.8	0.051	1.26	17.9	22.6	1.93	800	0.96	2.08	8.0	54.6	1000
YY05060		4.21	16.10	0.08	1.6	0.056	1.29	22.1	22.3	1.63	885	0.95	1.98	8.9	70.0	920
YY05061		3.92	15.45	0.11	1.6	0.045	1.27	25.2	20.4	1.17	925	0.86	1.74	8.4	39.0	1310
YY05062		2.84	12.10	0.08	1.4	0.037	0.99	17.0	11.4	0.79	456	1.12	1.55	6.5	25.3	1470
YY05063		3.18	13.85	0.09	1.6	0.043	1.22	24.3	16.0	1.06	694	0.85	1.81	8.4	34.4	1180
YY05064		3.63	15.05	0.08	1.5	0.047	1.43	20.3	17.9	1.39	642	0.81	2.09	8.8	54.8	660
YY05065		4.32	15.75	0.08	1.8	0.058	1.30	25.0	19.5	1.48	732	0.97	2.18	9.0	44.5	780
YY05066		4.20	15.75	0.10	1.6	0.055	1.37	23.0	19.2	1.53	910	1.04	2.15	8.3	49.3	1110
YY05067		4.33	17.00	0.11	1.7	0.057	1.50	25.5	24.0	1.40	918	0.79	2.15	8.1	40.2	820
YY05068		4.39	15.05	0.08	1.5	0.059	1.23	19.3	23.5	1.35	1240	1.31	1.52	7.0	45.6	1820
YY05069		4.05	11.85	0.09	1.1	0.051	0.93	15.7	17.7	1.22	1050	2.21	1.04	4.4	44.3	1520
YY05070		5.33	14.00	0.06	1.4	0.064	1.21	11.3	16.0	1.19	1870	0.89	1.49	4.6	18.9	1570
YY05071		2.77	8.02	0.06	0.7	0.034	0.57	9.8	12.5	1.10	791	0.91	0.80	3.1	29.7	1460
YY05072		1.81	5.63	0.06	0.5	0.027	0.47	12.2	7.3	0.60	650	1.19	0.42	1.9	18.9	1610
YY05073		1.52	4.98	0.06	0.5	0.023	0.41	6.5	6.7	0.59	599	1.89	0.51	2.1	24.9	1420
YY05074		3.85	11.50	0.07	1.0	0.042	0.94	13.2	16.6	1.45	672	3.47	1.20	3.8	51.0	1050
YY05075		3.04	11.60	0.07	1.2	0.033	0.98	17.4	14.3	1.11	878	1.26	1.33	5.6	36.8	1670
YY05076		3.94	14.30	0.08	1.6	0.043	1.04	14.7	16.0	1.04	1460	1.66	1.54	7.1	22.9	1850
YY05077		3.99	15.45	0.08	1.6	0.051	1.35	17.5	17.1	1.18	786	0.94	1.82	8.1	32.2	1370
YY05078		3.25	14.30	0.09	1.4	0.039	1.39	23.2	13.8	1.20	669	0.76	2.18	7.3	41.6	870
YY05079		3.40	14.15	0.08	1.5	0.043	1.31	21.2	14.2	1.20	799	0.68	2.05	7.6	35.1	970
YY05080		3.44	14.40	0.07	1.5	0.045	1.33	16.0	13.1	0.94	560	0.97	1.80	8.0	26.3	1220



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61 Pb ppm	ME- MS61 Rb ppm	ME- MS61 Re ppm	ME- MS61 S %	ME- MS61 Sb ppm	ME- MS61 Sc ppm	ME- MS61 Se ppm	ME- MS61 Sn ppm	ME- MS61 Sr ppm	ME- MS61 Ta ppm	ME- MS61 Te ppm	ME- MS61 Th ppm	ME- MS61 Ti %	ME- MS61 Tl ppm	ME- MS61 U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY05041		9.2	42.1	<0.002	0.08	0.94	25.9	1	1.1	332	0.52	<0.05	5.80	0.369	0.30	1.7
YY05042		11.6	42.9	<0.002	0.03	1.23	26.5	<1	1.1	315	0.58	<0.05	7.08	0.431	0.31	2.4
YY05043		9.7	37.0	<0.002	0.13	0.97	19.4	1	0.9	225	0.44	<0.05	4.74	0.349	0.27	1.5
YY05044		14.0	54.7	<0.002	0.03	1.92	30.6	<1	1.1	244	0.46	<0.05	6.40	0.409	0.42	1.9
YY05045		14.6	49.8	<0.002	0.06	1.85	30.3	1	1.1	255	0.47	<0.05	6.59	0.419	0.36	1.8
YY05046		9.1	38.4	<0.002	0.14	1.45	20.8	<1	0.7	205	0.31	<0.05	4.25	0.294	0.31	1.1
YY05047		13.5	48.6	<0.002	0.07	1.62	20.9	1	1.1	244	0.51	<0.05	6.44	0.376	0.42	1.9
YY05048		11.5	49.7	<0.002	0.09	1.84	19.0	<1	1.1	245	0.48	0.05	5.58	0.392	0.42	1.7
YY05049		11.8	50.2	<0.002	0.11	1.62	19.3	1	1.0	238	0.46	0.06	5.78	0.320	0.40	1.5
YY05050		9.7	45.0	<0.002	0.12	2.25	20.9	1	0.9	224	0.42	<0.05	4.67	0.368	0.40	1.6
YY05051		13.4	49.7	<0.002	0.04	1.52	18.3	<1	1.1	284	0.56	<0.05	6.55	0.383	0.35	1.4
YY05052		14.4	48.9	<0.002	0.03	1.72	23.8	1	1.1	316	0.59	<0.05	6.86	0.458	0.37	1.9
YY05053		17.1	60.9	<0.002	0.05	1.47	17.3	<1	1.1	283	0.53	<0.05	9.00	0.368	0.46	2.2
YY05054		10.9	50.2	<0.002	0.10	1.12	16.4	<1	1.1	277	0.52	<0.05	6.64	0.377	0.35	1.9
YY05055		12.2	52.5	<0.002	0.06	1.27	17.4	<1	1.2	277	0.59	<0.05	7.03	0.400	0.36	1.8
YY05056		10.9	47.7	<0.002	0.05	1.10	16.7	<1	1.2	285	0.64	<0.05	7.29	0.425	0.32	1.8
YY05057		11.3	58.6	<0.002	0.09	1.40	15.1	<1	1.1	273	0.52	<0.05	4.98	0.397	0.36	1.5
YY05058		8.5	36.5	<0.002	0.10	0.61	8.8	<1	0.8	516	0.38	<0.05	4.46	0.346	0.22	1.2
YY05059		9.4	44.5	<0.002	0.06	1.02	21.6	1	1.0	328	0.54	0.05	6.03	0.381	0.31	1.6
YY05060		12.0	50.2	<0.002	0.05	1.77	20.3	<1	1.1	298	0.57	<0.05	7.10	0.428	0.38	1.7
YY05061		12.6	51.4	<0.002	0.08	1.22	18.5	<1	1.1	274	0.57	0.05	7.43	0.381	0.38	1.9
YY05062		9.0	34.0	<0.002	0.13	0.86	12.4	<1	0.8	312	0.43	<0.05	4.92	0.313	0.28	1.7
YY05063		10.7	47.4	<0.002	0.10	1.07	15.0	<1	1.0	321	0.54	<0.05	7.26	0.337	0.35	2.0
YY05064		12.2	51.0	<0.002	0.04	1.30	16.3	<1	1.1	322	0.68	<0.05	6.10	0.370	0.38	1.6
YY05065		10.5	46.5	<0.002	0.05	1.30	20.2	<1	1.1	317	0.63	<0.05	7.41	0.410	0.35	1.7
YY05066		12.0	50.0	<0.002	0.04	1.61	20.8	<1	1.1	325	0.55	<0.05	7.33	0.423	0.37	2.0
YY05067		11.3	53.2	<0.002	0.02	1.37	22.9	<1	1.1	303	0.55	<0.05	6.15	0.442	0.36	2.1
YY05068		13.4	49.6	<0.002	0.12	2.18	20.6	1	1.0	262	0.45	<0.05	5.54	0.344	0.40	2.0
YY05069		10.4	37.7	<0.002	0.16	3.44	19.3	2	0.7	251	0.27	<0.05	3.98	0.260	0.37	2.1
YY05070		18.8	44.3	<0.002	0.14	2.22	23.5	1	0.7	199.0	0.30	<0.05	3.07	0.492	0.38	0.8
YY05071		7.9	25.5	<0.002	0.17	1.33	15.5	1	0.5	174.0	0.20	<0.05	2.63	0.189	0.22	0.9
YY05072		6.4	21.0	<0.002	0.23	0.98	10.4	1	0.3	124.5	0.12	<0.05	1.70	0.122	0.20	0.7
YY05073		10.8	17.7	<0.002	0.21	0.78	7.8	1	0.4	169.5	0.15	<0.05	1.74	0.121	0.16	0.8
YY05074		11.7	34.1	<0.002	0.12	2.10	19.2	2	0.7	242	0.27	0.06	4.06	0.257	0.43	1.4
YY05075		11.7	38.7	<0.002	0.12	1.16	12.1	1	0.8	258	0.37	<0.05	4.54	0.287	0.31	1.2
YY05076		11.5	41.9	<0.002	0.13	1.14	15.0	1	1.0	288	0.51	0.07	4.94	0.368	0.37	1.6
YY05077		12.6	50.8	<0.002	0.06	1.11	16.1	1	1.1	257	0.56	<0.05	5.79	0.420	0.38	1.6
YY05078		11.2	48.8	<0.002	0.03	1.18	15.4	<1	1.0	330	0.51	<0.05	5.91	0.349	0.34	1.6
YY05079		12.3	47.1	<0.002	0.05	1.10	15.6	<1	1.0	304	0.53	<0.05	5.87	0.385	0.34	1.5
YY05080		11.6	51.6	<0.002	0.06	1.02	12.7	1	1.1	272	0.57	<0.05	4.45	0.351	0.36	1.6

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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY05041		156	1.1	17.3	70	48.3
YY05042		166	1.1	22.2	80	55.8
YY05043		127	1.2	14.1	69	44.9
YY05044		182	3.0	26.3	85	43.0
YY05045		175	2.0	24.2	85	50.6
YY05046		125	1.2	15.1	68	38.0
YY05047		147	1.7	16.9	74	49.8
YY05048		142	1.6	14.6	75	45.0
YY05049		124	1.4	18.0	81	40.5
YY05050		145	2.0	16.7	74	41.3
YY05051		135	1.4	15.6	68	48.1
YY05052		155	1.8	24.1	91	60.2
YY05053		119	2.7	20.7	81	78.2
YY05054		123	1.8	13.9	71	57.0
YY05055		127	1.9	16.6	75	54.9
YY05056		126	1.7	16.1	67	63.5
YY05057		135	1.3	13.3	75	52.2
YY05058		85	0.7	10.0	73	60.2
YY05059		142	1.3	16.5	74	57.8
YY05060		138	1.5	18.6	73	52.1
YY05061		131	1.9	20.0	76	53.8
YY05062		89	1.0	13.2	47	42.1
YY05063		105	1.6	17.3	64	50.0
YY05064		119	1.2	15.6	66	45.6
YY05065		144	1.5	16.6	67	53.7
YY05066		143	1.6	18.8	74	49.6
YY05067		152	2.2	21.6	72	53.8
YY05068		144	2.0	21.1	99	49.0
YY05069		161	1.7	20.0	127	33.8
YY05070		185	12.2	11.5	91	36.7
YY05071		100	1.4	13.2	80	23.3
YY05072		74	1.2	15.7	76	16.4
YY05073		57	0.6	7.7	103	17.2
YY05074		161	1.8	17.1	137	34.3
YY05075		100	0.9	11.8	90	35.8
YY05076		142	1.5	11.4	79	50.0
YY05077		132	1.5	15.0	69	48.9
YY05078		116	2.0	15.3	57	40.8
YY05079		116	1.4	16.5	70	46.4
YY05080		114	1.2	12.0	48	42.1



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
YY05081		0.29	0.004	0.09	6.98	11.6	1130	1.35	0.17	1.96	0.19	39.4	15.6	112	2.47	35.7
YY05082		0.31	0.003	0.04	6.75	10.9	970	1.23	0.18	1.61	0.15	42.5	14.5	91	2.53	27.5
YY05083		0.27	0.004	0.08	6.81	10.9	1010	1.34	0.15	1.89	0.32	44.3	15.9	99	2.23	27.8
YY05084		0.25	0.004	0.07	7.03	11.5	1000	1.46	0.18	1.70	0.13	49.8	14.3	92	4.97	30.8
YY05085		0.29	0.002	0.10	7.61	11.6	1050	1.42	0.18	1.69	0.31	46.7	18.0	84	3.28	35.7
YY05086		0.22	0.002	0.13	6.58	10.0	930	1.09	0.17	1.47	0.17	37.0	15.0	65	4.30	38.0
YY05087		0.25	0.002	0.05	7.10	10.1	1050	1.44	0.16	1.75	0.21	49.6	17.3	104	2.93	59.3
YY05088		0.26	0.002	0.04	7.22	7.2	950	1.33	0.16	1.69	0.14	40.3	17.7	137	2.35	26.5
YY05089		0.24	0.002	0.05	6.35	9.6	1110	1.25	0.21	1.48	0.12	38.7	11.7	94	2.64	19.6
YY05090		0.23	0.006	0.07	6.54	8.1	1040	1.28	0.17	1.48	0.17	42.3	14.5	106	2.27	25.5
YY05091		0.29	0.004	0.04	6.53	10.6	1110	1.39	0.14	1.67	0.17	44.7	17.7	161	2.13	24.4
YY05092		0.32	0.002	0.06	6.22	8.5	1150	1.34	0.16	1.52	0.16	40.0	16.0	158	2.48	21.2
YY05093		0.36	0.001	0.04	6.48	8.5	1110	1.30	0.15	1.56	0.19	39.5	17.7	210	2.15	23.8
YY05094		0.28	<0.001	0.08	6.61	9.4	1100	1.37	0.15	1.72	0.19	45.6	17.0	130	2.40	28.6
YY05095		0.30	0.002	0.04	6.86	8.2	1000	1.43	0.18	1.56	0.15	40.8	12.1	82	2.22	22.7
YY05096		0.33	0.003	0.05	7.31	9.0	1060	1.50	0.19	1.80	0.17	51.5	12.6	85	2.46	31.2
YY05097		0.31	0.007	0.05	7.20	8.3	1000	1.34	0.16	1.87	0.13	40.8	14.4	73	2.75	43.4
YY05098		0.22	0.001	0.23	4.91	4.0	750	0.87	0.15	1.44	0.10	26.3	9.1	56	2.05	20.5
YY05099		0.31	0.003	0.06	7.11	8.9	990	1.38	0.17	1.85	0.17	46.7	15.5	93	2.42	37.8
YY05100		0.24	0.003	0.05	6.95	20.2	1000	1.40	0.17	1.50	0.14	45.1	13.9	95	2.73	26.6
YY05101		0.26	0.005	0.11	6.29	7.3	940	1.23	0.16	1.56	0.22	43.6	14.3	76	3.39	36.0
YY05102		0.22	0.005	0.08	6.25	8.3	970	1.25	0.20	1.38	0.10	42.3	12.1	68	2.58	25.6
YY05103		0.29	0.005	0.04	7.04	9.5	1120	1.40	0.17	1.68	0.11	47.8	15.0	93	2.28	26.9
YY05104		0.29	0.004	0.07	6.59	10.3	1060	1.25	0.18	1.42	0.16	42.5	12.7	102	2.51	24.2
YY05105		0.36	0.005	0.04	6.62	7.7	1070	1.30	0.19	1.41	0.13	40.1	10.1	83	2.26	17.8
YY05106		0.33	0.006	0.07	6.84	8.5	910	1.16	0.16	1.59	0.15	37.7	14.6	78	2.32	28.7
YY05107		0.26	0.005	0.11	7.18	10.2	960	1.31	0.18	1.83	0.18	48.2	16.9	80	2.70	62.7
YY05108		0.28	0.013	0.04	7.17	9.1	980	1.39	0.19	1.64	0.13	41.4	14.1	80	2.55	34.3
YY05109		0.33	0.002	0.04	7.00	9.8	970	0.86	0.15	1.58	0.13	43.1	14.1	84	2.36	32.4
YY05110		0.19	0.002	0.10	6.72	6.3	770	0.85	0.13	1.89	0.12	35.9	12.5	57	2.46	39.6
YY05111		0.23	0.006	0.05	6.37	7.8	930	0.98	0.17	1.35	0.16	37.4	9.5	75	2.90	22.4
YY05112		0.31	0.001	0.07	7.09	8.2	1070	1.09	0.14	1.79	0.15	55.2	12.4	71	1.78	26.9
YY05113		0.29	0.009	0.09	7.41	13.1	730	0.97	0.19	1.42	0.26	50.7	20.2	53	3.03	79.4
YY05114		0.20	0.004	0.07	6.50	6.3	790	1.03	0.15	1.55	0.17	45.6	12.5	70	2.07	51.9
YY05115		0.38	0.003	0.12	6.27	7.6	900	1.11	0.19	1.11	0.39	42.5	11.0	66	2.37	32.1
YY05116		0.26	0.006	0.34	7.23	12.2	1130	1.28	0.21	1.78	0.33	48.6	18.4	72	2.84	62.4
YY05117		0.26	0.009	0.44	6.40	11.6	980	1.16	0.21	1.96	0.38	40.2	14.8	69	2.83	61.1
YY05118		0.21	0.007	0.44	6.21	10.7	940	1.10	0.22	2.10	0.40	38.3	15.3	65	2.70	67.7
YY05119		0.22	0.006	0.32	6.66	8.7	970	1.27	0.22	2.04	0.14	46.6	15.0	63	2.64	55.5
YY05120		0.21	0.008	0.36	7.17	12.2	1190	1.25	0.24	1.96	0.37	41.8	17.8	78	3.28	83.4



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05081		3.43	15.85	0.08	1.5	0.038	1.51	18.7	16.1	1.26	763	0.80	2.12	8.4	46.9	800
YY05082		3.60	16.25	0.07	1.7	0.049	1.43	20.6	18.9	1.23	646	0.91	1.96	9.7	36.7	950
YY05083		3.73	15.60	0.10	1.8	0.056	1.31	21.3	15.7	1.25	807	1.72	2.13	8.9	38.3	880
YY05084		3.67	15.90	0.09	1.7	0.049	1.38	22.7	17.8	1.19	689	0.85	2.03	9.7	39.1	870
YY05085		4.17	16.80	0.10	1.5	0.055	1.58	21.7	18.1	1.46	878	1.14	2.11	9.1	39.8	810
YY05086		3.85	16.55	0.08	1.6	0.049	1.40	18.2	17.6	0.99	974	1.01	1.83	8.3	24.2	1100
YY05087		3.64	15.75	0.10	1.7	0.043	1.48	23.1	17.3	1.33	726	0.95	2.08	9.3	47.2	660
YY05088		4.22	16.75	0.09	1.6	0.046	1.28	18.8	17.5	1.60	852	0.78	1.99	8.8	79.3	1080
YY05089		3.32	18.00	0.09	1.8	0.045	1.57	19.7	18.9	1.09	693	1.24	1.84	12.2	40.0	1240
YY05090		3.22	15.60	0.09	1.6	0.042	1.49	21.2	15.9	1.12	657	0.88	1.95	8.8	53.3	1120
YY05091		3.35	15.20	0.09	2.2	0.042	1.54	21.4	17.2	1.61	651	0.78	2.08	9.6	141.0	600
YY05092		3.29	15.25	0.08	1.6	0.042	1.49	19.7	18.2	1.36	659	1.06	1.88	11.0	114.0	860
YY05093		3.31	14.90	0.09	1.6	0.038	1.51	20.4	16.5	1.82	578	0.88	1.95	9.9	177.5	960
YY05094		3.56	15.05	0.10	1.7	0.040	1.42	21.4	18.6	1.31	755	0.89	1.96	9.2	67.1	1100
YY05095		3.31	16.45	0.08	1.9	0.043	1.54	20.8	19.8	1.11	542	0.79	2.00	9.7	31.3	970
YY05096		3.38	16.10	0.12	1.9	0.046	1.63	25.8	17.1	1.18	619	0.81	2.22	9.8	32.5	1150
YY05097		3.98	16.70	0.08	1.8	0.053	1.50	19.9	16.7	1.18	807	0.83	2.23	8.9	27.3	780
YY05098		2.67	12.10	0.08	1.3	0.034	1.07	14.2	9.1	0.67	433	1.19	1.47	6.4	18.7	2210
YY05099		3.75	16.45	0.10	1.7	0.050	1.47	24.0	17.1	1.30	737	0.82	2.14	9.6	40.4	900
YY05100		3.33	15.75	0.10	1.5	0.043	1.44	21.1	16.4	1.17	731	0.86	1.94	8.9	47.4	900
YY05101		3.22	14.90	0.09	1.4	0.039	1.36	22.7	15.1	1.06	854	0.99	1.91	7.6	28.5	1170
YY05102		3.15	15.35	0.07	1.6	0.041	1.41	21.9	16.3	0.93	781	1.18	1.82	8.7	24.6	1450
YY05103		3.31	15.80	0.09	1.5	0.043	1.61	23.9	18.2	1.27	602	0.71	2.17	9.0	52.2	550
YY05104		3.23	15.85	0.09	1.7	0.045	1.51	21.0	17.3	1.09	569	0.95	1.91	10.2	44.6	1180
YY05105		3.03	16.70	0.08	1.9	0.045	1.61	20.7	17.1	0.94	492	0.89	2.01	10.7	30.3	930
YY05106		3.57	15.60	0.09	1.5	0.046	1.39	19.4	15.8	1.26	674	0.69	2.18	7.8	31.3	900
YY05107		3.92	16.15	0.10	2.1	0.048	1.39	23.7	17.9	1.36	789	0.77	2.08	8.8	43.4	910
YY05108		3.45	15.85	0.10	1.6	0.048	1.50	20.9	17.6	1.19	650	0.77	2.10	9.0	40.0	840
YY05109		3.51	15.10	0.08	1.6	0.046	1.37	19.9	10.8	1.25	691	0.75	1.98	8.1	41.9	720
YY05110		3.61	16.00	0.07	1.7	0.038	1.38	17.4	10.4	1.04	644	0.91	2.07	7.5	23.1	1100
YY05111		3.16	15.00	0.06	1.6	0.039	1.48	18.1	12.4	0.92	581	0.87	1.83	9.2	24.8	1240
YY05112		2.93	14.80	0.08	1.4	0.040	1.58	26.4	11.5	1.10	559	0.50	2.32	7.9	34.1	520
YY05113		4.78	16.15	0.08	1.7	0.057	1.33	24.3	13.8	1.27	1070	0.57	2.03	7.7	20.8	680
YY05114		3.85	14.95	0.07	1.7	0.051	1.27	22.2	13.7	0.97	858	0.83	1.84	8.5	24.0	1220
YY05115		3.26	13.90	0.07	1.8	0.043	1.33	20.8	15.6	0.84	658	1.24	1.56	8.5	24.0	1760
YY05116		3.98	16.05	0.09	1.7	0.051	1.52	25.5	20.3	1.33	789	1.40	2.20	8.0	41.0	890
YY05117		3.64	14.15	0.08	1.4	0.043	1.33	24.2	20.0	1.15	703	1.52	1.75	6.7	38.7	980
YY05118		3.68	13.55	0.07	1.5	0.044	1.28	23.5	19.8	1.16	705	1.30	1.73	6.2	38.2	1080
YY05119		3.74	15.45	0.07	1.6	0.044	1.33	24.0	18.0	1.19	882	1.32	1.84	7.1	32.7	1490
YY05120		4.22	16.40	0.07	1.6	0.049	1.54	22.8	21.8	1.45	841	1.16	1.86	7.5	46.9	990



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY05081		15.2	55.2	<0.002	0.05	1.41	14.6	<1	1.1	331	0.60	0.05	5.63	0.359	0.48	1.7
YY05082		15.2	53.2	<0.002	0.04	1.27	15.1	<1	1.3	289	0.66	0.05	7.03	0.397	0.47	2.0
YY05083		14.5	47.5	<0.002	0.04	1.73	16.4	1	1.1	313	0.61	0.06	6.60	0.421	0.45	2.1
YY05084		14.5	50.1	<0.002	0.05	1.31	15.0	<1	1.2	322	0.70	0.06	7.28	0.384	0.44	2.0
YY05085		16.8	57.1	<0.002	0.04	1.30	17.6	<1	1.2	319	0.63	<0.05	7.15	0.440	0.49	1.9
YY05086		13.8	51.6	<0.002	0.07	1.50	15.2	<1	1.2	283	0.58	<0.05	5.56	0.387	0.48	1.6
YY05087		14.5	53.5	<0.002	0.04	1.31	15.5	<1	1.3	321	0.66	0.06	6.97	0.381	0.46	1.9
YY05088		14.3	45.8	<0.002	0.05	1.11	16.5	<1	1.2	348	0.58	<0.05	5.72	0.427	0.44	1.6
YY05089		15.0	58.6	<0.002	0.07	1.35	13.0	<1	1.6	281	0.89	0.06	6.45	0.409	0.55	1.9
YY05090		14.5	56.4	<0.002	0.06	1.24	13.6	<1	1.3	287	0.66	<0.05	5.97	0.343	0.46	1.6
YY05091		13.6	55.3	<0.002	0.03	1.22	13.4	<1	1.3	326	0.68	<0.05	6.64	0.331	0.42	1.9
YY05092		13.7	60.7	<0.002	0.04	1.42	12.9	1	1.3	280	0.77	<0.05	5.89	0.357	0.51	1.8
YY05093		12.6	56.7	<0.002	0.04	1.32	13.0	<1	1.2	303	0.69	<0.05	5.67	0.340	0.45	1.7
YY05094		13.8	54.8	<0.002	0.05	1.30	14.8	1	1.2	302	0.64	<0.05	6.46	0.375	0.44	1.8
YY05095		15.7	56.3	<0.002	0.04	1.24	13.6	<1	1.4	298	0.69	<0.05	6.62	0.368	0.49	1.9
YY05096		15.8	57.9	<0.002	0.04	1.32	14.8	1	1.4	340	0.71	<0.05	8.46	0.388	0.47	2.2
YY05097		13.5	54.6	<0.002	0.04	1.10	16.9	1	1.3	333	0.64	<0.05	5.91	0.419	0.44	1.7
YY05098		11.5	39.0	<0.002	0.19	0.81	11.1	1	0.9	273	0.45	<0.05	4.67	0.313	0.35	1.6
YY05099		14.1	54.0	<0.002	0.04	1.30	16.5	1	1.3	322	0.72	<0.05	7.17	0.404	0.42	1.9
YY05100		15.2	55.3	<0.002	0.05	1.59	14.1	1	1.2	293	0.61	0.05	6.48	0.349	0.47	1.8
YY05101		15.9	51.4	<0.002	0.08	1.15	14.4	1	1.1	307	0.53	0.06	6.05	0.342	0.41	1.6
YY05102		15.7	55.2	<0.002	0.08	1.18	13.2	<1	1.3	274	0.63	<0.05	6.63	0.343	0.50	1.8
YY05103		15.1	58.4	<0.002	0.03	1.21	14.2	1	1.2	327	0.66	<0.05	7.08	0.353	0.48	1.6
YY05104		14.7	56.8	<0.002	0.06	1.39	13.7	<1	1.4	280	0.72	<0.05	6.75	0.362	0.53	2.0
YY05105		16.3	59.0	<0.002	0.04	1.27	12.7	<1	1.5	294	0.81	0.06	6.82	0.366	0.52	2.1
YY05106		14.6	50.9	<0.002	0.05	1.35	16.1	1	1.1	297	0.56	0.06	5.75	0.398	0.40	1.5
YY05107		14.6	49.3	<0.002	0.05	1.24	17.8	<1	1.3	312	0.63	<0.05	7.53	0.395	0.44	2.3
YY05108		15.2	56.1	<0.002	0.04	1.39	14.8	<1	1.2	315	0.62	<0.05	7.62	0.375	0.46	1.8
YY05109		13.6	51.5	<0.002	0.04	1.11	14.5	<1	1.1	297	0.59	<0.05	5.77	0.368	0.45	1.6
YY05110		10.4	47.2	<0.002	0.08	0.88	12.4	1	1.1	422	0.49	0.05	4.87	0.425	0.34	1.5
YY05111		13.1	54.4	<0.002	0.06	1.10	11.9	1	1.3	268	0.64	<0.05	7.40	0.362	0.42	1.8
YY05112		13.0	55.2	<0.002	0.02	1.10	14.1	<1	1.1	354	0.54	<0.05	7.34	0.346	0.43	1.5
YY05113		11.3	46.5	<0.002	0.02	1.15	21.9	1	1.1	259	0.59	<0.05	6.55	0.436	0.33	2.0
YY05114		11.5	46.9	<0.002	0.06	1.00	14.9	1	1.3	266	0.57	<0.05	5.92	0.413	0.40	1.7
YY05115		12.7	51.4	<0.002	0.08	1.12	12.1	1	1.2	256	0.57	0.06	6.29	0.348	0.36	2.1
YY05116		15.2	54.7	<0.002	0.02	1.35	16.0	1	1.2	394	0.54	0.05	6.77	0.383	0.41	1.9
YY05117		13.4	51.0	<0.002	0.06	1.26	14.3	1	1.0	352	0.43	0.07	5.85	0.320	0.37	2.1
YY05118		13.2	48.3	<0.002	0.07	1.14	13.5	2	0.9	361	0.39	0.09	5.61	0.313	0.33	2.0
YY05119		14.9	49.9	<0.002	0.08	0.90	13.6	1	1.0	392	0.46	<0.05	6.36	0.351	0.38	1.7
YY05120		17.1	58.5	<0.002	0.05	1.28	15.7	1	1.1	332	0.49	0.07	6.60	0.349	0.45	1.8

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



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY05081		111	1.4	15.2	58	44.7
YY05082		120	1.6	14.7	57	52.7
YY05083		123	1.5	17.9	81	49.0
YY05084		115	2.5	15.7	60	56.3
YY05085		132	1.5	17.5	75	44.9
YY05086		129	1.6	13.2	68	49.2
YY05087		116	1.3	15.5	67	51.2
YY05088		137	1.3	15.4	74	48.0
YY05089		108	1.3	14.5	57	67.4
YY05090		105	1.2	14.3	51	45.5
YY05091		101	1.1	13.4	55	57.2
YY05092		104	1.1	13.9	54	52.1
YY05093		100	1.0	13.9	59	57.0
YY05094		112	1.2	15.9	59	46.9
YY05095		109	1.4	14.6	60	53.4
YY05096		112	1.4	16.8	61	53.4
YY05097		138	1.4	14.8	59	51.8
YY05098		91	0.8	10.4	39	40.9
YY05099		125	1.5	16.6	62	50.4
YY05100		107	1.3	14.3	56	50.7
YY05101		107	1.2	14.5	59	42.6
YY05102		106	1.4	13.2	50	44.9
YY05103		107	1.3	14.4	56	44.1
YY05104		107	1.4	13.9	54	53.4
YY05105		106	1.4	14.0	47	59.7
YY05106		123	1.5	15.9	54	45.4
YY05107		127	2.8	17.2	63	57.3
YY05108		111	1.5	15.3	56	50.3
YY05109		113	1.2	13.8	60	45.8
YY05110		114	1.0	11.3	57	57.5
YY05111		105	1.2	12.6	53	52.3
YY05112		101	1.2	15.2	50	45.2
YY05113		158	2.6	16.6	76	53.5
YY05114		124	1.2	13.1	73	61.4
YY05115		99	1.1	16.3	86	58.1
YY05116		123	1.2	20.9	84	60.2
YY05117		106	1.0	20.8	92	50.8
YY05118		105	1.0	20.7	97	53.6
YY05119		112	1.1	16.6	77	52.6
YY05120		127	1.3	19.1	93	53.8



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY05121		0.13	0.002	0.27	5.42	9.4	860	0.91	0.14	1.73	0.37	36.4	12.7	101	2.18	27.5
YY05122		0.19	0.006	0.11	6.56	11.5	970	1.13	0.13	1.77	0.24	39.4	14.1	104	2.24	39.6
YY05123		0.26	0.008	0.21	6.73	10.2	890	1.19	0.12	1.75	0.29	36.6	9.4	57	2.11	24.8
YY05124		0.07	0.001	0.13	6.72	2.6	730	1.10	0.26	2.11	0.20	33.5	9.2	17	1.23	14.3
YY05125		0.22	0.004	0.07	6.68	10.0	930	1.13	0.10	1.87	0.14	37.3	13.2	83	1.66	37.2
YY05126		0.23	0.007	0.12	6.83	14.5	870	1.14	0.14	2.02	0.28	45.0	22.4	111	2.37	59.7
YY05127		0.11	0.003	0.16	5.02	10.8	730	0.77	0.13	1.50	0.44	29.5	12.5	69	2.45	41.8
YY05128		0.12	0.023	0.18	6.08	27.6	680	0.88	0.09	2.26	0.98	45.2	18.1	95	2.71	52.7
YY05129		0.13	0.004	0.13	6.64	18.9	930	1.25	0.13	1.63	0.28	43.4	20.3	110	2.99	63.8
YY05130		0.12	0.011	0.13	6.40	19.7	850	0.98	0.15	1.72	0.33	39.4	17.5	107	3.08	61.7
YY05131		0.17	0.010	0.19	6.96	22.4	810	1.03	0.15	1.71	0.26	39.6	21.8	121	3.82	91.7
YY05132		0.12	0.008	0.14	6.73	18.0	840	1.09	0.12	1.82	0.21	39.6	19.5	118	3.19	87.4
YY05133		0.12	0.006	0.11	5.83	9.2	890	1.09	0.14	1.33	0.19	34.2	12.3	94	2.40	32.4
YY05134		0.21	0.006	0.12	6.59	11.1	920	1.15	0.13	1.80	0.19	42.3	20.2	133	2.32	48.6
YY05135		0.16	0.004	0.10	6.35	9.5	990	1.02	0.14	1.88	0.26	42.1	18.1	115	2.01	39.6
YY05136		0.19	0.001	0.09	5.74	6.1	940	1.02	0.16	1.21	0.29	30.2	10.9	86	2.40	16.9
YY05137		0.14	0.007	0.07	6.08	8.9	910	1.21	0.12	1.63	0.29	37.3	12.6	98	2.03	32.5
YY05138		0.13	0.002	0.19	6.02	3.5	660	0.95	0.11	1.86	0.24	34.5	8.2	53	1.65	21.0
YY05139		0.13	0.019	0.07	5.75	8.6	930	1.05	0.19	1.94	0.32	41.3	13.4	144	1.65	26.6
YY05140		0.15	0.003	0.13	5.30	8.7	940	0.82	0.16	1.54	3.26	29.3	21.8	171	2.98	23.5
YY05141		0.12	0.008	0.14	6.37	5.5	810	1.01	0.14	1.77	0.30	35.9	9.6	66	2.02	30.2
YY05142		0.06	0.019	0.22	5.07	7.8	560	0.70	0.14	1.83	0.47	24.0	15.2	145	8.33	88.7
YY05143		0.10	0.010	0.16	6.16	18.9	870	0.95	0.16	1.60	0.70	33.9	14.7	126	4.56	37.9
YY05144		0.15	0.003	0.10	5.93	10.8	850	0.93	0.14	1.51	0.28	33.0	10.7	99	3.14	26.8
YY05145		0.13	0.006	0.12	6.54	10.3	820	1.10	0.12	2.01	0.40	38.5	18.5	132	3.94	57.6
YY05146		0.05	0.012	0.12	2.33	5.0	380	0.45	0.10	1.62	0.78	14.10	6.3	49	2.28	30.0
YY05147		0.17	0.007	0.07	6.68	10.6	940	1.28	0.16	1.59	0.25	37.4	12.9	99	2.60	31.0
YY05148		0.19	0.003	0.07	6.88	11.7	970	1.21	0.14	2.07	0.20	37.5	14.9	120	2.77	33.8
YY05149		0.24	0.003	0.14	6.99	13.8	1050	1.49	0.19	1.89	0.21	37.9	18.2	116	4.57	49.9
YY05150		0.06	0.011	0.13	5.91	10.3	850	1.07	0.17	1.77	0.31	29.5	9.6	69	2.99	23.8
YY05151		0.12	0.013	0.33	4.81	4.2	800	0.88	0.17	1.64	0.66	30.1	19.4	52	2.66	23.1
YY05152		0.05	NSS	0.19	3.32	2.8	550	0.57	0.13	1.60	5.43	18.45	10.4	35	2.42	17.7
YY05153		0.12	0.010	0.12	4.99	4.8	720	0.90	0.15	2.39	1.80	29.4	13.0	41	1.80	40.5
YY05154		0.19	0.007	0.17	5.81	6.3	1020	1.16	0.19	1.48	0.28	32.2	13.2	72	2.81	22.1
YY05155		0.26	0.003	0.16	7.06	9.1	1090	1.28	0.22	1.65	0.25	42.7	15.2	85	2.91	41.0
YY05156		0.23	0.003	0.16	7.28	9.6	1100	1.27	0.24	1.38	0.25	41.4	16.7	100	2.95	40.6
YY05157		0.08	NSS	0.30	5.51	3.6	740	0.93	0.15	1.83	0.42	40.3	9.8	64	1.85	33.4
YY05158		0.28	0.005	0.24	7.43	9.8	1150	1.25	0.21	1.64	0.28	43.4	13.7	99	2.72	50.9
YY05159		0.10	0.004	0.19	7.05	10.2	1120	1.28	0.20	1.68	0.56	41.3	16.5	87	2.64	52.0
YY05160		0.10	0.004	0.18	6.81	9.0	1080	1.22	0.22	1.84	0.36	37.6	13.0	84	2.73	50.9



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05121		3.41	12.90	0.07	1.3	0.040	1.23	17.6	11.1	0.99	771	1.13	1.66	6.7	37.3	1160
YY05122		3.54	14.50	0.07	1.6	0.042	1.38	19.3	15.6	1.27	662	0.81	2.03	8.4	45.9	670
YY05123		2.98	14.95	0.05	1.8	0.032	1.64	17.7	15.4	0.90	580	1.08	2.19	7.2	20.1	850
YY05124		2.52	16.30	0.08	2.2	0.025	1.73	17.1	15.6	0.71	815	1.32	2.42	5.6	7.9	810
YY05125		3.14	13.90	0.07	1.3	0.038	1.47	18.0	13.4	1.26	615	0.56	2.24	6.7	42.6	730
YY05126		4.19	14.75	0.08	1.3	0.051	1.23	23.0	16.6	1.78	1040	0.79	2.05	6.4	58.8	1020
YY05127		2.85	11.30	0.07	1.2	0.037	1.06	14.0	11.5	0.96	867	1.11	1.50	5.2	27.4	1520
YY05128		4.01	13.05	0.07	1.6	0.043	1.15	22.3	14.5	1.41	890	1.35	1.83	6.2	35.0	1020
YY05129		4.52	15.55	0.08	1.7	0.046	1.27	19.1	18.1	1.72	893	0.83	1.84	7.3	59.5	1130
YY05130		3.85	14.10	0.06	1.6	0.046	1.22	19.5	15.5	1.50	784	0.81	1.95	7.4	43.6	1030
YY05131		4.59	15.10	0.07	1.4	0.053	1.17	19.8	19.3	1.80	1040	0.86	1.92	7.2	54.8	1130
YY05132		4.31	14.70	0.07	1.4	0.052	1.16	19.0	17.6	1.71	886	0.91	1.95	7.4	66.0	920
YY05133		3.22	13.25	0.07	1.4	0.040	1.24	15.7	15.4	1.11	683	0.91	1.64	8.0	44.5	1350
YY05134		4.11	14.95	0.08	1.8	0.048	1.26	20.5	16.1	1.49	969	1.09	1.92	7.8	62.1	1010
YY05135		3.68	13.45	0.07	1.1	0.041	1.30	19.0	16.3	1.54	885	0.87	1.89	7.0	68.5	760
YY05136		3.42	14.45	0.07	1.5	0.040	1.47	14.2	11.9	0.77	875	1.60	1.70	9.0	22.7	600
YY05137		3.55	14.30	0.08	1.4	0.044	1.41	17.9	13.5	1.06	864	0.89	1.89	7.6	31.6	970
YY05138		2.59	14.30	0.07	1.8	0.030	1.29	16.9	13.0	0.81	608	1.21	1.91	5.9	17.1	1990
YY05139		2.87	12.50	0.07	1.3	0.035	1.35	20.5	12.6	1.27	758	0.87	1.93	7.5	58.7	920
YY05140		3.61	13.65	<0.05	1.2	0.038	1.18	14.0	12.4	1.32	2710	1.41	1.56	6.6	57.0	1120
YY05141		2.81	14.45	0.08	1.7	0.036	1.34	18.7	15.1	1.06	497	1.07	1.98	6.7	32.4	1160
YY05142		3.35	11.25	0.06	1.2	0.033	0.92	13.7	16.6	1.58	687	0.73	1.19	4.7	55.0	1610
YY05143		3.74	14.65	0.07	1.4	0.042	1.33	17.5	17.6	1.38	967	1.09	1.69	7.6	44.6	740
YY05144		3.57	13.60	0.07	1.5	0.043	1.28	16.0	14.6	1.15	622	1.03	1.70	8.1	30.6	1230
YY05145		3.89	13.40	0.07	1.6	0.047	1.25	18.9	19.4	1.70	875	1.01	1.96	6.1	54.5	1000
YY05146		1.46	5.18	0.05	0.5	0.020	0.53	7.3	7.9	0.54	577	1.62	0.53	2.7	20.1	1590
YY05147		3.64	13.65	0.06	1.7	0.046	1.43	19.5	16.2	1.20	761	0.87	1.87	7.1	36.8	1290
YY05148		3.80	14.75	0.07	1.4	0.048	1.45	19.7	18.2	1.52	762	0.82	2.08	7.5	43.5	960
YY05149		4.07	15.35	0.07	1.5	0.048	1.43	19.8	21.6	1.56	999	1.00	1.78	7.7	55.6	1630
YY05150		2.98	14.05	0.06	1.7	0.033	1.38	15.4	15.1	0.97	813	1.76	1.81	6.8	26.2	1610
YY05151		2.65	11.80	0.06	1.7	0.036	1.05	15.0	12.3	0.72	1960	1.85	1.29	5.7	19.7	2530
YY05152		1.62	7.61	<0.05	1.0	0.023	0.81	8.8	8.0	0.49	2450	2.00	1.00	3.7	12.2	2190
YY05153		2.55	11.80	0.06	1.5	0.030	0.98	14.8	12.6	0.73	2260	1.76	1.40	4.7	20.0	1910
YY05154		3.06	13.35	0.06	1.6	0.039	1.35	17.3	15.0	0.84	688	1.50	1.65	7.5	24.9	1310
YY05155		3.83	15.55	0.08	1.5	0.045	1.41	22.1	20.9	1.27	688	1.21	1.88	7.8	41.5	1540
YY05156		4.01	15.70	0.07	1.6	0.045	1.46	21.0	19.9	1.35	766	1.23	1.90	8.3	44.3	1320
YY05157		2.40	11.80	0.07	1.5	0.031	1.14	25.4	14.2	0.82	507	1.42	1.64	4.8	27.6	1550
YY05158		3.97	15.40	0.08	1.4	0.051	1.43	24.5	20.6	1.46	640	1.11	2.16	7.5	47.1	1250
YY05159		3.73	14.65	0.07	1.4	0.049	1.39	22.7	20.5	1.36	664	0.98	2.04	7.2	45.7	1240
YY05160		3.64	14.70	0.08	1.4	0.042	1.36	20.6	20.0	1.32	534	1.06	1.88	6.8	46.5	1050



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		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY05121		10.1	52.3	0.002	0.09	1.27	12.3	<1	1.0	290	0.47	<0.05	4.33	0.368	0.33	1.4
YY05122		10.1	56.3	<0.002	0.03	1.21	14.9	1	1.1	298	0.54	<0.05	5.38	0.382	0.34	1.8
YY05123		10.0	53.8	<0.002	0.04	0.93	10.8	1	1.0	398	0.50	<0.05	4.87	0.342	0.31	1.6
YY05124		7.8	43.4	<0.002	0.04	0.45	6.3	<1	0.8	584	0.38	0.06	4.87	0.333	0.26	1.7
YY05125		10.1	51.8	<0.002	0.02	1.09	14.6	1	0.8	331	0.49	<0.05	4.19	0.350	0.34	1.3
YY05126		11.7	45.3	<0.002	0.03	1.33	20.4	<1	1.0	307	0.43	0.05	5.38	0.415	0.36	1.5
YY05127		9.0	46.5	<0.002	0.11	0.91	11.9	1	0.8	240	0.35	<0.05	3.52	0.282	0.29	1.2
YY05128		9.1	43.4	<0.002	0.06	1.46	19.2	1	1.0	296	0.44	<0.05	5.03	0.389	0.33	1.6
YY05129		10.9	44.8	<0.002	0.06	1.39	19.5	<1	1.1	295	0.45	<0.05	5.61	0.378	0.34	1.8
YY05130		10.7	46.3	<0.002	0.05	1.22	17.8	<1	1.0	278	0.56	<0.05	5.77	0.391	0.31	1.6
YY05131		11.3	46.8	<0.002	0.06	1.42	20.4	<1	1.0	263	0.50	0.06	5.16	0.397	0.35	1.6
YY05132		9.4	44.7	<0.002	0.04	1.57	19.8	<1	1.0	271	0.47	<0.05	5.12	0.402	0.30	1.4
YY05133		10.7	49.5	<0.002	0.08	1.09	12.8	1	1.1	242	0.55	<0.05	4.68	0.336	0.37	1.6
YY05134		10.3	51.4	<0.002	0.05	1.17	18.1	<1	1.1	273	0.53	<0.05	5.40	0.409	0.37	1.7
YY05135		10.6	47.6	<0.002	0.03	1.06	15.7	1	0.9	288	0.47	<0.05	4.69	0.357	0.33	1.4
YY05136		10.9	64.8	<0.002	0.03	1.01	10.3	1	1.3	249	0.62	<0.05	3.91	0.385	0.45	1.4
YY05137		9.4	60.5	<0.002	0.04	1.05	14.5	1	1.1	270	0.51	<0.05	4.40	0.374	0.34	1.3
YY05138		7.2	42.2	<0.002	0.10	0.58	9.0	<1	0.9	446	0.40	<0.05	4.50	0.335	0.26	1.4
YY05139		26.4	54.1	<0.002	0.04	1.31	13.1	<1	0.9	307	0.55	<0.05	5.05	0.336	0.35	1.3
YY05140		9.3	68.1	<0.002	0.07	1.29	14.3	<1	0.9	246	0.44	<0.05	3.97	0.372	0.30	1.2
YY05141		9.4	43.1	<0.002	0.06	0.79	11.0	<1	0.9	383	0.44	<0.05	4.60	0.337	0.33	1.5
YY05142		7.8	43.6	<0.002	0.14	0.85	16.9	1	0.7	195.5	0.34	<0.05	3.56	0.245	0.26	1.2
YY05143		10.6	60.2	<0.002	0.05	1.48	16.3	<1	1.1	259	0.53	<0.05	4.38	0.343	0.34	1.5
YY05144		9.8	51.4	<0.002	0.06	1.10	14.0	<1	1.1	250	0.57	<0.05	4.75	0.364	0.33	1.5
YY05145		10.3	43.8	<0.002	0.06	1.15	19.2	<1	0.9	290	0.43	0.05	4.65	0.357	0.31	1.6
YY05146		6.7	25.6	<0.002	0.19	0.62	6.1	<1	0.5	117.5	0.19	<0.05	1.86	0.128	0.16	0.7
YY05147		11.7	54.2	<0.002	0.06	1.20	15.9	1	1.1	278	0.52	<0.05	5.94	0.360	0.38	1.9
YY05148		11.2	51.9	<0.002	0.05	1.04	17.9	<1	1.1	333	0.52	<0.05	4.80	0.376	0.37	1.6
YY05149		13.3	56.8	<0.002	0.08	1.15	17.6	<1	1.1	288	0.53	<0.05	5.82	0.365	0.43	1.9
YY05150		9.0	50.7	<0.002	0.11	0.87	11.1	1	1.0	345	0.47	<0.05	4.04	0.361	0.32	1.6
YY05151		11.1	45.5	<0.002	0.17	0.73	9.9	1	0.9	273	0.41	<0.05	3.78	0.298	0.43	1.5
YY05152		8.2	40.0	<0.002	0.22	0.56	7.3	<1	0.6	212	0.24	<0.05	2.62	0.197	0.30	1.3
YY05153		10.1	31.7	<0.002	0.19	0.75	8.2	1	0.8	364	0.33	0.05	3.81	0.275	0.38	3.7
YY05154		14.6	53.5	<0.002	0.09	0.88	11.0	1	1.1	282	0.52	0.05	4.61	0.348	0.44	1.7
YY05155		14.1	53.6	<0.002	0.07	1.01	15.7	1	1.1	325	0.53	0.05	6.46	0.379	0.41	1.9
YY05156		13.7	56.2	<0.002	0.05	1.12	16.5	1	1.2	304	0.58	0.05	6.07	0.405	0.46	2.0
YY05157		9.1	39.6	<0.002	0.13	0.67	9.4	1	0.8	319	0.33	<0.05	4.07	0.264	0.30	1.7
YY05158		12.1	51.3	<0.002	0.04	1.09	18.5	1	1.1	362	0.50	0.06	6.04	0.396	0.42	1.8
YY05159		12.2	49.4	<0.002	0.07	1.07	17.2	1	1.1	358	0.48	0.05	5.61	0.370	0.42	1.8
YY05160		12.5	50.7	<0.002	0.08	1.08	15.7	1	1.1	331	0.46	0.07	5.63	0.351	0.43	1.6

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To: STRATEGIC METALS LTD.
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	Method Analyte Units LOD	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
YY05121		113	1.1	10.6	57	47.3
YY05122		122	1.3	14.3	68	55.7
YY05123		95	1.2	11.4	60	61.2
YY05124		72	0.5	7.7	57	75.9
YY05125		111	1.4	13.9	49	42.3
YY05126		141	1.4	19.1	75	41.0
YY05127		98	1.1	11.0	65	39.2
YY05128		146	2.8	17.3	86	46.6
YY05129		145	1.8	15.2	74	57.0
YY05130		130	1.7	15.4	81	46.6
YY05131		151	1.8	18.8	81	45.4
YY05132		146	1.3	16.4	80	46.3
YY05133		104	1.0	11.6	60	51.9
YY05134		137	2.4	15.6	63	53.6
YY05135		116	0.9	13.9	64	39.2
YY05136		115	1.3	10.0	50	48.2
YY05137		118	1.1	13.6	56	47.6
YY05138		81	0.6	9.1	54	61.2
YY05139		97	1.1	14.0	69	41.7
YY05140		127	1.0	10.6	109	42.3
YY05141		90	0.9	12.3	57	62.0
YY05142		112	0.8	16.2	70	37.1
YY05143		122	1.5	15.2	70	51.5
YY05144		115	1.2	11.8	63	50.1
YY05145		132	1.2	15.1	84	44.2
YY05146		48	0.6	6.3	78	16.2
YY05147		115	1.2	14.5	67	48.1
YY05148		127	1.1	16.0	67	42.9
YY05149		132	1.2	16.2	81	43.6
YY05150		101	0.9	9.8	72	60.7
YY05151		87	0.8	11.0	73	48.2
YY05152		61	0.4	5.9	116	33.6
YY05153		81	0.6	11.2	99	47.8
YY05154		102	1.2	11.7	63	44.9
YY05155		121	1.3	15.8	86	48.5
YY05156		131	1.3	15.8	83	50.6
YY05157		77	0.7	16.8	65	47.2
YY05158		136	1.2	17.8	92	45.1
YY05159		124	1.2	18.3	86	58.3
YY05160		116	1.3	16.0	90	49.3



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Sample Description	Method	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Analyte Units LOD	Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05161		0.09	0.025	0.31	4.98	9.1	780	0.76	0.15	2.72	1.00	27.9	15.8	94	1.92	67.8
YY05162		0.22	0.005	0.19	7.21	9.1	1210	1.20	0.19	1.81	0.29	43.1	16.8	98	2.51	50.9
YY05163		0.10	0.004	0.43	6.01	11.8	1010	1.16	0.17	1.89	0.96	35.9	10.1	84	3.65	57.7
YY05164		0.19	0.007	0.37	6.84	11.5	1100	1.38	0.17	1.91	0.23	45.3	14.6	91	2.82	59.1
YY05165		0.13	0.007	0.28	5.59	9.3	950	0.99	0.14	2.16	0.77	32.0	12.1	89	2.62	52.4
YY05166		0.30	0.006	0.11	6.72	10.8	1110	1.31	0.20	1.58	0.18	43.3	14.6	92	3.49	38.7
YY05167		0.12	0.005	0.14	6.80	13.2	1070	1.22	0.17	1.71	0.34	41.6	17.9	98	4.54	63.2
YY05168		0.13	0.004	0.18	6.58	10.3	960	1.27	0.19	2.08	0.21	39.3	15.1	79	3.67	47.9
YY05169		0.08	0.005	0.21	5.12	12.3	810	0.99	0.18	2.33	0.77	29.3	15.9	76	4.38	52.5
YY05170		0.22	0.004	0.27	6.10	11.9	930	1.17	0.17	2.25	0.60	44.1	15.8	75	3.79	56.9
YY05171		0.23	0.003	0.32	5.56	8.2	930	1.06	0.18	2.74	0.32	33.1	11.7	59	2.34	58.0
YY05172		0.27	0.008	0.35	7.17	12.8	1210	1.19	0.24	1.87	0.26	43.5	16.6	85	2.84	73.7
YY05173		0.30	0.007	0.29	6.26	9.5	1040	1.06	0.23	2.21	0.26	38.0	14.1	74	2.36	63.8
YY05174		0.32	0.015	0.30	6.85	8.0	1060	1.17	0.18	2.45	0.19	38.4	13.8	58	2.21	64.4
YY05175		0.29	0.010	0.33	7.03	11.7	1220	1.13	0.20	3.68	0.34	40.5	19.3	66	2.58	83.8
YY05176		0.19	0.003	0.19	6.49	10.1	1100	1.13	0.20	1.82	0.20	33.5	15.9	78	3.14	53.2
YY05177		0.40	0.005	0.18	7.05	9.3	1130	1.25	0.19	1.65	0.15	40.9	12.2	76	2.52	47.4
YY05178		0.32	0.007	0.34	6.60	8.5	1130	1.14	0.20	2.04	0.16	40.0	12.3	78	2.81	48.0
YY05179		0.23	0.003	0.29	6.89	9.7	1160	1.15	0.22	1.63	0.43	39.2	15.7	81	2.81	62.0
YY05180		0.20	0.002	0.37	6.26	9.3	1070	1.22	0.20	1.98	0.36	40.5	13.5	74	2.82	58.7
YY05181		0.23	0.004	0.38	7.28	10.2	1220	1.26	0.19	1.75	0.27	47.1	16.4	83	2.56	72.5
YY05182		0.24	0.006	0.42	6.78	11.5	1190	1.24	0.20	1.85	0.40	42.7	14.5	83	2.93	73.4
YY05183		0.24	0.004	0.36	6.52	10.3	1090	1.18	0.17	1.86	0.33	41.0	14.5	62	2.07	58.9
YY05184		0.22	0.022	0.47	6.74	12.0	1130	1.14	0.18	2.09	0.33	37.9	15.0	72	2.56	95.9
YY05185		0.23	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY05186		0.39	0.004	0.19	8.03	18.3	990	1.22	0.25	1.40	0.19	36.8	24.0	109	3.92	74.5
YY05187		0.31	0.003	0.17	6.94	10.2	930	1.08	0.18	1.42	0.14	36.0	15.9	90	2.77	44.2
YY05188		0.29	0.003	0.08	6.66	8.5	970	1.09	0.21	1.59	0.13	44.9	11.2	78	2.35	24.4
YY05189		0.38	0.014	0.09	7.50	8.1	890	1.14	0.14	1.81	0.20	45.8	16.6	64	2.66	68.5
YY05190		0.24	0.003	0.11	7.46	9.3	1000	1.10	0.16	1.84	0.15	41.9	18.4	92	2.33	43.4
YY05191		0.29	0.002	0.08	7.48	8.9	960	1.18	0.22	1.88	0.21	43.2	18.9	87	2.45	37.5
YY05192		0.30	0.026	0.10	7.08	7.9	1010	1.28	0.28	2.00	0.22	46.2	14.8	86	2.09	29.7
YY05193		0.29	0.007	0.10	7.14	8.4	850	1.22	0.18	1.49	0.20	41.8	16.0	87	3.95	47.1
YY05194		0.24	0.002	0.08	6.52	7.1	800	1.14	0.14	1.80	0.18	43.8	15.8	64	2.84	66.3
YY05195		0.21	0.018	0.08	6.31	7.9	830	0.87	0.18	1.60	0.15	34.1	14.0	82	2.48	32.3
YY05196		0.36	0.008	0.06	6.76	8.9	970	1.31	0.16	1.63	0.19	40.4	12.7	88	2.49	26.5
YY05197		0.28	0.002	0.08	6.50	6.6	920	1.16	0.17	1.63	0.17	41.6	14.8	103	2.63	25.8
YY05198		0.29	0.005	0.07	6.94	7.1	970	1.23	0.15	1.78	0.23	47.7	18.6	107	2.46	29.5
YY05199		0.28	0.007	0.08	6.56	6.6	950	1.19	0.14	1.63	0.20	41.4	12.7	92	2.27	25.3
YY05200		0.27	0.025	0.05	6.52	7.0	930	1.21	0.16	1.60	0.21	41.0	12.9	89	2.33	23.0

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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
YY05161		2.99	10.65	0.07	1.0	0.038	0.88	18.0	13.9	1.12	815	1.02	1.41	3.9	43.4	1270
YY05162		3.81	15.10	0.07	1.6	0.045	1.46	24.0	19.7	1.43	708	1.20	2.17	8.0	50.6	880
YY05163		3.07	12.80	0.08	1.5	0.039	1.28	24.7	19.5	1.07	404	2.06	1.59	6.1	42.4	1800
YY05164		3.69	16.05	0.09	1.8	0.052	1.34	26.8	20.8	1.33	600	1.40	1.97	8.6	56.6	1210
YY05165		3.11	10.70	0.06	1.3	0.037	1.17	19.3	15.5	1.20	607	1.59	1.60	5.7	47.4	1350
YY05166		3.62	15.65	0.08	1.6	0.051	1.49	22.6	18.7	1.18	879	1.23	1.81	9.3	40.3	1830
YY05167		3.73	15.00	0.07	1.7	0.048	1.52	20.1	20.9	1.37	728	1.07	1.96	7.6	51.5	1270
YY05168		3.42	15.00	0.08	1.6	0.039	1.39	20.4	19.3	1.22	753	1.11	1.85	7.2	41.5	1410
YY05169		3.26	11.35	0.07	1.5	0.036	1.04	15.7	17.2	1.17	935	1.18	1.21	5.5	39.3	1880
YY05170		3.33	13.45	0.08	1.5	0.040	1.28	23.9	18.4	1.15	804	1.06	1.66	6.3	43.4	1410
YY05171		3.07	11.90	0.07	1.4	0.033	1.11	20.0	16.5	1.02	631	1.27	1.54	5.4	30.5	1140
YY05172		4.21	15.50	0.08	1.5	0.052	1.52	25.4	20.9	1.49	706	1.16	2.08	7.6	49.6	1030
YY05173		3.60	12.90	0.07	1.3	0.040	1.27	21.7	16.6	1.27	668	1.10	1.87	6.1	41.0	960
YY05174		3.39	15.05	0.07	1.7	0.037	1.55	21.2	18.1	1.18	697	1.40	2.26	6.4	33.6	940
YY05175		3.84	14.60	0.07	1.5	0.043	1.45	23.7	19.5	1.38	816	1.74	2.24	6.6	42.9	1090
YY05176		4.13	14.95	0.06	1.5	0.046	1.41	17.6	18.5	1.26	754	1.29	1.71	7.3	37.7	1280
YY05177		3.77	15.45	0.07	1.7	0.042	1.59	21.7	19.1	1.22	652	1.15	2.01	7.9	36.1	1200
YY05178		3.68	14.75	0.06	1.6	0.045	1.37	21.9	19.0	1.19	748	1.08	1.76	7.9	32.1	1770
YY05179		4.01	14.60	0.08	1.3	0.042	1.42	22.4	19.1	1.39	701	1.04	1.89	6.8	39.8	1420
YY05180		3.61	14.05	0.08	1.5	0.044	1.31	25.4	19.2	1.12	770	1.31	1.58	6.6	34.8	1550
YY05181		3.98	15.60	0.08	1.5	0.053	1.49	26.2	21.9	1.36	784	1.47	2.14	7.4	46.9	700
YY05182		3.89	15.00	0.08	2.0	0.048	1.40	23.9	22.0	1.28	720	1.27	1.85	7.4	45.0	1200
YY05183		3.46	13.75	0.07	1.5	0.045	1.29	24.4	18.9	1.08	756	1.17	2.07	6.4	33.6	920
YY05184		3.93	14.50	0.08	1.6	0.048	1.34	25.1	22.9	1.26	735	1.40	1.83	6.2	41.9	910
YY05185		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY05186		5.22	18.05	0.07	1.6	0.060	1.48	18.3	22.5	1.95	1060	0.82	1.73	7.5	54.7	1010
YY05187		4.10	13.95	0.06	1.4	0.044	1.29	18.3	16.8	1.47	736	0.64	1.75	6.3	38.5	1010
YY05188		3.34	14.90	0.07	1.4	0.046	1.42	23.9	15.0	1.12	535	0.70	1.99	7.7	27.9	950
YY05189		4.13	16.30	0.07	1.9	0.053	1.36	23.5	16.1	1.19	789	0.61	2.17	7.4	28.8	580
YY05190		4.00	15.40	0.07	1.2	0.050	1.37	19.1	16.3	1.58	781	0.62	2.14	7.4	47.7	530
YY05191		4.00	14.95	0.07	1.3	0.051	1.36	21.8	16.1	1.56	770	0.58	2.17	7.1	43.8	820
YY05192		3.42	14.70	0.07	1.5	0.048	1.43	22.4	13.9	1.31	655	0.64	2.31	7.4	42.5	750
YY05193		4.11	15.65	0.07	1.9	0.046	1.23	20.4	16.5	1.23	952	0.81	1.97	7.4	46.0	1350
YY05194		3.98	14.65	0.07	1.7	0.051	1.28	22.1	14.5	1.00	1110	0.83	1.84	8.8	21.8	1200
YY05195		3.90	14.65	0.06	1.7	0.052	1.19	17.7	13.9	1.02	942	0.94	1.80	7.5	30.5	1380
YY05196		3.51	14.55	0.05	1.6	0.046	1.40	19.9	16.1	1.20	618	0.79	1.96	8.1	46.4	1080
YY05197		3.66	14.85	0.07	1.4	0.044	1.30	21.1	15.0	1.22	673	0.77	1.95	7.6	73.4	1340
YY05198		4.01	15.20	0.07	1.7	0.054	1.31	23.4	16.0	1.56	942	0.79	2.10	8.4	53.9	890
YY05199		3.34	14.05	0.07	1.4	0.047	1.37	20.4	13.9	1.21	647	0.63	2.07	7.6	41.9	880
YY05200		3.33	14.25	0.05	1.4	0.045	1.31	20.0	14.9	1.22	734	0.71	1.96	7.2	37.2	870



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CERTIFICATE OF ANALYSIS WH18157287

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
YY05161		8.2	34.2	<0.002	0.15	1.01	15.3	1	0.7	293	0.26	0.05	3.63	0.243	0.28	1.6
YY05162		12.2	53.8	<0.002	0.03	1.15	17.9	1	1.1	380	0.54	0.06	5.84	0.401	0.41	1.8
YY05163		12.6	51.4	<0.002	0.11	1.74	11.9	1	0.9	357	0.40	0.07	5.24	0.297	0.50	2.6
YY05164		12.7	53.5	<0.002	0.06	1.36	17.3	1	1.1	360	0.57	0.06	6.03	0.369	0.45	2.3
YY05165		10.3	42.3	0.002	0.10	1.39	11.8	2	0.8	336	0.38	0.06	4.58	0.304	0.38	2.2
YY05166		14.3	61.8	<0.002	0.07	1.17	15.8	1	1.3	307	0.64	0.05	5.83	0.381	0.47	2.2
YY05167		14.8	65.1	<0.002	0.07	1.24	16.0	1	1.1	319	0.53	<0.05	5.74	0.359	0.46	2.1
YY05168		14.0	51.0	<0.002	0.09	0.98	13.7	1	1.1	337	0.51	0.05	5.48	0.335	0.38	1.8
YY05169		13.0	50.9	<0.002	0.14	1.04	11.8	1	0.8	234	0.38	0.05	4.58	0.280	0.39	1.7
YY05170		13.1	50.5	<0.002	0.09	1.16	14.2	1	0.9	317	0.42	<0.05	5.87	0.312	0.40	2.2
YY05171		12.8	42.6	<0.002	0.11	0.87	10.8	1	0.8	343	0.37	0.05	5.15	0.284	0.38	2.1
YY05172		14.7	55.5	<0.002	0.03	1.22	17.4	1	1.1	378	0.51	0.08	6.39	0.397	0.41	1.9
YY05173		11.3	46.5	<0.002	0.06	0.96	15.5	1	0.9	333	0.39	0.05	5.06	0.348	0.35	1.7
YY05174		11.5	45.8	<0.002	0.05	0.97	11.5	1	0.9	481	0.43	0.05	5.20	0.350	0.39	2.0
YY05175		14.0	49.7	<0.002	0.03	1.18	15.3	1	1.0	493	0.43	0.07	5.71	0.364	0.42	1.9
YY05176		13.9	54.6	<0.002	0.08	1.04	14.4	1	1.1	293	0.50	0.06	4.96	0.362	0.45	1.7
YY05177		12.7	53.7	<0.002	0.05	1.01	13.5	1	1.1	343	0.53	0.05	5.80	0.372	0.40	1.9
YY05178		13.1	50.6	<0.002	0.08	1.03	14.7	1	1.2	332	0.55	<0.05	5.83	0.377	0.42	2.5
YY05179		14.3	50.6	<0.002	0.08	0.98	15.7	1	1.0	331	0.44	0.07	5.87	0.366	0.42	1.8
YY05180		13.1	52.4	<0.002	0.11	1.02	12.9	1	1.0	324	0.45	0.05	5.58	0.335	0.45	2.3
YY05181		14.4	54.9	0.002	0.03	1.26	16.4	1	1.1	399	0.49	0.06	6.75	0.387	0.42	2.1
YY05182		13.3	56.7	<0.002	0.05	1.30	14.8	1	1.0	352	0.50	0.06	6.19	0.372	0.41	2.6
YY05183		11.6	46.4	<0.002	0.05	1.06	12.8	1	0.9	425	0.42	0.05	5.75	0.342	0.36	2.0
YY05184		12.0	50.8	<0.002	0.06	1.23	14.8	1	1.0	391	0.41	0.05	5.77	0.345	0.41	2.2
YY05185		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY05186		15.9	61.0	<0.002	0.04	1.72	22.9	<1	1.2	236	0.54	0.07	5.91	0.422	0.51	1.8
YY05187		12.6	46.0	<0.002	0.06	1.15	16.5	1	1.0	251	0.47	<0.05	5.11	0.382	0.39	1.5
YY05188		13.0	51.9	<0.002	0.05	1.14	13.8	1	1.2	286	0.56	<0.05	6.14	0.394	0.43	1.7
YY05189		11.9	49.2	<0.002	0.03	1.00	17.9	<1	1.2	282	0.56	<0.05	7.58	0.434	0.40	2.1
YY05190		12.9	47.7	<0.002	0.03	1.09	18.4	<1	1.0	304	0.62	0.05	5.16	0.417	0.41	1.9
YY05191		13.4	47.1	<0.002	0.03	1.08	18.1	<1	1.1	303	0.53	0.07	5.65	0.420	0.43	1.5
YY05192		13.4	49.9	<0.002	0.03	1.12	17.0	1	1.1	339	0.58	0.06	5.59	0.413	0.44	1.8
YY05193		11.8	48.0	<0.002	0.07	1.10	15.9	1	1.1	291	0.53	0.05	5.38	0.432	0.41	1.8
YY05194		10.6	45.5	<0.002	0.06	1.07	15.4	<1	1.2	282	0.63	<0.05	6.63	0.428	0.36	2.0
YY05195		11.9	47.2	<0.002	0.09	1.50	14.4	1	1.2	265	0.55	<0.05	4.57	0.437	0.38	1.6
YY05196		12.8	49.9	<0.002	0.05	1.26	14.6	1	1.2	287	0.60	<0.05	5.76	0.389	0.40	1.8
YY05197		12.4	46.5	<0.002	0.06	1.60	14.8	1	1.1	297	0.57	<0.05	5.29	0.404	0.37	1.6
YY05198		14.7	48.1	<0.002	0.04	1.10	17.1	<1	1.2	299	0.62	<0.05	6.20	0.467	0.40	1.8
YY05199		13.5	48.9	<0.002	0.05	1.01	13.3	<1	1.1	296	0.56	<0.05	5.38	0.391	0.39	1.6
YY05200		12.7	46.9	<0.002	0.04	0.94	14.3	1	1.1	288	0.52	<0.05	5.12	0.364	0.38	1.5



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY05161		104	0.8	19.8	104	34.3
YY05162		128	1.4	18.4	94	48.7
YY05163		151	1.0	23.2	131	52.5
YY05164		121	1.0	21.6	85	57.9
YY05165		128	0.8	17.8	93	40.9
YY05166		119	1.2	17.7	79	51.7
YY05167		121	1.0	15.5	88	53.0
YY05168		106	1.0	14.8	78	52.6
YY05169		102	0.9	13.9	94	37.4
YY05170		104	0.9	18.3	82	46.9
YY05171		95	0.8	16.9	70	45.2
YY05172		129	1.3	21.8	103	49.2
YY05173		109	1.1	18.3	84	41.9
YY05174		100	0.9	16.2	76	58.4
YY05175		121	1.1	19.5	94	53.1
YY05176		117	1.1	15.1	84	50.4
YY05177		112	1.2	14.7	76	52.7
YY05178		117	1.2	16.5	80	50.3
YY05179		120	1.3	18.2	94	42.9
YY05180		109	1.1	21.9	89	49.1
YY05181		122	1.1	20.3	103	55.8
YY05182		120	1.1	19.3	115	60.5
YY05183		107	0.9	18.3	90	60.4
YY05184		120	0.9	23.1	98	58.3
YY05185		NSS	NSS	NSS	NSS	NSS
YY05186		174	1.8	17.1	97	56.1
YY05187		135	1.2	14.5	71	46.0
YY05188		116	1.3	13.7	53	51.4
YY05189		137	1.5	16.2	70	60.2
YY05190		133	1.5	16.2	68	40.8
YY05191		132	1.3	16.6	69	41.0
YY05192		118	1.2	16.8	58	47.2
YY05193		126	1.3	16.2	87	69.4
YY05194		130	1.2	15.5	72	57.0
YY05195		134	1.1	13.1	73	49.4
YY05196		113	1.2	14.6	60	51.1
YY05197		119	1.1	14.2	69	47.9
YY05198		133	2.1	17.7	73	56.3
YY05199		111	1.2	14.8	63	44.2
YY05200		109	1.2	13.9	69	49.1



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Sample Description	Method Analyte Units LOD	WEI- 21	Au- ICP21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	1	0.05	0.2	
YY05201		0.26	0.011	0.05	6.34	5.6	800	1.04	0.17	1.55	0.18	37.1	14.2	69	3.20	26.7
YY05202		0.26	0.035	0.07	6.25	5.8	870	1.19	0.16	1.57	0.13	36.5	12.4	66	2.81	48.6
YY05203		0.35	0.002	0.05	6.92	7.2	970	1.24	0.14	1.79	0.16	43.7	13.4	85	2.16	37.1
YY05211		0.16	0.043	0.38	5.72	19.8	900	1.08	0.18	2.81	0.70	33.6	16.1	80	3.85	77.6
YY05212		0.30	<0.001	0.23	7.08	3.6	980	1.18	0.20	1.74	0.17	38.3	8.4	55	2.09	20.1
YY05213		0.27	0.090	0.20	6.27	6.2	910	1.10	0.14	1.28	0.50	31.1	7.7	60	2.44	27.3
YY05214		0.25	0.001	0.21	6.46	4.9	930	1.08	0.16	1.32	0.26	35.2	8.8	48	2.33	22.8
YY05215		0.34	0.003	0.14	6.77	6.1	1010	1.13	0.18	1.48	0.32	34.3	9.7	83	2.61	23.5
YY05216		0.14	0.004	0.16	6.41	7.5	1010	1.05	0.17	2.07	0.37	45.2	12.9	95	1.93	39.6
YY05217		0.34	0.003	0.23	6.56	8.9	1060	1.19	0.21	2.01	0.81	43.4	14.5	87	2.58	47.1
YY05218		0.27	<0.001	0.12	7.47	1.9	820	1.28	0.13	2.55	0.19	40.4	8.0	12	1.17	15.4
YY05219		0.17	0.001	0.07	6.84	7.9	990	1.16	0.35	1.33	0.15	36.9	10.6	81	2.60	21.5
YY05220		0.24	0.031	0.20	7.02	7.4	1010	1.04	0.24	1.77	0.57	37.0	14.1	67	2.68	32.8
YY05221		0.17	0.004	0.13	7.11	3.5	870	1.20	0.17	2.25	0.71	39.9	8.6	29	1.74	24.2
YY05222		0.18	0.015	0.19	6.06	6.1	880	1.10	0.22	2.90	1.15	39.7	14.4	64	2.26	32.8
YY05223		0.29	0.026	0.42	6.63	10.7	1080	1.45	0.26	2.18	0.83	40.6	15.5	82	2.90	74.1
YY05224		0.12	0.022	0.38	5.89	8.7	970	1.17	0.23	2.89	0.85	38.2	13.4	79	3.02	55.0
YY05225		0.30	0.011	0.22	6.63	8.1	1100	1.24	0.22	2.32	0.41	44.1	13.1	80	2.61	45.7
YY05226		0.25	0.010	0.19	6.27	8.7	1030	1.22	0.20	2.66	0.58	42.6	12.3	82	2.53	42.4
YY05227		0.20	0.062	0.15	6.39	8.5	970	1.14	0.19	2.60	0.44	37.4	13.7	72	2.45	53.9
YY05228		0.23	0.004	0.16	7.14	10.8	1170	1.18	0.23	1.95	0.33	40.9	19.1	102	2.90	65.2
YY05229		0.32	0.004	0.17	7.42	12.1	1210	1.35	0.24	1.77	0.24	44.2	18.1	113	3.00	58.3
YY05230		0.10	0.012	0.13	6.82	12.7	860	1.03	0.18	1.41	1.37	43.7	25.3	118	2.61	52.9
YY05231		0.19	0.004	0.21	7.58	12.4	960	1.26	0.16	1.49	1.06	41.7	19.2	109	2.69	72.3
YY05232		0.24	0.001	0.08	6.91	9.0	1110	1.39	0.17	1.51	0.17	44.9	13.4	114	2.71	32.4
YY05233		0.28	0.003	0.12	6.61	8.5	1110	1.20	0.13	1.71	0.13	37.4	11.7	101	2.09	31.5
YY05234		0.25	0.005	0.26	7.60	16.1	1130	1.28	0.24	1.16	0.25	43.1	21.7	114	5.29	75.6
YY05235		0.24	0.002	0.13	7.17	12.1	1030	1.21	0.19	1.44	0.15	43.0	17.9	112	3.20	46.9
YY05236		0.25	0.005	0.23	6.95	14.8	910	0.99	0.18	1.60	0.13	36.7	18.6	131	4.64	51.7
YY05237		0.23	0.004	0.20	7.17	17.8	1020	1.21	0.19	1.80	0.19	40.0	17.4	126	5.52	56.9
YY05238		0.30	0.004	0.16	6.61	14.0	1000	1.07	0.19	1.56	0.30	41.6	15.9	124	3.98	47.7
YY05239		0.11	0.007	0.49	5.52	18.2	830	1.00	0.18	2.30	0.37	29.4	19.0	111	5.71	81.9
YY05240		0.11	0.014	0.38	4.65	9.0	680	0.81	0.13	2.54	0.43	29.1	13.2	98	3.17	57.8
YY05241		0.24	0.004	0.25	6.00	9.5	1150	1.15	0.19	2.20	0.27	38.5	14.4	126	2.86	58.1
YY05242		0.21	0.005	0.11	5.26	8.4	1070	0.90	0.14	2.35	0.35	27.9	13.6	112	2.28	31.3



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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY05201		3.97	15.35	0.06	1.6	0.052	1.18	18.7	14.0	0.93	1140	0.98	1.76	8.5	21.5	1830
YY05202		4.00	14.30	0.06	1.9	0.048	1.33	18.0	14.9	0.92	1120	0.82	1.79	8.6	21.1	1380
YY05203		3.65	14.45	0.07	1.7	0.045	1.44	21.7	14.9	1.16	732	0.64	2.10	7.3	32.6	680
YY05211		3.56	12.70	0.06	1.3	0.040	1.23	21.0	18.5	1.36	640	0.92	1.44	5.7	48.4	1310
YY05212		2.49	16.65	0.06	2.1	0.030	1.84	20.9	17.0	0.75	785	1.35	2.42	6.8	18.1	1100
YY05213		2.77	14.70	0.05	1.8	0.035	1.52	16.6	17.7	0.75	457	1.62	1.87	6.4	22.3	1490
YY05214		2.62	15.80	0.06	1.9	0.028	1.64	19.2	16.2	0.71	676	1.47	2.02	6.8	16.6	1120
YY05215		3.45	16.35	0.06	1.9	0.043	1.59	18.5	17.4	1.11	621	1.23	1.97	8.0	28.1	1110
YY05216		3.29	14.35	0.08	1.7	0.045	1.35	24.3	16.2	1.27	624	1.25	2.07	8.0	47.4	1000
YY05217		3.50	14.70	0.08	1.5	0.048	1.30	23.8	18.5	1.28	776	0.95	1.76	7.2	47.3	1180
YY05218		2.54	18.60	0.06	2.6	0.022	1.95	20.3	18.5	0.81	468	1.34	2.66	5.9	8.0	850
YY05219		3.74	17.00	0.06	1.9	0.045	1.69	19.6	19.3	1.03	653	1.31	1.97	8.0	28.7	690
YY05220		3.60	16.00	0.06	2.0	0.043	1.50	18.8	18.2	1.14	893	1.11	1.97	7.0	28.2	1520
YY05221		2.66	16.55	0.07	2.2	0.030	1.77	21.5	18.9	0.77	562	1.29	2.29	6.2	14.5	1200
YY05222		2.98	13.40	0.07	1.6	0.040	1.18	21.8	18.4	0.86	2640	0.98	1.48	5.8	31.6	2110
YY05223		4.04	14.95	0.07	1.6	0.060	1.23	24.8	21.6	1.32	786	1.32	1.62	6.6	50.5	1470
YY05224		3.42	13.15	0.07	1.4	0.042	1.13	23.2	18.7	1.09	880	1.29	1.30	6.8	46.3	1900
YY05225		3.42	14.55	0.08	1.7	0.046	1.33	25.4	19.4	1.24	732	0.78	1.84	7.5	43.2	1370
YY05226		3.35	13.50	0.07	1.5	0.046	1.24	24.4	18.6	1.22	683	0.81	1.69	7.5	42.5	1300
YY05227		3.41	13.80	0.07	1.5	0.043	1.32	20.2	18.7	1.27	715	0.91	1.75	6.5	44.6	1140
YY05228		4.14	15.95	0.07	1.5	0.047	1.47	22.1	22.0	1.62	819	1.02	1.86	7.8	63.5	880
YY05229		4.16	16.65	0.08	1.7	0.048	1.49	23.1	21.9	1.62	747	1.67	2.02	8.7	73.2	970
YY05230		4.47	14.85	0.08	2.1	0.052	1.24	20.7	22.3	1.54	1460	2.17	1.88	7.2	72.5	1010
YY05231		4.52	16.20	0.08	1.7	0.054	1.33	23.3	22.5	1.52	830	2.24	2.42	7.1	65.4	1050
YY05232		3.36	16.05	0.08	1.8	0.047	1.51	23.3	19.2	1.30	572	0.95	2.03	9.3	55.3	970
YY05233		3.06	13.75	0.07	1.4	0.040	1.41	20.1	16.2	1.31	562	0.73	2.06	7.7	59.8	820
YY05234		4.51	17.95	0.08	1.8	0.052	1.50	25.2	25.6	1.63	1060	1.37	1.64	7.8	63.3	1180
YY05235		4.20	15.35	0.07	1.8	0.046	1.35	22.5	21.0	1.56	773	0.91	1.78	8.5	55.5	1170
YY05236		4.23	15.15	0.06	1.6	0.052	1.21	20.3	22.6	1.61	976	1.37	1.86	7.0	50.9	1300
YY05237		4.02	15.55	0.07	1.7	0.051	1.45	21.3	22.0	1.64	839	1.11	1.90	7.5	62.4	1160
YY05238		3.79	14.30	0.07	1.6	0.048	1.36	22.0	19.6	1.58	805	0.92	1.77	7.2	61.6	1030
YY05239		3.68	12.65	0.07	1.4	0.043	1.10	18.6	20.3	1.44	895	1.03	1.20	5.1	73.1	1690
YY05240		2.86	10.05	0.07	1.0	0.037	0.93	17.1	13.8	1.22	704	0.91	1.21	4.3	57.2	1360
YY05241		3.36	13.40	0.07	1.7	0.043	1.31	21.4	18.2	1.45	860	1.16	1.63	7.6	92.0	1120
YY05242		3.03	11.90	0.05	1.2	0.039	1.16	13.3	13.7	1.17	964	1.12	1.51	6.6	57.0	1180



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Method Analyte Units LOD	ME- MS61 Pb ppm 0.5	ME- MS61 Rb ppm 0.1	ME- MS61 Re ppm 0.002	ME- MS61 S % 0.01	ME- MS61 Sb ppm 0.05	ME- MS61 Sc ppm 0.1	ME- MS61 Se ppm 1	ME- MS61 Sn ppm 0.2	ME- MS61 Sr ppm 0.2	ME- MS61 Ta ppm 0.05	ME- MS61 Te ppm 0.05	ME- MS61 Th ppm 0.01	ME- MS61 Ti % 0.005	ME- MS61 Tl ppm 0.02	ME- MS61 U ppm 0.1
YY05201	12.8	43.5	<0.002	0.08	0.98	13.5	<1	1.3	252	0.64	<0.05	5.35	0.432	0.40	2.0
YY05202	11.7	48.1	<0.002	0.07	1.01	14.2	<1	1.2	262	0.62	<0.05	5.36	0.419	0.38	2.1
YY05203	11.7	51.5	<0.002	0.03	0.99	16.2	<1	1.1	305	0.54	<0.05	6.22	0.386	0.41	1.7
YY05211	12.7	51.4	<0.002	0.10	1.24	15.1	1	0.9	291	0.39	0.05	5.24	0.301	0.36	2.0
YY05212	10.4	58.3	<0.002	0.03	0.66	7.8	<1	0.9	472	0.50	<0.05	5.27	0.319	0.38	2.0
YY05213	10.4	52.1	<0.002	0.05	0.94	8.9	1	0.9	376	0.45	<0.05	4.51	0.307	0.37	2.2
YY05214	11.1	60.1	<0.002	0.05	0.77	8.3	1	1.0	388	0.49	<0.05	5.26	0.296	0.40	2.1
YY05215	11.1	63.1	<0.002	0.05	0.88	11.4	1	1.2	377	0.56	<0.05	5.40	0.397	0.40	2.0
YY05216	12.9	49.7	<0.002	0.05	0.98	14.4	<1	1.3	365	0.56	<0.05	5.92	0.374	0.35	1.8
YY05217	13.6	52.4	<0.002	0.06	1.01	14.9	1	1.0	323	0.51	<0.05	6.05	0.340	0.43	1.9
YY05218	8.6	44.6	<0.002	0.03	0.44	5.9	<1	0.8	645	0.43	<0.05	5.10	0.345	0.27	1.9
YY05219	13.7	59.0	<0.002	0.03	0.91	11.1	1	1.1	341	0.59	0.06	5.43	0.365	0.43	1.9
YY05220	12.4	56.3	<0.002	0.07	0.75	12.7	<1	1.0	378	0.51	<0.05	5.05	0.383	0.40	1.8
YY05221	10.6	47.1	<0.002	0.06	0.59	7.3	1	0.8	502	0.44	<0.05	5.49	0.315	0.34	2.0
YY05222	12.1	44.5	<0.002	0.11	0.71	10.1	1	0.8	305	0.42	<0.05	5.30	0.275	0.36	1.9
YY05223	16.7	53.8	<0.002	0.09	0.99	15.7	1	1.1	307	0.44	<0.05	6.16	0.344	0.40	2.6
YY05224	16.7	52.0	0.003	0.13	0.92	12.1	1	1.0	244	0.49	0.05	6.71	0.307	0.45	2.8
YY05225	13.9	55.0	<0.002	0.08	0.92	13.0	1	1.0	332	0.52	0.05	6.85	0.342	0.45	2.2
YY05226	17.0	50.1	<0.002	0.09	0.91	14.1	1	1.0	303	0.51	0.05	6.50	0.326	0.43	2.2
YY05227	11.9	48.8	<0.002	0.07	0.91	12.1	1	1.0	359	0.44	<0.05	5.53	0.334	0.37	1.7
YY05228	14.5	56.0	<0.002	0.03	1.12	16.9	1	1.1	321	0.52	0.06	6.38	0.369	0.48	1.8
YY05229	14.1	58.1	<0.002	0.02	1.26	18.5	1	1.2	335	0.59	0.07	6.64	0.406	0.46	1.7
YY05230	12.5	46.8	<0.002	0.05	1.36	19.2	2	1.1	265	0.50	0.07	5.03	0.374	0.48	1.9
YY05231	11.7	49.0	<0.002	0.03	1.47	21.3	1	1.2	330	0.50	0.06	5.85	0.393	0.46	2.0
YY05232	13.1	59.7	<0.002	0.04	1.06	16.3	1	1.2	318	0.66	<0.05	6.42	0.374	0.49	2.1
YY05233	11.2	51.6	<0.002	0.03	0.99	14.3	1	1.1	327	0.53	<0.05	5.26	0.357	0.42	1.8
YY05234	15.6	57.8	<0.002	0.05	1.25	21.1	1	1.2	264	0.55	0.06	6.92	0.369	0.54	2.4
YY05235	13.3	52.9	<0.002	0.05	1.07	17.6	1	1.2	274	0.59	0.05	6.13	0.396	0.45	1.8
YY05236	10.6	52.3	<0.002	0.06	0.96	21.1	1	1.0	297	0.48	<0.05	5.50	0.367	0.44	2.0
YY05237	12.5	53.5	<0.002	0.06	1.02	18.8	1	1.1	337	0.53	0.05	5.96	0.367	0.44	2.2
YY05238	12.6	52.8	<0.002	0.06	1.11	17.7	1	1.1	294	0.50	<0.05	6.03	0.355	0.41	1.9
YY05239	11.9	50.6	<0.002	0.14	1.16	18.1	1	0.8	240	0.36	0.07	4.95	0.264	0.38	2.0
YY05240	9.3	39.8	<0.002	0.15	0.96	13.4	1	0.7	232	0.29	<0.05	4.45	0.235	0.29	1.6
YY05241	10.9	54.8	<0.002	0.07	1.19	16.4	1	1.0	280	0.54	<0.05	5.32	0.349	0.44	2.1
YY05242	10.1	50.2	<0.002	0.09	1.20	12.3	1	0.9	265	0.44	0.05	3.82	0.333	0.39	1.4



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		1	0.1	0.1	2	0.5
YY05201		138	1.0	13.5	71	57.3
YY05202		131	1.1	13.4	75	59.4
YY05203		122	1.1	14.7	62	48.5
YY05211		110	0.9	19.9	109	48.4
YY05212		74	0.9	10.8	63	77.1
YY05213		90	0.9	10.5	88	70.6
YY05214		81	0.8	9.0	69	72.1
YY05215		112	1.0	11.3	87	62.8
YY05216		109	1.0	17.0	76	56.2
YY05217		111	1.1	21.3	93	51.1
YY05218		67	0.5	8.9	57	92.6
YY05219		106	1.3	11.4	76	71.0
YY05220		110	1.0	13.7	95	67.4
YY05221		71	0.7	12.2	89	83.4
YY05222		83	0.9	16.3	118	54.7
YY05223		117	1.1	22.3	168	55.7
YY05224		100	1.1	18.3	115	54.0
YY05225		106	1.1	19.2	91	60.5
YY05226		102	1.3	19.4	89	51.2
YY05227		106	1.0	15.7	89	54.3
YY05228		131	1.2	18.0	92	52.4
YY05229		135	1.4	18.2	91	66.2
YY05230		163	1.1	19.8	140	65.1
YY05231		160	1.0	22.5	145	60.9
YY05232		113	1.1	15.8	66	59.7
YY05233		106	0.9	15.0	60	46.8
YY05234		144	1.3	23.5	97	63.5
YY05235		134	1.2	16.1	82	57.1
YY05236		148	1.1	16.7	84	61.8
YY05237		134	1.1	16.7	91	58.4
YY05238		127	1.1	16.5	87	53.3
YY05239		118	1.1	19.3	103	47.8
YY05240		92	0.8	16.6	70	36.9
YY05241		108	1.0	18.4	80	57.8
YY05242		103	0.9	10.9	61	43.6



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CERTIFICATE COMMENTS	
	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>Applies to Method: NSS is non- sufficient sample. ALL METHODS</p> <p>Applies to Method: REE's may not be totally soluble in this method. ME- MS61</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG- 22 SCR- 41 WEI- 21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au- ICP21 ME- MS61</p>



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CERTIFICATE WH18157292

Project: HARTLESS JOE

This report is for 12 Rock samples submitted to our lab in Whitehorse, YT, Canada on 2-JUL-2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
---------------------------------	--------------	-------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 32	Fine Crushing 90% <2mm
PUL- 35a	Pulv 1 kg split to 95%<106 um

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOD	Au- ICP21	Au- GRA21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Au ppm 0.001	Au ppm 0.05	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02	Ce ppm 0.01	Co ppm 0.1	Cr ppm 1	Cs ppm 0.05	Cu ppm 0.2
W599113		0.022		0.12	5.41	4.8	140	0.48	0.12	5.18	0.10	5.21	11.8	23	2.56	119.5
W599114		0.068		0.13	0.44	25.0	20	0.06	0.10	6.07	0.11	3.82	1.3	22	0.33	7.8
W599115		1.040		3.26	0.63	654	20	0.07	0.07	0.06	18.00	0.71	1.0	38	0.26	22.2
W599116		>10.0	13.25	>100	0.46	>10000	10	0.09	0.31	0.35	39.6	3.48	1.5	35	0.62	440
W599117		0.908		6.02	1.41	276	90	0.19	0.22	0.81	3.21	5.20	4.5	31	0.46	32.7
W599118		0.121		6.24	0.70	47.6	230	0.13	0.03	3.37	1.53	0.73	2.6	52	0.57	9.8
W599119		0.046		1.76	0.43	17.3	20	0.11	0.05	0.26	1.60	0.22	1.2	45	0.36	17.9
W599120		0.120		2.16	0.59	55.3	30	0.09	0.08	0.75	20.1	0.98	3.7	85	0.36	16.0
W599121		4.76		8.83	1.35	148.0	140	0.19	0.04	0.05	1.27	2.08	2.2	75	0.51	35.4
W599122		0.216		1.01	1.09	33.5	40	0.12	0.03	0.19	1.86	1.15	5.4	60	0.23	21.4
W599123		5.44		41.2	0.27	396	10	0.08	0.03	0.01	19.50	1.75	2.1	47	0.18	40.2
W599124		0.794		1.10	0.98	56.9	100	0.15	0.47	0.03	0.46	1.18	3.4	31	0.42	30.4



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Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599113		5.33	24.6	<0.05	1.1	0.049	0.38	2.0	5.3	0.76	985	0.66	0.44	1.3	4.1	250
W599114		0.93	0.94	<0.05	<0.1	0.012	0.18	1.4	1.9	0.05	461	0.34	0.01	<0.1	1.2	90
W599115		1.22	1.68	<0.05	0.1	0.025	0.23	<0.5	1.9	0.12	144	1.01	0.01	0.1	1.3	50
W599116		3.24	1.10	<0.05	0.1	0.074	0.07	1.7	2.0	0.36	220	1.77	0.01	0.1	1.4	50
W599117		2.10	3.22	<0.05	0.2	0.026	0.45	2.6	4.4	0.45	267	0.80	0.01	0.3	6.1	170
W599118		1.77	1.44	<0.05	<0.1	0.013	0.33	<0.5	1.5	0.83	461	0.87	0.01	0.1	7.3	40
W599119		0.86	0.77	<0.05	<0.1	0.006	0.19	<0.5	1.5	0.11	149	0.82	0.01	<0.1	3.3	30
W599120		1.55	1.74	<0.05	0.1	0.080	0.20	<0.5	3.1	0.25	237	2.18	0.01	0.2	21.6	140
W599121		1.54	3.39	<0.05	0.2	0.018	0.63	0.9	3.0	0.21	106	2.69	0.38	0.5	9.1	100
W599122		1.75	3.88	<0.05	0.1	0.010	0.12	0.5	7.4	0.63	254	2.06	0.27	0.3	18.3	160
W599123		1.34	0.82	<0.05	0.1	0.078	0.05	0.7	2.6	0.05	70	1.08	0.08	0.4	2.0	30
W599124		2.24	2.48	<0.05	<0.1	0.011	0.33	0.5	3.9	0.32	294	5.69	0.01	0.1	2.3	90



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CERTIFICATE OF ANALYSIS WH18157292

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599113		5.1	6.9	<0.002	0.02	0.71	21.7	1	0.6	95.9	0.09	<0.05	0.36	0.418	0.04	0.3
W599114		5.5	4.9	<0.002	0.03	1.13	1.1	<1	<0.2	240	<0.05	<0.05	0.03	0.011	0.05	<0.1
W599115		33.9	5.6	<0.002	0.08	4.06	2.5	<1	<0.2	3.1	<0.05	<0.05	0.03	0.038	0.05	<0.1
W599116		2680	2.0	<0.002	0.19	52.0	3.1	3	<0.2	73.3	<0.05	0.08	0.04	0.026	0.02	0.3
W599117		191.5	9.4	0.006	0.02	2.66	3.4	1	0.2	29.1	<0.05	0.07	0.30	0.062	0.15	0.2
W599118		23.3	7.4	<0.002	0.02	9.35	3.4	<1	<0.2	107.5	<0.05	<0.05	0.03	0.017	0.09	0.1
W599119		64.7	4.4	<0.002	0.02	3.94	1.1	<1	<0.2	11.3	<0.05	<0.05	0.02	0.010	0.06	<0.1
W599120		695	4.5	<0.002	0.25	2.25	2.4	1	0.2	28.4	<0.05	0.27	0.05	0.045	0.05	0.1
W599121		461	10.7	<0.002	0.20	2.98	5.3	1	0.3	29.2	<0.05	0.24	0.07	0.151	0.12	0.1
W599122		50.2	1.5	<0.002	0.01	2.32	3.1	<1	0.2	15.6	<0.05	0.12	0.03	0.070	0.02	0.1
W599123		1420	0.6	<0.002	0.28	6.53	1.1	1	0.2	6.6	<0.05	0.28	0.04	0.083	0.02	<0.1
W599124		115.5	7.6	<0.002	0.05	1.74	2.9	1	<0.2	4.1	<0.05	0.06	0.03	0.047	0.09	0.3



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CERTIFICATE OF ANALYSIS WH18157292

Sample Description	Method Analyte Units LOD	ME- MS61 V ppm	ME- MS61 W ppm	ME- MS61 Y ppm	ME- MS61 Zn ppm	ME- MS61 Zr ppm	Ag- OG62 Ag ppm	WEI- 21 Recvd Wt. kg
		1	0.1	0.1	2	0.5	1	0.02
W599113		201	0.6	10.0	72	31.0		1.10
W599114		8	192.5	4.2	22	<0.5		1.45
W599115		24	10.3	0.9	1120	2.4		1.35
W599116		24	21.7	4.1	1300	1.1	750	1.46
W599117		41	1390	2.6	260	6.4		1.25
W599118		26	12.2	2.0	191	1.0		1.23
W599119		12	167.0	0.4	102	0.5		1.00
W599120		27	4.6	1.4	1090	3.3		1.42
W599121		52	12.4	2.1	127	10.6		1.39
W599122		47	6.9	1.8	161	2.6		1.49
W599123		18	16.1	0.9	1170	3.5		1.42
W599124		35	5.9	1.4	59	1.7		1.36



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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.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG- 01</td> <td style="width: 33%;">CRU- 32</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 15%;">LOG- 21</td> </tr> <tr> <td>PUL- 35a</td> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> </tr> </table>	BAG- 01	CRU- 32	CRU- QC	LOG- 21	PUL- 35a	PUL- QC	SPL- 21	WEI- 21
BAG- 01	CRU- 32	CRU- QC	LOG- 21						
PUL- 35a	PUL- QC	SPL- 21	WEI- 21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag- OG62</td> <td style="width: 33%;">Au- GRA21</td> <td style="width: 33%;">Au- ICP21</td> <td style="width: 15%;">ME- MS61</td> </tr> <tr> <td>ME- OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Ag- OG62	Au- GRA21	Au- ICP21	ME- MS61	ME- OG62			
Ag- OG62	Au- GRA21	Au- ICP21	ME- MS61						
ME- OG62									



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CERTIFICATE WH18166121

Project: HARTLESS JOE

This report is for 25 Rock samples submitted to our lab in Whitehorse, YT, Canada on 11-JUL-2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
---------------------------------	--------------	-------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 21	Sample logging - ClientBarCode
BAG- 01	Bulk Master for Storage
SPL- 21	Split sample - riffle splitter
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 32	Fine Crushing 90% <2mm
PUL- 35a	Pulv 1 kg split to 95%<106 um

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

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 LOD	Au- ICP21	Au- GRA21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Au ppm	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
W599125		0.294		2.91	1.19	47.2	140	0.13	0.07	0.71	1.39	2.51	4.1	43	0.84	28.7
W599126		>10.0	62.3	>100	0.52	1050	30	0.10	0.25	0.01	9.99	0.27	1.1	49	0.30	867
W599127		1.345		20.4	1.03	183.5	50	0.14	0.01	1.78	0.73	0.72	4.0	42	0.69	19.9
W599128		7.88		11.65	1.48	358	80	0.12	0.02	1.83	3.23	1.56	7.1	93	0.79	62.8
W599129		0.618		1.80	8.20	168.0	440	0.75	0.13	2.14	2.48	7.40	31.7	23	5.11	111.0
W599130		1.515		1.77	5.06	513	320	0.66	0.07	0.92	1.72	5.42	17.3	30	2.88	53.0
W599131		1.625		1.63	6.04	127.5	840	0.70	0.40	1.00	2.42	24.9	7.6	19	3.54	30.8
W599132		0.223		0.59	8.55	143.0	830	0.90	0.19	1.88	0.17	21.2	19.7	16	4.69	86.3
W599133		0.001		0.68	7.42	10.6	1040	1.02	0.94	0.87	0.37	38.3	2.3	11	2.33	84.6
W599134		0.001		0.07	7.62	4.3	1550	1.28	0.02	0.82	0.06	41.8	2.0	8	2.49	1.7
W599135		<0.001		0.20	7.49	5.8	1150	1.32	0.07	0.58	0.21	43.1	5.0	9	2.90	6.2
W599136		0.007		0.12	7.47	6.4	1270	1.12	0.04	0.35	0.15	40.0	2.2	10	4.02	3.5
W599137		<0.001		0.13	4.02	7.3	590	0.52	0.06	0.16	0.05	20.4	1.1	19	2.05	2.2
W599138		0.001		0.06	7.90	7.3	1250	1.41	0.02	0.36	0.08	42.2	2.4	9	2.69	2.1
W599139		0.001		0.08	7.93	26.6	1120	1.47	0.03	0.32	0.12	41.6	2.3	9	4.38	2.3
W599140		8.39		14.45	0.95	407	40	0.12	0.03	1.66	2.19	2.46	7.8	60	0.65	51.5
W599141		2.98		>100	0.82	252	50	0.12	0.01	1.07	21.2	1.11	3.3	53	0.57	181.0
W599142		0.100		0.99	0.33	22.6	40	<0.05	<0.01	0.61	0.42	0.51	1.0	30	0.23	3.7
W599143		0.289		0.64	3.48	242	150	0.37	0.03	0.12	0.23	4.14	14.9	24	2.00	36.1
W599144		0.365		8.69	0.69	72.6	70	0.09	0.01	1.82	1.29	1.27	2.5	39	0.53	150.0
W599145		0.560		0.76	1.68	327	220	0.16	0.07	0.99	0.46	2.34	8.1	38	0.72	41.2
W599146		0.034		>100	0.90	2.1	40	<0.05	1550	0.58	10.80	0.51	13.1	48	0.27	22.4
W599147		0.522		7.47	1.17	140.0	70	0.13	7.46	0.29	1.07	3.40	4.4	40	0.68	26.0
W599148		0.255		4.43	0.72	9.9	60	0.14	1.57	1.05	3.22	0.39	1.1	50	0.48	55.1
W599149		0.070		0.22	1.04	10.9	40	0.08	0.68	0.07	0.13	0.78	4.3	62	0.25	15.1



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CERTIFICATE OF ANALYSIS WH18166121

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
W599125	1.59	2.39	0.06	0.1	0.012	0.62	1.3	3.4	0.15	164	1.45	0.02	0.2	4.5	110
W599126	2.19	0.91	0.16	<0.1	0.131	0.39	<0.5	3.8	0.02	81	1.23	0.02	<0.1	6.1	10
W599127	1.70	2.16	<0.05	0.1	0.011	0.52	<0.5	3.8	0.55	345	2.33	0.02	0.1	8.4	50
W599128	2.02	2.25	0.06	0.1	0.030	1.54	0.6	3.4	0.23	228	1.56	0.03	0.5	21.8	130
W599129	7.13	14.85	0.08	0.4	0.062	2.40	2.6	104.5	1.28	1420	0.58	1.33	1.4	9.7	610
W599130	4.33	10.00	0.06	0.2	0.039	1.94	2.2	11.6	1.00	1030	1.20	0.06	0.7	6.3	340
W599131	2.80	12.00	0.08	1.4	0.025	1.68	14.2	9.2	0.56	358	1.75	1.71	2.5	4.0	360
W599132	5.01	17.15	0.10	1.3	0.043	2.26	11.1	13.1	1.01	875	2.15	2.33	3.1	7.6	530
W599133	1.26	15.40	0.12	1.8	0.020	1.65	22.8	3.3	0.18	269	6.99	3.73	4.6	2.7	370
W599134	1.11	17.35	0.12	1.9	0.011	1.86	25.7	3.0	0.17	199	0.22	3.66	5.4	2.2	360
W599135	2.02	17.70	0.11	2.2	0.025	1.77	24.4	5.3	0.48	372	0.27	3.15	7.2	3.9	540
W599136	1.38	16.35	0.12	1.8	0.015	1.89	24.6	7.8	0.23	252	0.24	2.92	5.0	2.9	370
W599137	0.98	7.60	0.09	0.8	0.010	1.04	11.5	8.2	0.11	147	0.55	1.33	2.3	1.8	160
W599138	1.29	17.55	0.13	1.9	0.013	2.05	25.6	3.6	0.23	280	0.24	3.38	5.3	2.9	380
W599139	1.29	18.35	0.13	2.0	0.018	2.06	25.4	4.5	0.24	253	0.18	3.49	5.2	2.6	380
W599140	2.81	2.00	0.09	0.1	0.017	0.58	1.0	6.8	0.38	293	1.07	0.02	0.3	22.2	100
W599141	1.49	1.71	0.07	<0.1	0.048	0.47	<0.5	5.0	0.23	206	1.10	0.02	0.3	10.0	30
W599142	0.94	0.79	0.06	<0.1	<0.005	0.14	<0.5	1.4	0.02	149	0.87	0.01	0.1	2.1	100
W599143	6.03	6.34	0.07	0.2	0.026	0.69	1.5	68.7	0.40	793	0.68	0.03	0.4	7.7	290
W599144	1.69	1.30	<0.05	0.1	0.022	0.29	0.7	3.9	0.08	312	1.32	0.01	0.1	5.0	130
W599145	2.45	3.30	0.06	0.1	0.013	1.05	1.0	3.9	0.28	329	1.42	0.03	0.3	5.5	140
W599146	2.31	1.59	0.06	0.1	0.010	0.22	<0.5	0.9	0.25	209	144.5	0.37	0.1	10.3	40
W599147	2.10	2.49	0.05	0.3	0.019	0.46	1.9	4.5	0.22	257	2.44	0.02	0.3	9.9	1260
W599148	1.15	1.46	<0.05	0.1	0.007	0.34	<0.5	0.9	0.29	249	1.29	0.01	<0.1	3.4	30
W599149	2.22	2.92	<0.05	<0.1	0.009	0.09	<0.5	4.3	0.52	145	0.87	0.27	0.2	7.5	60



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CERTIFICATE OF ANALYSIS WH18166121

Sample Description	Method Analyte Units LOD	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
W599125		957	12.5	<0.002	0.11	2.53	3.2	4	0.2	49.4	<0.05	0.76	0.11	0.061	0.20	0.1
W599126		9560	5.5	<0.002	1.19	785	0.9	21	<0.2	9.4	<0.05	0.21	0.03	0.009	0.08	<0.1
W599127		155.5	13.0	<0.002	0.12	8.73	4.8	1	<0.2	62.7	<0.05	<0.05	0.04	0.029	0.13	<0.1
W599128		288	28.8	<0.002	0.83	4.57	5.4	1	<0.2	68.3	<0.05	<0.05	0.05	0.135	0.30	<0.1
W599129		45.2	48.6	<0.002	0.01	13.15	33.4	1	0.4	88.7	0.09	0.09	0.18	0.551	0.61	0.2
W599130		45.5	47.3	<0.002	0.01	3.40	19.5	<1	0.3	25.3	0.05	0.10	0.17	0.290	0.45	0.3
W599131		150.5	56.9	<0.002	0.03	1.66	7.2	1	0.5	194.0	0.20	0.28	6.53	0.172	0.43	2.1
W599132		11.7	62.4	<0.002	0.02	2.65	23.9	<1	0.6	313	0.24	<0.05	4.81	0.433	0.58	1.9
W599133		29.3	44.7	<0.002	0.03	3.75	2.8	1	0.4	307	0.33	0.06	8.24	0.130	0.40	2.5
W599134		18.1	53.2	<0.002	0.02	0.68	2.7	<1	0.5	348	0.38	<0.05	9.35	0.134	0.38	3.0
W599135		20.5	53.3	<0.002	0.01	0.61	5.9	<1	0.7	203	0.48	<0.05	10.90	0.298	0.42	2.1
W599136		24.3	56.5	<0.002	<0.01	0.73	3.1	1	0.5	234	0.36	<0.05	8.72	0.137	0.45	2.0
W599137		9.0	32.6	<0.002	<0.01	0.58	1.5	<1	0.3	96.9	0.16	<0.05	4.24	0.060	0.26	1.0
W599138		12.5	57.2	<0.002	<0.01	0.49	2.9	1	0.6	208	0.40	<0.05	9.33	0.139	0.48	2.0
W599139		22.5	60.0	<0.002	<0.01	0.64	2.9	<1	0.6	244	0.36	<0.05	8.74	0.131	0.46	1.7
W599140		266	10.5	<0.002	1.30	4.55	3.8	1	<0.2	73.6	<0.05	<0.05	0.07	0.076	0.11	<0.1
W599141		96.4	9.4	<0.002	0.42	55.9	2.8	1	0.5	46.2	<0.05	<0.05	0.04	0.066	0.11	<0.1
W599142		3.1	2.7	<0.002	0.01	2.76	0.6	<1	<0.2	5.5	<0.05	<0.05	0.02	0.009	0.03	0.1
W599143		4.3	16.3	<0.002	0.01	2.43	12.7	1	0.2	11.1	<0.05	0.05	0.10	0.157	0.14	0.1
W599144		471	6.6	<0.002	0.03	4.73	2.5	1	<0.2	82.2	<0.05	0.18	0.06	0.027	0.08	0.2
W599145		17.7	19.7	<0.002	0.11	1.78	6.0	<1	0.2	34.6	<0.05	0.08	0.04	0.089	0.22	0.1
W599146		5060	8.3	0.002	1.09	0.76	3.0	10	<0.2	16.5	<0.05	42.7	0.01	0.040	0.17	0.1
W599147		184.0	11.3	<0.002	0.02	2.02	4.1	1	<0.2	21.7	<0.05	0.31	0.17	0.057	0.15	0.4
W599148		632	8.3	<0.002	0.02	3.26	2.3	1	<0.2	41.4	<0.05	0.12	0.03	0.016	0.12	<0.1
W599149		6.5	1.0	<0.002	0.08	0.24	4.1	1	<0.2	7.6	<0.05	<0.05	0.02	0.071	<0.02	0.1



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 Account: MTT

Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166121

Sample Description	Method Analyte Units LOD	ME- MS61 V ppm	ME- MS61 W ppm	ME- MS61 Y ppm	ME- MS61 Zn ppm	ME- MS61 Zr ppm	Ag- OG62 Ag ppm	Ag- GRA21 Ag ppm	WEI- 21 Recvd Wt. kg
		1	0.1	0.1	2	0.5	1	5	0.02
W599125		37	6.3	1.4	65	4.7			1.03
W599126		13	0.6	0.2	501	0.8	>1500	4380	1.67
W599127		37	660	1.7	92	1.0			1.54
W599128		44	21.0	2.9	360	4.2			1.16
W599129		276	26.0	14.1	195	9.1			2.16
W599130		166	21.1	7.9	133	5.2			2.49
W599131		68	8.0	5.2	167	44.9			3.25
W599132		188	9.9	9.9	70	47.6			2.42
W599133		20	7.4	6.1	58	61.9			2.99
W599134		17	2.3	6.4	34	64.0			2.33
W599135		59	2.8	10.8	45	62.5			3.31
W599136		22	2.2	6.9	34	58.6			2.81
W599137		12	1.0	2.7	16	28.4			4.41
W599138		19	4.6	6.6	30	61.6			2.59
W599139		19	3.5	6.4	38	68.3			2.34
W599140		34	9.2	2.5	180	1.7			1.41
W599141		26	4.8	1.3	2110	3.0	181		1.36
W599142		9	2.5	0.7	51	1.1			1.10
W599143		114	8.1	4.9	64	4.4			1.45
W599144		23	89.4	1.8	164	2.3			1.48
W599145		59	12.8	1.7	36	2.8			1.31
W599146		25	3.4	1.3	8	3.6	212		1.71
W599147		45	4.4	4.7	164	8.3			1.22
W599148		20	83.1	0.9	109	1.1			1.33
W599149		34	1.5	1.6	12	2.7			1.64



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CERTIFICATE OF ANALYSIS WH18166121

	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.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG- 01</td> <td style="width: 33%;">CRU- 32</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 33%;">LOG- 21</td> </tr> <tr> <td>PUL- 35a</td> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> </tr> </table>	BAG- 01	CRU- 32	CRU- QC	LOG- 21	PUL- 35a	PUL- QC	SPL- 21	WEI- 21
BAG- 01	CRU- 32	CRU- QC	LOG- 21						
PUL- 35a	PUL- QC	SPL- 21	WEI- 21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.								
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag- GRA21</td> <td style="width: 33%;">Ag- OG62</td> <td style="width: 33%;">Au- GRA21</td> <td style="width: 33%;">Au- ICP21</td> </tr> <tr> <td>ME- MS61</td> <td>ME- OG62</td> <td></td> <td></td> </tr> </table>	Ag- GRA21	Ag- OG62	Au- GRA21	Au- ICP21	ME- MS61	ME- OG62		
Ag- GRA21	Ag- OG62	Au- GRA21	Au- ICP21						
ME- MS61	ME- OG62								



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CERTIFICATE WH18166131

Project: HARTLESS JOE

This report is for 258 Soil samples submitted to our lab in Whitehorse, YT, Canada on 11-JUL-2018.

The following have access to data associated with this certificate:

HEATHER BURRELL SCOTT NEWMAN	ANDREW CARNE	JACK MORTON
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

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

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

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

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05243		0.13	0.018	0.42	3.17	15.3	290	0.39	0.24	3.06	0.62	8.66	9.8	57	7.73	49.0
YY05244		0.24	0.009	0.24	7.54	15.7	930	1.36	0.22	1.69	0.30	50.3	23.5	110	4.35	50.3
YY05245		0.19	0.113	0.39	7.46	28.8	620	1.06	0.25	1.14	0.59	32.8	27.7	95	4.87	78.3
YY05246		0.30	0.011	0.26	7.31	26.6	830	1.21	0.47	1.56	0.27	36.9	22.1	160	6.25	52.8
YY05247		0.29	0.009	0.31	7.54	19.1	680	1.16	0.44	1.18	0.24	31.0	28.4	126	7.46	72.8
YY05248		0.17	0.015	0.26	5.52	14.1	590	0.75	0.20	1.49	1.46	24.6	17.9	102	4.63	52.3
YY05249		0.15	0.010	0.45	5.00	14.9	560	0.74	0.14	1.74	1.96	29.4	15.8	95	3.33	60.1
YY05250		0.17	0.019	0.48	6.34	29.4	710	0.95	0.20	1.72	1.18	34.3	22.2	130	5.34	91.7
YY05251		0.28	0.012	0.17	7.19	18.4	610	0.76	0.30	1.25	0.42	25.2	28.9	114	6.93	68.3
YY05252		0.23	0.011	0.33	7.20	24.8	650	1.02	0.48	1.37	0.24	25.7	26.3	129	8.08	71.6
YY05253		0.28	0.008	0.36	7.20	17.2	690	1.11	0.53	1.27	0.20	25.8	24.1	121	7.34	74.0
YY05254		0.26	0.010	0.37	7.26	20.4	650	1.11	0.40	1.38	0.22	26.7	22.6	112	8.07	72.5
YY05255		0.22	0.004	0.40	6.53	15.6	640	0.98	0.31	1.59	0.36	27.1	20.0	105	5.59	61.6
YY05256		0.33	0.009	0.22	7.61	18.9	760	1.12	0.27	1.26	0.30	35.8	20.9	117	5.35	67.4
YY05257		0.30	0.010	0.42	7.25	23.6	790	0.98	0.18	1.80	1.15	39.1	20.7	142	4.50	74.1
YY05258		0.39	0.020	0.16	7.53	21.1	800	1.11	0.15	1.78	0.50	44.8	20.3	151	3.76	65.2
YY05259		0.50	0.019	0.27	7.55	21.0	840	1.06	0.11	1.91	0.40	44.0	23.3	159	4.64	66.8
YY05260		0.34	0.005	0.20	7.47	16.2	820	1.15	0.22	1.48	0.28	39.5	21.9	136	4.01	55.1
YY05261		0.36	0.004	0.13	7.20	12.7	880	1.23	0.20	1.59	0.25	44.7	17.5	105	3.41	46.4
YY05262		0.25	0.007	0.25	7.59	17.4	920	1.36	0.18	1.69	0.26	46.5	18.3	110	5.58	61.5
YY05263		0.30	0.018	0.07	7.73	27.7	740	1.26	0.24	1.25	0.37	45.8	20.1	111	7.97	55.3
YY05264		0.37	0.004	0.12	6.58	7.4	910	1.29	0.19	1.60	0.18	45.5	16.4	84	3.43	41.7
YY05265		0.31	0.007	0.24	6.76	19.9	850	1.17	0.24	1.77	0.37	45.2	20.7	85	5.43	62.3
YY05266		0.25	0.005	0.12	7.30	12.5	720	1.02	0.26	1.14	0.18	29.1	13.2	63	6.68	53.5
YY05267		0.26	0.018	0.18	7.31	22.9	950	1.36	0.18	1.49	0.16	47.3	16.3	77	4.72	35.8
YY05268		0.34	0.005	0.24	10.70	27.7	750	0.90	0.11	0.62	0.39	35.0	26.4	48	4.95	104.5
YY05269		0.49	0.004	0.37	7.65	9.0	880	1.13	0.24	1.74	0.25	48.4	19.0	77	6.76	69.3
YY05270		0.22	0.002	0.15	7.13	9.8	880	0.99	0.18	1.63	0.19	36.8	19.2	100	3.93	50.3
YY05271		0.32	0.003	0.12	6.82	9.7	860	1.09	0.19	1.63	0.21	36.5	18.8	105	3.18	41.6
YY05272		0.26	0.003	0.11	7.03	10.8	910	1.09	0.19	1.78	0.21	43.7	18.8	99	2.84	75.4
YY05273		0.28	0.025	0.10	7.01	10.2	1070	1.22	0.15	1.98	0.16	47.9	13.7	113	2.33	29.8
YY05274		0.23	0.010	0.42	5.99	38.9	920	1.39	0.17	2.40	0.34	50.0	20.6	84	3.49	91.4
YY05275		0.25	0.023	0.33	6.90	94.7	950	1.13	0.16	2.10	0.20	45.8	15.9	104	2.92	68.5
YY05276		0.30	0.007	0.15	6.89	14.3	1010	1.30	0.19	2.02	0.21	44.7	13.8	92	3.03	84.1
YY05277		0.34	0.004	0.21	7.25	18.3	950	1.32	0.15	2.45	0.32	48.5	14.4	91	3.28	143.5
YY05278		0.29	0.004	0.15	6.88	10.8	880	1.31	0.17	2.06	0.12	39.6	12.9	68	2.75	71.2
YY05279		0.21	0.003	0.10	6.52	10.3	1000	1.20	0.23	1.80	0.26	40.4	13.5	108	2.66	32.2
YY05280		0.28	0.006	0.20	6.83	11.1	980	1.19	0.18	1.75	0.14	45.8	15.2	89	2.93	58.7
YY05281		0.27	0.005	0.12	6.65	6.9	830	1.20	0.17	1.93	0.16	55.9	13.4	82	2.32	50.8
YY05282		0.34	0.005	0.11	7.53	11.4	1000	1.23	0.21	1.53	0.21	45.5	17.1	103	3.76	47.3



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05243		2.84	6.85	0.07	0.5	0.035	0.71	5.8	10.4	0.62	541	0.81	0.43	1.3	24.9	1300
YY05244		5.02	16.65	0.05	1.8	0.066	1.45	21.1	19.7	1.74	1160	1.04	1.99	8.1	55.2	840
YY05245		5.42	17.20	0.05	1.4	0.067	1.27	16.9	18.9	1.53	1290	0.95	2.43	5.4	44.9	1040
YY05246		4.76	17.40	<0.05	1.9	0.059	1.32	19.0	20.5	2.07	875	1.11	2.03	7.3	90.9	950
YY05247		6.42	18.95	<0.05	1.6	0.082	1.09	17.3	25.5	2.43	1110	1.05	1.66	5.3	62.0	1320
YY05248		3.93	12.75	<0.05	1.2	0.052	0.87	14.0	20.1	1.43	933	2.73	1.28	4.8	43.0	1650
YY05249		3.38	11.00	<0.05	1.2	0.042	0.85	17.8	15.4	1.19	866	3.15	1.30	4.7	40.2	1410
YY05250		4.83	14.10	0.06	1.5	0.058	1.07	23.7	21.2	1.83	922	3.51	1.41	5.0	60.9	1270
YY05251		6.16	18.60	<0.05	1.3	0.070	1.08	13.1	20.9	2.20	1180	1.26	1.79	5.0	53.1	1290
YY05252		6.07	17.70	<0.05	1.2	0.077	1.06	15.2	23.1	2.27	1050	1.02	1.47	4.5	67.0	1420
YY05253		5.61	18.40	<0.05	1.8	0.064	1.09	15.9	24.5	2.30	822	1.02	1.47	4.9	63.9	1160
YY05254		5.53	16.85	<0.05	1.3	0.059	1.09	16.4	28.3	1.86	819	1.40	1.58	4.9	50.8	1290
YY05255		4.72	15.50	<0.05	1.4	0.055	0.99	16.3	23.1	1.71	875	1.81	1.50	5.4	45.4	1760
YY05256		5.05	16.80	<0.05	1.8	0.070	1.27	18.6	23.2	1.79	903	1.49	1.94	7.0	50.3	1140
YY05257		5.02	15.65	<0.05	1.7	0.061	1.22	23.8	22.6	1.94	865	3.99	1.91	6.7	59.5	1070
YY05258		4.82	16.20	0.05	1.6	0.060	1.31	25.0	20.5	1.92	869	1.97	2.36	7.7	53.7	750
YY05259		4.90	16.05	<0.05	1.6	0.053	1.37	24.1	20.6	1.97	982	1.44	2.38	7.0	55.8	810
YY05260		4.87	16.35	<0.05	1.5	0.055	1.29	19.9	19.9	1.98	1060	1.00	2.17	6.8	52.8	950
YY05261		4.20	16.25	<0.05	1.7	0.054	1.35	21.5	20.0	1.55	839	0.93	2.02	7.9	41.2	1070
YY05262		4.47	16.50	0.06	1.6	0.055	1.50	26.5	21.7	1.52	895	0.85	2.13	7.5	45.5	730
YY05263		4.27	17.25	<0.05	1.6	0.064	1.44	23.1	22.5	1.38	925	1.05	1.94	6.3	41.9	620
YY05264		3.53	15.10	<0.05	1.9	0.051	1.39	19.7	17.7	1.13	855	0.79	1.95	9.0	28.4	1110
YY05265		4.12	15.75	0.06	1.6	0.061	1.25	21.4	18.8	1.37	1210	1.01	1.90	7.4	34.8	1470
YY05266		4.10	15.70	<0.05	1.4	0.055	1.19	13.6	78.3	0.96	720	0.77	1.85	6.2	21.1	1320
YY05267		3.96	16.80	0.05	2.0	0.050	1.57	22.6	23.3	1.23	847	0.86	2.08	8.7	28.9	890
YY05268		6.66	22.6	0.10	1.8	0.074	1.87	19.2	51.5	0.87	1280	0.94	2.00	5.5	27.6	1170
YY05269		4.03	16.40	0.10	1.7	0.054	1.50	25.5	18.2	1.36	954	0.76	2.22	7.4	31.5	790
YY05270		4.40	15.30	0.09	1.5	0.051	1.33	17.4	18.2	1.64	906	0.80	1.93	6.9	46.9	950
YY05271		4.40	15.15	0.08	1.6	0.050	1.21	16.7	18.6	1.47	1030	0.92	1.88	7.5	43.0	1770
YY05272		4.16	15.10	0.10	1.7	0.048	1.31	19.4	17.8	1.45	835	0.92	2.08	7.8	43.3	960
YY05273		3.42	14.45	0.11	1.8	0.046	1.51	23.8	15.3	1.27	654	1.10	2.25	8.1	43.5	960
YY05274		3.25	13.40	0.11	1.9	0.044	1.37	25.7	16.2	0.88	1260	0.82	1.71	8.8	24.8	1540
YY05275		4.03	15.85	0.10	1.6	0.046	1.34	23.0	18.6	1.39	706	1.03	2.03	7.6	45.8	1050
YY05276		3.76	15.30	0.11	1.9	0.049	1.44	22.2	18.4	1.19	737	0.94	1.95	9.3	33.2	1200
YY05277		3.96	15.85	0.11	1.8	0.048	1.36	24.8	19.1	1.31	729	1.02	2.01	8.0	38.4	1270
YY05278		3.41	15.85	0.09	1.8	0.047	1.40	20.9	19.3	1.11	631	1.14	1.97	7.3	27.9	1540
YY05279		3.65	14.20	0.10	1.6	0.043	1.36	19.7	17.2	1.22	655	1.34	2.04	7.8	40.3	750
YY05280		3.73	15.05	0.10	1.8	0.048	1.50	23.1	20.1	1.15	977	0.91	2.03	8.7	32.6	950
YY05281		3.85	14.35	0.11	2.0	0.050	1.30	27.5	17.5	1.07	815	0.96	1.92	9.5	25.3	1330
YY05282		4.26	15.95	0.11	1.8	0.053	1.57	22.6	21.0	1.48	996	0.84	1.99	8.3	40.2	1060



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY05243		10.6	26.7	<0.002	0.22	1.07	14.7	1	0.3	85.8	0.09	0.08	1.24	0.128	0.24	0.6
YY05244		15.8	49.3	<0.002	0.04	1.32	22.6	<1	1.2	273	0.57	0.06	5.55	0.463	0.40	1.9
YY05245		18.2	39.5	<0.002	0.02	1.59	25.4	1	1.1	195.0	0.36	0.12	3.42	0.589	0.32	1.2
YY05246		18.7	51.6	<0.002	0.04	3.33	23.0	1	1.2	244	0.53	0.10	5.30	0.438	0.42	1.9
YY05247		16.6	43.9	<0.002	0.08	1.16	32.5	1	1.0	168.0	0.36	0.09	4.59	0.448	0.39	1.5
YY05248		10.7	34.0	<0.002	0.15	1.09	20.9	1	0.8	195.0	0.32	0.05	3.92	0.322	0.40	1.5
YY05249		9.2	30.7	<0.002	0.14	1.19	18.5	1	0.8	221	0.33	0.05	3.80	0.297	0.36	1.5
YY05250		11.6	39.3	<0.002	0.09	1.73	26.1	2	0.8	234	0.36	0.06	4.58	0.349	0.50	1.9
YY05251		14.5	41.6	<0.002	0.07	1.25	26.1	1	1.0	160.0	0.33	0.11	3.36	0.548	0.35	1.3
YY05252		18.1	41.5	<0.002	0.09	1.50	29.3	1	0.9	150.5	0.29	0.09	4.22	0.378	0.39	1.4
YY05253		15.3	46.5	<0.002	0.06	1.21	27.6	1	0.9	175.5	0.34	0.08	4.41	0.361	0.42	1.6
YY05254		15.0	44.1	<0.002	0.07	1.22	28.4	1	0.9	182.5	0.34	0.09	4.37	0.411	0.39	1.5
YY05255		12.3	38.0	<0.002	0.11	0.98	23.7	1	0.9	222	0.38	0.05	4.35	0.378	0.41	1.6
YY05256		12.9	46.2	<0.002	0.05	1.17	23.8	<1	1.1	232	0.49	<0.05	5.11	0.475	0.40	1.8
YY05257		11.7	42.3	<0.002	0.06	1.57	26.9	2	1.0	285	0.48	0.07	5.51	0.427	0.48	2.1
YY05258		10.8	40.9	<0.002	0.02	1.57	26.5	1	1.1	337	0.54	0.05	6.17	0.464	0.34	2.1
YY05259		10.0	38.1	<0.002	0.02	1.69	27.4	1	1.1	355	0.51	0.05	5.53	0.426	0.32	1.9
YY05260		12.2	42.6	<0.002	0.04	1.35	24.8	1	1.1	276	0.48	<0.05	5.25	0.464	0.36	1.7
YY05261		12.3	49.8	<0.002	0.05	1.36	20.3	1	1.2	277	0.59	<0.05	5.96	0.418	0.40	1.8
YY05262		12.2	52.5	<0.002	0.04	1.70	25.1	<1	1.2	301	0.55	<0.05	6.77	0.427	0.41	2.1
YY05263		15.2	46.6	<0.002	0.03	1.73	21.8	1	1.1	250	0.46	0.07	6.35	0.375	0.38	2.1
YY05264		14.3	49.0	<0.002	0.06	1.11	14.2	1	1.3	279	0.65	0.05	6.10	0.378	0.40	1.8
YY05265		15.3	47.0	<0.002	0.09	1.10	19.4	1	1.1	276	0.53	0.05	6.07	0.405	0.38	2.2
YY05266		10.4	43.7	<0.002	0.07	0.93	20.0	1	1.0	238	0.45	<0.05	4.01	0.434	0.34	1.5
YY05267		15.4	57.4	<0.002	0.04	1.18	16.5	1	1.3	296	0.61	<0.05	6.23	0.427	0.43	2.0
YY05268		15.8	57.9	<0.002	0.02	0.71	33.3	1	0.9	165.5	0.37	<0.05	5.44	0.687	0.43	2.5
YY05269		19.5	52.0	<0.002	0.02	0.96	19.8	1	1.0	308	0.53	0.05	6.77	0.448	0.39	2.2
YY05270		13.4	49.6	<0.002	0.07	0.96	19.4	1	1.0	272	0.47	0.07	5.08	0.409	0.38	1.6
YY05271		14.8	45.6	<0.002	0.09	1.13	16.1	1	1.0	268	0.54	0.07	4.64	0.419	0.34	1.6
YY05272		13.5	47.8	<0.002	0.05	1.14	17.0	<1	1.1	300	0.55	<0.05	5.69	0.415	0.38	1.8
YY05273		13.3	53.4	<0.002	0.04	1.20	14.8	1	1.1	354	0.58	<0.05	6.17	0.381	0.41	2.0
YY05274		13.1	54.1	<0.002	0.09	1.03	14.4	1	1.1	281	0.62	<0.05	7.75	0.336	0.41	2.4
YY05275		12.4	49.8	<0.002	0.06	1.29	15.9	<1	1.0	353	0.49	<0.05	5.89	0.407	0.37	1.8
YY05276		12.9	54.2	<0.002	0.06	1.01	14.8	<1	1.2	320	0.71	<0.05	6.50	0.389	0.42	2.4
YY05277		11.1	50.3	<0.002	0.08	0.90	16.0	1	1.1	389	0.54	0.05	5.66	0.420	0.35	2.3
YY05278		10.6	47.1	<0.002	0.09	0.79	12.7	1	1.0	378	0.49	<0.05	5.40	0.367	0.34	2.0
YY05279		12.8	50.7	<0.002	0.04	1.23	14.0	1	1.1	316	0.56	0.07	4.95	0.397	0.39	1.8
YY05280		13.9	56.3	<0.002	0.06	1.14	14.3	1	1.2	304	0.65	0.06	6.11	0.383	0.43	2.2
YY05281		12.0	46.5	<0.002	0.08	0.89	14.5	1	1.3	300	0.68	0.06	7.83	0.442	0.35	2.4
YY05282		15.5	61.0	<0.002	0.05	1.08	17.3	1	1.2	285	0.63	0.08	6.93	0.418	0.47	2.1



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY05243		88	3.1	13.2	60	17.3
YY05244		157	2.8	21.3	78	55.8
YY05245		177	7.7	25.3	82	52.8
YY05246		160	3.1	21.0	85	56.6
YY05247		215	3.1	31.2	103	48.6
YY05248		152	1.6	16.4	108	39.7
YY05249		133	1.3	21.2	107	35.1
YY05250		192	1.7	37.2	131	43.0
YY05251		210	4.3	17.6	102	53.5
YY05252		198	3.3	24.4	98	49.5
YY05253		188	3.1	26.2	97	58.9
YY05254		198	3.0	24.1	95	47.6
YY05255		171	2.3	21.2	90	40.4
YY05256		178	2.7	19.1	91	52.4
YY05257		212	1.7	27.7	151	49.6
YY05258		185	1.6	24.3	93	49.6
YY05259		181	1.4	23.7	88	44.5
YY05260		170	1.6	21.5	82	45.0
YY05261		143	1.7	19.6	71	51.4
YY05262		149	1.6	27.5	77	53.2
YY05263		157	1.8	18.2	94	51.2
YY05264		114	1.5	14.9	68	49.8
YY05265		139	1.8	20.9	78	52.5
YY05266		158	1.7	12.9	63	44.0
YY05267		133	1.9	16.6	70	63.2
YY05268		253	3.3	23.0	124	53.3
YY05269		144	1.9	24.0	77	54.1
YY05270		149	1.5	16.3	73	52.6
YY05271		142	1.4	14.6	73	49.6
YY05272		140	1.5	20.6	71	53.4
YY05273		118	1.3	16.7	56	54.7
YY05274		103	2.0	20.2	61	60.5
YY05275		135	1.5	15.6	74	53.0
YY05276		124	1.3	18.0	81	59.6
YY05277		132	1.4	22.0	97	58.9
YY05278		111	1.9	15.1	80	62.1
YY05279		125	1.4	14.4	61	49.9
YY05280		124	1.3	16.9	62	62.1
YY05281		127	1.3	17.1	69	72.5
YY05282		141	1.8	18.5	85	54.8



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05283		0.25	0.008	0.16	7.47	19.5	850	1.30	0.18	1.68	0.19	44.7	22.2	106	5.99	52.2
YY05284		0.34	0.004	0.07	7.28	8.5	960	1.21	0.17	1.77	0.16	45.2	16.2	99	2.49	34.7
YY05285		0.22	0.014	0.18	6.83	4.8	680	0.92	0.13	1.82	0.17	30.4	12.7	44	3.89	37.5
YY05286		0.26	0.002	0.06	7.06	8.1	960	1.31	0.51	1.60	0.13	44.1	14.3	92	2.74	28.3
YY05287		0.24	0.009	0.22	5.95	9.7	710	1.00	0.15	2.60	0.68	38.6	19.2	90	3.27	44.0
YY05288		0.24	0.015	0.47	7.15	39.9	810	0.97	0.13	2.12	0.76	39.6	27.5	157	6.32	88.8
YY05289		0.29	0.019	0.69	8.38	85.8	810	0.88	0.12	1.16	1.78	26.6	33.9	228	12.30	108.5
YY05290		0.32	0.117	0.49	7.82	91.3	860	1.22	0.13	1.79	0.37	41.0	29.6	154	10.10	83.0
YY05291		0.29	0.003	0.15	6.88	11.1	790	1.23	0.24	1.62	0.18	45.7	20.1	107	3.48	40.7
YY05292		0.29	0.011	0.09	7.26	10.5	810	1.13	0.32	1.41	0.15	44.4	20.9	106	3.42	41.9
YY05293		0.33	0.002	0.27	7.19	12.5	720	1.14	0.30	1.64	0.24	44.3	25.2	103	4.56	70.4
YY05294		0.26	0.006	0.32	7.86	33.2	680	1.23	0.29	1.24	0.22	34.6	31.7	129	9.60	73.4
YY05295		0.27	0.007	0.13	7.02	13.1	840	1.19	0.22	1.62	0.20	39.1	17.7	110	3.42	41.4
YY05296		0.34	0.007	0.23	7.48	28.3	800	1.23	0.71	1.34	0.29	38.2	25.6	146	7.04	58.9
YY05297		0.41	0.006	0.29	7.64	14.4	570	0.90	0.08	3.82	0.30	22.7	48.7	159	25.9	89.4
YY05298		0.15	0.007	0.22	8.11	19.6	620	1.02	0.55	1.05	0.37	30.7	34.1	134	11.05	93.9
YY05299		0.26	0.006	0.32	7.81	17.9	800	1.14	0.32	1.31	0.39	37.7	28.2	122	7.51	74.0
YY05300		0.26	0.009	0.28	7.36	18.0	680	0.99	0.26	1.35	0.35	33.1	28.0	109	5.65	67.8
YY05301		0.24	0.001	0.07	7.03	11.3	850	1.04	0.21	1.50	0.32	38.2	24.0	125	3.66	55.0
YY05302		0.28	0.001	0.12	7.66	35.8	680	1.03	0.17	1.73	0.23	37.3	14.9	43	4.37	80.8
YY05303		0.26	0.001	0.10	6.61	10.8	790	0.96	0.27	1.17	0.17	32.9	13.8	80	4.13	40.6
YY05304		0.23	0.010	0.20	7.06	10.2	720	0.98	0.32	1.79	0.27	33.8	18.8	73	3.21	55.2
YY05305		0.15	NSS	0.10	6.24	9.9	670	0.95	0.56	1.07	0.26	29.8	15.1	93	4.83	25.5
YY05306		0.26	0.001	0.09	6.17	8.7	790	0.92	0.27	1.47	0.28	31.5	17.5	80	5.59	23.1
YY05307		0.26	0.004	0.07	6.58	8.8	780	1.10	0.46	1.46	0.16	33.0	16.8	96	4.15	32.2
YY05308		0.40	0.002	0.05	7.01	8.8	850	1.13	0.25	1.47	0.14	39.4	17.0	111	4.29	32.2
YY05309		0.31	0.001	0.06	6.47	9.2	800	1.00	0.39	1.22	0.26	30.6	16.4	104	3.76	30.9
YY05310		0.34	0.003	0.10	7.45	11.2	800	1.08	0.36	1.77	0.31	47.7	21.6	106	3.19	52.5
YY05311		0.36	0.006	0.13	7.10	13.3	820	1.15	0.25	1.33	0.35	50.5	14.3	103	3.41	38.6
YY05312		0.40	0.004	0.17	7.57	16.4	810	1.12	0.29	1.56	0.44	48.6	21.0	121	4.13	56.7
YY05313		0.27	<0.001	0.10	7.29	3.7	850	1.22	0.15	2.03	0.11	37.5	5.6	11	1.41	16.1
YY05314		0.27	0.006	0.12	7.37	20.1	880	1.13	0.17	1.49	0.42	46.5	18.7	115	3.56	43.9
YY05315		0.35	0.004	0.09	6.52	11.5	900	1.11	0.18	1.50	0.22	37.4	16.1	92	3.63	31.5
YY05316		0.35	0.011	0.17	7.39	26.9	900	1.08	0.14	1.27	0.31	37.7	20.1	149	6.02	49.7
YY05317		0.32	0.007	0.12	7.28	10.0	800	1.06	0.14	2.03	0.15	35.5	13.9	61	2.27	30.3
YY05318		0.29	0.015	0.25	7.24	19.4	950	1.25	0.24	1.47	0.34	45.0	15.9	96	4.60	47.2
YY05319		0.35	0.261	3.57	7.64	181.5	800	1.13	0.24	1.19	1.83	33.4	23.0	139	9.60	90.7
YY05320		0.35	0.016	0.09	7.12	10.8	1040	1.18	0.19	1.66	0.20	43.3	17.6	102	2.54	39.4
YY05321		0.34	0.009	0.17	7.15	16.5	930	1.16	0.14	1.73	0.68	43.0	21.9	131	4.16	53.2
YY05322		0.24	0.008	0.24	6.75	32.1	860	1.14	0.16	1.71	0.29	47.9	21.5	130	3.86	50.3



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05283		4.79	16.50	0.11	1.8	0.067	1.38	21.1	26.9	1.54	901	0.94	1.89	7.9	47.1	970
YY05284		3.88	15.20	0.08	1.8	0.049	1.52	22.0	17.7	1.43	693	0.71	2.21	7.7	39.8	710
YY05285		3.45	15.15	0.09	1.7	0.038	1.34	15.4	24.6	0.95	778	1.10	1.95	6.1	16.6	1480
YY05286		3.77	15.70	0.09	1.7	0.049	1.49	21.6	19.7	1.30	621	0.82	2.16	8.9	34.5	890
YY05287		3.81	12.40	0.10	1.4	0.052	1.05	19.3	19.1	1.18	1280	1.36	1.65	6.6	33.3	1670
YY05288		5.23	14.55	0.11	1.3	0.060	1.40	22.0	24.6	2.36	1250	1.10	1.91	5.7	57.8	950
YY05289		7.03	17.20	0.11	1.3	0.068	2.30	15.4	16.5	1.05	1540	4.08	1.53	4.1	84.1	840
YY05290		5.67	16.40	0.10	1.4	0.065	1.50	21.3	22.1	1.98	1450	1.48	2.12	6.7	68.0	630
YY05291		4.32	14.85	0.08	1.4	0.055	1.22	19.5	17.2	1.82	839	0.80	2.06	7.4	46.3	1050
YY05292		4.65	16.15	0.10	1.4	0.058	1.27	20.5	18.3	1.93	830	0.77	2.07	7.6	48.7	770
YY05293		5.07	15.35	0.10	1.4	0.061	1.16	21.6	20.3	1.99	986	0.90	2.13	6.6	47.1	840
YY05294		7.27	17.65	0.11	1.5	0.088	1.33	18.2	23.3	2.00	1300	0.88	1.79	6.4	70.2	1150
YY05295		4.13	14.40	0.11	1.4	0.052	1.34	20.5	16.5	1.72	762	0.85	2.22	7.0	57.3	950
YY05296		5.22	17.00	0.11	1.4	0.063	1.36	19.9	22.3	2.18	961	0.97	1.98	6.6	106.5	920
YY05297		8.81	21.3	0.12	1.2	0.082	1.91	9.6	15.3	0.75	1800	1.07	1.10	3.4	66.4	620
YY05298		7.61	18.90	0.12	1.7	0.076	1.35	17.3	25.1	1.77	1330	1.30	1.86	5.0	64.1	970
YY05299		6.06	18.05	0.12	1.6	0.076	1.37	19.9	24.1	2.07	1340	1.19	1.76	6.8	58.9	1280
YY05300		5.71	16.10	<0.05	1.6	0.066	1.14	16.7	19.2	2.15	1170	0.88	1.94	5.8	53.8	900
YY05301		5.25	16.05	<0.05	1.6	0.064	1.23	16.7	21.3	2.00	1010	1.17	1.60	8.7	66.7	590
YY05302		4.23	16.90	0.06	1.7	0.050	1.37	18.2	17.5	1.05	805	1.07	2.41	6.1	19.8	1060
YY05303		3.96	14.35	<0.05	1.5	0.047	1.26	16.0	14.0	1.10	841	0.87	1.94	7.5	26.0	1330
YY05304		4.14	15.95	<0.05	1.6	0.050	1.26	17.3	14.6	1.46	997	1.03	2.16	6.3	29.5	1000
YY05305		4.44	15.15	<0.05	1.6	0.056	1.16	15.3	16.6	1.39	774	1.05	1.56	7.3	32.1	2160
YY05306		3.88	14.55	<0.05	1.9	0.044	1.32	15.4	14.3	1.13	1720	1.43	1.79	7.9	25.3	1560
YY05307		4.31	14.10	<0.05	1.5	0.052	1.26	16.3	14.7	1.39	972	1.12	1.78	7.5	33.0	1410
YY05308		4.27	14.50	<0.05	1.6	0.053	1.28	18.5	15.9	1.61	831	0.85	1.92	8.8	40.6	1320
YY05309		4.42	14.05	<0.05	1.7	0.052	1.29	14.8	14.4	1.43	936	0.97	1.72	7.2	34.6	2080
YY05310		4.74	15.05	0.07	1.5	0.056	1.29	20.7	14.9	1.93	889	1.07	2.35	7.9	48.7	740
YY05311		4.09	14.50	0.06	1.7	0.055	1.34	25.8	16.3	1.46	740	1.23	1.93	8.7	33.7	1370
YY05312		4.89	15.55	0.05	1.8	0.058	1.29	24.2	18.2	2.04	944	1.44	2.13	7.5	49.6	1020
YY05313		2.08	17.35	0.05	2.6	0.020	2.11	20.0	17.9	0.62	433	1.50	2.69	5.8	5.2	810
YY05314		4.65	14.95	0.06	1.7	0.055	1.49	21.2	19.3	1.56	850	1.51	1.88	8.0	42.7	1090
YY05315		3.96	14.30	0.05	1.7	0.049	1.30	18.2	14.5	1.22	1180	1.37	1.76	8.0	30.0	2100
YY05316		4.88	14.95	<0.05	1.4	0.053	1.42	19.1	18.1	1.85	1040	1.61	1.99	7.1	47.7	1270
YY05317		4.06	15.80	0.06	1.9	0.040	1.46	17.8	15.0	1.26	701	1.25	2.16	7.1	25.2	1140
YY05318		4.25	14.80	0.05	1.7	0.054	1.45	21.7	17.3	1.30	840	1.19	1.90	7.9	43.5	1060
YY05319		5.48	15.00	0.05	1.6	0.067	2.34	21.6	19.0	0.84	1820	4.50	1.19	4.3	58.9	1420
YY05320		3.96	14.50	<0.05	2.1	0.049	1.32	19.7	15.9	1.55	748	0.82	2.04	8.4	71.8	710
YY05321		4.44	14.25	<0.05	1.3	0.053	1.25	22.4	17.7	1.76	1900	1.74	2.08	7.3	56.2	1190
YY05322		4.40	13.60	0.05	1.5	0.052	1.22	21.8	24.9	1.51	1100	1.24	1.73	7.2	59.6	1440



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY05283		14.3	52.6	<0.002	0.05	1.49	22.2	<1	1.1	268	0.56	<0.05	6.18	0.434	0.43	2.0
YY05284		13.9	51.8	<0.002	0.03	0.98	15.7	<1	1.1	312	0.55	0.05	6.17	0.439	0.40	1.9
YY05285		9.2	41.0	<0.002	0.10	0.67	12.0	1	0.9	403	0.42	<0.05	4.37	0.346	0.30	1.6
YY05286		14.4	55.2	<0.002	0.04	1.03	15.2	1	1.2	298	0.65	<0.05	5.92	0.433	0.42	1.9
YY05287		10.2	38.9	<0.002	0.12	1.18	17.5	1	0.9	294	0.46	0.05	4.80	0.368	0.34	2.3
YY05288		12.7	44.4	<0.002	0.07	1.63	30.7	2	0.9	306	0.41	0.07	4.76	0.394	0.35	1.7
YY05289		11.1	65.2	<0.002	0.06	16.60	41.3	2	0.8	196.0	0.29	0.06	2.77	0.423	0.68	1.6
YY05290		14.3	47.2	<0.002	0.04	2.06	31.1	2	0.9	363	0.45	0.06	5.36	0.414	0.40	1.7
YY05291		12.4	44.6	<0.002	0.05	1.03	19.4	1	1.1	258	0.55	<0.05	5.59	0.444	0.35	1.6
YY05292		14.5	46.4	<0.002	0.03	1.01	20.2	1	1.2	246	0.53	0.05	5.77	0.480	0.39	1.6
YY05293		12.6	43.3	<0.002	0.04	0.92	23.9	1	1.0	255	0.46	0.06	4.87	0.535	0.33	1.6
YY05294		10.6	51.3	<0.002	0.05	1.44	35.2	1	1.2	193.0	0.43	0.07	3.82	0.651	0.40	1.3
YY05295		12.5	46.9	<0.002	0.04	1.27	20.8	1	0.9	279	0.46	0.05	4.90	0.436	0.36	1.6
YY05296		21.8	50.7	<0.002	0.04	2.79	24.7	1	1.0	218	0.43	0.13	5.07	0.435	0.43	1.6
YY05297		7.1	71.5	<0.002	0.01	0.92	47.1	1	0.8	206	0.23	<0.05	1.67	0.679	0.59	1.3
YY05298		15.2	48.3	<0.002	0.04	1.22	36.8	1	0.9	158.0	0.32	0.09	4.08	0.548	0.41	1.6
YY05299		16.9	52.4	<0.002	0.05	1.37	28.6	1	1.1	201	0.46	0.09	4.95	0.457	0.45	1.7
YY05300		14.3	39.6	<0.002	0.04	1.08	26.8	1	1.0	201	0.41	0.12	3.79	0.589	0.31	1.3
YY05301		12.1	45.1	<0.002	0.03	1.06	17.8	1	1.2	215	0.59	0.05	4.86	0.506	0.34	1.4
YY05302		15.9	38.9	<0.002	0.04	1.78	13.8	1	0.8	428	0.39	0.05	3.99	0.462	0.26	1.4
YY05303		12.7	45.7	<0.002	0.05	1.09	14.0	1	1.0	228	0.49	0.06	4.57	0.442	0.32	1.5
YY05304		12.6	40.6	<0.002	0.06	0.88	16.5	1	0.9	373	0.40	0.07	4.34	0.448	0.29	1.4
YY05305		14.7	48.6	<0.002	0.09	1.14	16.1	1	1.1	192.0	0.49	0.11	4.52	0.427	0.39	1.6
YY05306		10.6	52.8	<0.002	0.08	0.93	13.2	1	1.0	284	0.52	0.07	4.47	0.422	0.34	1.7
YY05307		12.0	50.4	<0.002	0.06	1.01	15.9	1	1.0	247	0.49	0.08	4.72	0.458	0.33	1.5
YY05308		10.5	47.1	<0.002	0.05	0.86	18.1	1	1.1	254	0.58	<0.05	5.03	0.460	0.34	1.6
YY05309		13.0	53.8	<0.002	0.07	0.93	16.6	1	1.0	221	0.49	0.08	4.31	0.458	0.34	1.4
YY05310		11.9	42.7	<0.002	0.02	1.04	20.5	1	1.1	291	0.54	0.08	5.58	0.564	0.33	1.7
YY05311		10.7	49.0	<0.002	0.05	1.16	18.7	1	1.2	261	0.63	0.09	6.41	0.443	0.38	1.9
YY05312		13.4	47.1	<0.002	0.04	1.24	22.2	1	1.0	278	0.50	0.07	6.15	0.480	0.36	2.0
YY05313		9.2	48.6	<0.002	0.04	0.51	4.7	1	0.7	584	0.43	<0.05	5.54	0.265	0.28	2.0
YY05314		12.4	52.4	<0.002	0.05	1.50	18.8	1	1.1	272	0.55	0.05	6.37	0.422	0.40	1.9
YY05315		12.7	49.2	<0.002	0.10	1.10	17.5	1	1.1	266	0.52	<0.05	5.14	0.417	0.40	1.7
YY05316		12.1	51.1	<0.002	0.05	1.58	22.1	1	1.0	288	0.49	0.05	5.30	0.405	0.39	1.7
YY05317		10.3	42.9	<0.002	0.06	0.90	13.3	1	1.0	473	0.45	<0.05	4.71	0.467	0.31	1.7
YY05318		27.1	52.5	<0.002	0.05	2.35	16.5	1	1.1	274	0.54	0.06	6.41	0.417	0.39	1.8
YY05319		30.4	70.6	<0.002	0.04	5.66	24.4	3	0.8	204	0.32	0.07	3.70	0.334	0.70	2.6
YY05320		12.8	48.8	<0.002	0.03	1.12	16.1	1	1.1	288	0.53	0.05	5.46	0.433	0.39	1.6
YY05321		11.8	46.7	<0.002	0.06	1.69	22.1	1	1.0	297	0.50	0.05	5.36	0.381	0.34	1.8
YY05322		12.4	43.9	<0.002	0.08	1.58	18.5	1	1.0	262	0.47	<0.05	5.31	0.402	0.36	1.7



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
YY05283		159	2.1	18.6	78	62.9
YY05284		133	1.5	15.9	65	55.5
YY05285		109	0.8	9.8	61	60.2
YY05286		129	1.5	16.0	61	62.0
YY05287		151	1.3	22.1	85	46.9
YY05288		189	1.6	28.3	98	39.8
YY05289		281	1.9	28.0	155	44.1
YY05290		184	1.7	23.2	97	47.9
YY05291		142	1.7	18.2	68	46.4
YY05292		156	2.1	17.7	72	47.3
YY05293		174	2.5	21.2	78	43.5
YY05294		244	3.2	38.1	98	42.7
YY05295		142	1.9	19.8	68	46.1
YY05296		162	4.2	21.0	91	48.1
YY05297		319	2.3	27.3	103	39.4
YY05298		243	3.5	27.8	107	56.7
YY05299		204	3.0	24.7	99	54.9
YY05300		202	4.1	22.0	91	51.6
YY05301		168	1.5	14.7	85	53.3
YY05302		112	2.1	15.5	73	62.1
YY05303		129	3.1	12.3	62	55.3
YY05304		137	2.2	14.4	80	54.9
YY05305		150	3.0	11.4	84	50.6
YY05306		128	1.5	11.8	71	61.6
YY05307		141	2.1	15.4	69	51.3
YY05308		142	1.6	16.5	70	52.3
YY05309		149	2.0	14.0	83	54.3
YY05310		170	2.5	20.1	83	46.8
YY05311		146	1.7	16.9	81	54.6
YY05312		180	2.2	21.0	99	58.1
YY05313		54	0.6	8.3	53	95.3
YY05314		163	2.9	15.9	102	62.0
YY05315		142	1.6	15.5	67	59.2
YY05316		181	1.6	17.3	95	45.0
YY05317		132	1.2	13.7	73	61.4
YY05318		138	2.1	15.6	95	55.8
YY05319		259	10.0	32.1	193	60.8
YY05320		130	2.3	15.4	71	55.6
YY05321		170	1.4	19.8	90	43.8
YY05322		147	1.5	21.0	78	48.7



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05323		0.38	0.020	0.31	7.00	41.8	810	1.17	0.17	1.59	0.30	43.2	21.7	99	5.63	54.2
YY05324		0.25	0.025	0.38	6.91	66.1	900	1.13	0.13	2.12	0.36	42.0	24.9	143	4.07	59.2
YY05325		0.29	0.013	0.47	7.62	37.2	840	1.21	0.12	1.99	0.46	44.7	26.3	132	6.09	88.6
YY05326		0.41	0.016	0.33	7.72	21.1	900	1.25	0.16	2.28	0.39	47.9	22.9	107	5.91	96.2
YY05327		0.35	0.009	0.13	6.89	15.1	850	1.22	0.12	2.03	0.22	45.8	15.1	79	3.14	94.6
YY05328		0.25	0.001	0.09	6.04	14.3	460	0.92	0.08	1.43	0.20	32.6	25.0	90	2.14	43.9
YY05329		0.32	0.004	0.17	6.85	14.0	970	1.18	0.17	1.84	0.14	44.2	16.3	102	2.55	39.5
YY05330		0.34	0.005	0.29	7.09	18.9	960	1.15	0.20	1.90	0.40	39.8	19.6	121	3.46	61.8
YY05331		0.42	0.009	0.69	7.27	30.9	890	1.01	0.16	2.21	1.05	34.9	22.1	132	4.35	86.2
YY05332		0.32	0.037	1.83	6.57	94.7	740	0.95	0.13	1.96	1.90	30.1	19.8	123	6.21	81.7
YY05333		0.29	0.013	0.63	6.87	44.8	800	1.03	0.13	2.12	1.81	39.6	27.2	112	4.78	95.2
YY05334		0.28	0.005	0.09	7.33	14.9	940	1.26	0.16	1.61	0.29	47.1	17.8	94	2.79	41.1
YY05335		0.34	0.008	0.52	7.16	12.9	940	1.27	0.15	1.98	1.42	46.5	19.8	106	3.73	88.8
YY05336		0.18	0.007	0.23	6.82	24.2	810	1.05	0.18	1.51	0.19	33.0	11.2	73	4.81	32.9
YY05337		0.31	0.005	0.12	7.17	11.4	990	1.24	0.23	1.86	0.30	47.7	18.8	95	2.94	47.7
YY05338		0.29	0.005	0.13	7.25	12.6	930	1.20	0.17	1.81	0.21	45.4	14.6	89	2.56	35.6
YY05339		0.42	<0.001	0.12	6.23	7.0	900	1.11	0.18	1.28	0.18	36.6	7.4	75	3.14	18.1
YY05340		0.42	0.020	0.23	7.16	34.4	880	1.25	0.17	1.29	0.38	44.7	17.2	112	3.38	45.1
YY05341		0.30	<0.001	0.06	7.03	8.9	870	1.10	0.33	1.45	0.20	43.3	16.7	100	2.95	32.2
YY05342		0.32	0.007	0.11	6.76	19.8	770	0.95	0.18	1.33	0.28	38.4	16.4	96	3.45	38.0
YY05343		0.19	0.006	0.10	6.42	14.2	710	0.96	0.22	1.27	0.46	37.0	14.2	93	3.91	35.7
YY05344		0.43	0.006	0.19	7.32	14.2	800	1.30	0.17	1.94	0.49	63.6	19.6	129	3.00	51.2
YY05345		0.28	0.002	0.09	6.53	10.1	780	1.06	0.18	1.23	0.25	37.4	15.8	98	10.45	26.9
YY05346		0.33	0.001	0.09	6.71	9.3	800	1.13	0.17	1.32	0.25	42.0	17.6	99	14.80	40.5
YY05347		0.27	0.001	0.11	6.28	5.6	740	0.97	0.27	1.21	0.22	33.8	12.0	82	6.71	25.2
YY05348		0.30	0.004	0.08	6.69	6.1	830	1.07	0.21	1.48	0.26	40.9	13.1	92	6.29	29.5
YY05349		0.24	0.014	0.09	7.25	4.9	670	0.97	0.14	1.31	0.28	34.0	18.1	119	3.75	38.2
YY05350		0.27	0.006	0.13	7.23	10.5	830	1.02	0.39	1.50	0.26	35.1	16.4	97	3.86	39.1
YY05351		0.23	0.005	0.29	7.53	18.3	870	1.06	0.18	1.99	0.52	50.0	20.0	131	4.02	62.0
YY05352		0.23	0.004	0.14	7.70	12.6	880	1.17	0.21	1.66	0.19	50.4	21.7	127	3.21	50.6
YY05353		0.30	0.127	0.58	7.85	74.8	880	1.15	0.13	1.75	0.61	55.7	26.7	151	8.72	61.4
YY05354		0.33	0.019	0.14	7.37	19.3	850	1.15	0.17	1.74	0.30	54.3	19.1	114	6.22	57.3
YY05355		0.24	0.007	0.06	7.41	12.4	770	0.96	0.12	1.74	0.23	40.5	21.4	152	4.16	67.0
YY05356		0.18	0.005	0.26	6.72	13.1	850	1.18	0.21	1.64	0.30	52.0	17.6	82	4.13	43.7
YY05357		0.23	0.004	0.15	7.23	13.9	840	1.14	0.17	1.90	0.26	46.5	17.3	91	5.47	52.4
YY05358		0.22	0.020	0.33	6.91	12.7	830	1.18	0.17	1.49	0.25	48.2	18.2	68	4.44	67.7
YY05359		0.14	0.011	0.23	5.18	20.2	590	0.82	0.15	1.61	0.74	30.0	20.2	58	3.94	39.9
YY05360		0.43	0.013	0.30	8.04	23.1	860	1.17	0.16	1.56	0.23	44.9	19.5	83	6.54	83.5
YY05361		0.32	0.003	0.13	8.19	8.1	860	1.13	0.22	1.71	0.24	46.2	16.9	70	9.10	88.1
YY05362		0.26	0.007	0.10	6.64	7.9	900	1.14	0.15	1.80	0.14	46.8	16.0	97	2.44	37.5



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY05323		5.06	14.50	<0.05	1.8	0.064	1.34	20.3	18.3	1.52	1120	1.40	1.66	8.0	46.7	1590
YY05324		4.62	13.60	0.06	1.6	0.055	1.38	22.3	16.4	1.75	1070	1.34	2.03	7.3	92.7	1020
YY05325		5.28	15.60	0.06	1.6	0.063	1.42	23.1	20.3	1.77	1160	1.33	2.09	6.4	65.4	890
YY05326		5.19	16.35	0.06	1.5	0.063	1.45	24.9	24.2	1.69	1140	0.91	1.96	7.9	51.0	1060
YY05327		4.08	13.85	0.06	1.8	0.047	1.34	22.3	14.5	1.14	895	0.97	1.99	8.0	26.2	1140
YY05328		6.26	14.80	<0.05	1.8	0.070	0.48	15.0	27.9	2.49	950	0.82	1.35	5.7	37.0	1920
YY05329		3.69	13.65	0.06	1.6	0.043	1.37	21.0	15.1	1.40	755	1.02	2.06	7.9	48.1	770
YY05330		4.60	14.30	0.07	1.4	0.050	1.28	20.5	19.5	1.83	1020	1.47	1.86	6.9	56.1	1220
YY05331		5.07	14.30	0.06	1.3	0.057	1.30	21.0	19.8	1.86	1100	3.10	1.86	5.6	64.8	1180
YY05332		4.42	12.90	0.05	1.3	0.055	1.51	19.1	19.9	1.09	952	3.92	1.59	5.2	55.8	990
YY05333		4.83	13.50	0.07	1.4	0.058	1.30	23.5	17.6	1.34	1260	6.21	1.93	6.0	65.7	970
YY05334		4.12	14.75	0.05	1.3	0.052	1.35	21.2	18.1	1.45	778	1.22	2.00	7.6	49.4	550
YY05335		4.24	14.75	0.08	1.5	0.054	1.35	28.0	17.4	1.42	1260	2.61	2.08	7.9	46.7	1080
YY05336		3.61	15.85	0.17	1.8	0.042	1.54	17.8	19.7	0.92	855	1.32	1.61	6.0	24.3	2140
YY05337		4.29	15.85	0.19	1.4	0.053	1.42	22.6	18.8	1.57	883	0.94	1.99	8.2	45.5	970
YY05338		3.81	15.95	0.19	1.8	0.045	1.55	22.7	17.4	1.30	686	1.10	2.14	8.4	35.3	850
YY05339		3.01	15.30	0.17	1.7	0.043	1.48	18.9	13.6	0.85	536	1.13	1.66	10.2	18.8	1770
YY05340		4.84	15.50	0.17	1.8	0.060	1.44	22.1	16.4	1.30	907	4.68	1.91	8.1	43.9	1310
YY05341		4.08	14.70	0.16	1.4	0.048	1.37	20.7	15.0	1.54	733	0.82	2.04	7.9	37.3	900
YY05342		4.52	14.30	0.17	1.5	0.054	1.32	18.1	16.3	1.35	818	1.94	1.81	7.1	33.9	1260
YY05343		3.77	14.40	0.17	1.6	0.049	1.22	18.0	15.1	1.15	899	1.63	1.73	7.2	29.1	2040
YY05344		4.78	15.60	0.20	2.1	0.054	1.33	32.5	16.6	1.84	903	1.98	2.33	10.7	49.3	960
YY05345		4.02	15.25	0.17	1.5	0.049	1.27	18.3	16.0	1.37	1190	1.07	1.76	8.8	34.4	1630
YY05346		4.46	15.80	0.18	1.7	0.060	1.33	20.1	16.9	1.51	1270	1.08	1.68	8.2	35.8	2020
YY05347		3.82	15.40	0.17	1.7	0.046	1.32	17.4	14.5	1.19	710	1.28	1.66	8.1	24.8	1650
YY05348		4.14	16.85	0.17	1.7	0.049	1.39	21.0	19.1	1.44	699	0.91	1.63	9.8	29.8	1420
YY05349		4.39	16.40	0.19	1.6	0.049	1.27	16.7	19.2	2.06	801	0.94	2.05	6.2	43.8	1150
YY05350		4.40	16.00	0.18	1.6	0.054	1.30	17.8	16.2	1.59	892	0.93	2.05	7.5	36.5	1290
YY05351		4.80	15.35	0.19	1.5	0.055	1.38	26.8	18.5	1.83	883	2.01	2.29	7.8	51.7	840
YY05352		4.72	16.00	0.20	1.3	0.056	1.32	20.9	18.4	2.04	978	0.79	2.25	7.6	58.0	860
YY05353		5.18	15.60	0.20	1.8	0.053	1.63	28.3	22.3	1.50	1270	1.41	2.18	7.5	59.8	560
YY05354		4.78	15.90	0.19	1.7	0.059	1.40	25.3	21.8	1.50	972	1.18	1.92	9.3	41.4	1050
YY05355		4.74	15.75	0.17	1.2	0.055	1.27	18.5	25.4	2.36	1040	0.67	2.10	6.8	51.0	630
YY05356		3.86	15.00	0.19	1.6	0.066	1.25	26.3	17.5	1.23	1170	1.22	1.93	8.4	32.4	1210
YY05357		4.23	15.10	0.21	1.7	0.051	1.35	22.4	25.5	1.29	918	0.90	2.02	7.6	34.0	920
YY05358		4.23	15.10	0.20	1.7	0.063	1.25	23.0	21.8	1.20	1010	0.86	1.89	7.8	23.3	1270
YY05359		3.59	11.55	0.17	1.2	0.043	0.93	14.3	16.9	0.91	2540	1.13	1.26	5.1	19.3	2470
YY05360		5.08	16.85	0.20	1.6	0.065	1.49	24.3	30.3	1.50	1040	0.90	1.96	7.4	34.7	820
YY05361		4.47	17.50	0.19	1.4	0.057	1.40	23.7	25.3	1.41	1080	0.60	1.90	6.8	28.9	1060
YY05362		3.69	14.25	0.19	1.4	0.047	1.30	23.1	14.5	1.32	861	0.90	2.04	8.0	38.9	1140



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02	ppm 0.1
YY05323		15.5	47.9	<0.002	0.08	1.60	20.5	1	1.1	258	0.54	<0.05	5.47	0.473	0.36	1.9
YY05324		12.2	47.2	<0.002	0.05	1.93	20.5	1	1.0	320	0.68	<0.05	5.05	0.403	0.33	1.9
YY05325		11.6	47.7	<0.002	0.02	1.88	25.9	1	1.0	304	0.45	<0.05	4.83	0.497	0.34	1.8
YY05326		12.5	49.6	<0.002	0.03	1.25	24.6	1	1.1	309	0.52	<0.05	5.87	0.499	0.38	1.8
YY05327		11.5	47.6	<0.002	0.04	1.08	16.1	1	1.1	316	0.53	<0.05	6.18	0.411	0.32	1.9
YY05328		5.8	16.6	<0.002	0.12	0.63	28.2	1	1.1	225	0.33	<0.05	3.48	0.780	0.17	1.4
YY05329		12.0	48.6	<0.002	0.04	1.25	15.7	1	1.0	314	0.53	<0.05	5.31	0.393	0.36	1.8
YY05330		13.6	48.4	<0.002	0.07	1.41	21.2	1	1.0	302	0.45	0.06	5.27	0.405	0.39	1.9
YY05331		12.5	46.9	<0.002	0.06	2.36	22.9	2	0.9	302	0.38	0.06	5.23	0.389	0.41	2.0
YY05332		26.4	52.4	<0.002	0.07	7.58	23.7	2	0.8	246	0.39	0.08	4.20	0.315	0.47	2.1
YY05333		12.8	43.2	<0.002	0.06	2.13	24.0	3	0.9	308	0.42	0.07	5.17	0.357	0.37	2.0
YY05334		12.7	47.1	<0.002	0.02	1.30	17.0	1	1.1	294	0.52	0.05	5.54	0.410	0.40	1.5
YY05335		14.0	46.5	<0.002	0.04	1.37	20.9	1	1.1	338	0.54	0.05	6.85	0.384	0.39	2.6
YY05336		16.2	48.9	<0.002	0.11	1.96	14.1	1	0.9	314	0.41	<0.05	5.24	0.321	0.42	1.8
YY05337		15.7	51.1	<0.002	0.03	1.25	17.2	1	1.1	302	0.53	0.07	6.43	0.420	0.40	1.6
YY05338		12.5	51.1	<0.002	0.04	1.33	15.7	1	1.1	345	0.54	<0.05	6.59	0.409	0.37	2.0
YY05339		11.1	56.3	<0.002	0.06	1.07	11.7	1	1.3	262	0.76	<0.05	5.67	0.373	0.43	2.0
YY05340		18.3	52.3	<0.002	0.07	2.99	17.1	2	1.2	271	0.57	0.07	5.92	0.407	0.47	2.1
YY05341		12.6	48.3	<0.002	0.04	1.14	16.8	1	1.1	272	0.53	0.05	5.48	0.446	0.35	1.6
YY05342		11.8	41.5	<0.002	0.06	1.60	17.0	1	1.0	252	0.47	0.06	4.54	0.432	0.33	1.6
YY05343		11.2	46.0	<0.002	0.10	1.37	16.1	1	1.1	251	0.48	0.06	4.93	0.381	0.36	1.7
YY05344		10.6	41.1	<0.002	0.02	1.50	22.1	1	1.3	332	0.86	0.06	7.51	0.526	0.34	2.3
YY05345		13.5	48.1	<0.002	0.08	0.93	15.2	1	1.1	230	0.70	0.05	5.57	0.401	0.33	2.4
YY05346		9.6	47.7	<0.002	0.10	0.89	18.8	1	1.1	255	0.54	<0.05	5.12	0.422	0.36	1.9
YY05347		9.0	49.3	<0.002	0.08	0.82	13.9	1	1.2	251	0.54	0.05	4.66	0.427	0.34	1.8
YY05348		10.7	51.6	<0.002	0.08	0.97	14.3	1	1.3	254	0.64	<0.05	5.65	0.432	0.38	1.9
YY05349		7.8	39.7	<0.002	0.06	0.69	18.0	1	1.0	300	0.42	<0.05	4.39	0.470	0.27	1.5
YY05350		13.7	46.8	<0.002	0.06	1.09	18.5	1	1.1	249	0.49	0.10	4.61	0.472	0.34	1.6
YY05351		11.0	40.3	<0.002	0.03	1.54	24.0	1	1.1	331	0.51	0.05	6.40	0.489	0.36	1.8
YY05352		11.6	44.5	<0.002	0.04	1.00	21.5	1	1.1	292	0.50	0.06	5.83	0.480	0.36	1.6
YY05353		47.5	51.0	<0.002	0.03	2.14	25.6	1	1.3	333	0.51	0.06	7.21	0.418	0.37	2.0
YY05354		10.6	49.6	<0.002	0.05	1.97	22.3	1	1.1	281	0.58	0.06	6.97	0.438	0.38	2.1
YY05355		9.0	32.9	<0.002	0.03	1.05	22.4	1	0.9	325	0.44	<0.05	4.73	0.397	0.32	1.4
YY05356		13.8	46.3	<0.002	0.07	1.17	17.4	1	1.2	287	0.56	0.05	6.27	0.417	0.37	1.8
YY05357		10.9	49.1	<0.002	0.05	1.26	22.2	1	1.0	279	0.50	0.05	5.90	0.441	0.37	2.0
YY05358		12.1	42.6	<0.002	0.07	1.11	18.2	1	1.1	283	0.51	0.05	6.38	0.407	0.32	1.8
YY05359		10.0	33.6	<0.002	0.20	0.86	15.2	1	0.8	208	0.36	0.05	3.78	0.301	0.27	1.3
YY05360		10.8	50.4	<0.002	0.03	1.60	24.0	1	1.1	265	0.49	0.05	6.15	0.488	0.37	2.1
YY05361		15.4	50.7	<0.002	0.05	0.90	24.0	1	1.0	268	0.43	<0.05	6.45	0.436	0.37	1.7
YY05362		11.9	46.4	<0.002	0.08	1.07	16.5	1	1.0	297	0.57	0.11	6.09	0.417	0.34	1.7



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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
YY05323		167	2.4	24.1	94	61.2
YY05324		149	1.6	23.5	85	47.3
YY05325		192	1.8	27.2	92	49.9
YY05326		192	2.5	24.6	97	48.8
YY05327		142	1.6	16.8	69	58.4
YY05328		258	2.8	43.0	85	63.8
YY05329		128	1.2	16.9	59	49.3
YY05330		163	1.5	22.6	94	45.2
YY05331		194	1.8	26.5	130	41.9
YY05332		209	6.6	26.7	168	47.5
YY05333		191	2.0	28.3	157	45.8
YY05334		145	1.5	15.9	82	44.5
YY05335		166	1.4	29.2	113	50.7
YY05336		127	3.8	10.0	79	66.3
YY05337		145	1.6	15.7	81	45.1
YY05338		131	1.7	14.6	78	72.4
YY05339		102	2.1	12.0	59	58.0
YY05340		163	1.7	17.3	99	57.5
YY05341		141	1.9	15.4	68	44.1
YY05342		161	1.8	15.1	82	52.7
YY05343		143	1.6	12.8	80	69.8
YY05344		175	1.6	23.1	91	58.3
YY05345		130	1.3	14.5	74	53.1
YY05346		150	1.1	20.0	80	64.8
YY05347		129	1.5	14.5	67	70.3
YY05348		130	1.3	15.3	77	55.9
YY05349		140	1.0	14.8	75	54.5
YY05350		150	2.7	16.2	79	53.5
YY05351		177	1.8	24.6	93	48.5
YY05352		164	2.2	18.6	73	42.5
YY05353		175	2.3	19.5	117	54.4
YY05354		161	1.7	19.2	88	54.0
YY05355		171	1.2	15.3	78	38.4
YY05356		126	1.5	20.1	82	51.9
YY05357		155	1.7	20.9	76	50.9
YY05358		135	2.0	16.4	83	57.3
YY05359		114	1.5	10.7	71	53.2
YY05360		182	2.1	25.7	94	53.8
YY05361		180	1.7	22.5	83	45.7
YY05362		132	1.4	17.6	58	53.1



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05363		0.13	0.009	0.29	4.46	5.5	630	0.69	0.12	1.88	0.41	25.2	11.5	63	2.23	36.0
YY05364		0.25	0.017	0.07	6.47	10.6	950	1.10	0.15	1.85	0.18	47.7	11.9	95	2.25	29.4
YY05365		0.10	0.026	0.30	5.75	23.2	760	0.93	0.16	1.75	1.32	29.4	14.5	83	3.60	35.1
YY05366		0.32	0.004	0.16	6.98	11.4	960	1.12	0.17	1.83	0.19	40.3	15.6	97	2.90	34.2
YY05367		0.37	0.007	0.09	7.16	8.6	950	1.17	0.15	1.78	0.17	45.6	15.7	92	2.31	33.6
YY05368		0.17	0.006	0.06	6.89	8.0	900	1.24	0.15	1.72	0.16	54.2	12.7	73	2.88	27.1
YY05369		0.12	<0.001	0.44	2.45	5.2	400	0.41	0.09	2.05	0.74	17.40	6.7	20	2.44	18.8
YY05370		0.14	0.003	0.22	5.61	12.0	580	0.87	0.12	2.22	0.96	31.7	16.2	106	4.65	58.7
YY05371		0.23	0.009	0.40	8.22	62.3	740	0.90	0.11	1.31	0.49	25.2	20.6	190	13.95	90.8
YY05372		0.16	<0.001	0.21	5.97	9.4	680	1.26	0.15	2.37	0.37	38.5	15.8	58	2.84	50.9
YY05373		0.20	<0.001	0.16	6.40	11.2	760	1.20	0.21	1.62	0.20	41.1	24.7	110	3.42	34.6
YY05374		0.18	0.023	0.15	5.06	7.9	720	0.82	0.22	1.61	0.21	25.5	12.4	71	3.54	20.6
YY05375		0.21	0.004	0.16	7.09	12.5	810	1.23	0.37	1.59	0.37	40.3	18.9	101	3.98	48.1
YY05376		0.17	NSS	0.45	3.65	4.7	510	0.88	0.17	2.02	0.13	29.0	9.9	57	1.63	42.6
YY05377		0.12	0.009	0.30	3.24	4.3	440	0.80	0.10	1.07	0.38	22.3	4.8	37	1.95	25.0
YY05378		0.11	0.009	0.22	3.25	3.9	380	0.55	0.12	2.40	1.87	19.85	16.1	54	2.44	27.1
YY05379		0.20	NSS	0.37	3.95	11.2	390	0.61	0.08	2.20	0.31	17.90	12.8	52	2.26	53.6
YY05380		0.29	0.007	0.13	7.04	23.4	720	1.08	0.09	1.86	0.22	39.1	20.9	105	2.03	44.7
YY05381		0.45	0.072	0.48	7.47	64.7	810	1.17	0.14	1.73	0.25	39.4	22.2	100	4.26	63.1
YY05382		0.29	0.003	0.07	7.40	12.6	830	1.24	0.11	1.92	0.22	48.5	18.8	92	2.95	45.6
YY05383		0.32	0.003	0.10	7.43	12.6	860	1.19	0.13	2.04	0.19	42.3	17.5	98	2.18	38.2
YY05384		0.25	0.004	0.15	7.22	26.2	760	1.13	0.13	1.84	0.28	43.9	21.2	73	8.37	63.5
YY05385		0.42	0.005	0.17	7.46	12.6	870	1.16	0.11	2.07	0.36	38.7	17.0	103	2.25	46.7
YY05386		0.38	0.004	0.13	7.42	9.8	930	1.13	0.13	2.21	0.23	37.6	18.2	92	2.20	45.4
YY05387		0.19	<0.001	0.18	6.18	6.5	720	1.04	0.13	2.16	0.37	30.1	13.5	59	2.28	40.7
YY05388		0.24	<0.001	0.17	5.56	5.2	640	0.94	0.11	1.59	0.27	24.3	11.7	69	1.92	24.9
YY05389		0.18	0.006	0.12	5.01	5.4	670	0.81	0.14	1.83	2.82	22.9	11.9	58	2.67	27.5
YY05390		0.33	0.002	0.11	7.74	11.2	920	1.19	0.15	1.86	0.20	41.6	18.2	95	2.47	53.1
YY05391		0.47	0.001	0.07	7.05	8.2	870	1.14	0.16	1.69	0.21	34.8	12.9	90	2.12	25.5
YY05392		0.46	0.007	0.19	8.11	15.2	850	1.17	0.18	1.48	0.13	38.2	17.3	63	11.75	74.5
YY05393		0.30	0.038	0.14	6.61	11.2	860	1.13	0.19	1.64	0.26	38.5	14.5	78	3.22	48.3
YY05394		0.29	0.031	0.07	6.68	8.1	960	1.17	0.15	1.57	0.16	41.7	11.0	76	2.18	20.2
YY05395		0.41	0.003	0.08	7.60	12.7	980	1.41	0.22	1.71	0.16	49.1	14.5	79	3.14	48.0
YY05396		0.24	<0.001	0.14	6.55	13.9	830	1.25	0.15	1.61	0.37	43.4	15.4	60	2.65	73.6
YY05397		0.19	<0.001	0.16	6.47	7.8	780	1.11	0.15	1.69	0.25	36.6	14.2	43	2.43	71.9
YY05398		0.26	0.001	0.08	6.96	15.3	950	1.35	0.14	1.91	0.29	44.4	11.6	80	2.31	41.1
YY05399		0.26	0.004	0.22	7.02	30.4	970	1.32	0.16	1.77	0.59	45.9	15.0	93	3.25	56.1
YY05400		0.21	0.021	0.11	5.68	5.6	800	0.99	0.14	1.38	0.33	31.7	6.9	63	2.32	17.4
YY05401		0.28	0.001	0.07	6.64	8.2	950	1.35	0.12	1.95	0.21	48.5	12.5	85	2.86	32.6
YY05402		0.27	0.003	0.10	7.77	8.8	800	1.30	0.12	1.96	0.29	51.7	17.7	78	7.25	88.0



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05363		2.87	9.99	0.16	1.0	0.034	0.84	12.1	11.5	0.89	832	0.85	1.20	4.7	23.9	1790
YY05364		3.19	13.40	0.21	1.7	0.040	1.36	24.8	14.0	1.19	658	0.71	1.99	7.5	39.5	990
YY05365		3.65	13.00	0.18	1.4	0.045	1.09	15.1	17.5	1.18	956	0.91	1.41	6.1	35.9	1900
YY05366		4.15	15.30	0.17	1.3	0.047	1.41	19.8	19.1	1.45	748	0.91	1.97	8.1	40.7	1020
YY05367		3.93	15.60	0.20	1.3	0.046	1.33	21.7	17.1	1.41	741	0.86	2.22	8.0	37.3	840
YY05368		3.63	15.10	0.19	1.8	0.043	1.41	26.9	20.0	1.09	719	0.73	1.98	9.6	23.9	900
YY05369		1.21	5.78	0.18	0.7	0.022	0.52	10.0	6.1	0.25	1060	0.65	0.60	2.8	8.7	1910
YY05370		3.88	12.25	0.19	1.2	0.046	0.96	17.4	18.4	1.52	863	1.24	1.46	4.8	39.5	1380
YY05371		6.18	16.80	0.18	1.3	0.066	1.91	16.0	21.4	1.19	797	1.77	1.53	4.0	66.7	960
YY05372		3.29	13.35	0.19	1.6	0.042	1.17	18.3	15.4	0.98	985	2.05	1.77	6.0	25.7	1320
YY05373		4.26	13.80	0.19	1.4	0.053	1.07	17.6	18.8	1.57	1250	1.11	1.84	6.9	47.9	1680
YY05374		3.22	11.10	0.17	1.2	0.039	1.07	12.4	12.1	0.94	684	1.10	1.48	5.9	23.9	1860
YY05375		4.38	14.50	0.19	1.7	0.052	1.24	18.2	16.3	1.63	893	1.02	2.14	6.9	48.0	920
YY05376		2.23	8.22	0.16	1.0	0.029	0.62	17.0	8.1	0.63	963	1.31	0.81	4.5	21.7	3940
YY05377		1.77	6.87	0.15	1.0	0.029	0.63	12.3	5.3	0.42	377	1.05	0.96	3.8	13.0	3130
YY05378		2.37	7.94	0.15	1.0	0.039	0.54	10.0	7.1	0.68	1140	1.05	0.94	3.8	20.5	2110
YY05379		3.15	8.90	0.13	0.8	0.033	0.61	10.9	9.7	1.14	695	0.78	0.82	2.7	24.8	1600
YY05380		4.70	14.25	0.18	1.2	0.054	1.16	19.7	13.9	1.84	916	0.75	2.28	6.6	36.0	680
YY05381		5.57	16.35	0.16	1.3	0.063	1.32	20.1	16.5	1.91	961	0.82	2.09	7.1	45.9	710
YY05382		4.37	15.25	0.18	2.3	0.053	1.31	24.0	15.3	1.66	880	0.62	2.29	7.7	35.2	820
YY05383		4.22	15.50	0.18	1.4	0.053	1.30	21.5	14.7	1.66	786	0.62	2.42	7.5	38.3	710
YY05384		4.79	15.60	0.18	1.6	0.063	1.27	21.5	16.0	1.59	1080	0.86	2.08	7.6	31.9	1050
YY05385		4.25	14.70	0.17	1.3	0.049	1.35	20.5	14.6	1.62	875	0.81	2.38	7.3	35.7	790
YY05386		4.40	14.45	0.16	1.3	0.049	1.35	19.2	14.2	1.75	924	0.53	2.24	6.8	33.8	1000
YY05387		3.50	13.45	0.18	1.4	0.036	1.08	17.2	13.8	1.28	813	0.85	1.70	5.3	24.3	1370
YY05388		3.13	11.30	0.15	1.0	0.035	0.84	12.1	9.7	1.11	764	1.09	1.56	4.4	22.4	3100
YY05389		3.08	12.35	0.16	1.4	0.034	1.08	11.8	10.1	0.92	1640	0.98	1.36	5.5	18.2	2040
YY05390		4.58	15.55	0.17	1.3	0.051	1.37	20.7	15.8	1.80	910	0.59	2.29	7.6	36.9	920
YY05391		3.79	14.95	0.18	1.6	0.050	1.34	17.9	12.7	1.29	719	0.85	2.03	8.3	29.2	1530
YY05392		4.73	18.75	0.18	1.7	0.056	1.45	20.2	22.6	1.27	1020	0.92	1.95	6.7	29.7	1120
YY05393		3.73	14.80	0.17	1.5	0.046	1.31	20.2	16.7	1.24	1020	0.92	1.73	8.0	31.4	1730
YY05394		3.40	13.90	0.18	1.5	0.043	1.48	20.2	13.6	1.05	610	0.70	1.97	8.8	22.6	970
YY05395		4.01	16.10	0.20	2.0	0.050	1.50	24.6	19.0	1.30	871	0.80	2.03	9.7	30.7	1390
YY05396		3.46	13.65	0.17	1.7	0.042	1.30	22.8	18.4	1.01	831	0.93	1.81	7.7	23.0	1640
YY05397		3.18	14.40	0.17	1.8	0.033	1.47	18.4	16.9	0.94	856	1.16	1.92	6.4	19.9	1560
YY05398		3.45	14.50	0.18	1.9	0.040	1.50	22.2	15.1	1.15	715	0.95	2.05	8.3	28.9	1190
YY05399		3.90	14.75	0.18	1.6	0.050	1.39	22.3	20.8	1.32	877	1.21	1.80	8.2	37.6	1640
YY05400		2.71	13.05	0.16	1.5	0.028	1.41	16.8	11.2	0.75	720	1.24	1.73	7.2	15.3	1910
YY05401		3.49	13.45	0.19	1.7	0.042	1.44	23.4	13.9	1.10	747	0.78	1.99	9.3	26.3	1040
YY05402		4.45	15.45	0.19	1.6	0.053	1.47	23.5	17.6	1.45	1260	0.86	1.78	8.1	28.0	1340



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		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
YY05363		8.8	33.4	<0.002	0.17	0.75	12.0	1	0.8	224	0.31	<0.05	3.38	0.286	0.23	1.1
YY05364		11.7	46.0	<0.002	0.05	1.11	13.7	1	0.9	313	0.49	<0.05	6.66	0.372	0.34	1.6
YY05365		25.3	44.8	<0.002	0.13	1.08	16.2	1	1.0	234	0.43	0.05	4.59	0.355	0.35	1.5
YY05366		12.9	49.2	<0.002	0.05	1.24	17.0	1	1.1	292	0.55	0.06	5.61	0.415	0.40	1.6
YY05367		13.3	46.3	<0.002	0.04	0.99	16.9	1	1.2	314	0.55	0.06	6.00	0.437	0.35	1.7
YY05368		13.3	50.6	<0.002	0.05	0.98	14.3	1	1.2	295	0.66	<0.05	8.39	0.411	0.37	2.2
YY05369		9.0	20.0	<0.002	0.21	0.62	7.0	1	0.4	132.0	0.19	<0.05	3.20	0.130	0.19	0.9
YY05370		9.3	32.7	<0.002	0.12	1.00	20.5	1	0.7	279	0.33	<0.05	4.31	0.307	0.27	1.6
YY05371		8.7	57.7	<0.002	0.05	6.80	38.1	1	0.7	247	0.28	0.05	3.57	0.359	0.49	1.6
YY05372		12.0	36.7	<0.002	0.13	0.86	13.5	1	0.9	370	0.43	<0.05	4.29	0.361	0.29	1.5
YY05373		16.5	40.0	<0.002	0.09	1.22	17.4	1	1.0	242	0.46	<0.05	4.30	0.407	0.34	1.5
YY05374		11.9	42.1	<0.002	0.15	0.87	11.6	1	0.8	236	0.41	0.07	3.44	0.333	0.31	1.3
YY05375		14.5	42.9	<0.002	0.05	1.10	18.2	1	1.0	261	0.44	0.09	4.56	0.458	0.34	1.6
YY05376		7.9	23.0	<0.002	0.30	0.70	11.0	1	0.6	159.0	0.31	0.06	3.61	0.205	0.31	1.5
YY05377		5.2	23.0	<0.002	0.26	0.48	8.4	1	0.6	145.0	0.26	<0.05	3.03	0.212	0.19	1.1
YY05378		6.5	19.3	<0.002	0.25	0.63	13.8	2	0.6	163.0	0.25	<0.05	2.36	0.265	0.18	0.9
YY05379		6.8	22.7	<0.002	0.21	3.93	13.4	1	0.5	168.5	0.18	<0.05	2.37	0.231	0.18	0.8
YY05380		11.6	34.5	<0.002	0.02	18.85	19.8	1	1.0	282	0.44	0.06	4.30	0.561	0.28	1.3
YY05381		23.0	41.0	<0.002	0.03	7.17	22.4	1	1.1	273	0.45	0.13	5.05	0.506	0.34	1.5
YY05382		11.5	40.1	<0.002	0.03	2.29	18.3	1	1.1	306	0.50	<0.05	6.62	0.511	0.32	2.7
YY05383		11.9	41.7	<0.002	0.02	1.53	19.1	1	1.1	324	0.49	0.05	5.27	0.499	0.32	1.9
YY05384		12.6	41.1	<0.002	0.05	1.75	20.2	1	1.1	305	0.48	<0.05	5.13	0.496	0.31	1.8
YY05385		11.7	41.3	<0.002	0.02	1.64	18.3	1	1.0	331	0.47	0.05	4.59	0.467	0.32	1.7
YY05386		12.8	42.6	<0.002	0.03	1.19	17.4	1	1.0	318	0.45	0.05	5.11	0.487	0.32	1.3
YY05387		10.1	36.0	<0.002	0.12	0.78	13.0	1	0.8	340	0.37	<0.05	3.97	0.374	0.27	1.3
YY05388		9.7	30.1	<0.002	0.20	0.58	12.3	1	0.8	304	0.31	<0.05	3.03	0.330	0.23	1.3
YY05389		9.8	45.9	<0.002	0.16	0.75	10.6	1	0.9	253	0.38	<0.05	3.37	0.333	0.32	1.2
YY05390		12.7	41.3	<0.002	0.02	1.24	18.4	1	1.1	304	0.52	0.05	5.29	0.486	0.34	1.5
YY05391		11.5	45.9	<0.002	0.06	1.14	15.0	1	1.1	297	0.56	0.05	4.39	0.430	0.34	1.7
YY05392		12.1	48.5	<0.002	0.06	1.43	19.6	1	1.0	283	0.44	0.05	5.55	0.399	0.39	1.9
YY05393		13.5	50.0	<0.002	0.10	1.23	14.7	1	1.1	266	0.52	0.06	5.59	0.379	0.39	1.9
YY05394		14.3	48.5	<0.002	0.05	1.04	11.8	1	1.2	290	0.59	<0.05	5.34	0.407	0.38	1.7
YY05395		15.2	54.8	<0.002	0.06	1.03	15.9	1	1.3	313	0.61	0.06	6.91	0.427	0.41	2.3
YY05396		11.7	41.1	<0.002	0.10	1.11	13.2	1	1.0	289	0.51	<0.05	6.02	0.344	0.33	2.2
YY05397		11.0	45.0	<0.002	0.10	0.78	11.0	1	0.9	362	0.43	<0.05	5.09	0.320	0.30	1.8
YY05398		12.3	50.0	<0.002	0.05	1.13	13.0	1	1.1	348	0.57	<0.05	6.31	0.400	0.36	2.2
YY05399		14.7	51.1	<0.002	0.08	1.68	17.0	1	1.2	297	0.56	<0.05	6.35	0.382	0.45	2.2
YY05400		10.3	46.2	<0.002	0.11	0.73	8.0	1	1.0	305	0.48	<0.05	4.45	0.329	0.33	1.6
YY05401		12.1	51.5	<0.002	0.05	1.02	12.7	1	1.2	320	0.70	<0.05	7.06	0.402	0.37	1.9
YY05402		10.2	53.5	<0.002	0.05	1.05	18.6	1	1.1	278	0.55	<0.05	6.08	0.405	0.38	1.9



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY05363		97	1.0	25.3	72	35.6
YY05364		111	1.3	14.1	56	49.8
YY05365		123	7.4	13.5	113	49.2
YY05366		141	1.4	14.6	74	43.4
YY05367		136	2.0	15.8	65	44.4
YY05368		119	1.3	15.2	66	67.5
YY05369		39	0.7	8.5	39	24.5
YY05370		149	0.9	17.8	104	39.2
YY05371		236	1.5	27.0	122	41.4
YY05372		107	1.0	15.1	65	50.2
YY05373		143	2.0	18.7	65	54.6
YY05374		109	1.4	9.5	53	42.1
YY05375		154	2.6	16.3	77	50.1
YY05376		72	0.8	18.4	35	30.8
YY05377		56	0.8	8.2	35	31.0
YY05378		91	0.8	10.9	63	48.4
YY05379		101	0.9	15.8	55	26.3
YY05380		177	2.2	20.1	69	37.3
YY05381		183	2.9	21.6	85	44.6
YY05382		156	2.1	20.7	72	65.2
YY05383		155	1.6	19.0	69	46.4
YY05384		164	1.9	21.7	83	54.3
YY05385		163	2.1	19.8	75	43.5
YY05386		158	1.6	17.4	76	39.4
YY05387		117	1.1	15.4	68	47.6
YY05388		110	0.8	12.4	54	34.8
YY05389		113	1.1	8.0	121	46.1
YY05390		164	1.7	17.7	79	43.1
YY05391		132	1.2	15.3	63	55.4
YY05392		172	1.8	16.9	84	56.9
YY05393		125	1.5	15.7	73	56.9
YY05394		117	1.2	20.9	58	50.4
YY05395		134	1.5	17.7	77	58.7
YY05396		108	1.6	15.5	70	62.6
YY05397		95	1.0	11.7	70	69.8
YY05398		120	1.3	15.5	69	76.6
YY05399		143	1.7	18.2	97	53.7
YY05400		94	1.0	8.7	53	53.1
YY05401		116	1.2	14.1	58	54.3
YY05402		160	1.8	17.5	73	51.5



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units LOD	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05403		0.24	0.002	0.08	6.64	11.6	860	1.29	0.13	1.71	0.22	40.4	14.4	81	3.92	45.5
YY05404		0.47	0.005	0.22	8.23	11.1	610	1.02	0.33	1.88	0.17	34.0	27.6	33	6.24	62.0
YY05405		0.23	0.001	0.14	6.25	8.4	890	1.23	0.13	1.59	0.24	43.5	9.0	78	2.78	70.0
YY05406		0.25	0.008	0.09	6.12	6.6	1040	1.33	0.16	1.82	0.17	39.5	8.1	80	2.49	18.4
YY05407		0.29	0.330	0.06	6.78	8.4	950	1.36	0.12	1.68	0.17	49.2	11.8	82	2.24	30.5
YY05408		0.20	0.003	0.15	7.31	18.3	950	1.23	0.19	1.52	0.26	47.9	17.1	83	4.69	53.8
YY05409		0.35	0.002	0.15	7.26	15.0	950	1.26	0.16	1.83	0.24	49.8	15.4	90	3.67	51.7
YY05410		0.36	0.037	0.19	7.74	111.0	850	1.14	0.13	2.23	0.35	56.2	17.9	78	5.34	77.5
YY05411		0.30	0.009	0.31	7.10	81.8	880	1.08	0.18	1.83	0.37	46.1	18.6	88	5.04	98.0
YY05412		0.31	0.021	0.13	7.40	23.4	840	1.17	0.13	2.41	0.32	61.6	16.4	84	4.55	81.7
YY05413		0.25	0.005	0.13	7.12	28.7	860	1.23	0.12	2.15	0.70	51.3	16.1	79	2.90	63.3
YY05414		0.24	0.004	0.17	6.80	9.1	850	1.11	0.14	1.68	0.22	44.3	15.6	90	3.02	59.6
YY05415		0.26	0.014	0.11	7.28	11.8	970	1.24	0.15	1.78	0.21	52.3	16.4	88	3.43	41.8
YY05416		0.25	0.001	0.10	6.71	9.9	880	1.13	0.15	1.62	0.24	37.3	14.2	83	3.09	30.5
YY05417		0.21	0.003	0.07	6.83	14.9	970	1.26	0.15	1.74	0.26	48.2	14.2	83	2.76	54.0
YY05418		0.25	0.005	0.15	6.78	11.6	880	1.30	0.13	1.89	0.28	52.4	13.8	82	3.27	56.1
YY05419		0.24	0.001	0.10	7.51	8.3	960	1.30	0.14	1.80	0.27	45.9	14.4	74	3.83	49.6
YY05420		0.26	<0.001	0.07	6.89	8.1	970	1.21	0.18	1.70	0.19	41.4	14.4	95	2.79	43.5
YY05421		0.35	0.015	0.13	7.40	12.6	850	1.18	0.12	2.18	0.30	55.6	17.4	79	3.53	67.5
YY05422		0.24	0.002	0.08	6.87	8.0	980	1.33	0.23	1.97	0.21	48.9	15.4	93	3.23	38.0
YY05423		0.33	0.013	0.20	7.25	15.0	950	1.27	0.17	1.83	0.17	44.0	18.0	90	6.33	63.9
YY05424		0.29	0.024	0.23	7.35	70.0	940	1.33	0.15	1.92	0.15	52.4	17.3	77	6.42	129.0
YY05425		0.25	<0.001	0.08	6.17	7.1	1020	1.07	0.18	1.42	0.16	37.3	9.0	88	2.83	16.2
YY05426		0.29	<0.001	0.10	6.94	8.9	990	1.31	0.16	1.73	0.20	49.4	12.7	91	2.45	34.9
YY05427		0.27	0.005	0.14	6.74	10.3	930	1.28	0.15	1.35	0.28	42.6	14.2	91	2.62	45.8
YY05428		0.22	0.001	0.10	6.37	7.6	900	1.13	0.15	1.40	0.28	40.7	12.7	88	2.25	38.0
YY05429		0.25	0.006	0.10	7.37	17.9	910	1.32	0.13	2.17	0.24	61.5	12.8	73	2.84	49.1
YY05430		0.28	0.018	0.29	7.52	23.1	920	1.21	0.16	2.22	0.29	66.2	15.4	88	3.87	76.3
YY05431		0.44	0.069	0.40	7.92	129.5	880	1.14	0.23	1.45	0.40	49.2	18.5	58	6.76	88.8
YY05432		0.31	0.027	0.40	7.80	62.9	970	1.08	0.18	1.56	1.39	44.1	13.7	83	5.32	61.6
YY05433		0.26	0.001	0.13	6.73	11.1	1090	1.25	0.21	1.48	0.25	39.0	9.8	86	2.98	20.6
YY05434		0.25	0.145	0.64	7.35	312	870	1.26	0.20	1.42	0.26	48.0	22.7	76	6.62	131.0
YY05435		0.30	0.023	0.10	7.26	7.9	880	1.16	0.15	2.17	0.14	57.3	14.9	64	2.82	90.5
YY05436		0.44	0.006	0.08	6.94	7.9	950	1.30	0.14	2.20	0.14	60.0	12.1	82	2.21	52.6
YY05437		0.36	0.006	0.10	6.99	6.3	900	1.17	0.15	2.02	0.16	49.9	12.5	71	2.21	44.9
YY05438		0.24	0.002	0.10	7.17	9.6	960	1.34	0.19	1.75	0.16	52.6	15.1	86	2.87	47.8
YY05439		0.34	0.001	0.08	7.21	8.5	930	1.34	0.43	1.86	0.20	54.1	15.5	80	2.85	50.8
YY05440		0.29	0.001	0.08	6.76	7.5	920	1.20	0.17	1.63	0.18	44.1	12.5	92	2.54	29.8
YY05441		0.34	0.002	0.26	7.12	14.1	820	1.06	0.16	1.76	0.16	39.1	12.7	78	2.74	34.5
YY05442		0.34	0.001	0.12	6.52	5.7	910	1.17	0.30	1.34	0.13	39.6	7.6	85	2.83	14.3



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY05403		4.31	14.35	0.17	1.5	0.047	1.34	19.1	14.5	1.17	1120	0.91	1.98	8.2	27.0	1690
YY05404		5.56	19.60	0.18	1.5	0.084	1.26	15.6	22.4	1.32	2200	0.67	2.48	5.5	14.2	1070
YY05405		3.62	13.55	0.18	1.7	0.045	1.41	22.7	13.1	0.87	578	1.09	1.87	9.4	19.3	900
YY05406		3.42	14.75	0.18	1.8	0.043	1.54	20.1	10.5	1.02	481	1.39	1.81	9.2	19.6	870
YY05407		3.52	13.60	0.19	1.6	0.042	1.45	23.5	14.6	1.09	702	0.66	2.00	8.7	27.3	1320
YY05408		3.89	14.95	0.13	1.9	0.054	1.48	24.3	19.6	1.29	1170	0.78	1.93	7.1	41.4	1320
YY05409		4.03	15.15	0.14	2.0	0.054	1.52	24.2	18.2	1.39	830	0.88	2.07	8.1	40.9	1130
YY05410		4.81	16.20	0.15	2.0	0.061	1.50	28.5	93.5	1.31	995	0.95	2.22	8.6	31.5	1010
YY05411		4.43	15.25	0.14	1.8	0.053	1.39	23.9	21.0	1.42	997	1.27	1.84	7.7	44.6	1420
YY05412		4.39	15.75	0.14	2.1	0.061	1.40	31.1	16.9	1.38	916	1.02	2.29	9.2	31.5	1070
YY05413		4.11	15.05	0.11	1.9	0.051	1.45	26.8	16.1	1.36	784	1.29	2.32	8.4	30.9	840
YY05414		4.18	14.30	0.11	1.8	0.054	1.37	21.5	16.4	1.31	804	0.98	1.96	7.4	29.8	1220
YY05415		4.21	15.10	0.11	2.2	0.050	1.53	25.8	18.0	1.40	881	0.84	2.13	8.5	31.4	760
YY05416		4.27	15.15	0.12	1.9	0.052	1.38	16.3	19.9	1.29	660	0.68	1.94	7.5	28.1	820
YY05417		3.70	14.45	0.14	2.0	0.044	1.54	22.8	16.2	1.15	757	0.68	2.06	8.4	28.8	1140
YY05418		3.72	14.50	0.13	1.7	0.046	1.39	26.0	16.3	1.22	730	0.81	2.01	8.5	35.3	1230
YY05419		3.64	16.15	0.12	2.2	0.049	1.54	22.9	16.1	1.26	844	0.67	2.24	7.9	27.6	930
YY05420		3.91	14.55	0.13	1.8	0.049	1.48	20.6	16.3	1.24	923	0.71	1.98	8.5	33.8	1490
YY05421		4.59	15.70	0.15	2.2	0.054	1.39	28.8	15.2	1.41	1140	0.86	2.33	7.8	30.7	1080
YY05422		3.94	14.90	0.12	1.9	0.053	1.47	21.3	15.9	1.32	991	0.80	2.02	7.9	33.0	1150
YY05423		4.50	15.95	0.12	1.7	0.058	1.47	22.3	18.2	1.46	1100	0.78	2.17	8.1	40.9	1250
YY05424		4.17	16.05	0.14	1.8	0.060	1.53	25.6	17.2	1.39	828	0.61	2.20	8.9	40.0	580
YY05425		3.07	14.95	0.12	2.0	0.038	1.59	17.5	13.9	0.88	506	1.51	1.87	9.2	28.1	750
YY05426		3.51	14.60	0.13	1.9	0.039	1.50	24.7	15.7	1.20	687	0.89	2.05	8.2	41.6	1080
YY05427		3.69	14.65	0.13	1.8	0.050	1.44	21.1	15.7	1.15	871	1.06	1.81	7.6	38.0	1510
YY05428		3.67	13.60	0.11	1.7	0.049	1.40	20.0	15.3	0.99	916	0.91	1.72	7.9	26.4	2230
YY05429		3.97	15.60	0.16	2.3	0.055	1.62	32.3	17.1	1.18	873	0.90	2.22	9.1	22.3	1110
YY05430		4.40	15.90	0.15	2.2	0.053	1.51	34.5	16.1	1.31	990	1.04	2.33	8.7	27.5	1000
YY05431		4.48	17.75	0.13	1.9	0.058	1.57	25.7	58.9	1.21	1300	1.23	2.17	6.4	25.3	950
YY05432		3.73	16.25	0.13	1.7	0.049	1.55	25.7	36.6	1.06	859	2.56	2.32	5.7	29.0	900
YY05433		3.60	15.85	0.11	1.9	0.040	1.71	20.0	16.1	0.91	587	1.09	2.02	10.1	21.7	620
YY05434		5.13	16.55	0.13	1.9	0.065	1.58	23.4	22.4	1.26	1340	1.29	1.69	7.8	33.1	1740
YY05435		3.85	15.25	0.13	2.3	0.049	1.53	30.4	16.4	1.10	789	0.94	2.18	9.3	23.5	1090
YY05436		3.66	14.40	0.13	2.2	0.045	1.54	30.2	14.8	1.13	758	0.63	2.16	9.8	26.5	1010
YY05437		3.67	14.85	0.12	2.1	0.042	1.48	25.3	15.4	1.16	741	0.64	2.18	8.9	23.6	1050
YY05438		3.88	15.05	0.14	1.9	0.049	1.42	26.5	19.2	1.31	818	0.75	1.98	8.9	36.5	1070
YY05439		3.78	15.20	0.12	1.9	0.049	1.47	25.9	17.7	1.35	782	0.64	2.16	8.9	34.9	970
YY05440		3.49	14.45	0.12	1.8	0.048	1.40	21.6	15.4	1.18	708	0.77	1.98	8.2	39.2	1350
YY05441		3.63	15.45	0.12	1.8	0.042	1.45	21.1	19.2	1.32	793	1.75	2.14	6.3	30.4	1560
YY05442		3.02	16.00	0.10	2.1	0.045	1.50	20.7	15.3	1.02	405	0.94	1.77	10.8	21.2	1400



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CERTIFICATE OF ANALYSIS WH18166131

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	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units LOD	ppm 0.5	ppm 0.1	ppm 0.002	% 0.01	ppm 0.05	ppm 0.1	ppm 1	ppm 0.2	ppm 0.2	ppm 0.05	ppm 0.05	ppm 0.01	% 0.005	ppm 0.02	ppm 0.1
YY05403		10.0	46.1	<0.002	0.08	1.04	14.9	1	1.0	285	0.55	<0.05	4.98	0.431	0.33	1.7
YY05404		8.1	35.9	<0.002	0.01	0.94	20.8	1	1.0	355	0.36	<0.05	3.50	0.572	0.31	1.4
YY05405		10.4	49.2	<0.002	0.06	0.98	11.7	1	1.2	294	0.64	0.05	5.66	0.419	0.37	1.9
YY05406		12.3	50.1	<0.002	0.04	1.02	12.9	1	1.3	357	0.58	<0.05	4.84	0.441	0.46	2.1
YY05407		11.5	49.5	<0.002	0.05	1.00	13.0	1	1.1	301	0.59	<0.05	6.21	0.408	0.35	1.8
YY05408		18.2	52.6	<0.002	0.06	1.82	18.4	<1	1.1	282	0.50	<0.05	6.67	0.379	0.43	2.4
YY05409		12.9	54.3	<0.002	0.04	1.36	19.3	1	1.2	305	0.59	0.05	6.93	0.426	0.42	2.2
YY05410		11.9	49.8	<0.002	0.02	12.95	21.7	1	1.3	342	0.70	0.05	8.35	0.545	0.40	2.5
YY05411		14.5	51.0	<0.002	0.06	5.50	20.8	<1	1.2	287	0.60	<0.05	6.49	0.409	0.45	2.4
YY05412		13.0	46.4	<0.002	0.02	1.58	21.1	1	1.3	368	0.72	<0.05	8.60	0.494	0.39	2.5
YY05413		15.3	46.4	<0.002	0.02	2.92	19.8	1	1.3	352	0.64	<0.05	6.26	0.491	0.37	2.1
YY05414		12.2	48.6	<0.002	0.07	1.13	18.2	<1	1.2	298	0.57	0.07	7.95	0.453	0.42	2.9
YY05415		13.0	54.7	<0.002	0.03	1.25	18.6	1	1.3	313	0.64	0.06	7.44	0.440	0.43	2.1
YY05416		13.8	48.4	<0.002	0.05	1.14	15.9	<1	1.2	277	0.56	0.06	5.25	0.441	0.37	1.6
YY05417		12.6	53.6	<0.002	0.04	1.18	14.3	1	1.2	312	0.62	<0.05	6.37	0.403	0.39	1.8
YY05418		13.3	50.6	<0.002	0.06	1.12	16.6	1	1.2	323	0.61	<0.05	6.99	0.412	0.39	2.4
YY05419		16.0	53.1	<0.002	0.03	1.07	17.1	1	1.2	341	0.60	<0.05	6.95	0.392	0.42	2.2
YY05420		12.6	51.0	<0.002	0.06	1.06	16.1	<1	1.3	291	0.63	0.05	5.66	0.412	0.42	1.8
YY05421		12.3	44.2	<0.002	0.02	1.15	21.9	<1	1.2	335	0.56	<0.05	7.33	0.483	0.35	2.5
YY05422		14.9	51.3	<0.002	0.06	1.00	17.3	<1	1.2	323	0.60	0.08	6.29	0.404	0.39	2.1
YY05423		13.0	53.1	<0.002	0.04	1.19	20.2	<1	1.3	304	0.57	<0.05	6.00	0.424	0.43	1.9
YY05424		12.6	55.1	<0.002	0.03	1.30	19.0	<1	1.3	327	0.60	0.05	6.85	0.448	0.46	2.0
YY05425		12.7	63.0	<0.002	0.04	1.22	11.7	<1	1.5	278	0.69	0.05	5.07	0.389	0.54	1.9
YY05426		12.9	52.6	<0.002	0.05	1.17	14.4	<1	1.2	320	0.63	0.05	7.15	0.394	0.44	2.0
YY05427		12.2	51.8	<0.002	0.06	1.01	15.7	<1	1.2	265	0.54	0.05	6.09	0.379	0.38	2.1
YY05428		11.2	49.9	<0.002	0.09	1.03	13.8	<1	1.2	256	0.61	<0.05	6.08	0.390	0.41	1.8
YY05429		12.2	54.7	<0.002	0.03	1.75	18.1	<1	1.4	358	0.72	<0.05	8.68	0.467	0.46	2.4
YY05430		15.5	49.4	<0.002	0.02	1.86	20.2	1	1.2	351	0.68	0.06	8.61	0.485	0.41	2.7
YY05431		36.3	51.0	<0.002	0.03	5.23	20.6	1	1.1	299	0.47	<0.05	7.02	0.417	0.52	2.4
YY05432		18.2	49.7	<0.002	0.02	3.29	18.2	1	1.0	337	0.43	0.05	6.94	0.330	0.57	2.5
YY05433		15.2	65.9	<0.002	0.03	1.29	12.3	<1	1.5	302	0.76	<0.05	5.23	0.415	0.51	1.9
YY05434		18.2	57.1	<0.002	0.08	5.82	22.9	1	1.4	258	0.54	<0.05	6.47	0.420	0.46	2.1
YY05435		12.5	49.2	<0.002	0.04	0.88	15.4	1	1.3	377	0.72	<0.05	9.02	0.435	0.37	2.5
YY05436		12.4	51.8	<0.002	0.03	0.92	15.2	<1	1.3	342	0.78	0.05	8.69	0.440	0.40	2.6
YY05437		11.7	49.5	<0.002	0.03	0.92	16.8	<1	1.3	332	0.65	<0.05	7.09	0.425	0.41	2.4
YY05438		14.6	52.6	<0.002	0.04	1.12	18.4	<1	1.3	296	0.63	0.05	7.45	0.420	0.43	2.5
YY05439		16.1	51.7	<0.002	0.03	1.17	18.6	<1	1.3	315	0.68	0.08	7.30	0.460	0.42	2.2
YY05440		13.9	50.7	<0.002	0.06	0.99	15.5	<1	1.2	291	0.61	0.08	6.18	0.410	0.42	1.9
YY05441		11.0	42.7	<0.002	0.08	1.04	16.5	1	0.9	366	0.44	0.05	5.48	0.360	0.36	2.1
YY05442		15.9	54.6	<0.002	0.04	0.86	12.9	<1	1.5	249	0.87	0.06	6.32	0.418	0.49	2.1



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY05403		138	1.2	16.0	77	49.1
YY05404		199	1.9	20.8	90	54.1
YY05405		123	1.3	13.7	63	54.3
YY05406		139	1.3	12.8	46	76.8
YY05407		120	1.3	15.7	58	49.4
YY05408		128	1.9	22.1	84	53.3
YY05409		142	1.7	18.5	80	60.7
YY05410		171	5.2	22.2	92	64.6
YY05411		154	1.9	22.4	98	58.6
YY05412		152	1.8	23.1	83	61.6
YY05413		149	2.0	20.4	90	55.4
YY05414		146	1.6	16.2	72	49.8
YY05415		142	1.7	18.4	71	62.5
YY05416		139	7.5	13.0	76	64.3
YY05417		116	1.5	16.1	68	65.5
YY05418		124	2.8	17.4	77	53.4
YY05419		123	1.6	17.7	74	54.7
YY05420		125	1.6	16.6	71	55.1
YY05421		159	1.6	24.1	83	60.4
YY05422		127	1.6	15.5	71	53.7
YY05423		140	1.5	23.1	77	64.6
YY05424		136	1.6	20.2	75	56.3
YY05425		113	1.4	11.6	48	54.4
YY05426		116	1.4	16.1	67	59.6
YY05427		116	1.9	17.2	68	57.1
YY05428		114	1.5	13.1	72	47.9
YY05429		142	2.1	20.3	78	70.0
YY05430		151	2.2	25.2	80	61.0
YY05431		142	4.9	19.5	101	58.7
YY05432		173	3.1	21.7	121	48.9
YY05433		121	1.5	12.7	58	59.3
YY05434		165	8.1	20.2	99	61.2
YY05435		120	1.5	17.5	74	67.4
YY05436		121	1.6	17.8	66	60.7
YY05437		123	1.6	18.3	66	58.0
YY05438		127	2.0	20.2	75	58.5
YY05439		129	1.9	19.5	70	55.4
YY05440		114	1.3	15.2	64	58.9
YY05441		130	1.6	14.6	89	61.7
YY05442		105	1.8	13.2	56	60.1



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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
Units		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
LOD		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05443		0.31	0.001	0.12	7.21	7.9	820	1.17	0.46	1.21	0.17	35.8	16.4	102	3.75	37.5
YY05444		0.41	0.001	0.15	6.78	7.9	830	1.07	0.23	1.23	0.24	34.3	13.3	100	3.57	29.4
YY05445		0.29	0.006	0.07	6.82	17.8	810	1.00	0.26	1.47	0.31	35.8	16.9	113	3.49	33.4
YY05446		0.25	<0.001	0.07	6.69	9.4	930	1.04	0.24	1.32	0.21	37.4	11.3	94	3.53	22.6
YY05447		0.35	0.002	0.11	6.60	6.7	860	0.99	0.30	1.46	0.15	34.9	12.9	82	3.15	25.0
YY05448		0.27	<0.001	0.16	6.99	8.0	830	0.97	0.53	1.58	0.13	34.6	19.5	96	3.53	35.3
YY05449		0.29	0.002	0.19	7.31	9.6	810	0.98	0.63	1.69	0.18	38.5	22.4	95	3.60	49.9
YY05450		0.34	0.001	0.15	7.15	8.1	820	0.95	0.53	1.67	0.21	38.4	23.4	95	3.26	44.6
YY05451		0.22	<0.001	0.10	6.33	7.8	860	1.03	0.41	1.21	0.30	36.3	13.2	80	6.64	23.0
YY05452		0.15	<0.001	0.15	7.05	4.5	780	1.09	0.15	2.02	0.21	34.8	8.7	17	2.52	24.7
YY05453		0.32	<0.001	0.17	6.54	7.3	830	1.08	0.31	1.27	0.42	38.2	13.9	81	12.75	30.7
YY05454		0.26	0.002	0.11	7.22	10.8	790	1.05	0.35	1.60	0.20	38.1	21.5	80	3.46	44.4
YY05455		0.34	0.001	0.13	7.12	9.1	750	0.91	0.48	1.79	0.16	36.5	22.3	111	2.96	48.1
YY05456		0.36	0.014	0.64	7.75	59.9	740	1.01	0.39	1.23	0.55	43.1	41.7	101	9.15	77.0
YY05457		0.39	0.010	0.09	7.44	12.3	870	1.18	0.39	1.65	0.34	45.9	21.8	117	4.24	45.5
YY05458		0.25	<0.001	0.12	7.48	9.0	720	1.12	0.19	2.13	0.16	39.5	21.2	46	3.85	27.9
YY05459		0.31	0.002	0.06	7.23	8.9	650	0.87	0.16	1.92	0.20	32.9	28.8	256	9.50	47.9
YY05460		0.26	<0.001	0.19	6.66	27.0	680	1.00	0.14	2.23	0.40	36.8	27.1	150	18.75	78.9
YY05461		0.25	<0.001	0.16	7.27	5.9	800	1.15	0.18	2.02	0.26	40.1	10.2	35	2.31	22.5
YY05462		0.34	0.004	0.18	7.13	17.5	770	0.96	0.15	1.66	0.42	40.9	19.9	138	5.01	52.2
YY05463		0.23	0.008	0.16	7.17	25.6	740	0.96	0.16	1.78	0.32	40.9	19.0	99	5.46	43.2
YY05464		0.39	0.005	0.20	7.61	16.0	730	0.78	0.12	1.55	0.24	32.3	21.9	158	5.16	58.7
YY05465		0.26	0.012	0.28	7.13	21.0	790	1.06	0.19	1.62	0.43	44.1	17.9	90	5.81	54.2
YY05466		0.29	0.017	0.12	6.69	9.8	830	1.09	0.19	1.94	0.33	47.7	17.2	82	3.11	35.2
YY05467		0.32	0.043	0.79	7.43	35.7	820	0.94	0.22	1.67	2.78	50.2	29.9	129	4.14	80.0
YY05468		0.36	0.006	0.11	7.68	11.8	950	1.17	0.18	1.89	0.28	53.6	16.2	87	4.02	44.9
YY05469		0.45	0.003	0.23	7.81	15.5	1010	1.18	0.27	1.48	0.27	46.4	23.2	106	5.36	71.3
YY05470		0.33	0.001	0.07	7.05	11.8	920	1.03	0.20	1.68	0.23	43.4	20.0	110	2.66	35.4
YY05471		0.39	0.028	0.46	7.47	34.3	930	1.18	0.18	1.65	0.30	51.7	23.4	109	4.82	50.3
YY05472		0.30	0.004	0.22	6.95	14.8	880	1.11	0.15	1.72	0.20	46.3	23.5	107	4.57	44.6
YY05473		0.25	0.001	0.23	6.23	11.5	820	1.04	0.19	1.88	0.28	39.3	18.7	94	4.01	36.0
YY05474		0.32	0.007	0.37	7.21	32.1	970	1.34	0.18	1.91	0.27	51.7	17.8	97	5.34	62.6
YY05475		0.40	0.006	0.34	7.22	21.4	870	1.06	0.15	1.89	0.42	39.2	18.4	110	3.89	60.9
YY05476		0.27	0.012	0.78	7.25	32.6	830	1.08	0.19	1.78	1.24	39.4	26.1	129	5.06	76.1
YY05477		0.40	0.008	0.46	7.17	12.4	1080	1.23	0.15	1.76	0.61	43.0	18.1	108	3.59	42.3
YY05478		0.21	0.002	0.06	6.68	10.0	1000	1.31	0.18	1.44	0.19	39.7	11.8	96	2.74	24.4
YY05479		0.30	0.003	0.19	6.94	14.4	920	1.11	0.15	1.60	0.31	38.8	15.3	94	2.67	39.2
YY05480		0.31	0.003	0.10	6.96	14.2	900	1.22	0.14	1.49	0.30	44.9	16.1	92	2.86	47.5
YY05481		0.38	0.117	0.67	6.79	71.9	800	1.09	0.13	1.81	0.23	41.2	11.4	49	2.93	64.0
YY05482		0.30	0.002	0.06	5.70	9.1	850	1.03	0.17	1.05	0.19	34.3	8.2	74	2.91	21.0



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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY05443		4.54	16.75	0.10	1.9	0.054	1.27	17.7	16.1	1.57	752	1.05	1.85	8.6	40.1	1400
YY05444		3.85	15.85	0.07	1.7	0.056	1.21	16.9	17.2	1.41	623	1.69	1.63	8.3	42.7	2180
YY05445		4.51	16.60	0.09	1.8	0.063	1.20	18.2	17.6	1.49	695	1.87	1.75	8.2	47.0	1620
YY05446		3.85	18.00	0.08	2.1	0.056	1.55	18.9	16.0	1.15	580	1.21	1.67	10.6	28.5	1360
YY05447		3.56	16.25	0.08	1.8	0.048	1.41	17.9	14.8	1.22	627	0.99	1.81	8.4	28.0	1380
YY05448		4.51	16.95	0.09	1.9	0.063	1.23	17.5	14.5	1.68	873	1.04	1.88	8.0	36.8	1510
YY05449		4.78	17.15	0.09	1.5	0.062	1.23	19.2	14.6	1.90	819	0.87	2.15	7.4	44.5	780
YY05450		4.41	16.30	0.09	1.3	0.058	1.31	19.4	13.0	1.78	858	0.87	2.25	7.0	40.4	660
YY05451		3.71	15.95	0.07	1.8	0.057	1.40	18.5	13.8	1.04	924	1.08	1.68	8.9	25.6	1620
YY05452		2.56	18.40	0.08	2.5	0.030	1.84	18.9	16.9	0.73	650	1.49	2.41	6.2	8.6	940
YY05453		4.12	16.20	0.11	2.0	0.062	1.30	18.5	16.8	1.21	1060	1.41	1.73	8.3	27.9	2130
YY05454		4.79	16.65	0.08	1.4	0.063	1.13	17.3	14.7	1.68	974	1.11	2.31	7.4	38.5	1120
YY05455		4.53	16.30	0.08	1.5	0.061	1.14	16.9	13.3	1.88	851	0.98	2.27	7.4	49.5	740
YY05456		7.83	20.3	0.12	1.6	0.105	1.39	22.1	19.6	1.36	2030	1.51	1.84	6.6	58.6	1010
YY05457		4.48	16.55	0.09	1.7	0.063	1.40	21.0	15.5	1.73	936	1.17	2.10	8.6	58.3	1140
YY05458		3.81	19.00	0.09	2.4	0.048	1.58	19.4	16.1	1.15	1080	1.48	2.34	6.6	19.4	1430
YY05459		5.36	16.90	0.09	1.7	0.069	1.02	14.9	20.3	3.59	990	0.70	2.01	6.4	93.1	1180
YY05460		4.22	14.60	0.08	1.4	0.065	1.06	19.5	16.0	1.90	1130	0.71	2.12	6.9	72.8	1920
YY05461		2.96	18.35	0.10	2.5	0.041	1.83	20.7	17.3	0.82	620	2.48	2.39	6.9	13.9	1340
YY05462		4.53	15.70	0.08	1.5	0.062	1.21	19.1	17.4	1.96	865	1.39	2.04	7.0	53.0	1260
YY05463		4.42	16.90	0.09	1.7	0.058	1.34	20.7	17.4	1.63	851	1.52	2.07	7.0	38.9	1330
YY05464		5.08	16.00	0.09	1.2	0.062	1.10	16.9	19.6	2.81	866	0.94	2.22	5.8	53.7	1070
YY05465		4.28	16.10	0.09	2.3	0.056	1.38	25.8	19.2	1.42	1020	2.03	1.88	6.9	40.4	1490
YY05466		4.23	15.75	0.09	1.9	0.062	1.24	22.7	14.5	1.40	788	1.02	1.85	8.1	33.2	1310
YY05467		5.45	15.40	0.11	1.8	0.068	1.34	30.9	21.7	1.59	1480	4.91	2.07	6.4	63.0	1100
YY05468		4.15	17.20	0.10	1.9	0.057	1.52	28.1	18.3	1.44	836	1.07	2.28	8.9	36.8	920
YY05469		4.94	18.55	0.09	1.6	0.068	1.39	22.9	22.4	1.79	1020	1.16	1.79	8.0	59.2	890
YY05470		4.42	16.20	0.09	1.6	0.057	1.34	19.9	17.4	1.63	827	1.09	2.06	7.8	52.4	790
YY05471		4.41	16.15	0.09	1.4	0.060	1.58	23.1	16.5	1.44	959	1.23	2.02	7.9	55.2	600
YY05472		4.07	15.25	0.09	1.4	0.056	1.34	21.9	17.9	1.75	943	0.86	2.01	7.4	47.9	1040
YY05473		3.93	14.50	0.08	1.5	0.056	1.17	18.2	16.7	1.35	1040	1.03	1.69	7.4	36.2	1960
YY05474		4.21	16.25	0.11	2.0	0.061	1.45	27.1	17.7	1.33	1040	0.87	2.03	8.4	42.6	1180
YY05475		4.34	16.55	0.10	1.6	0.057	1.29	22.3	19.0	1.67	809	1.55	1.95	7.0	46.4	1300
YY05476		5.22	16.15	0.10	1.6	0.075	1.24	20.1	21.1	1.87	1400	2.51	1.65	6.1	63.1	1610
YY05477		3.68	15.35	0.10	1.3	0.051	1.53	23.5	16.0	1.60	880	0.99	2.17	7.7	68.6	570
YY05478		3.48	15.95	0.09	1.9	0.049	1.47	19.2	17.3	1.15	594	1.04	1.83	10.1	40.6	1110
YY05479		3.88	15.10	0.09	1.5	0.054	1.20	18.9	16.7	1.31	697	1.41	1.91	7.0	38.2	1370
YY05480		3.95	14.60	0.15	1.4	0.052	1.33	20.4	17.6	1.39	697	1.29	1.90	8.0	40.3	860
YY05481		3.38	15.20	0.16	2.0	0.042	1.66	21.3	15.3	0.89	548	1.51	2.14	7.9	16.6	960
YY05482		2.99	13.85	0.15	1.6	0.040	1.36	17.3	11.0	0.72	660	1.50	1.51	9.2	18.1	2200



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
YY05443		13.7	50.2	<0.002	0.05	1.04	21.8	1	1.3	223	0.65	0.11	5.23	0.502	0.45	1.7
YY05444		14.8	48.6	<0.002	0.09	0.96	17.3	1	1.2	225	0.59	0.05	5.47	0.408	0.42	2.0
YY05445		14.5	47.4	<0.002	0.07	1.43	18.4	1	1.2	240	0.59	0.05	5.20	0.435	0.40	1.9
YY05446		15.8	60.8	<0.002	0.05	1.07	14.3	1	1.5	245	0.77	<0.05	6.53	0.422	0.49	2.4
YY05447		13.5	53.8	<0.002	0.06	0.88	14.3	1	1.3	267	0.60	<0.05	5.25	0.413	0.41	1.8
YY05448		15.2	49.1	<0.002	0.06	0.93	19.9	1	1.2	235	0.57	0.09	4.84	0.497	0.42	1.6
YY05449		15.2	47.3	<0.002	0.03	0.95	23.3	1	1.2	256	0.53	0.11	5.01	0.538	0.35	1.5
YY05450		15.9	48.8	<0.002	0.02	0.96	22.0	1	1.1	277	0.51	0.10	4.93	0.510	0.39	1.5
YY05451		15.3	58.8	<0.002	0.07	1.01	14.1	1	1.2	244	0.65	0.07	5.35	0.416	0.36	1.9
YY05452		9.0	47.6	<0.002	0.06	0.51	7.2	1	0.8	553	0.44	<0.05	5.16	0.298	0.27	2.0
YY05453		19.2	46.8	<0.002	0.10	0.94	16.2	1	1.2	254	0.58	0.08	5.49	0.408	0.37	2.0
YY05454		12.9	40.6	<0.002	0.04	0.95	22.1	1	1.1	291	0.51	0.08	4.05	0.541	0.33	1.5
YY05455		14.6	42.2	<0.002	0.04	0.94	22.6	1	1.1	275	0.55	0.10	4.13	0.512	0.32	1.4
YY05456		14.9	53.1	<0.002	0.03	2.78	40.8	1	1.2	213	0.47	0.11	4.15	0.696	0.45	1.6
YY05457		14.8	52.2	<0.002	0.04	1.25	21.6	1	1.2	289	0.59	0.08	5.88	0.466	0.41	2.0
YY05458		10.0	43.5	<0.002	0.06	0.66	12.2	1	1.0	546	0.46	<0.05	4.90	0.434	0.29	1.9
YY05459		8.7	34.0	<0.002	0.05	0.83	30.1	1	1.1	233	0.45	<0.05	4.04	0.507	0.29	1.6
YY05460		10.2	37.6	<0.002	0.11	0.81	30.8	1	1.0	224	0.49	<0.05	4.67	0.418	0.28	1.6
YY05461		9.8	49.8	<0.002	0.06	0.66	9.7	1	0.9	526	0.49	<0.05	5.28	0.339	0.29	2.0
YY05462		10.2	43.4	<0.002	0.06	1.17	26.2	1	1.1	281	0.49	<0.05	5.24	0.437	0.35	1.7
YY05463		11.6	46.3	<0.002	0.07	1.23	22.3	1	1.1	349	0.49	<0.05	5.77	0.423	0.35	1.9
YY05464		8.8	32.9	<0.002	0.05	0.94	29.5	1	0.9	314	0.39	<0.05	4.30	0.417	0.29	1.6
YY05465		13.3	48.6	<0.002	0.09	1.62	21.8	1	1.1	301	0.49	0.05	6.33	0.369	0.40	2.8
YY05466		14.0	47.7	<0.002	0.07	0.99	18.4	1	1.2	297	0.58	0.05	5.97	0.477	0.39	2.0
YY05467		14.1	45.0	<0.002	0.03	3.17	27.7	3	1.0	311	0.50	0.08	5.64	0.354	0.50	2.6
YY05468		13.8	53.6	<0.002	0.03	1.21	19.9	1	1.3	342	0.64	<0.05	6.78	0.461	0.41	2.2
YY05469		17.8	59.9	<0.002	0.04	1.35	23.1	1	1.3	261	0.59	0.08	7.15	0.426	0.51	1.9
YY05470		14.8	48.4	<0.002	0.04	1.13	18.3	1	1.2	292	0.58	0.05	5.41	0.455	0.38	1.6
YY05471		17.0	55.1	<0.002	0.03	1.99	20.6	1	1.2	297	0.59	<0.05	5.75	0.431	0.42	1.7
YY05472		12.1	50.0	<0.002	0.05	1.08	21.4	1	1.2	290	0.53	<0.05	5.41	0.392	0.36	1.7
YY05473		14.9	47.2	<0.002	0.11	1.03	18.7	1	1.1	263	0.51	0.05	5.16	0.394	0.36	1.7
YY05474		15.0	54.3	<0.002	0.05	1.24	23.6	1	1.2	320	0.61	<0.05	6.62	0.406	0.39	2.2
YY05475		10.9	45.8	<0.002	0.07	1.29	21.9	1	1.0	358	0.49	<0.05	5.12	0.392	0.43	2.0
YY05476		14.7	51.2	<0.002	0.09	1.79	26.7	2	1.0	270	0.40	0.05	4.95	0.385	0.45	2.0
YY05477		13.8	57.8	<0.002	0.02	1.39	18.1	1	1.1	320	0.53	0.06	5.86	0.370	0.44	1.6
YY05478		14.0	57.2	<0.002	0.06	1.15	13.6	1	1.4	273	0.73	<0.05	6.10	0.382	0.44	2.0
YY05479		11.3	44.0	<0.002	0.07	1.34	17.3	1	1.1	313	0.48	<0.05	4.90	0.375	0.42	1.7
YY05480		12.3	47.1	<0.002	0.04	1.30	16.5	1	1.1	299	0.52	0.05	5.22	0.382	0.40	1.6
YY05481		10.9	45.4	<0.002	0.04	1.12	11.6	1	1.0	407	0.54	<0.05	5.26	0.374	0.32	2.2
YY05482		11.3	51.1	<0.002	0.08	1.24	12.0	1	1.3	231	0.64	0.05	4.80	0.350	0.47	1.8



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5
YY05443		154	2.8	16.5	72	59.5
YY05444		129	1.9	13.5	94	50.9
YY05445		147	2.0	15.9	86	57.5
YY05446		122	1.6	12.8	70	81.1
YY05447		119	1.8	12.5	63	56.3
YY05448		159	3.0	17.3	71	56.0
YY05449		169	3.1	19.6	76	45.2
YY05450		159	3.5	18.0	72	40.0
YY05451		117	2.2	13.9	74	58.1
YY05452		66	0.7	9.9	59	83.1
YY05453		129	1.9	15.7	96	58.8
YY05454		162	2.8	17.7	73	48.3
YY05455		163	2.6	16.7	70	58.0
YY05456		251	11.6	41.3	119	45.8
YY05457		154	2.1	20.5	86	51.3
YY05458		118	0.9	13.3	70	76.8
YY05459		193	1.1	19.3	81	49.3
YY05460		158	1.1	25.5	81	40.7
YY05461		81	0.9	13.1	65	81.9
YY05462		169	1.5	19.2	91	44.1
YY05463		153	1.3	17.1	85	53.9
YY05464		198	1.3	20.2	87	40.4
YY05465		157	1.7	26.8	95	65.2
YY05466		145	6.3	19.2	74	58.5
YY05467		239	2.6	36.5	151	53.8
YY05468		142	1.9	20.0	89	55.9
YY05469		161	1.7	21.6	96	47.7
YY05470		145	1.6	15.8	72	47.4
YY05471		146	5.0	18.2	84	43.5
YY05472		134	1.5	20.9	65	40.8
YY05473		129	1.6	18.7	76	47.6
YY05474		146	2.1	31.4	81	59.0
YY05475		160	1.4	24.0	91	54.9
YY05476		201	2.4	26.5	154	51.7
YY05477		123	2.6	20.5	73	43.1
YY05478		113	1.3	14.4	60	64.4
YY05479		139	1.3	14.3	75	47.9
YY05480		143	1.3	14.8	85	46.8
YY05481		103	3.1	13.0	73	77.2
YY05482		109	1.4	11.5	54	68.3



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY05483		0.43	0.008	0.12	6.77	14.2	870	1.17	0.16	1.29	0.21	36.5	10.7	91	3.59	28.1
YY05484		0.35	0.009	0.11	7.06	23.2	830	1.09	0.14	1.47	0.63	46.5	16.2	107	3.35	37.1
YY05485		0.20	<0.001	0.08	5.97	7.6	850	1.11	0.26	1.07	0.25	31.3	12.4	86	4.34	24.6
YY05486		0.31	0.006	0.09	6.38	9.0	890	1.02	0.20	1.35	0.16	36.8	10.3	83	3.44	26.5
YY05487		0.25	0.002	0.09	5.33	7.4	830	0.95	0.19	1.07	0.16	30.7	10.1	69	3.26	22.1
YY05488		0.31	0.001	0.06	6.36	8.9	870	1.10	0.16	1.27	0.22	34.1	10.5	81	2.60	22.3
YY05489		0.28	0.002	0.11	5.90	9.2	770	1.05	0.23	1.06	0.27	33.0	10.0	77	3.13	28.2
YY05490		0.24	0.003	0.05	6.21	10.0	850	1.09	0.18	1.15	0.29	36.4	10.5	89	3.48	24.9
YY05491		0.36	0.010	0.20	7.10	16.5	730	1.01	0.16	1.52	0.40	41.9	19.4	124	3.55	51.6
YY05492		0.31	0.012	0.18	7.05	16.3	740	0.98	0.16	1.61	0.53	45.3	21.1	131	3.19	55.2
YY05493		0.27	0.004	0.22	7.08	15.6	770	1.04	0.15	1.64	0.56	43.1	19.4	129	3.33	49.9
YY05494		0.28	<0.001	0.10	6.41	7.5	830	1.20	0.22	1.08	0.19	35.2	11.1	91	3.16	23.6
YY05495		0.34	<0.001	0.13	6.82	8.5	920	1.31	0.24	1.10	0.17	44.4	11.3	88	3.51	34.0
YY05496		0.18	0.001	0.26	7.05	4.3	730	1.05	0.26	2.14	0.10	35.2	12.8	56	2.11	21.7
YY05497		0.34	0.001	0.26	6.73	7.4	860	1.16	0.40	1.22	0.22	37.6	11.3	82	3.56	30.1
YY05498		0.30	<0.001	0.10	6.02	8.1	830	1.01	0.58	1.12	0.34	32.7	14.7	87	3.61	25.5
YY05499		0.29	0.001	0.20	6.41	6.0	800	1.09	0.27	1.24	0.30	33.9	11.9	73	2.76	24.0
YY05500		0.23	0.003	0.16	7.27	16.0	820	1.13	0.14	1.40	0.18	30.1	22.5	105	5.32	58.8



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		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY05483		3.60	15.05	0.17	1.7	0.047	1.44	18.7	16.6	1.12	519	1.24	1.73	8.4	27.3	1410
YY05484		4.13	14.55	0.18	1.5	0.050	1.50	22.8	16.4	1.19	690	2.85	1.90	8.1	38.0	1090
YY05485		3.66	14.75	0.15	1.6	0.044	1.35	15.4	12.7	1.06	835	1.05	1.53	8.7	23.0	1960
YY05486		3.37	15.00	0.16	1.8	0.047	1.45	18.9	13.7	1.06	607	1.11	1.72	9.1	24.5	1590
YY05487		2.95	13.20	0.15	1.5	0.037	1.37	15.5	9.7	0.65	1130	1.36	1.52	8.1	16.0	1930
YY05488		3.26	14.35	0.15	1.6	0.045	1.39	17.2	12.2	0.88	725	1.26	1.71	8.7	20.9	1770
YY05489		3.36	14.15	0.16	1.8	0.044	1.29	16.5	12.8	0.90	657	1.47	1.52	8.3	21.8	1760
YY05490		3.45	14.30	0.16	1.6	0.049	1.40	18.5	13.4	0.91	685	1.30	1.60	9.7	23.1	1670
YY05491		4.37	14.65	0.17	1.4	0.052	1.24	20.6	17.0	1.88	811	1.83	2.20	7.1	43.2	1060
YY05492		4.68	14.50	0.17	1.2	0.054	1.24	23.4	16.1	1.95	877	2.50	2.27	6.9	50.5	1020
YY05493		4.40	14.70	0.19	1.6	0.051	1.30	22.0	16.2	1.86	858	2.35	2.28	7.3	47.0	940
YY05494		3.63	15.15	0.15	1.7	0.047	1.33	18.5	14.7	1.18	530	0.94	1.50	9.6	28.1	1510
YY05495		3.58	15.50	0.18	1.6	0.051	1.37	22.1	16.9	1.13	479	0.89	1.53	9.4	33.3	1740
YY05496		3.69	18.25	0.18	1.9	0.040	1.41	17.6	15.2	1.31	507	0.99	2.23	7.6	22.4	1580
YY05497		3.50	16.50	0.17	1.8	0.045	1.47	19.5	16.0	1.16	575	1.17	1.88	8.8	25.0	1400
YY05498		4.09	16.40	0.17	1.6	0.049	1.39	16.4	12.8	1.15	1040	1.16	1.66	9.0	25.2	1620
YY05499		3.36	15.15	0.17	2.0	0.041	1.46	17.5	14.9	1.03	806	1.13	1.79	7.9	23.5	1600
YY05500		5.51	19.30	0.16	1.3	0.066	1.25	15.2	17.2	2.10	1050	0.82	1.70	7.2	47.2	970



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Project: HARTLESS JOE

CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
YY05483		11.2	50.5	<0.002	0.06	1.31	14.7	1	1.1	263	0.58	0.05	5.29	0.383	0.43	1.9
YY05484		11.3	50.8	<0.002	0.04	2.01	17.0	2	1.1	282	0.53	<0.05	5.59	0.396	0.42	1.9
YY05485		13.3	56.6	<0.002	0.08	0.96	13.9	1	1.2	213	0.58	0.07	4.81	0.394	0.39	1.7
YY05486		12.1	55.2	<0.002	0.07	1.12	13.9	1	1.2	266	0.60	0.06	5.47	0.401	0.41	2.0
YY05487		12.3	53.9	<0.002	0.10	1.03	10.7	1	1.1	241	0.54	<0.05	4.31	0.345	0.36	1.7
YY05488		11.6	49.2	<0.002	0.06	1.16	12.8	1	1.2	259	0.59	<0.05	4.47	0.383	0.41	1.6
YY05489		11.5	48.1	<0.002	0.08	1.05	13.0	1	1.1	227	0.56	<0.05	4.82	0.367	0.39	1.8
YY05490		11.8	51.8	<0.002	0.06	1.15	13.5	1	1.2	233	0.64	0.05	5.27	0.383	0.40	1.8
YY05491		10.2	37.2	<0.002	0.04	1.38	21.6	1	1.0	298	0.46	0.06	5.11	0.433	0.36	1.7
YY05492		9.7	35.4	<0.002	0.03	1.70	21.6	2	1.0	304	0.47	0.06	5.19	0.455	0.32	1.6
YY05493		9.9	40.0	<0.002	0.03	1.43	21.3	2	1.0	312	0.48	0.06	5.09	0.440	0.35	1.7
YY05494		11.8	51.5	<0.002	0.06	0.94	14.3	1	1.2	210	0.64	<0.05	5.36	0.409	0.42	1.8
YY05495		12.4	52.9	<0.002	0.07	0.99	15.2	1	1.3	225	0.63	<0.05	6.18	0.364	0.48	2.0
YY05496		9.2	40.2	<0.002	0.06	0.65	13.6	1	1.0	505	0.48	<0.05	4.36	0.490	0.29	1.6
YY05497		11.8	53.8	<0.002	0.05	0.92	14.9	1	1.2	271	0.57	0.07	5.50	0.405	0.42	1.8
YY05498		12.5	59.2	<0.002	0.06	1.00	14.8	1	1.2	219	0.60	0.12	5.16	0.454	0.40	1.6
YY05499		10.4	55.4	<0.002	0.06	0.85	12.5	1	1.0	291	0.53	0.05	4.80	0.377	0.35	1.7
YY05500		14.4	42.5	<0.002	0.04	1.94	21.9	1	1.1	210	0.45	0.06	4.34	0.501	0.39	1.3



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CERTIFICATE OF ANALYSIS WH18166131

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
YY05483		128	1.7	13.2	72	59.2
YY05484		173	1.7	15.3	114	58.2
YY05485		124	1.9	12.4	68	52.8
YY05486		119	1.6	13.7	63	60.1
YY05487		109	1.2	10.1	53	53.4
YY05488		113	1.4	12.1	53	56.2
YY05489		106	1.3	13.9	61	53.9
YY05490		110	1.4	14.7	61	55.6
YY05491		171	1.6	18.1	87	46.9
YY05492		176	1.4	20.2	94	40.8
YY05493		171	1.5	18.8	94	44.9
YY05494		115	1.5	14.7	63	55.4
YY05495		108	1.4	19.5	69	56.4
YY05496		121	1.5	12.0	65	63.2
YY05497		114	2.1	13.2	69	65.3
YY05498		129	2.7	12.3	82	58.7
YY05499		103	1.5	11.8	69	62.0
YY05500		193	2.0	17.3	86	46.3



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CERTIFICATE OF ANALYSIS WH18166131

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

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

LABORATORY ADDRESSES

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

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