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ASSESSMENT REPORT

describing

SOIL AND ROCK GEOCHEMICAL SAMPLING AND DRILL PAD CONSTRUCTION

at the

HARTLESS JOE PROPERTY

Hart 1	YC26563
Hart 2-4	YC30012-YC30014
Hart 5-28	YC37057-YC37080
Hart 29-40	YD35289-YD35300
Joe 1-10	YC37091-YC37100
Joe 11-12	YC98499-YC98500
Les 1-10	YC37081-YC37090

NTS 105D/15

Latitude 60°55'N; Longitude 134°50'W

Field work performed on August 24, 30 and 31 and September 11 and 15, 2012

located in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

S. Drechsler, B.Sc. Geology, P.Geo.

January 2013

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INTRODUCTION

The Hartless Joe property covers epithermal gold-silver mineralization, mostly hosted in quartz-healed veins and breccia structures. The property is located in south-central Yukon and is wholly owned by Strategic Metals Ltd.

This report describes soil and rock geochemical sampling and drill pad construction performed on August 24, 30 and 31 and September 11 and 15, 2012 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The author interpreted all results from this program. Appendix I contains the author's Statement of Qualifications.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Hartless Joe property comprises 62 contiguous quartz claims, which are 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 1250 ha (12.5 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, 2023
Hart 2-4	YC30012-YC30014	March 1, 2023
Hart 5-28	YC37057-YC37080	March 1, 2023
Hart 29-40	YD35289-YD35300	March 1, 2020
Joe 1-10	YC37091-YC37100	March 1, 2023
Joe 11-12	YC98499-YC98500	March 1, 2018
Les 1-10	YC37081-YC37090	March 1, 2023

* Expiry dates include 2012 work which has been filed for assessment credit but not yet accepted.

In 2012, daily access to and from the property was provided by a Bell 206B Jet Ranger helicopter operated by Capital Helicopters (1995) Inc. from its base at the Whitehorse airport, which is located 28 km to the southwest. The property is not directly road accessible. The closest ground access is an old bulldozer trail, which truncates about 20 km south of the property.

HISTORY AND PREVIOUS WORK

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

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FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

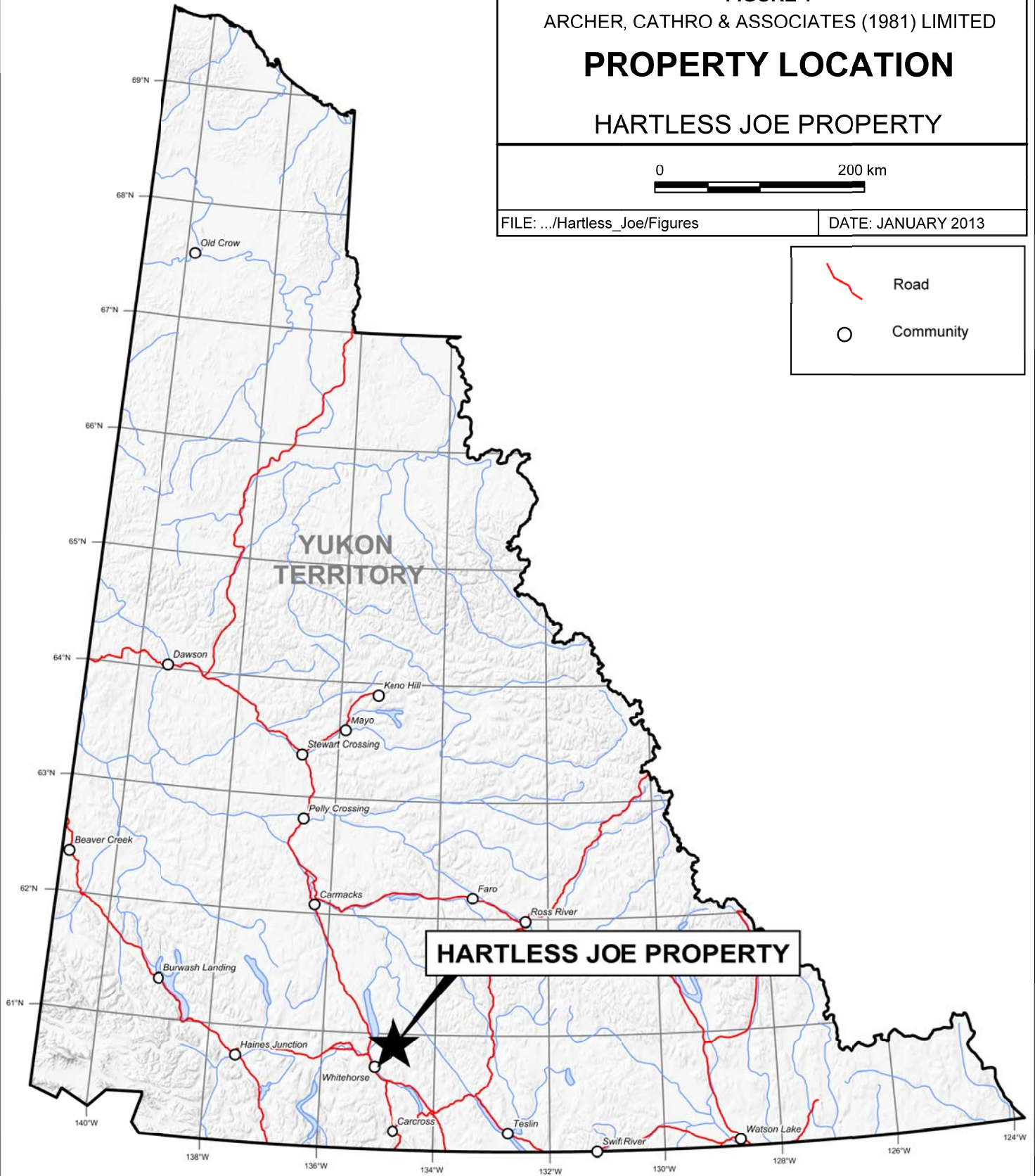
HARTLESS JOE PROPERTY

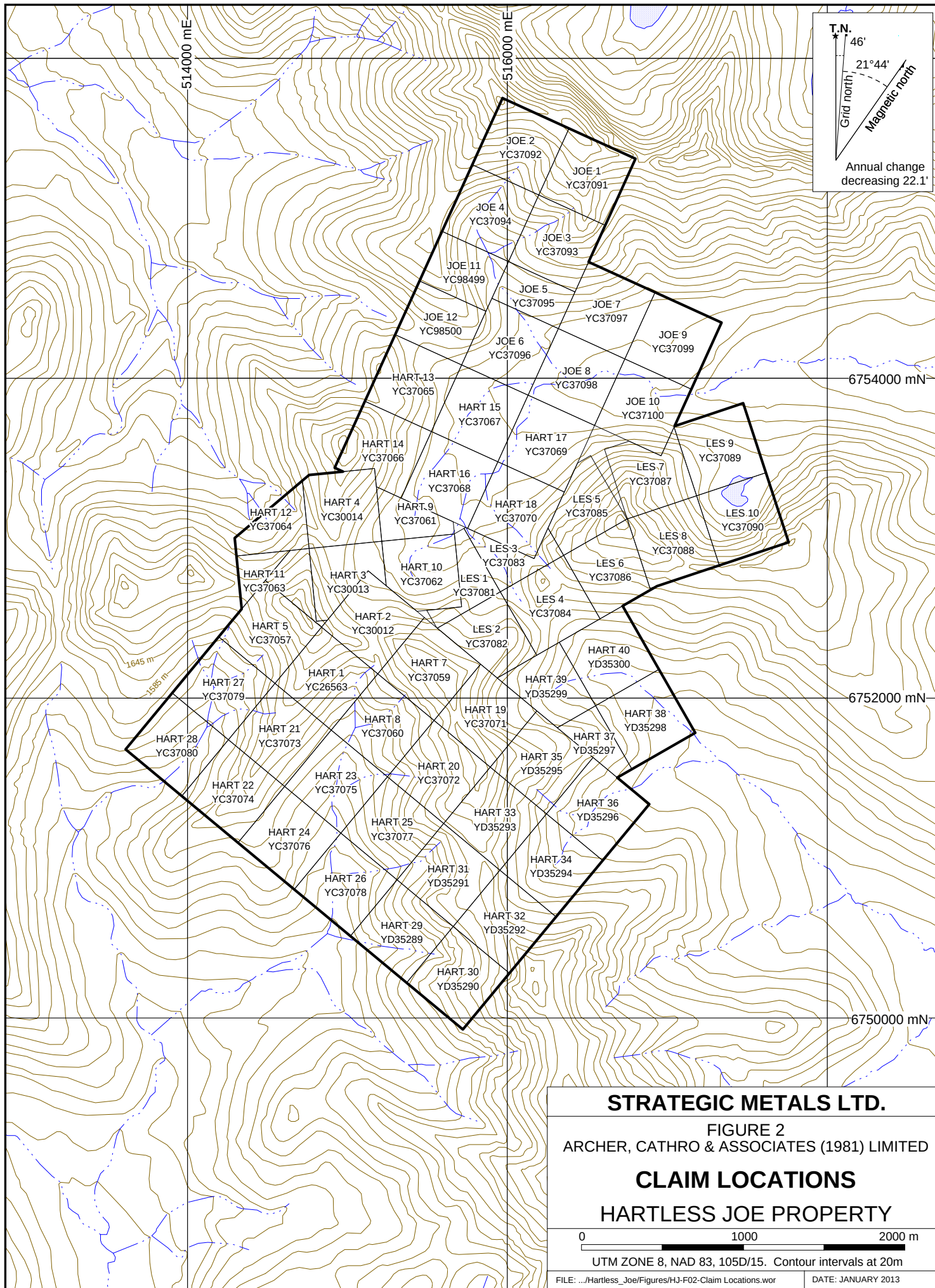
0 200 km

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DATE: JANUARY 2013

 Road
 Community





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

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

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

In 1997, C. Hart discovered the Grumpy Showing while conducting 1:50,000 scale geological mapping on behalf of the Yukon Geological Survey (YGS). This showing is located about 2000 m southwest of 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 reportedly restaked Ace Showing as the KC 1 to 6 claims, but no work was filed and the claims were allowed to expire (Deklerk and Traynor, 2005).

In February 2004, prospector R. Hamel staked the Hart 1 claim to cover Grumpy Showing. ATAC Resources Ltd. purchased Hamel's claim in August 2004 and conducted cursory prospecting and soil geochemical sampling in the vicinity of the showing that fall. This work identified talus fragments of quartz vein with modest amounts of galena, sphalerite, arsenopyrite and pyrite. Samples of mineralized vein material assayed from 1.0 to 251.0 g/t gold and 13.5 to 4540.0 g/t silver. Following this discovery, ATAC staked additional claims (Wengzynowski, 2005).

In July 2005, ATAC continued to explore its claim block with contour-and grid-controlled soil geochemical sampling, prospecting and mapping. This work better defined mineralization at Ace and Grumpy showings, discovered additional showings and partially delineated several geochemical anomalies (Wengzynowski, 2005).

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

In summer 2007, ATAC resumed exploration with a three phase program consisting of 1) additional prospecting and soil geochemistry, 2) helicopter-borne variable-time domain electromagnetic (VTEM) and magnetic surveys, and 3) reconnaissance-scale induced polarization (IP) and resistivity surveys (S. Eaton, 2008).

In March 2008, Ferus Resources Ltd. optioned the Hartless Joe property from ATAC and, that summer, completed 612.2 m of diamond drilling in three holes (D. Eaton, 2008 and Wengzynowski, 2008). Diamond drilling tested previously identified geochemical and geophysical anomalies (see Diamond Drilling section for results). In January 2009, the option was dropped.

In January 2010, Strategic Metals bought the 42 claims comprising the Hartless Joe property from ATAC. That fall, Strategic Metals staked 12 additional Hart claims adjoining the property.

In 2012, Strategic Metals staked the Joe 11 and 12 claims in conjunction with the exploration program described in this report.

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 southwesterly into the M'Clintock and Yukon rivers and, ultimately, into the Pacific Ocean. There is abundant water for camp and diamond drilling purposes on the property.

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

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

REGIONAL GEOLOGY

In 1961, the GSC published a geological map of the Whitehorse area (NTS 105D) at a 1:253,400 scale (Wheeler, 1961). In 1994, the map sheet (NTS 105D/15) containing the property was mapped at 1:50,000 scale by the YGS (Hart and Hunt, 1997 and Hart, 1997) and in 2005, the YGS released a paper on reconnaissance geological and geochemical studies of the Joe Mountain Formation within the same map sheet (Piercey, 2005). The YGS maintains a website that updates Yukon geology as new data becomes available. The following descriptions are based on the YGS's work in the area.

The Hartless Joe property lies in the northern portion of Stikinia Terrane (Figure 3), the largest of the accreted Cordilleran terranes. In southern Yukon, this terrane is 80 km across and comprises four tectonic elements: Paleozoic Stikine Assemblage, Mid-Triassic Joe Mountain volcanic complex, Upper Triassic Lewes River Arc, and Upper Triassic to Mid-Jurassic Whitehorse Trough Supergroup (Hart, 1997).

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

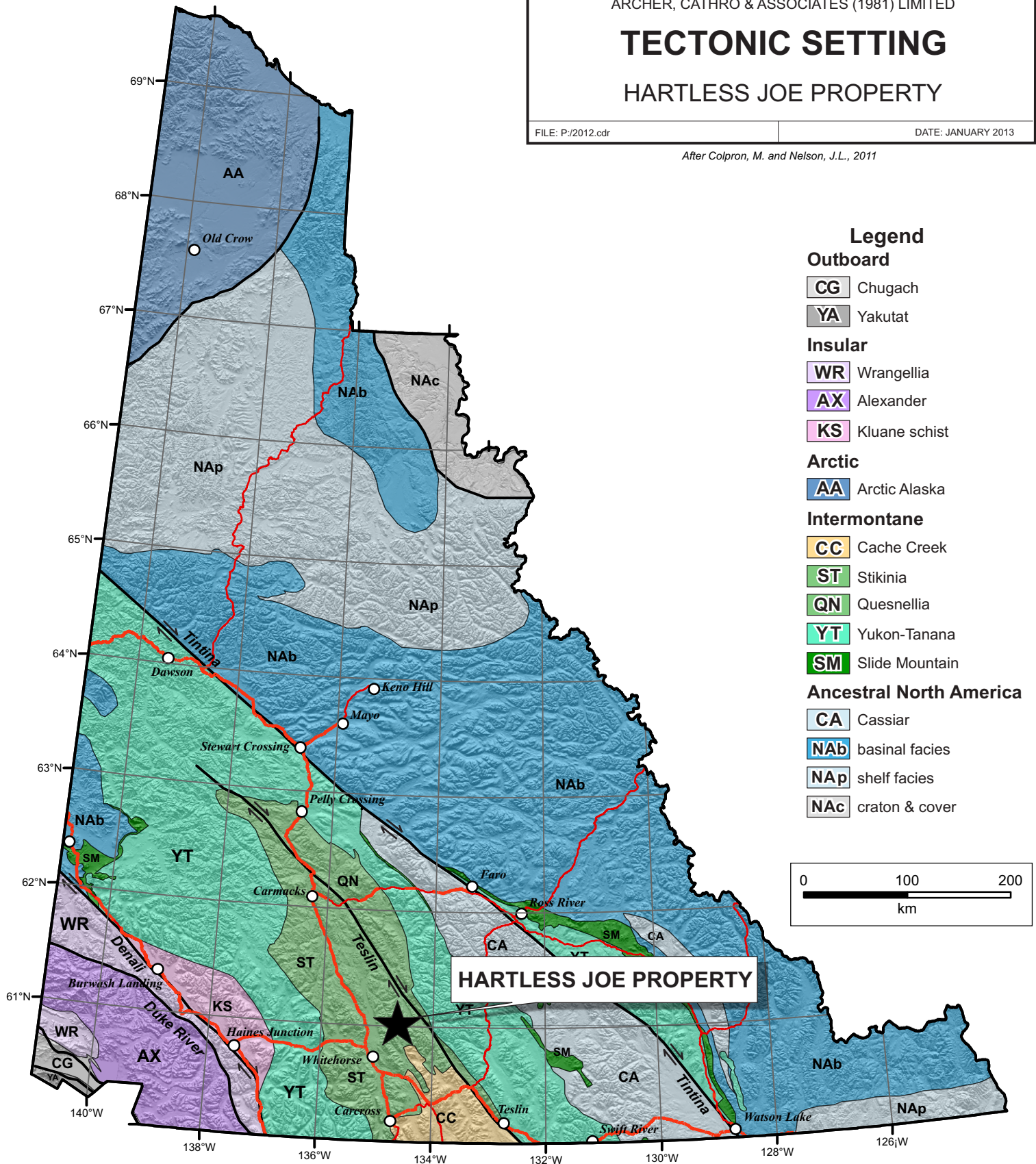
TECTONIC SETTING

HARTLESS JOE PROPERTY

FILE: P:/2012.cdr

DATE: JANUARY 2013

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



Basal strata in the vicinity of the property comprise mafic volcanic rocks of Joe Mountain Formation (Figure 4), which is part of the 40 by 20 km Joe Mountain volcanic complex. Overlying this basement are sedimentary rocks of the Whitehorse Trough Supergroup. The trough was a fault-bounded, marginal basin that formed off the west coast of North America and filled with up to seven kilometres of largely arc-derived clastic rocks. Units comprising the Whitehorse Trough Supergroup extend over a strike length of 600 km, spanning the area between Carmacks, Yukon and Dease Lake, British Columbia. The Whitehorse Trough Supergroup is divided into two main stratigraphic components: Upper Triassic Aksala Formation (part of the Lewes River Group) and Upper Triassic to Middle Jurassic formations of the Laberge Group (Hart, 1997). Locally, Aksala Formation overlies Joe Mountain Formation.

Three large Mid-Cretaceous plutons are located near the claim block. The M'Clintock River and M'Clintock Lakes plutons, which belong to the Teslin Plutonic Suite, lie approximately three kilometres to the north and east of the Hartless Joe property, respectively. The Cap Creek Pluton, which belongs to the Whitehorse Plutonic Suite, lies about four kilometres to the west-southwest of the claim block. Narrow felsic dykes of uncertain affinity locally intrude the volcanics and sediments throughout the area.

An extensive system of imbricate faults and fault arrays are also mapped in the area. Smaller scale, north- and northeast-trending fault arrays horsetail from the main fault structures.

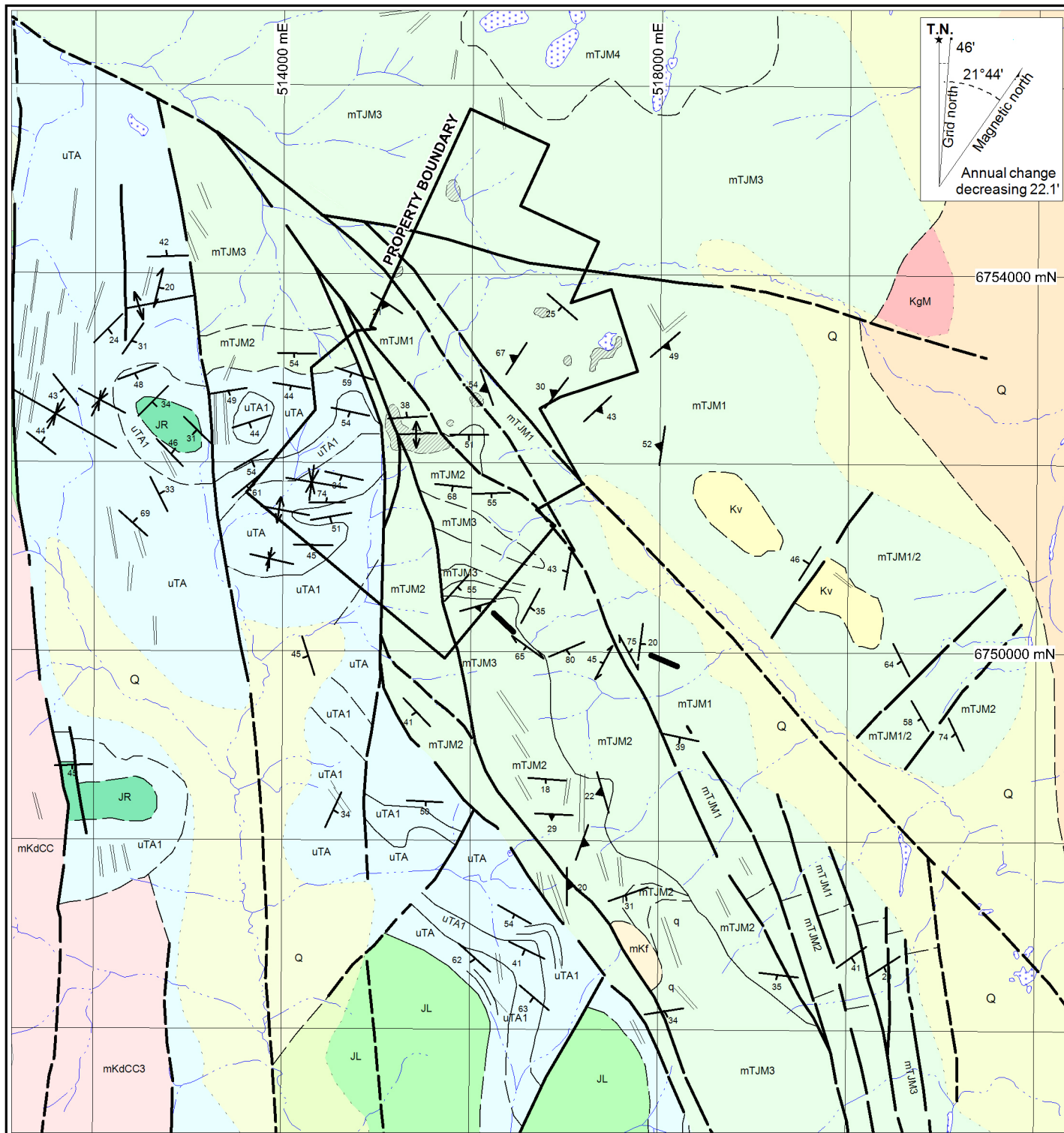
PROPERTY GEOLOGY

No geological mapping has been performed on the property by Strategic Metals or the preceding junior mining companies. The only known mapping was done by the YGS and, as such, the following descriptions are based on its publications (Hart, 1997; Hart and Hunt, 1997 and Piercey, 2005).

The Hartless Joe property is largely underlain by Joe Mountain Formation volcanics. Aksala Formation sediments are found within the southwestern portion of the claim block.

The youngest of the formational units mapped on the claims are the undifferentiated Aksala Formation (uTA) and the Hancock Member (uTA₁), a distinct limey section of the Aksala Formation. Aksala Formation strata are lithologically variable and in this area comprise various sedimentary rocks including limey siltstone, siltstone, shale, sandstone, conglomerate, hornfels and diamictite, all locally with limestone. The Hancock Member of the Aksala Formation consists of: white weathering, resistant, massive to poorly bedded bioclastic and micritic limestone, marble and skarn; and recessive, flaggy, dark grey limestone and sandy limestone. These rocks conformably overlie Joe Mountain Formation or are juxtaposed against it by a series of imbricate faults.

Joe Mountain Formation is 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. These units are described in more detail in the following paragraphs.



Quaternary

Q Quaternary: Unconsolidated silt, sand and gravel of glacial, fluvial and lacustrine origins.

Mid-Cretaceous

Kv Byng Volcanics: Quartz-eye rhyolite and dacite flows, tuffs, breccias.
 Rhyolite, alaskite, felsite, quartz-feldspar porphyry dykes.

mKdCC Whitehorse Suite (Cap Creek Pluton): Medium grained, equigranular biotite-hornblende granodiorite.
 3) Blocky weathering, coarse grained, hornblende diorite.
mKf Feldspar ± hornblende ± quartz-phyric, siliceous, felsite dykes and plugs.

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

KgM Teslin Suite (M'Clintock Granodiorite): Biotite-hornblende granodiorite

Lower to Middle Jurassic

JL Laberge Group: Recessive, sedimentary rocks including siltstone, sandstone, greywacke, interbedded silt and sandstone couplets, and hornfels; with rare, usually solitary, conglomerate and limestone beds. Similar to and may include uTA.

JR Richthofen Fmtn, Laberge Gr: Turbiditic mudstone and sandstone.

Upper Triassic

uTA Upper Triassic Aksala Formation (Lewes River Group): Undifferentiated sedimentary rocks including limy siltstone, siltstone, shale, sandstone, conglomerate, hornfels and diamictite; all locally with limestone. Very similar to JL.
 1) Hancock Member: resistant, massive to poorly bedded, bioclastic and micritic limestone, marble and skarn.

Middle Triassic

mTJM Middle Triassic - Joe Mountain Volcanic Suite: Pillowed andesite lava and massive microdiorite.
 1) Pillowed basalts
 2) Chaotic assemblage of volcanoclastic and sedimentary rocks
 3) Pillowed basalts, minor diabase
 4) Cumulate gabbro, pyroxenite, anorthosite and diorite
 Magnetic, basaltic andesite and gabbro dykes.

Bedding (strike and dip) Showing
 Schistosity or shear zone q Quartz vein
 Flow surface
 Geological contact (defined, approximate/inferred)
 Fault (defined, approximate/inferred)

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FIGURE 4
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GEOLOGY HARTLESS JOE PROPERTY

0 1000 2000 m

UTM ZONE 8, NAD 83, 105D/15. Contour intervals at 20m

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Unit mTJM₁ is the basal sequence and consists of black-weathering, fine-grained, aphyric, pillowed basalt flows with calcite veining and weak but pervasive chloritic alteration.

Unit mTJM₂ consists of a chaotic assemblage of recessive-weathering, volcanogenic sandstone, siltstone, shale and gritty sandstone. It includes limestone or limy beds, and resistant, dark-weathering, chaotic and massive to poorly bedded, heterolithic diamictite, conglomerate and fragmental or gritty sedimentary rocks.

Unit mTJM₃ is dominated by dark grey-weathering, generally unaltered, fine grained, and feldspar and pyroxene-phyric, pillowed basalt flows and massive microdiorite. It is locally interbedded with mTJM₂.

Unit mTJM₄ is a dark-weathering, massive, variably textured, coarse-grained and locally pegmatitic, pyroxene gabbro and diorite. The main style of alteration within mTJM₄ features veinlets of calcite, epidote and quartz accompanied by replacement of pyroxene with chlorite and actinolite (Piercey, 2005).

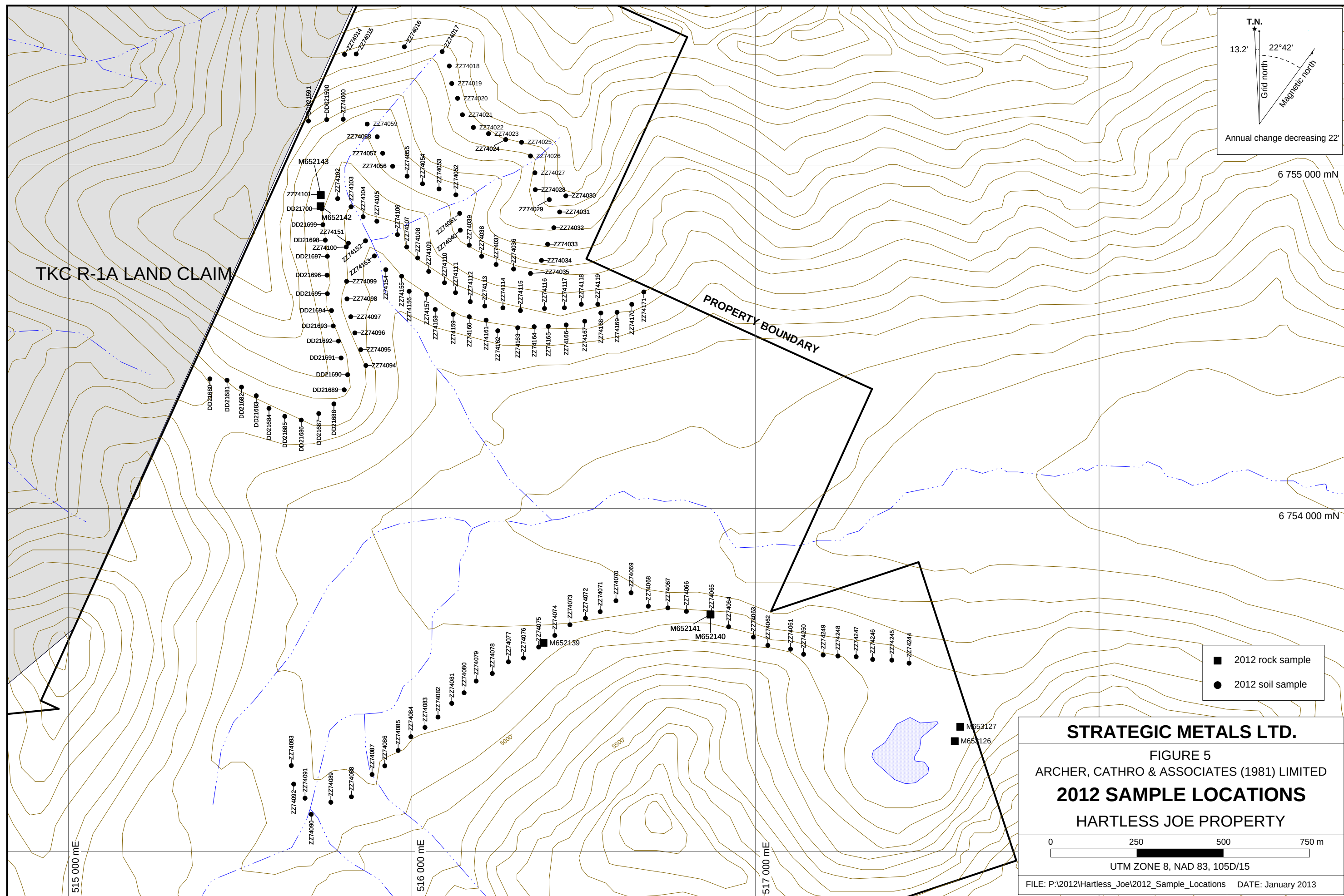
The property is bisected by a number of northwest trending, arcuate, large-scale faults that coincide with mildly to moderately recessive topographic linears. The magnitude of displacement and direction of movement along the faults are unknown at this time. Some of the faults acted as conduits for the emplacement of narrow intrusive dykes. Air photo and land satellite imagery suggest there may be deep-seated ring structures immediately northwest of the claim block, from which the northwest trending faults are emanating. A series of easterly trending antiforms and synforms occur within Aksala Formation and Joe Mountain Formation rocks in the southwestern portion of the property.

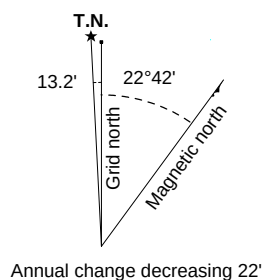
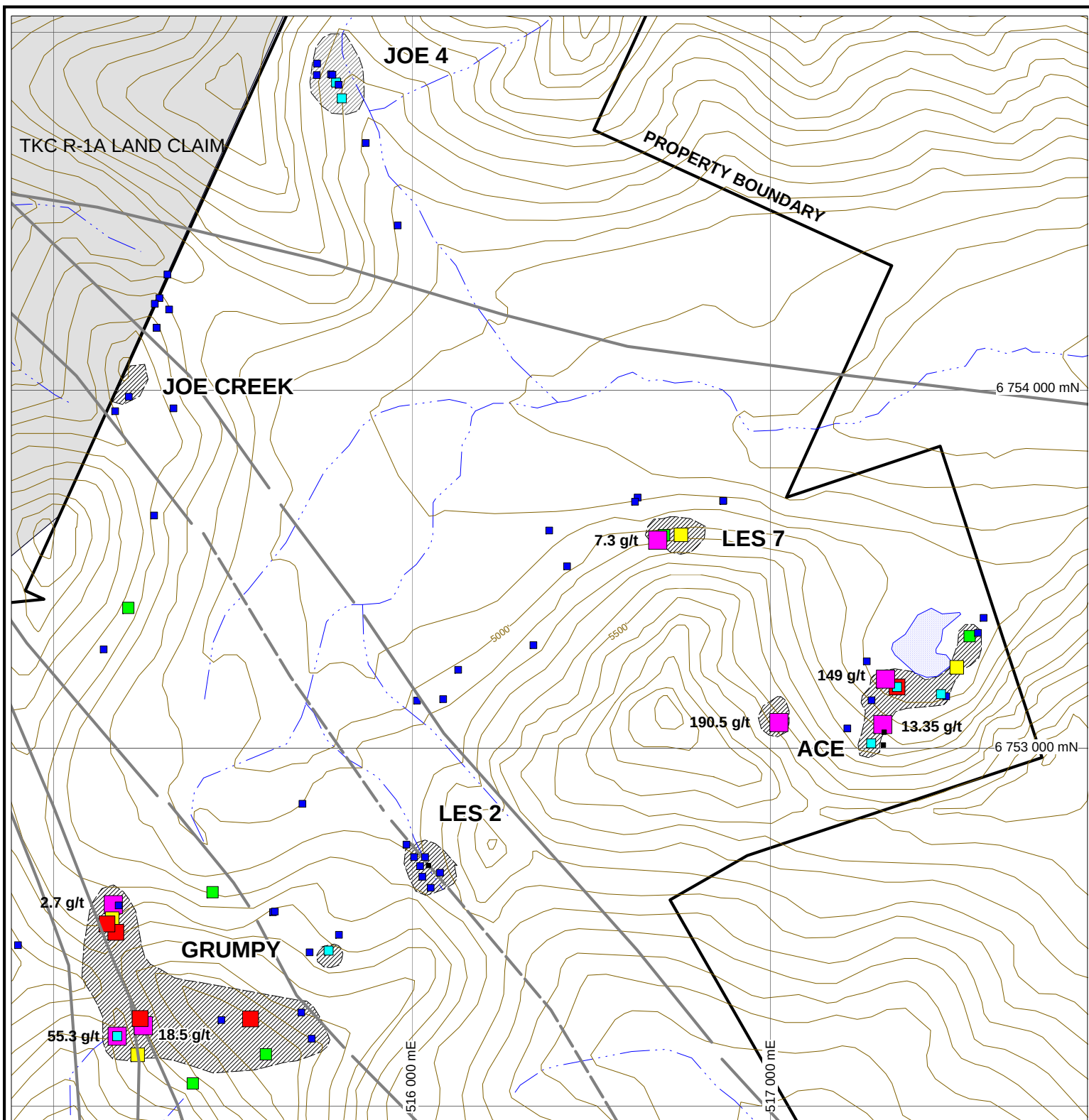
MINERALIZATION

Six mineralized zones have been identified to date on the Hartless Joe property. Working clockwise from the southwest corner of the property, the showings are named Grumpy, Joe Creek, Joe 4, Les 7, Ace and Les 2. Varying amounts of gold and silver occur in all of the showings, usually with trace to minor amounts of copper, lead and zinc. Veins are most common, but stratigraphically-controlled mineralization and silica- and carbonate-healed breccias are also present.

All known mineralization on the property is hosted within Joe Mountain Formation volcanics. The Grumpy, Joe Creek and Les 2 showings occur along or in close proximity to mapped northwest-trending faults.

In 2012, eight rock samples were collected on the property, primarily from the Joe 4, Les 7 and Ace showings. The 2012 rock sample locations are shown on Figure 5, while results for gold, silver and copper are illustrated thematically on Figures 6 to 8 for all rock samples collected from 2005 to present. Rock Sample Descriptions for the 2012 samples are provided in Appendix II.





Au Rock Values (g/t)

- $\geq 10 < 191$
- $\geq 5 < 10$
- $\geq 2 < 5$
- $\geq 1 < 2$
- $\geq 0.5 < 1$
- $0 < 0.5$



Area containing anomalous
gold-silver bearing rock samples

— Fault

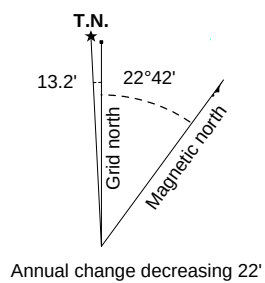
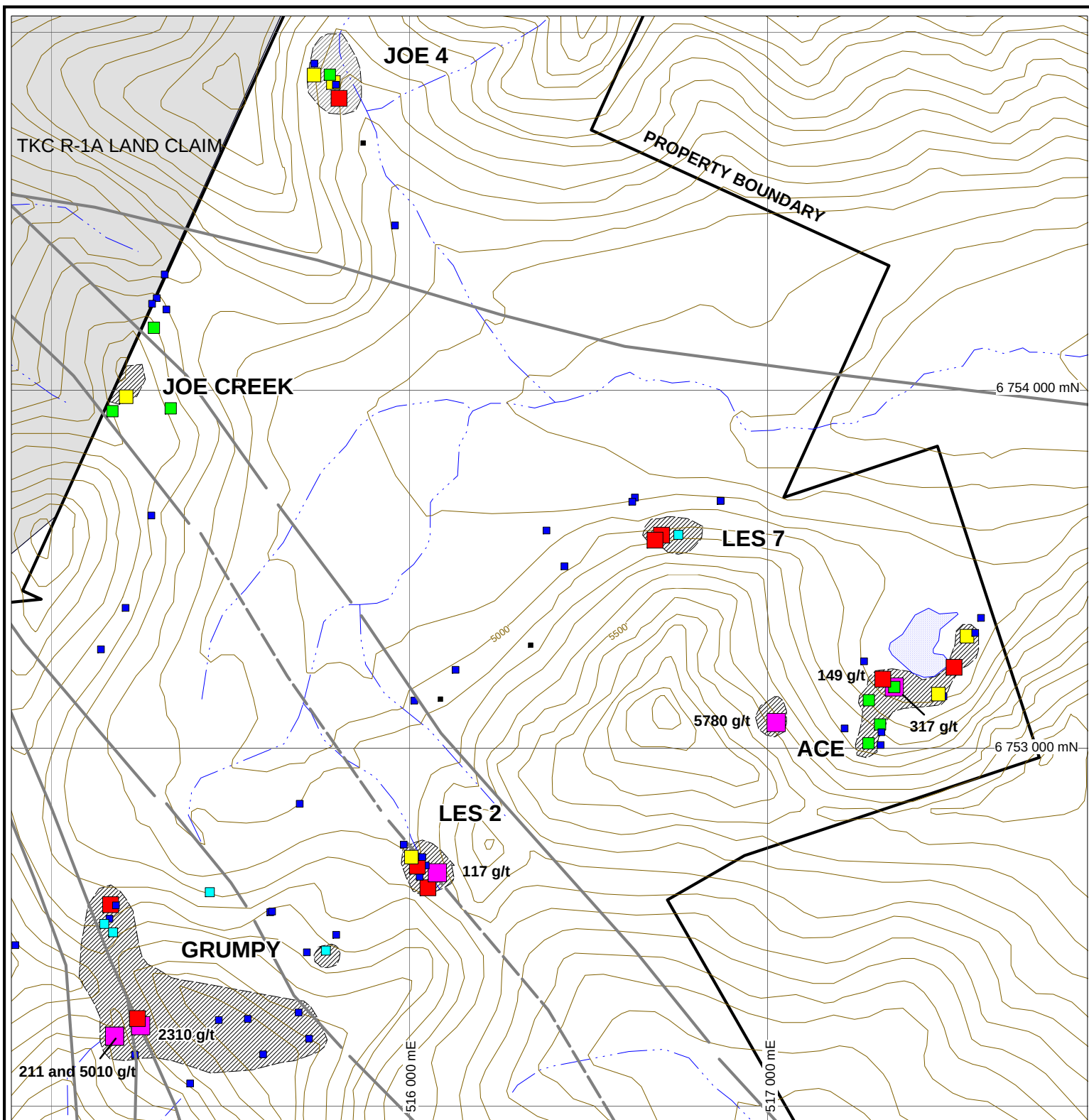
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FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD ROCK GEOCHEMISTRY
HARTLESS JOE PROPERTY

0 1 km
UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2012\Hartless_Joe\Au_rock_geochem

DATE: January 2013



Ag Rock Values (g/t)

- $\geq 100 \leq 5,780$
- $\geq 50 < 100$
- $\geq 20 < 50$
- $\geq 10 < 20$
- $\geq 5 < 10$
- $0 < 5$



Area containing anomalous
gold-silver bearing rock samples



Fault

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FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER ROCK GEOCHEMISTRY

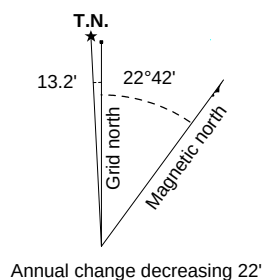
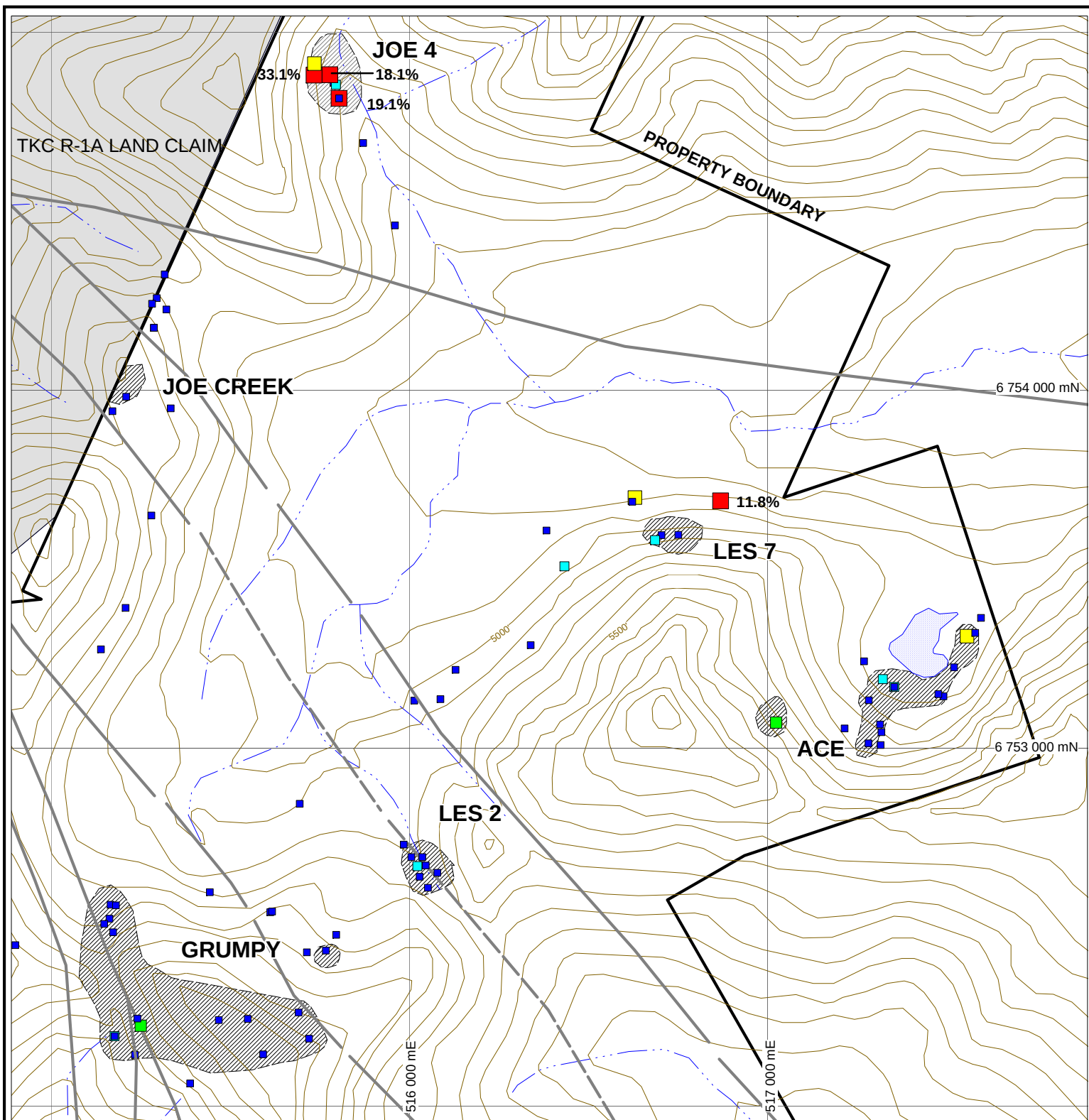
HARTLESS JOE PROPERTY



UTM ZONE 8, NAD 83, 105D/15

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DATE: January 2013



Cu Rock Values (ppm)

- $\geq 5,000 \leq 33,100$
- $\geq 2,000 < 5,000$
- $\geq 1,000 < 2,000$
- $\geq 500 < 1,000$
- $0 < 500$



Area containing anomalous
gold-silver bearing rock samples



Fault

STRATEGIC METALS LTD.

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

0 1 km
UTM ZONE 8, NAD 83, 105D/15

FILE: P:\2012\Hartless_Joe\Cu_rock_geochem

DATE: January 2013

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.

The 2012 rock samples were sent to the ALS Minerals laboratory in Whitehorse, where they were dried and fine crushed to better than 70% passing 2 mm. A 250 g split was then pulverized to better than 85% passing 75 microns. The pulverized samples were sent to the ALS Minerals laboratory in North Vancouver, where they were analysed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (Au-ICP21) and for 48 elements using a four acid digestion followed by inductively coupled plasma combined with mass spectroscopy (ME-MS61). Over limit copper values were determined by four acid digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Cu-OG62). Certificates of Analysis for the 2012 samples are given in Appendix III.

Vein Mineralization

Vein material on the property exhibits a number of distinctive features. Quartz is generally white to pale orange-tan in colour, opaque and crystalline. Carbonate comprises only a minor component. Faint comb texture is observed in some specimens and sulphide minerals occur as weak disseminations to thin millimetre-scale ribbon bands. The total sulphide content typically ranges from less than one percent to a maximum of ten percent, averaging about three percent.

Easily identifiable sulphide species are pyrite, galena, arsenopyrite, chalcopyrite and sphalerite. Microscopic examination of polished sections revealed the presence of unidentified grey and black minerals around the edges of known sulphides (H. Smith, pers. comms., 2006). These minerals are suspected to be tellurides or sulphosalts. Alteration assemblages developed along vein margins primarily consist of sericite and chlorite. Fluid inclusion work done on several samples returned inconclusive results; however, textural observations noted growth zoning which is typically developed in epithermal systems (M. Poliquin, pers. comms., 2006).

Vein mineralization has been documented at all six showings on the property. Only Ace Showing is exposed in bedrock. Most of the showings consist of mineralized float trains that are believed to be relatively close to their respective sources. Table I displays the most significant assay results from vein mineralization collected at the various showings.

Table I - Vein Mineralization

Showing	Sample	Au (g/t)	Ag (g/t)	As (ppm)	Sb (ppm)	Cu (%)	Pb (%)	Zn (%)
Grumpy	B395829	0.87	88.0	522	23	0.03	0.04	0.01
	B395830	0.80	211	453	80	0.02	0.00	0.01
	B395831	55.3	5010	143	1590	0.09	0.55	0.06
	B395832	18.5	2310	213	364	0.11	0.73	0.06
	B395833	5.32	50.0	5310	17	0.01	0.02	0.01
	M011209	15.65	4540	139	1350	0.01	0.62	0.03
	M011210	1.00	13.5	225	6	0.00	0.00	0.00

	M011211	3.54	82.7	51	16	0.01	0.05	0.12
	M011212	2.17	339	94	98	0.02	0.11	0.14
	M011213	2.88	33.5	138	6	0.01	0.01	0.03
	M011214	251.0	1270	413	148	0.02	0.93	0.13
	C105708	9.97	3.8	66	13	0.01	0.04	0.06
	C105710	0.10	<0.2	700	2540	0.00	0.00	0.01
	C105713	1.09	6.6	58	5	0.01	0.10	0.27
	C105714	27.00	466	190	76	0.01	0.10	0.34
	C105716	3.03	4.0	3770	7	0.00	0.00	0.00
Ace	P396836	1.50	41.1	1	9	0.25	1.90	0.12
	P396837	4.20	55.0	69	10	0.01	0.25	0.18
	P396838	0.90	30.4	30	7	0.02	0.36	0.10
	P396839	9.15	317	33	6	0.05	0.38	0.76
	P396840	0.83	19.8	30	2	0.03	0.24	0.26
	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
	B395910	13.35	10.8	153	153	0.00	0.09	0.24
Joe 4	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
Les 2	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
Joe Ck	B395844	0.08	46.5	38	1	0.02	0.22	0.03
Les 7	C105730	2.04	5.1	2	3	trace	0.01	0.18
	C105731	1.79	175	20	15	0.01	0.14	0.01
	C105732	73.00	183	111	68	0.10	2.95	0.22
	M652140	0.005	1.96	9.3	0.19	1.18	0.00	0.01
	M652141	0.058	20.8	5.1	1.11	3.31	0.00	0.01

Stratigraphic Mineralization

Two types of stratigraphically-controlled mineralization have been recognized on the Hartless Joe property. The first type occurs as quartz floods sub-parallel to bedding and foliation in volcanic and sedimentary units. Mineralization consists predominantly of fine grained pyrite with varying, lesser amounts of sphalerite, galena and chalcopyrite, which occur both with the quartz and the adjacent wallrocks.

The second type of stratigraphically-controlled mineralization is jasper developed within units uTA₁ and mTJM₃. It has been interpreted as a laterally extensive hydrothermal precipitate that occurs as drapings around pillow lavas (Piercey, 2005). This material is typically dark to medium red and texturally amorphous, but some specimens contain clusters of finely disseminated magnetite and stringers of clear glassy secondary silica. At one locale, silica has replaced what appears to be fan shaped coral. Table II lists results from stratigraphically-controlled mineralization sampled within three showings on the property.

Table II - Stratigraphic Mineralization

Showing	Sample	Au	Ag	As	Sb	Cu	Pb	Zn
		(g/t)	(g/t)	(ppm)	(ppm)	(%)	(%)	(%)
Grumpy	B395830	0.80	211.0	453	80	0.02	trace	0.01
	B395833	5.32	50.0	5310	17	0.01	0.02	0.01
Ace	P396839	9.15	317.0	33	6	0.05	0.38	0.76
Les 2	B395834	0.99	9.4	25	4	trace	trace	trace
	B395903	0.07	76.1	11	1	0.02	0.66	trace

Breccia Mineralization

Breccias are pale to medium green and consist mostly of crackled volcanic rocks healed with varying amounts of silica and calcite. They are commonly mineralized with disseminated to blebby pyrite, pyrrhotite and chalcopyrite. Only two samples of this type of mineralization have been collected and the results are provided in Table III.

Table III - Breccia Mineralization

Showing	Sample	Au	Ag	As	Sb	Cu	Pb	Zn
		(g/t)	(g/t)	(ppm)	(ppm)	(%)	(%)	(%)
Joe 4	B395839	0.58	22.4	5	8	0.01	0.03	trace
	B395841	0.17	16.4	10	5	1.81	0.01	0.01

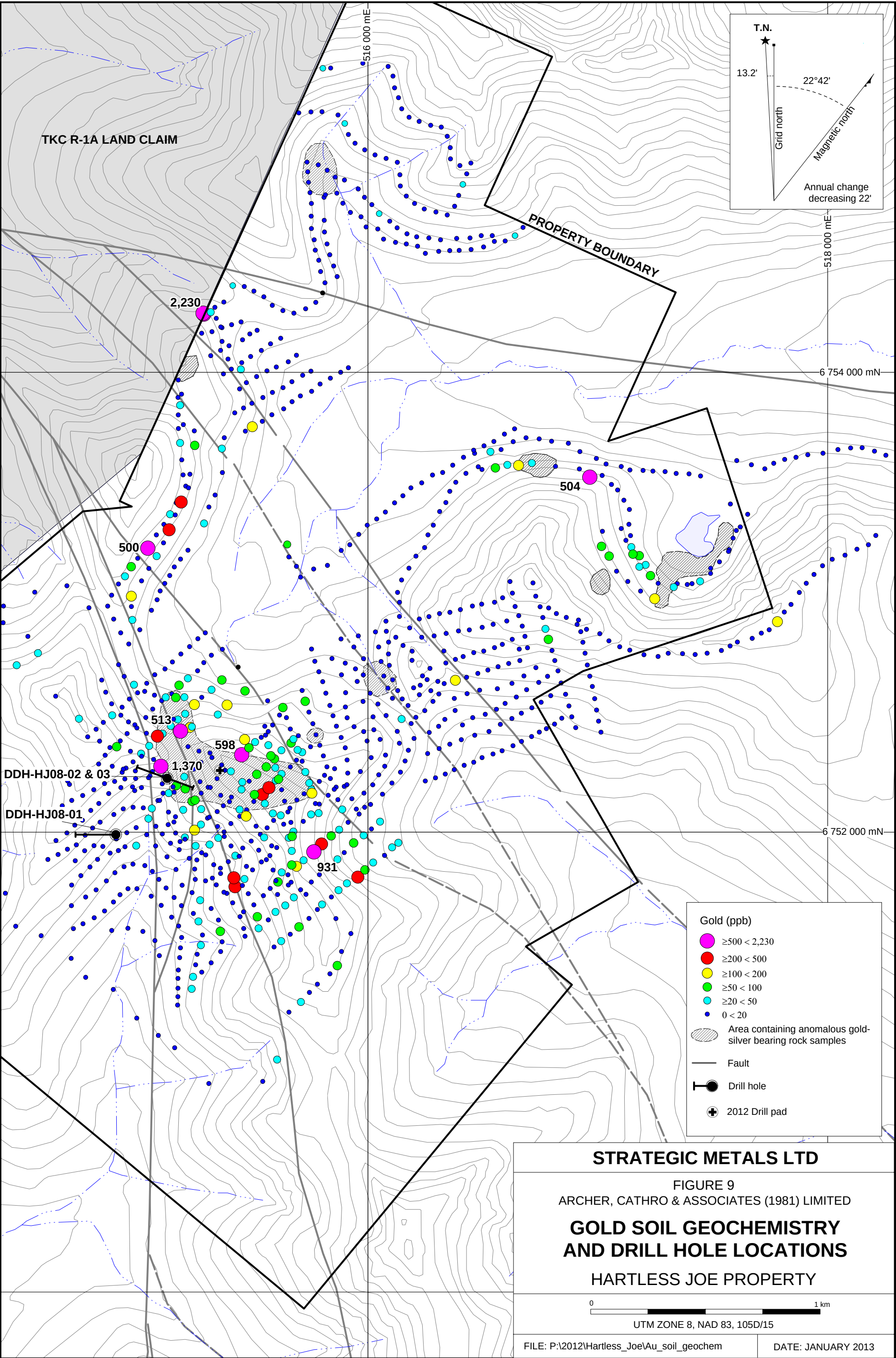
SOIL GEOCHEMISTRY

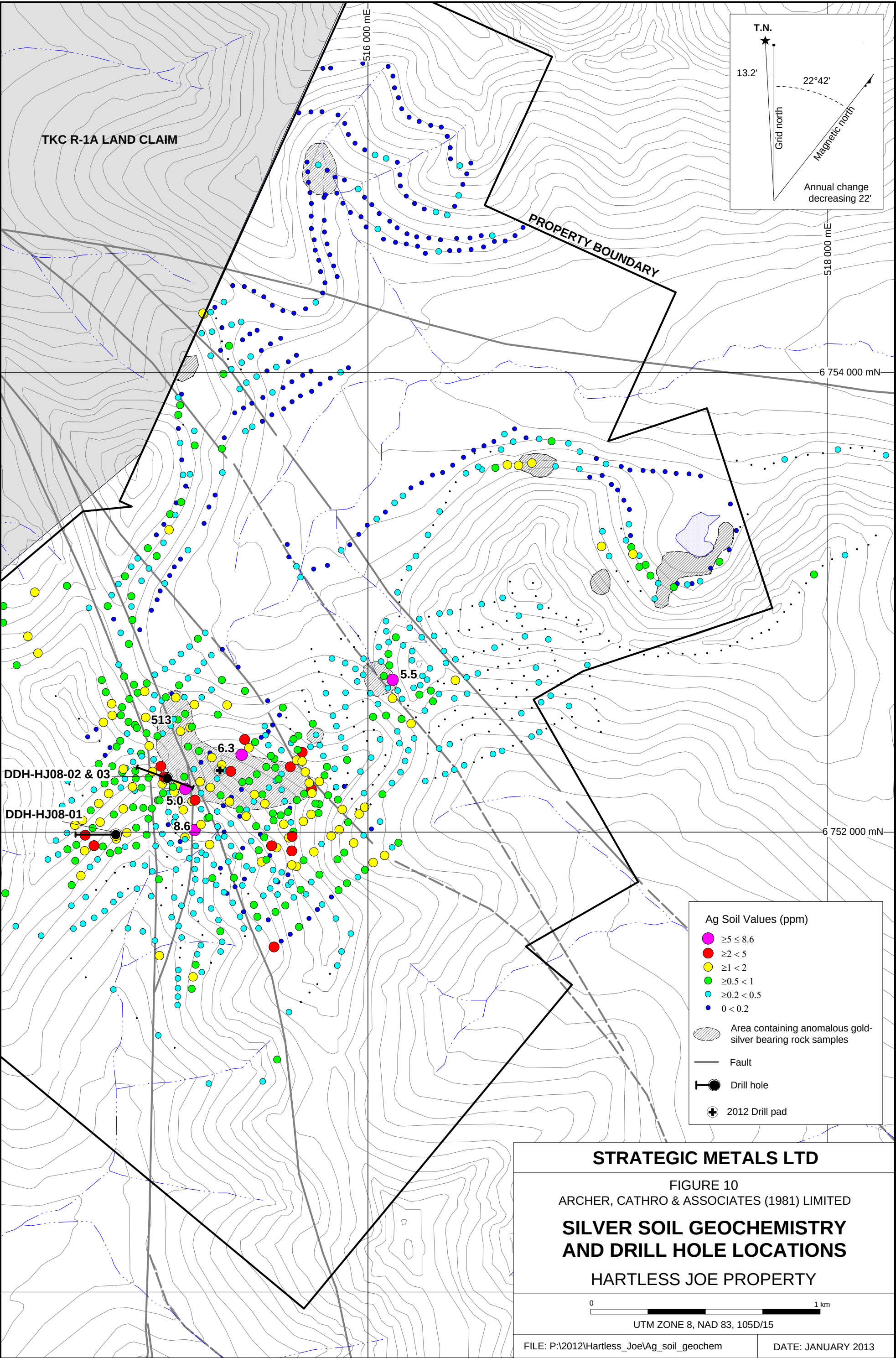
Soil geochemical sampling has been done on widely spaced, reconnaissance traverses across most of the Hartless Joe property, while tighter spaced, grid sampling has been done in the vicinity of the Grumpy and Ace showings. Sampling was performed in 2005, 2007 and 2012.

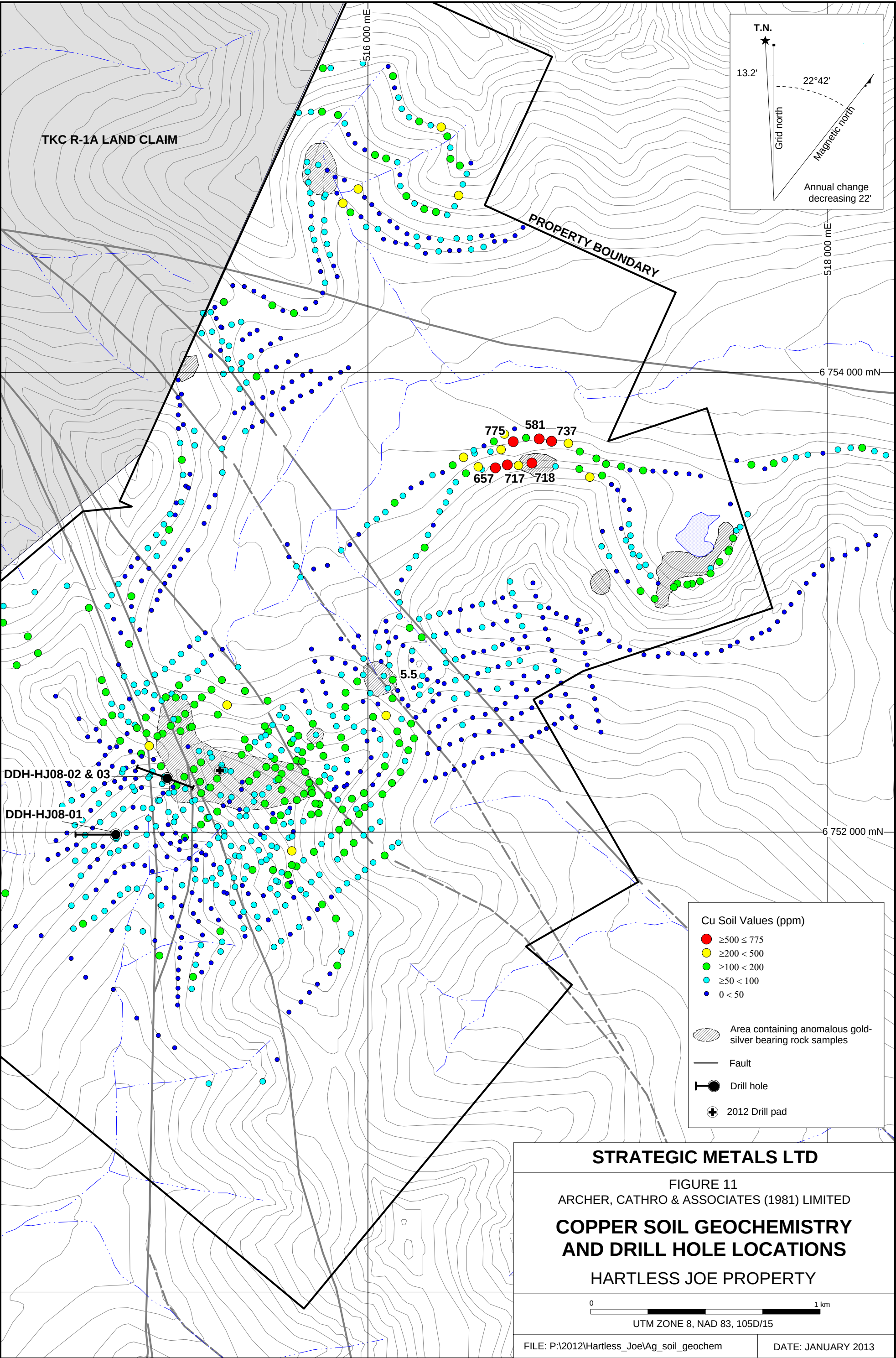
In 2012, Strategic Metals collected 153 contour soil samples from the central and northern parts of the property. Sample locations are plotted on Figure 5, while results for gold, silver and copper are shown on Figures 9 through 11, respectively.

All 2012 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 10 to 30 cm deep holes using hand-held augers. They were placed into individually pre-numbered Kraft paper bags.

The soil samples were sent to ALS Minerals laboratory in Whitehorse, where they were dried, screened to -180 microns, and then to ALS Minerals laboratory in North Vancouver, where they were analyzed for 48 elements using a four acid digestion followed by inductively coupled plasma combined with mass spectroscopy (ME-MS61). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are provided in Appendix III.







High gold values are scattered across the Hartless Joe property. Soil development in the area is variable, which may explain why low gold-in-soil values were obtained in some areas where well mineralized float was discovered. The largest cluster of anomalous values occurs in the vicinity of Grumpy Showing, where numerous samples taken in a 1200 by 600 m area exceed 100 ppb. The highest gold value at Grumpy Showing is 1370 ppb. Samples from Ace Showing were lower but still anomalous, with most samples in a 450 by 200 m area returning between 20 and 100 ppb. The highest gold value on the Hartless Joe property (2230 ppb) came from a reconnaissance sample taken on a hillside two kilometres north of Grumpy Showing.

Strong silver, lead and copper responses were also identified in a number of areas, forming clusters up to 300 m long near some of the showings. Arsenic and antimony are weakly to moderately elevated in the vicinity of the Grumpy and Les 2 showings. Zinc is subdued across most of the survey area.

DIAMOND DRILLING

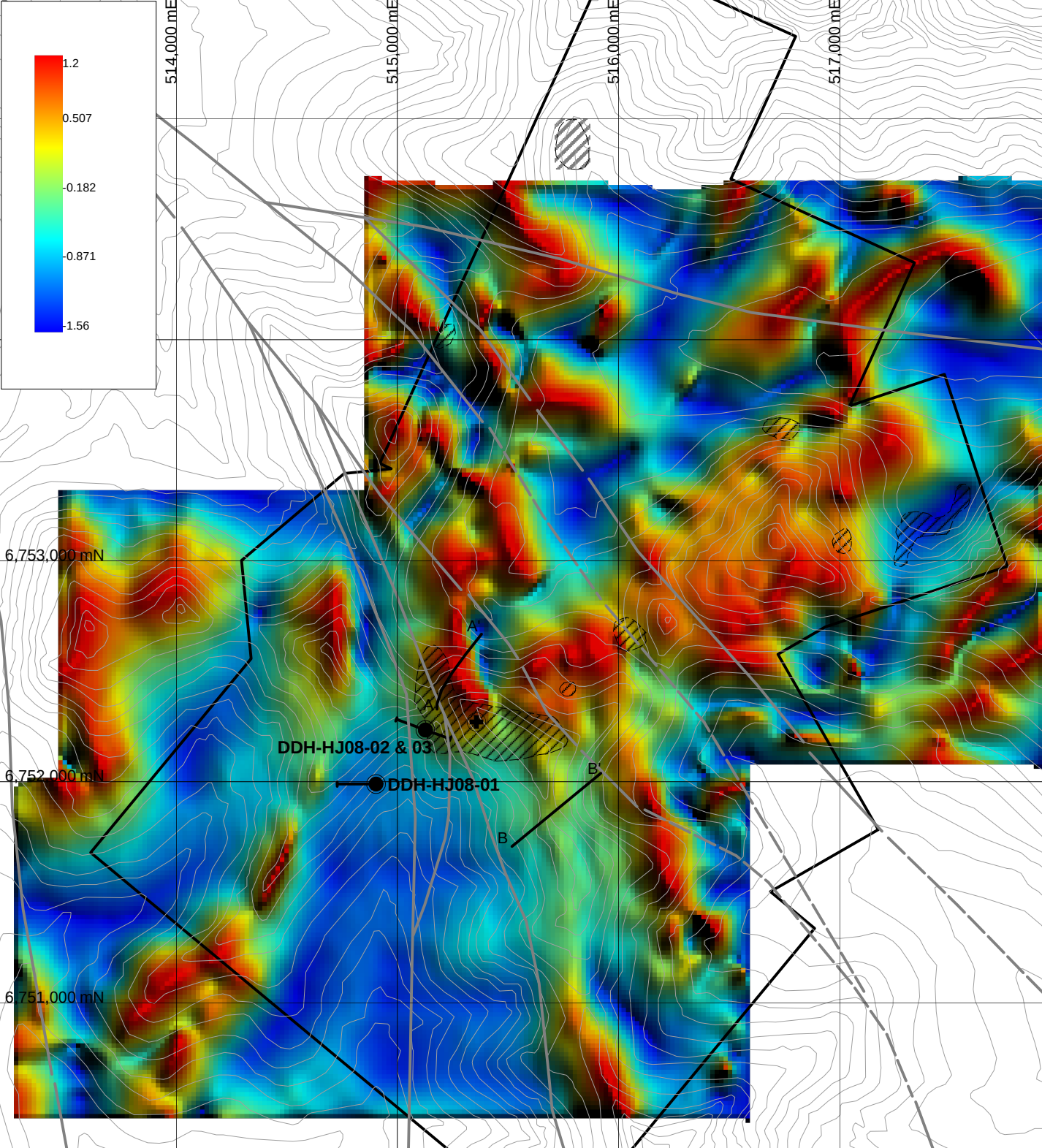
In 2008, a total of 612.2 m of diamond drilling was completed in three holes on the Hartless Joe property (D. Eaton, 2008). The holes tested a VTEM anomaly and part of Grumpy Showing at depth. Drill collar locations are plotted with soil geochemical and geophysical data on Figures 9 to 13. Key data concerning the drill holes are shown on Table IV.

Table IV – 2008 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

Hole HJ08-01 tested a VTEM anomaly identified by ATAC in 2007. It intersected mostly dark grey, fetid limestone, which is cut by numerous narrow dykes and sills. These intrusions are feldspar±quartz porphyry or diorite in composition. Neither type of intrusion has significantly altered the adjacent wallrocks, but pyrite is locally developed. The highest concentration of disseminated, coarse grained pyrite was observed adjacent to a four metre wide feldspar porphyry dyke near the bottom of the hole. This dyke, like most other feldspar porphyry dykes in the hole, contains a few percent disseminated pyrite. Samples of the pyritic limestone and feldspar porphyry returned low values for gold, silver and their pathfinder metals.

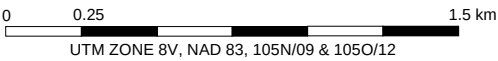
Holes HJ08-02 and HJ08-03 were drilled in opposite directions from the same drill pad to provide a section line across part of Grumpy Showing. A number of felsic dykes were intersected near the collars of each hole. These dykes were up to 30 m wide and all contained minor disseminated pyrite. The holes also cut numerous quartz±carbonate veins containing trace to 15% pyrite. These veinlets were usually 1 to 10 cm wide. Sedimentary rocks were most abundant in the lower part of hole HJ08-02, while volcanic rocks dominate the bottom half of hole HJ08-03, beneath a strong gouge filled fault. Although pyrite is widely dispersed and is locally abundant in these holes, only low gold and silver values were obtained. The barren drill core in many ways resembles gold-and-silver-bearing float but is distinguished from it by the absence of key pathfinder minerals including arsenopyrite and galena. Hole HJ08-03 was

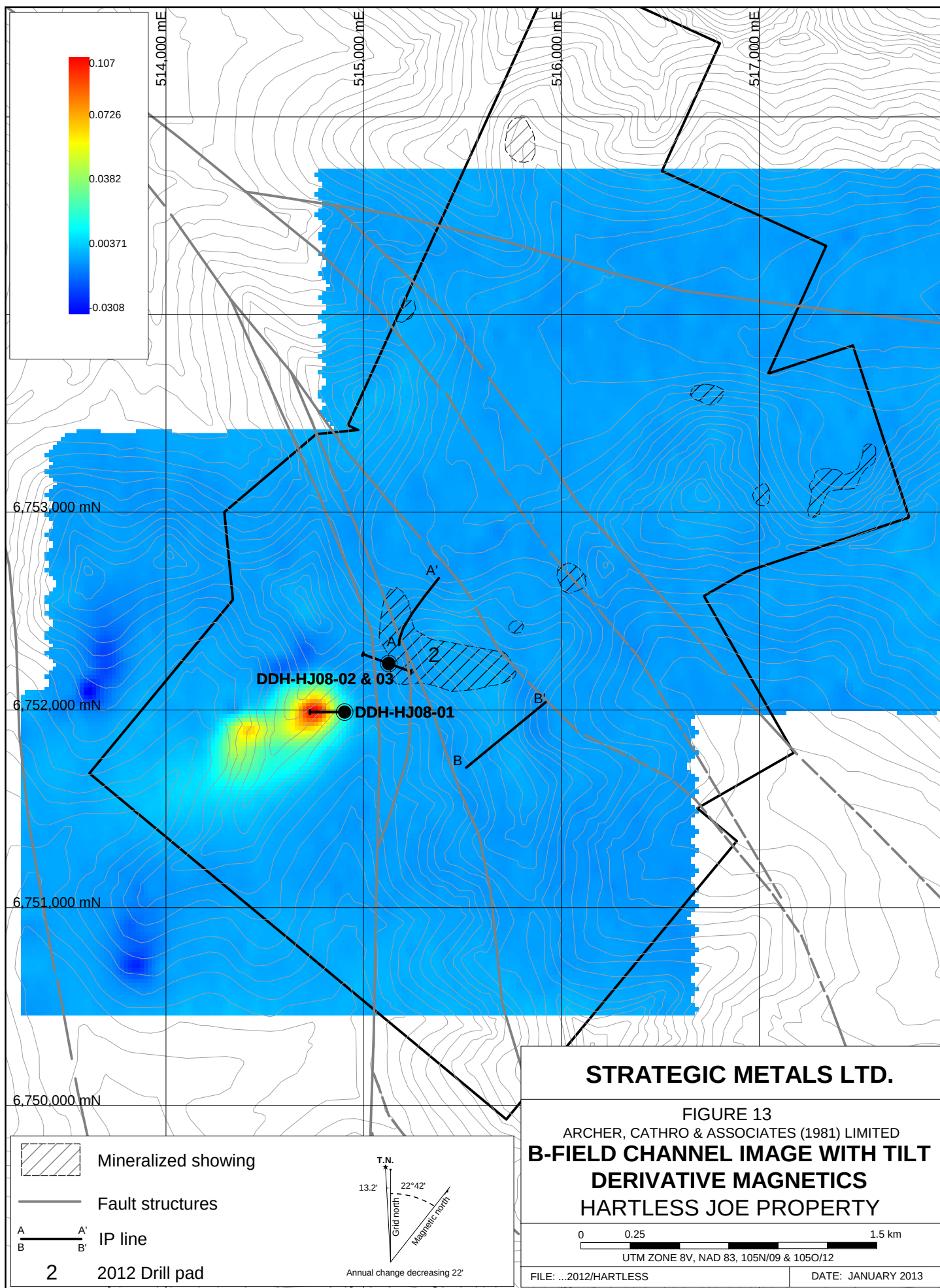


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FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

VERTICAL MAGNETIC GRADIENT
HARTLESS JOE PROPERTY





terminated in a gougy fault zone about 50 m above its target depth. It 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 Grumpy Showing, about 400 m east of the collars of holes HJ08-02 and -03 (Figure 9). This pad was positioned so that it can test across strong soil geochemical trends, which occur on either side of it.

GEOPHYSICAL SURVEYS

In 2007, ATAC commissioned Geotech Ltd. of Aurora, Ontario to fly a helicopter-borne VTEM and magnetic survey across the property and it also contracted Aurora Geosciences 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).

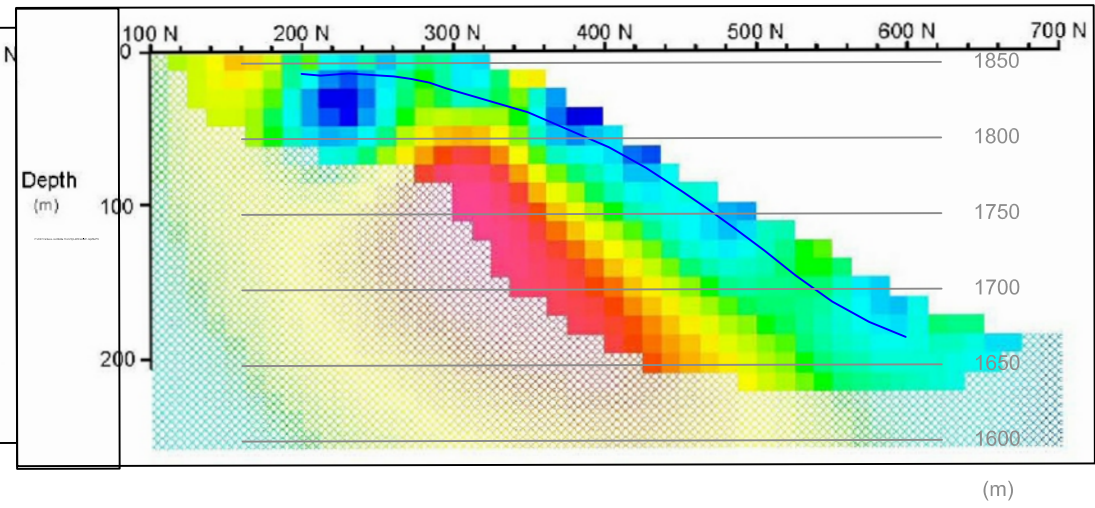
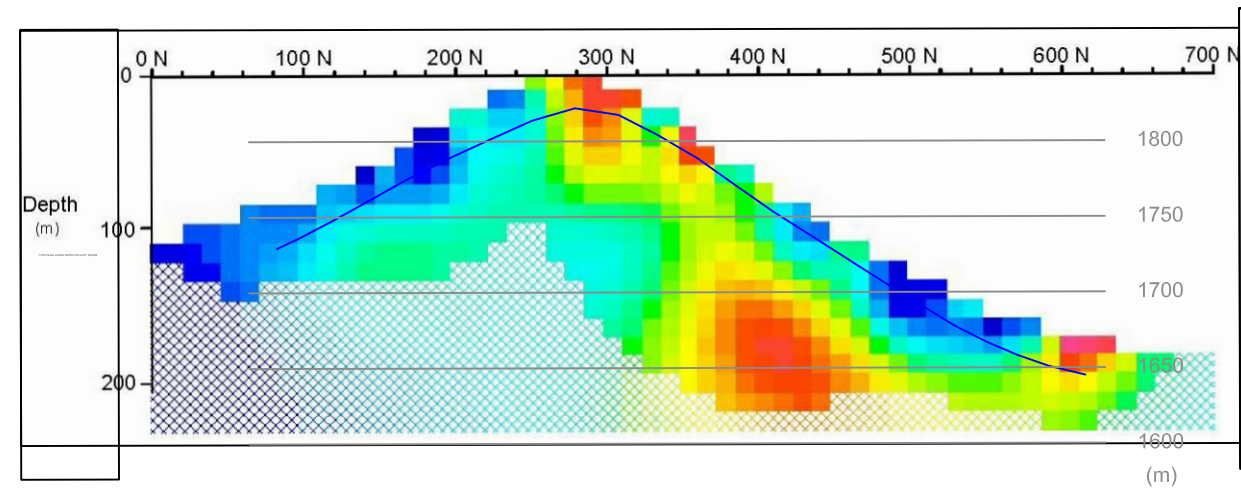
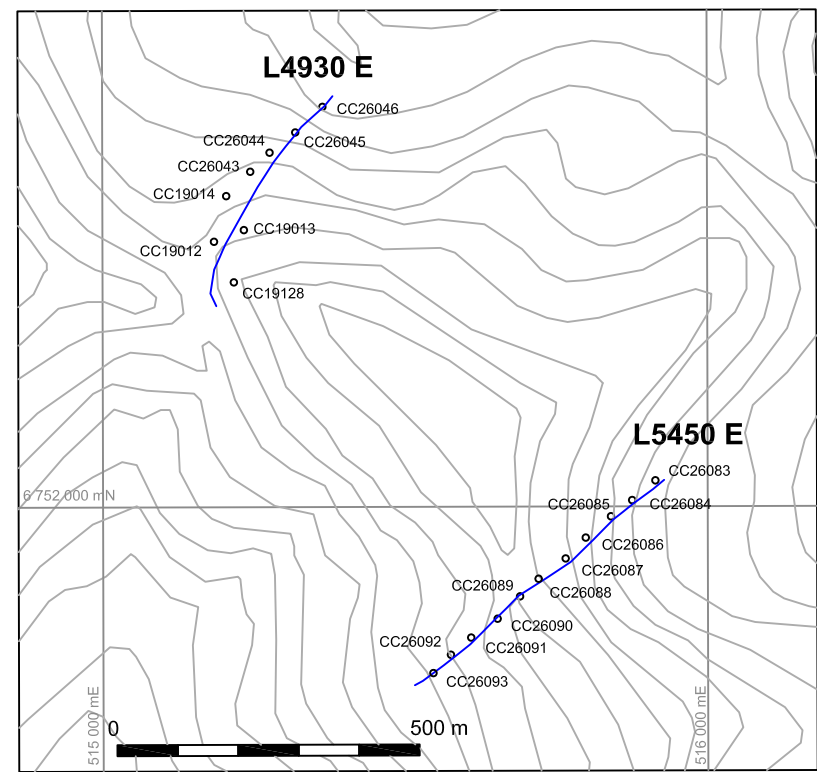
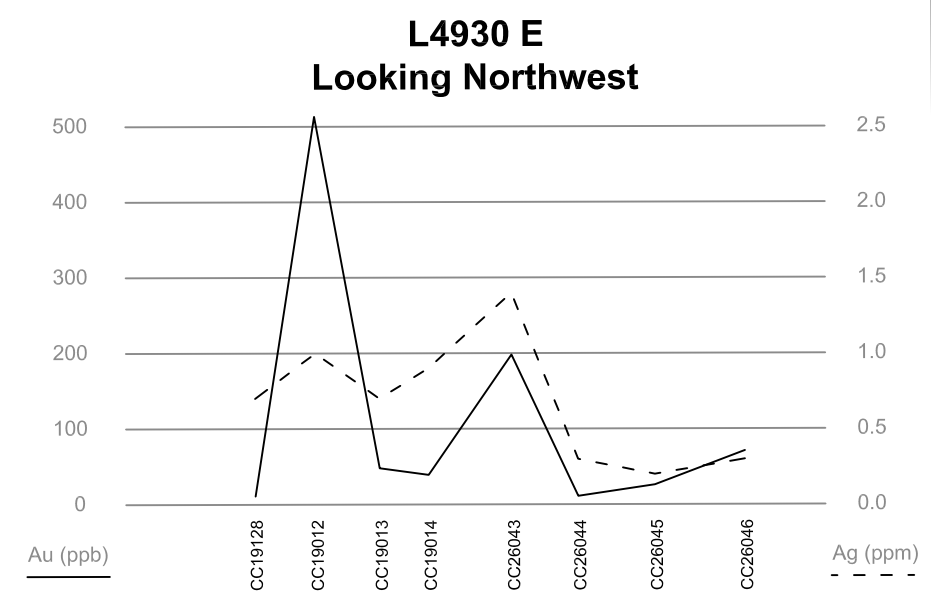
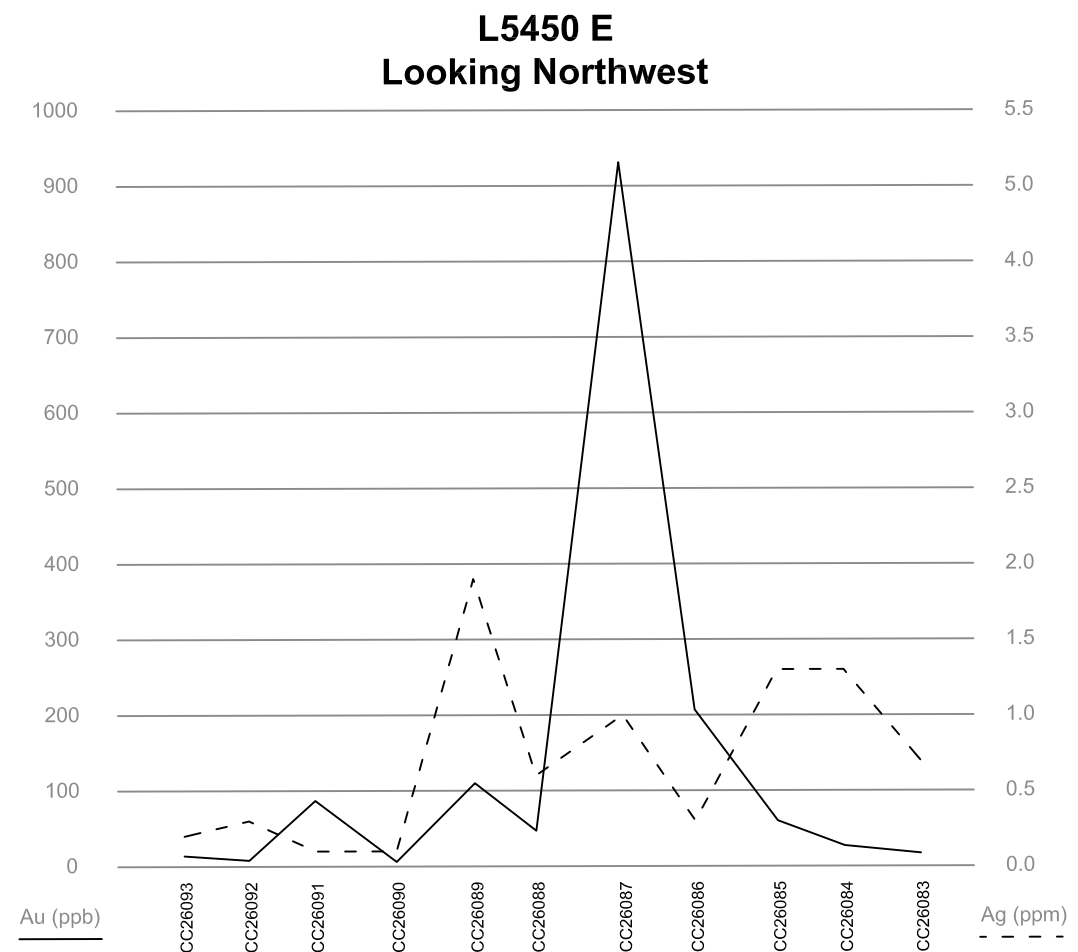
The total field magnetic readings on the Hartless Joe property range from 56900 nT to 58400 nT, which is characterized as high contrast (S. Eaton, 2008). Most of the highest readings are in areas underlain by mafic volcanic units in the northern and eastern parts of the block. An isolated ovoid high in the southwestern corner of the block could represent a buried mafic pluton. There is a general north- to northwest-trending fabric to the anomalies, and some of the lows correspond with known fault structures (Figure 12).

The VTEM response is quiet except for an anomaly in the southwestern part of the block, which is mostly underlain by sediments (Figure 13). 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 Grumpy Showing and 500 m northeast of the isolated magnetic high that is interpreted as a buried mafic pluton. The conductor is about 150 m below surface (Figure 14) 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 14. The northwesterly IP line features a large anomaly with low chargeability that is suggestive of dominantly pyritic, stratigraphically controlled mineralization (S. Eaton, 2008). The highest chargeability reading was obtained at the south end of the line where well mineralized vein float has been discovered. The southeasterly line identified what appears to be a lithological boundary (probably a fault) near a ridge crest, with more conductive rocks on its north side. Three chargeability/ conductive features are modelled to come to surface in areas where strong gold-in-soil geochemical anomalies have been outlined. A deeper, stronger chargeability anomaly is open to depth.

DEPOSIT TYPE

Mineralization at the Hartless Joe property shows greatest affinity to the low sulphidation style of epithermal gold-silver deposits (Wengzynowski, 2008). This style of mineralization is also commonly known as “Comstock” or “bonanza.” Deposits are typically associated with magmatic arcs or continental volcanic fields featuring large extensional structures. Most are



STRATEGIC METALS LTD.	
FIGURE 14 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED MODELLLED CHARGEABILITY HARTLESS JOE PROPERTY	
 UTM ZONE 8, NAD 83, 115D/15	
DRAWN / REVISED BY: MRD	
FILE: 2013/HARTLESSJOE	DATE: January 2013

hosted within predominantly volcanic packages of mainly calc-alkaline andesitic composition, which are cut by regional-scale fault and fracture systems related to grabens, calderas or dome complexes or by large extensional faults. Sub-volcanic intrusions and localized clastic basins are sometimes present (Panteleyev, 1996). At some deposits (i.e. Eskay Creek), mineralizing fluids vented into local water-filled basins and deposited stratabound or strataform sulphides (Alldrick, 1995).

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

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

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

Discordant, low sulphidation epithermal deposits are found in many parts of the world and they can be of any age. Many are Tertiary but Jurassic deposits are particularly common in Stikinia Terrane of northern British Columbia. Well known B.C. deposits include Lawyers and Baker in the Toodoggone District, Silbak Premier near Stewart and Cinola on the Queen Charlotte Islands. International deposits include Comstock in Nevada, Creede in Colorado, Republic in Washington, El Bronce in Chile, Guanajuato in Mexico, Colqui in Peru and Ladolam in Papua-New Guinea. The median grade and tonnage of 41 Comstock-type "bonanza" deposits is 770,000 tonnes at 7.5 g/t gold and 110 g/t silver with minor copper, lead and zinc (Panteleyev, 1996).

Concordant, subaqueous hot spring gold-silver deposits are less common. The best known deposits are Eskay Creek in northern B.C. and Oreozan in Japan. Eskay Creek commenced

commercial production in 1994 and it produced about 93,320 kg (3 million ounces) of gold (Stanley, 2007 and Barrick, 2008). In early 2008, mining ceased at Eskay Creek.

DISCUSSION AND CONCLUSIONS

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

Prospecting on the property has identified relatively high-grade gold-silver vein and breccia mineralization and there is evidence of subaqueous precipitates (possibly hot spring related sinters). The exposed mineralization appears to have been deposited in fractures and atop volcanic flows within the upper parts of large hydrothermal systems. The geological setting, lithogeochemical characteristics and mineralogical textures are consistent with low sulphidation, epithermal gold-silver mineralization.

Soil geochemical surveys have broadly outlined a number of areas of interest on the Hartless Joe property, but glacially transported overburden and extensive talus fields make identification of specific source areas difficult using this technique. Areas of anomalous gold soil geochemistry commonly feature coincident, moderately elevated silver, arsenic, antimony, lead, zinc and/or copper values. This suite of elements is again consistent with the low sulphidation epithermal gold-silver model.

Geophysical surveys conducted on the property identified promising targets near large-scale faults. Although drill testing of a prominent VTEM conductor returned disappointing results, two significant IP chargeability anomalies have yet to be tested and are promising targets for future drilling. These anomalies lie about 100 m below surface within parts of Grumpy Showing that produced high soil geochemical values and well mineralized float. Two holes previously drilled to test other parts of Grumpy Showing returned low precious metal values, which do not explain the elevated gold-and-silver values seen at surface. More work is required to account for this discrepancy. It may be that these holes were aligned subparallel to the veins or that they did not extend far enough to reach them. Alternatively, these holes may have been too deep and encountered only barren pyrite beneath the “bonanza” zone.

Future work on the property is definitely warranted and should comprise: 1) detailed prospecting, geological mapping and hand trenching of known showings to better understand the mineralogical controls and orientations of mineralized structures; and 2) diamond drilling to test the chargeability anomalies beneath Grumpy Showing and any areas identified as highly prospective by the prospecting, geological mapping and hand trenching. Multiple drill holes could be completed at different orientations that was built in 2012, to test beneath strong faults, mineralized float trains, soil geochemical anomalies and chargeability targets at the Grumpy Showing.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in blue ink, appearing to be 'S. Drechsler', is written over a light yellow rectangular background.

S. Drechsler, B.Sc. Geology, P.Geo.

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Yukon Geological Survey

2012 MapViewer Online <http://mapservices.gov.yk.ca/Mining/WebMap.aspx>

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Sarah Drechsler (née Eaton), geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Squamish, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. in Honours Geological Sciences.
2. From 2002 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 154922).
4. I have personally interpreted all data resulting from this work.



S. Drechsler, B.Sc. Geology, P.Geo.

APPENDIX II
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions			Project: <u>Hartless Joe</u>		Property: <u>Hartless Joe</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
M652139	UTM:	516383 E	UTM:	6753608 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Weathered out, heavy, underneath outcrop of similar structure						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
M652140	UTM:	516869 E	UTM:	6753691 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Reddened, weathered, downslope from similar rocks						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
M652141	UTM:	516869 E	UTM:	6753691 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Weathered with some bluish colouring						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
M652142	UTM:	515734 E	UTM:	6754880 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: diss. Sx in altered c.g. volcanic/intrusive						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
M652143	UTM:	515735 E	UTM:	6754912 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: grey qtz hsting f.g.sx.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
M653126	UTM:	517580 E	UTM:	6753322 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Heavy quartz, sulpheric smell						

Rock Sample Descriptions				Project: <u>Hartless Joe</u>		Property: <u>Hartless Joe</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:	
M653127	UTM:	517596 E	UTM:	6753364 N	Sample Width:	Abundance:	
	Elevation:	m					
Comments: Exceptionally heavy, reddened, some blue colouring							

APPENDIX III
CERTIFICATES OF ANALYSIS



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

To: **STRATEGIC METALS LTD.**

C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

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

Page: 1
Finalized Date: 19- SEP- 2012
Account: MTT

CERTIFICATE WH12205417

Project: Hartless Jbe

P.O. No.:

This report is for 8 Rock samples submitted to our lab in Whitehorse, YT, Canada on 3- SEP- 2012.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

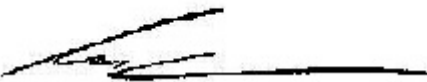
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS61	48 element four acid ICP- MS	
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE

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

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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

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Page: 2 - A
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 19- SEP- 2012
 Account: MTT

Project: Hartless Jbe

CERTIFICATE OF ANALYSIS WH12205417

Sample Description	Method Analyte Units LOR	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
M652139		0.66	0.002	0.61	4.22	6.7	10	<0.05	0.88	0.30	0.07	2.11	22.4	92	0.08	89.5
M652140		0.15	0.001	0.37	5.42	4.4	10	0.13	0.20	2.34	0.63	8.45	104.0	138	0.76	1120
M652141		0.45	0.005	1.96	2.10	9.3	10	0.05	0.62	0.76	0.51	2.70	145.0	61	0.18	>10000
M652142		0.07	0.058	20.8	2.57	5.1	20	0.18	0.15	0.28	1.22	3.42	39.6	67	0.40	>10000
M652143		0.04	0.005	0.76	0.83	4.5	10	0.05	0.19	0.39	0.15	1.81	30.1	23	0.11	2700
M652144		0.06	0.007	2.04	2.08	3.1	30	0.11	0.12	2.57	0.15	3.60	18.5	15	0.17	2590
M653126		1.29	0.001	0.53	0.36	1.2	<10	<0.05	112.0	0.10	0.03	0.59	9.3	33	0.05	294
M653127		1.24	0.007	0.92	6.38	9.7	80	0.37	1.03	5.28	0.14	7.12	33.5	160	1.18	114.0



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CERTIFICATE OF ANALYSIS WH12205417

Sample Description	Method Analyte Units LOR	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
		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
M652139		12.90	12.75	0.10	1.3	0.027	0.02	0.7	3.8	4.31	1520	29.6	0.06	0.6	25.8	220
M652140		15.20	19.85	0.14	1.3	0.059	0.02	2.9	4.7	4.75	1410	0.32	0.12	1.6	33.2	330
M652141		18.40	7.38	0.24	0.8	0.510	0.02	1.1	2.3	1.52	477	52.8	0.15	0.5	26.7	140
M652142		11.25	8.96	0.24	0.5	0.257	0.04	1.4	5.7	1.86	390	4.11	0.70	0.3	17.8	160
M652143		6.30	3.56	0.07	0.6	0.094	0.03	0.8	2.7	0.58	274	12.00	0.09	0.3	7.3	80
M652144		6.31	10.65	0.11	0.4	0.147	0.04	1.5	2.2	0.39	500	0.94	0.19	0.5	3.8	160
M653126		2.24	1.06	0.08	<0.1	0.011	0.01	<0.5	1.9	0.14	62	1.69	0.18	0.2	2.7	60
M653127		8.00	16.95	0.09	2.2	0.081	0.19	2.1	5.6	4.76	1260	6.44	2.74	1.0	54.4	460



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		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	0.2	0.005	0.02
M652139		5.0	0.5	0.053	4.38	0.27	26.2	9	1.3	3.9	<0.05	0.49	<0.2	0.496	0.10
M652140		2.2	0.6	0.006	7.23	0.31	33.1	17	2.6	110.5	0.11	0.15	0.2	0.615	0.03
M652141		1.9	0.4	0.166	>10.0	0.19	12.4	68	1.3	43.0	<0.05	1.02	<0.2	0.209	0.10
M652142		3.9	0.8	0.083	4.42	1.11	20.5	94	0.9	25.9	<0.05	0.15	<0.2	0.237	0.07
M652143		1.8	0.4	0.055	4.20	0.32	4.6	13	0.7	13.8	<0.05	0.21	<0.2	0.112	0.09
M652144		4.1	0.6	0.010	2.54	0.34	8.2	11	0.8	117.5	<0.05	0.08	<0.2	0.223	0.03
M653126		14.2	0.3	0.004	0.74	0.34	1.0	1	0.2	3.0	<0.05	62.9	<0.2	0.019	<0.02
M653127		8.8	4.8	0.004	1.23	0.77	44.7	2	1.0	115.0	0.07	0.56	<0.2	0.832	0.19



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CERTIFICATE OF ANALYSIS WH12205417

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Cu- OG62 Cu % 0.001
M652139		214	0.1	10.2	158	35.0	
M652140		242	0.1	20.0	246	37.8	
M652141		101	0.1	7.8	82	13.2	1.180
M652142		141	0.5	4.7	92	13.2	3.31
M652143		56	0.1	3.7	45	7.6	
M652144		172	0.1	6.8	29	14.3	
M653126		11	0.2	0.4	5	1.4	
M653127		317	0.1	29.8	99	61.6	



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Method	CERTIFICATE COMMENTS
ME- MS61	REE's may not be totally soluble in this method.



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CERTIFICATE WH12205416

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P.O. No.:

This report is for 153 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- SEP- 2012.

The following have access to data associated with this certificate:

SARAH EATON

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

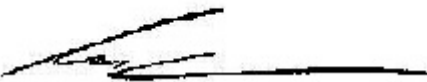
ALS CODE	DESCRIPTION
ME- MS61	48 element four acid ICP- MS
Au- ICP21	Au 30g FA ICP- AES Finish ICP- AES

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	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
DD021590		0.29	0.015	0.06	6.67	8.0	720	1.13	0.15	2.10	0.15	52.0	29.1	75	3.21	86.9
DD021591		0.31	0.006	0.15	6.28	6.2	720	1.06	0.14	1.77	0.12	40.3	23.0	69	3.38	95.4
DD021592		0.33	0.017	0.23	6.62	11.5	590	0.92	0.20	1.77	0.34	38.4	63.7	105	4.95	571
DD021593		0.35	0.005	0.08	6.65	8.3	690	1.02	0.14	1.98	0.21	37.8	29.3	104	4.73	58.8
DD021594		0.26	0.010	0.50	6.92	22.4	410	0.88	0.08	1.36	0.31	25.5	44.1	121	12.30	101.0
DD021595		0.28	0.010	0.34	8.10	44.0	260	0.94	0.05	0.79	0.37	22.3	52.6	120	26.6	102.0
DD021680		0.12	0.022	0.09	6.32	7.6	740	0.89	0.18	1.84	0.25	28.0	23.3	98	6.01	31.0
DD021681		0.08	0.002	0.12	3.43	4.1	290	0.52	0.10	2.54	0.34	19.20	14.4	32	2.16	25.9
DD021682		0.05	0.007	0.12	6.43	3.7	570	0.86	0.10	1.43	0.38	26.1	23.6	97	5.37	31.8
DD021683		0.22	0.002	0.07	7.39	7.8	850	1.32	0.14	2.08	0.18	47.4	19.9	93	4.94	41.6
DD021684		0.14	0.005	0.18	7.76	8.1	600	1.07	0.14	1.89	0.46	35.3	38.3	136	8.49	110.5
DD021685		0.08	0.007	0.12	7.81	41.7	570	1.30	0.09	1.99	0.42	29.0	26.9	81	5.60	49.9
DD021686		0.17	0.006	0.14	6.38	11.7	330	0.88	0.13	1.31	0.43	31.1	60.4	93	10.90	115.5
DD021687		0.15	0.002	0.12	6.72	5.9	760	1.15	0.14	1.88	0.14	43.9	18.3	95	7.07	33.1
DD021688		0.13	0.004	0.28	6.51	7.0	790	1.09	0.15	1.66	0.19	45.7	20.0	110	4.12	42.1
DD021689		0.09	NSS	0.06	1.83	2.6	210	0.29	0.04	2.35	0.57	10.25	8.7	40	1.18	25.5
DD021690		0.12	0.006	0.09	4.89	8.3	470	0.61	0.10	2.55	0.43	25.3	30.5	63	4.44	57.8
DD021691		0.08	0.001	0.07	5.48	3.9	240	0.47	0.05	3.25	0.26	16.55	29.2	175	2.34	41.4
DD021692		0.12	0.004	0.10	5.53	6.1	730	0.95	0.12	2.39	0.31	35.4	17.7	85	4.63	49.6
DD021693		0.23	0.002	0.06	7.08	8.7	590	0.92	0.08	2.30	0.20	34.1	28.3	130	5.20	54.9
DD021694		0.10	<0.001	0.10	5.56	8.2	610	0.86	0.15	1.96	0.39	31.2	20.4	82	4.77	55.1
DD021695		0.12	0.001	0.10	6.48	8.1	660	0.99	0.14	2.13	0.29	48.9	19.6	77	6.09	92.4
DD021696		0.10	0.002	0.12	5.20	5.9	570	1.01	0.22	1.93	0.25	33.3	17.0	69	5.97	49.7
DD021697		0.12	0.004	0.12	5.67	6.4	580	0.90	0.13	2.29	0.31	33.8	19.2	64	6.92	67.4
DD021698		0.09	0.009	0.17	6.17	10.7	570	0.93	0.13	2.62	0.29	34.2	24.7	86	5.66	64.2
DD021699		0.13	0.003	0.08	6.56	9.2	510	0.86	0.15	2.10	0.39	24.5	22.9	74	5.47	70.6
DD021700		0.18	0.003	0.15	6.34	8.5	580	1.02	0.14	2.27	0.23	33.9	16.9	53	4.17	69.6
ZZ74012		0.36	0.016	0.13	6.86	9.3	870	1.08	0.19	2.16	0.20	52.4	27.1	87	4.87	104.0
ZZ74013		0.32	0.007	0.14	6.87	11.8	670	0.96	0.19	2.18	0.22	43.7	39.6	99	3.98	212
ZZ74014		0.25	0.023	0.15	6.84	9.8	770	1.18	0.15	1.72	0.21	46.7	27.3	89	5.37	126.5
ZZ74015		0.27	0.005	0.10	6.73	8.5	810	1.22	0.18	1.68	0.24	41.4	20.2	84	3.32	76.4
ZZ74016		0.26	0.006	0.09	7.36	8.3	830	1.24	0.13	2.24	0.23	55.1	17.7	81	3.38	56.8
ZZ74017		0.31	0.005	0.10	7.62	8.3	830	1.29	0.19	2.09	0.29	65.0	22.4	95	3.58	45.1
ZZ74018		0.29	0.019	0.11	7.01	12.1	840	1.28	0.19	2.15	0.34	87.0	30.2	100	3.11	109.0
ZZ74019		0.34	0.005	0.08	6.89	6.5	970	1.33	0.14	2.06	0.23	57.3	13.6	79	1.94	47.0
ZZ74020		0.22	0.003	0.08	6.70	10.0	840	1.17	0.15	1.75	0.18	46.0	23.4	86	4.36	90.3
ZZ74021		0.24	0.013	0.10	6.61	7.8	810	1.14	0.17	1.90	0.15	45.2	20.6	91	3.31	66.2
ZZ74022		0.25	0.003	0.15	6.39	7.8	780	1.07	0.18	1.74	0.22	45.6	21.5	92	5.53	75.5
ZZ74023		0.28	0.004	0.17	6.52	8.5	660	1.03	0.17	2.00	0.19	36.9	38.5	86	5.80	122.0
ZZ74024		0.26	0.007	0.18	6.76	8.6	720	1.10	0.13	2.40	0.19	51.8	24.2	87	6.31	99.4



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		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
DD021590		5.21	16.85	0.13	1.8	0.056	1.19	25.8	14.6	1.50	927	0.90	2.02	8.1	27.7	710
DD021591		4.54	15.95	0.12	1.6	0.045	1.14	19.3	14.2	1.34	790	0.89	1.81	7.5	26.8	1010
DD021592		7.75	17.50	0.13	2.0	0.077	0.91	17.0	19.0	2.02	1460	1.99	1.76	6.5	60.6	1080
DD021593		5.38	17.90	0.13	1.6	0.075	1.05	15.2	18.0	1.91	1820	0.92	1.84	7.2	38.4	1280
DD021594		8.49	19.85	0.12	1.9	0.092	0.69	12.0	38.1	2.65	2230	0.90	1.26	4.3	52.0	980
DD021595		8.46	22.4	0.14	2.5	0.102	1.94	9.2	198.0	1.67	1980	1.85	0.86	4.1	51.7	840
DD021680		4.91	18.10	0.12	1.7	0.058	1.18	14.0	22.0	1.52	1500	1.40	1.75	7.8	30.7	1090
DD021681		2.44	8.70	0.11	1.0	0.029	0.51	9.3	8.8	0.75	1400	0.96	0.87	2.9	14.2	1450
DD021682		5.71	15.80	0.13	1.3	0.064	0.83	11.4	24.2	2.54	1650	1.00	1.35	4.7	30.2	1300
DD021683		4.56	17.15	0.16	1.5	0.055	1.31	20.3	19.7	1.80	964	0.73	2.09	8.0	42.3	990
DD021684		7.28	20.8	0.21	1.5	0.072	0.96	17.5	23.6	3.48	2230	1.03	1.48	6.0	65.6	2210
DD021685		7.59	17.50	0.16	1.6	0.066	1.41	13.3	30.3	0.95	1660	0.92	0.98	4.8	32.5	1310
DD021686		8.09	22.8	0.14	1.7	0.095	0.54	11.3	25.7	3.86	2050	1.48	0.81	4.6	52.0	3200
DD021687		4.19	16.90	0.11	1.5	0.057	1.21	19.9	17.1	1.56	920	1.71	1.69	7.0	40.5	1310
DD021688		4.57	18.10	0.12	1.6	0.059	1.23	19.8	17.3	1.74	1130	0.93	1.72	8.0	44.2	860
DD021689		1.43	4.71	0.10	0.4	0.021	0.30	5.1	4.8	0.63	882	0.61	0.52	1.7	16.5	970
DD021690		4.03	12.75	0.14	1.2	0.048	0.70	11.1	12.3	1.60	1860	0.96	1.27	4.1	28.1	1640
DD021691		5.05	14.95	0.12	1.3	0.047	0.43	7.4	12.9	2.74	1080	0.68	1.73	4.5	57.5	1170
DD021692		3.83	14.05	0.15	1.4	0.054	1.08	16.9	16.9	1.35	1250	1.01	1.45	6.6	29.8	1500
DD021693		5.52	19.00	0.13	1.5	0.061	1.05	14.6	18.8	2.41	1050	0.89	1.90	5.5	48.0	850
DD021694		4.11	14.95	0.13	1.2	0.052	0.98	14.6	16.0	1.67	1160	1.35	1.44	5.2	30.7	1600
DD021695		4.22	16.30	0.14	1.7	0.054	1.17	23.2	22.7	1.43	893	0.93	1.85	7.0	28.2	970
DD021696		3.96	14.85	0.13	1.7	0.044	0.92	15.6	16.5	1.16	830	1.14	1.27	6.1	26.0	2210
DD021697		4.17	15.35	0.13	1.4	0.048	0.99	16.2	18.2	1.33	1190	1.12	1.44	5.3	27.5	1600
DD021698		5.15	15.05	0.16	1.2	0.057	0.92	15.9	15.7	1.65	1460	0.96	1.69	5.7	31.9	1440
DD021699		5.39	17.80	0.14	1.5	0.057	1.02	12.0	18.9	1.67	1090	1.27	1.77	5.2	28.2	1150
DD021700		4.37	16.30	0.13	1.6	0.042	1.11	17.3	17.0	1.31	895	1.17	1.76	5.2	23.3	1130
ZZ74012		5.10	17.80	0.14	1.7	0.059	1.18	24.1	16.0	1.59	1120	0.95	1.89	6.7	35.4	830
ZZ74013		6.54	19.30	0.12	1.9	0.072	1.08	19.0	16.9	1.99	1100	1.04	1.95	6.9	46.6	850
ZZ74014		4.52	16.85	0.13	1.7	0.056	1.19	20.7	17.0	1.35	988	0.89	1.75	6.7	37.0	1050
ZZ74015		4.10	14.55	0.12	1.7	0.042	1.16	18.6	16.8	1.23	908	0.98	1.82	7.1	32.1	1430
ZZ74016		4.25	15.70	0.14	1.8	0.043	1.30	25.9	17.2	1.41	866	0.75	2.19	10.3	33.0	1030
ZZ74017		5.45	16.70	0.13	2.2	0.046	1.29	30.9	19.5	1.73	964	0.78	2.08	8.0	34.5	1090
ZZ74018		6.05	16.35	0.17	2.5	0.058	1.20	41.3	16.1	1.76	1110	1.10	1.91	11.4	32.3	1300
ZZ74019		3.69	16.00	0.19	1.8	0.048	1.47	27.5	15.3	1.26	693	0.88	2.28	8.7	31.2	850
ZZ74020		4.52	15.45	0.13	1.5	0.048	1.32	18.7	18.3	1.73	789	0.89	2.00	6.9	42.8	680
ZZ74021		4.30	15.60	0.15	1.5	0.050	1.23	20.3	18.7	1.56	836	1.07	1.98	7.1	38.5	970
ZZ74022		4.63	16.50	0.14	1.4	0.056	1.24	19.9	21.3	1.69	910	1.28	1.77	7.9	37.2	1330
ZZ74023		5.80	17.50	0.15	1.6	0.064	1.06	16.3	19.6	1.88	1210	1.44	1.86	7.1	37.9	1290
ZZ74024		4.94	16.45	0.16	1.6	0.048	1.14	24.9	17.7	1.82	1070	0.85	1.97	8.1	42.7	950



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti
		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	0.2	0.005	0.02
DD021590		11.8	38.5	0.003	0.02	1.05	17.9	2	1.3	299	0.67	0.05	7.0	0.504	0.30
DD021591		10.3	39.6	0.003	0.06	1.00	15.7	1	1.2	253	0.62	<0.05	6.8	0.438	0.32
DD021592		11.5	34.6	0.004	0.08	1.25	23.1	3	1.2	198.0	0.46	0.10	5.5	0.561	0.31
DD021593		10.6	37.7	0.003	0.06	1.17	22.5	1	1.3	216	0.52	0.05	4.9	0.514	0.30
DD021594		7.0	31.5	0.003	0.05	1.47	53.8	2	1.2	153.0	0.33	<0.05	2.9	0.651	0.22
DD021595		5.7	78.9	0.004	0.04	20.7	54.9	3	1.3	183.0	0.28	0.06	1.8	0.936	0.56
DD021680		13.1	50.7	0.004	0.07	1.24	20.2	1	1.4	224	0.56	<0.05	4.5	0.476	0.32
DD021681		5.9	15.5	0.004	0.21	0.65	13.1	1	0.7	208	0.20	0.06	2.4	0.234	0.16
DD021682		7.1	38.9	<0.002	0.10	0.83	33.5	2	0.9	195.0	0.35	<0.05	2.8	0.497	0.24
DD021683		12.2	53.6	<0.002	0.05	0.97	24.8	2	1.1	288	0.57	<0.05	6.7	0.439	0.37
DD021684		8.5	28.1	<0.002	0.11	0.91	32.4	3	1.0	254	0.47	<0.05	3.9	0.486	0.26
DD021685		7.0	58.6	<0.002	0.10	4.55	34.5	2	0.9	260	0.35	<0.05	3.0	0.634	0.43
DD021686		6.5	22.3	0.002	0.16	0.83	24.7	2	1.1	113.0	0.32	0.05	2.9	0.529	0.19
DD021687		11.4	47.8	0.004	0.07	0.81	20.0	1	1.3	229	0.49	<0.05	6.5	0.427	0.36
DD021688		11.6	43.5	0.005	0.06	0.90	20.3	2	1.4	248	0.57	<0.05	6.0	0.430	0.37
DD021689		3.6	10.5	<0.002	0.18	0.38	6.7	1	0.5	92.2	0.11	<0.05	1.4	0.132	0.08
DD021690		8.0	27.5	0.004	0.16	0.71	18.0	2	0.9	168.0	0.31	<0.05	3.9	0.322	0.22
DD021691		3.5	13.8	0.003	0.12	0.43	26.6	2	0.9	170.0	0.31	<0.05	1.6	0.493	0.11
DD021692		9.8	45.1	0.002	0.12	0.87	26.1	2	1.1	233	0.50	<0.05	5.2	0.342	0.31
DD021693		7.7	32.5	0.002	0.04	0.87	27.6	1	1.2	247	0.39	0.05	4.3	0.537	0.25
DD021694		9.6	38.7	0.003	0.13	0.77	20.4	2	1.0	218	0.37	0.05	4.7	0.370	0.26
DD021695		10.9	44.4	0.002	0.06	1.03	19.8	3	1.3	229	0.49	<0.05	7.9	0.444	0.33
DD021696		13.3	37.5	0.002	0.15	0.78	17.8	2	1.1	193.5	0.42	<0.05	5.6	0.322	0.26
DD021697		9.3	36.8	0.005	0.12	0.69	22.6	2	1.0	272	0.39	<0.05	5.1	0.326	0.26
DD021698		10.0	34.6	0.002	0.09	0.74	23.7	1	1.1	223	0.43	0.07	5.1	0.478	0.24
DD021699		32.0	31.8	0.002	0.07	0.77	21.3	2	1.1	308	0.36	<0.05	3.9	0.484	0.22
DD021700		12.5	32.3	0.003	0.08	0.74	17.0	1	1.0	325	0.39	<0.05	4.9	0.385	0.20
ZZ74012		19.0	39.8	0.002	0.04	1.06	18.6	2	1.2	298	0.48	<0.05	6.7	0.464	0.29
ZZ74013		10.6	38.1	0.003	0.05	1.42	22.2	1	1.3	253	0.50	<0.05	5.4	0.528	0.31
ZZ74014		17.2	42.2	0.004	0.05	1.18	16.8	2	1.2	250	0.50	0.08	6.9	0.370	0.35
ZZ74015		13.5	54.4	<0.002	0.08	1.19	15.1	1	1.3	259	0.54	0.05	6.1	0.377	0.35
ZZ74016		11.6	46.8	<0.002	0.02	0.88	17.3	2	1.2	343	0.92	<0.05	6.8	0.465	0.30
ZZ74017		13.5	49.0	<0.002	0.02	1.00	20.0	1	1.3	315	0.63	0.06	10.0	0.549	0.34
ZZ74018		11.6	50.2	<0.002	0.04	1.00	21.5	2	1.8	292	1.01	0.06	10.8	0.622	0.35
ZZ74019		12.8	54.8	<0.002	0.01	1.02	16.3	2	1.5	342	0.68	<0.05	8.6	0.411	0.40
ZZ74020		13.5	47.4	<0.002	0.04	1.03	14.8	2	1.3	280	0.56	0.05	7.1	0.389	0.41
ZZ74021		12.9	45.5	<0.002	0.05	1.02	16.0	1	1.4	279	0.53	0.06	6.9	0.394	0.35
ZZ74022		12.8	48.7	<0.002	0.07	1.24	16.4	1	1.3	248	0.64	0.06	6.6	0.427	0.40
ZZ74023		11.8	41.2	<0.002	0.08	1.43	18.5	1	1.4	241	0.59	0.06	9.1	0.498	0.37
ZZ74024		11.3	39.2	<0.002	0.05	0.82	17.8	1	1.4	310	0.60	0.05	7.4	0.504	0.34



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Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
DD021590		154	1.9	18.5	62	46.1
DD021591		134	2.1	15.6	60	39.8
DD021592		196	3.3	21.4	115	46.3
DD021593		177	1.8	22.0	75	38.4
DD021594		263	5.1	35.6	105	84.5
DD021595		326	12.8	33.2	102	82.7
DD021680		176	1.3	15.1	74	44.3
DD021681		77	0.5	13.4	42	26.8
DD021682		195	1.2	15.8	65	40.3
DD021683		145	1.4	22.3	65	44.2
DD021684		214	1.1	40.9	125	45.3
DD021685		237	4.1	26.4	105	45.6
DD021686		272	0.5	24.9	119	41.3
DD021687		144	2.5	19.8	67	41.3
DD021688		151	1.0	18.1	73	42.5
DD021689		46	0.2	6.3	42	10.8
DD021690		133	0.6	18.4	62	27.4
DD021691		180	0.4	17.0	69	29.1
DD021692		133	0.9	22.9	81	33.8
DD021693		190	1.3	20.1	74	39.9
DD021694		139	1.8	20.4	84	31.9
DD021695		141	1.3	22.2	67	51.6
DD021696		125	1.0	18.2	63	37.6
DD021697		131	1.0	29.0	74	36.6
DD021698		173	2.4	28.1	75	30.6
DD021699		173	1.6	14.5	96	41.3
DD021700		128	2.0	18.7	82	47.3
ZZ74012		156	4.4	21.8	77	40.8
ZZ74013		191	1.4	20.2	88	42.3
ZZ74014		131	1.8	15.8	72	38.9
ZZ74015		116	1.3	15.4	62	50.8
ZZ74016		136	2.3	21.8	70	54.8
ZZ74017		157	2.6	28.3	82	59.6
ZZ74018		163	1.5	32.9	81	80.4
ZZ74019		115	1.3	20.6	65	47.3
ZZ74020		134	1.1	15.9	69	42.3
ZZ74021		127	1.7	16.4	75	41.9
ZZ74022		136	1.1	17.9	84	45.1
ZZ74023		182	1.2	19.8	95	39.5
ZZ74024		155	1.1	25.1	76	49.6



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Sample Description	Method Analyte Units LOR	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
ZZ74025		0.32	0.006	0.17	7.20	9.7	700	1.02	0.20	1.97	0.51	55.0	39.1	108	5.35	205
ZZ74026		0.37	0.011	0.19	6.77	6.3	880	1.15	0.18	2.13	0.40	55.9	21.8	80	3.22	117.5
ZZ74027		0.25	0.005	0.14	6.20	6.2	840	1.07	0.17	1.64	0.13	39.5	16.6	78	3.99	66.1
ZZ74028		0.30	0.005	0.16	7.23	7.8	980	1.37	0.21	1.98	0.15	53.6	26.8	87	4.16	127.0
ZZ74029		0.32	0.005	0.22	7.37	7.3	880	1.28	0.18	2.22	0.15	46.1	24.5	88	6.84	100.5
ZZ74030		0.26	0.006	0.14	6.86	6.2	870	1.20	0.19	2.05	0.25	54.3	16.0	88	4.20	39.6
ZZ74031		0.24	0.006	0.16	6.49	7.1	750	1.13	0.18	1.91	0.28	45.4	23.6	80	3.95	71.5
ZZ74032		0.27	0.034	0.12	6.59	6.8	790	1.08	0.28	2.21	0.22	54.4	25.3	97	3.58	81.6
ZZ74033		0.29	0.008	0.24	7.64	19.7	570	1.01	0.20	1.62	0.28	33.5	59.9	112	15.85	216
ZZ74034		0.22	0.004	0.16	6.76	7.6	680	1.22	0.20	1.52	0.36	49.8	24.1	68	11.40	87.2
ZZ74035		0.28	0.006	0.30	6.68	6.2	700	0.95	0.17	1.99	0.14	37.4	21.0	87	9.42	89.1
ZZ74036		0.25	0.009	0.28	7.43	10.7	710	1.12	0.22	2.09	0.31	44.1	32.6	97	7.25	101.0
ZZ74037		0.29	0.004	0.18	7.23	8.5	700	1.11	0.17	2.64	0.17	44.2	31.2	92	4.84	111.5
ZZ74038		0.29	0.004	0.15	7.58	8.4	800	1.17	0.16	2.57	0.17	51.0	26.6	104	3.97	66.5
ZZ74039		0.27	0.005	0.19	6.83	6.1	700	0.97	0.16	2.25	0.19	38.0	31.1	85	4.70	103.5
ZZ74040		0.31	0.008	0.07	7.06	6.2	930	1.13	0.15	2.20	0.15	41.6	15.8	103	3.11	54.4
ZZ74051		0.33	0.003	0.10	6.88	6.7	940	1.29	0.15	1.76	0.13	45.3	14.1	88	2.93	42.2
ZZ74052		0.28	0.001	0.13	7.20	6.1	800	1.01	0.18	2.15	0.20	45.1	19.1	71	4.89	71.2
ZZ74053		0.31	0.005	0.34	7.14	11.4	820	1.25	0.18	2.08	0.29	49.7	31.1	100	9.32	121.5
ZZ74054		0.25	0.004	0.25	7.19	10.6	830	1.08	0.22	1.96	0.24	44.0	32.3	86	7.77	129.0
ZZ74055		0.35	0.005	0.07	6.89	6.9	940	1.15	0.17	1.75	0.15	49.6	14.7	82	3.13	42.0
ZZ74056		0.30	0.003	0.17	6.30	6.2	790	0.94	0.18	1.63	0.19	37.4	15.7	83	3.83	40.1
ZZ74057		0.32	0.005	0.10	6.92	6.6	950	1.23	0.17	1.69	0.17	43.6	13.4	81	2.84	33.3
ZZ74058		0.29	0.020	0.16	7.26	7.0	900	1.33	0.20	2.15	0.25	52.4	20.8	87	2.99	94.3
ZZ74059		0.26	0.009	0.16	6.96	10.4	500	0.85	0.15	1.96	0.39	36.9	47.6	107	9.79	173.0
ZZ74060		0.22	0.008	0.14	6.40	10.9	650	1.13	0.14	2.40	0.21	54.5	40.5	75	4.73	187.0
ZZ74061		0.21	0.007	0.15	6.79	9.6	800	1.16	0.17	1.81	0.29	39.2	31.3	96	3.04	105.0
ZZ74062		0.25	0.007	0.22	7.89	17.8	540	1.24	0.23	1.67	0.73	38.6	32.5	115	9.28	134.0
ZZ74063		0.20	0.008	0.13	7.09	18.0	530	0.98	0.10	2.22	0.28	30.5	32.0	136	6.83	138.0
ZZ74064		0.26	0.017	0.20	7.05	10.5	610	1.01	0.21	2.46	1.37	36.7	34.8	76	3.86	161.0
ZZ74065		0.24	0.012	0.44	5.56	9.4	540	0.77	0.24	1.77	0.09	24.5	15.8	64	3.84	329
ZZ74066		0.32	0.011	0.60	3.27	11.0	150	0.23	0.82	1.18	0.03	8.16	9.0	68	1.65	737
ZZ74067		0.28	0.010	0.23	7.01	9.5	700	1.12	0.21	2.40	0.83	39.8	47.9	85	2.40	581
ZZ74068		0.33	0.004	0.07	6.62	7.2	730	1.02	0.17	1.94	0.18	34.5	22.1	89	2.83	125.5
ZZ74069		0.19	0.002	0.09	5.68	4.8	670	1.04	0.17	1.59	0.18	34.5	10.4	61	2.34	36.3
ZZ74070		0.22	0.012	0.40	6.70	14.4	590	0.95	0.18	2.04	0.37	28.4	39.4	80	4.71	438
ZZ74071		0.28	0.006	0.18	7.09	8.8	730	1.01	0.14	2.24	0.19	39.3	24.2	96	3.13	103.0
ZZ74072		0.19	<0.001	0.06	6.89	6.2	700	1.00	0.15	2.05	0.11	32.5	15.6	75	2.06	42.1
ZZ74073		0.15	0.002	0.08	6.10	6.5	670	0.93	0.14	1.78	0.23	28.9	16.8	73	2.33	51.6
ZZ74074		0.22	0.003	0.09	6.11	9.8	670	0.90	0.18	1.78	0.41	33.7	25.6	76	5.00	274



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Sample Description	Method Analyte Units LOR	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
		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
ZZ74025		6.15	18.25	0.15	2.0	0.087	1.11	23.9	21.9	1.90	1540	1.43	1.94	8.1	46.8	1410
ZZ74026		4.08	15.70	0.16	2.0	0.045	1.44	26.5	16.6	1.21	867	0.90	2.03	9.2	34.4	920
ZZ74027		3.91	15.70	0.14	1.7	0.046	1.34	18.4	17.7	1.22	652	1.45	1.81	8.1	33.9	1310
ZZ74028		4.11	15.75	0.14	1.6	0.050	1.48	27.1	17.0	1.35	695	1.01	2.29	13.6	44.4	780
ZZ74029		4.45	18.05	0.13	1.6	0.056	1.36	21.8	19.1	1.56	772	1.01	2.08	8.6	40.8	880
ZZ74030		4.03	16.40	0.15	2.3	0.053	1.33	26.6	18.3	1.27	833	1.02	2.00	9.2	34.7	1270
ZZ74031		4.20	16.15	0.12	1.5	0.061	1.12	21.8	19.1	1.38	917	1.14	1.71	7.7	40.0	1490
ZZ74032		4.57	16.10	0.13	1.8	0.054	1.22	25.7	19.3	1.57	876	1.10	1.94	9.2	45.1	910
ZZ74033		7.22	18.95	0.11	1.7	0.067	0.83	14.1	29.1	1.54	1500	2.51	1.63	4.7	75.0	760
ZZ74034		4.72	16.50	0.13	1.7	0.060	1.03	21.5	23.9	1.28	1120	1.18	1.54	6.6	39.7	1840
ZZ74035		4.97	16.35	0.14	1.7	0.053	0.98	17.5	22.0	1.47	1040	1.41	1.71	6.4	38.3	1520
ZZ74036		5.55	18.95	0.13	1.6	0.058	1.02	19.2	26.1	1.92	1230	1.78	1.73	6.7	51.6	1850
ZZ74037		5.28	18.20	0.14	1.5	0.059	1.01	19.8	22.3	1.85	981	1.37	2.03	7.0	52.1	1150
ZZ74038		5.23	18.85	0.14	1.8	0.059	1.18	23.0	22.4	2.01	980	1.35	2.32	7.9	55.3	770
ZZ74039		4.85	16.55	0.16	1.5	0.051	1.05	18.3	20.3	1.67	944	1.09	1.88	6.2	47.5	1230
ZZ74040		3.73	16.35	0.14	1.7	0.049	1.44	19.8	15.8	1.39	672	0.74	2.37	7.7	40.7	850
ZZ74051		3.47	15.90	0.16	1.6	0.048	1.42	20.7	17.4	1.23	642	0.81	2.13	8.2	35.7	1000
ZZ74052		4.57	17.55	0.15	1.8	0.060	1.31	22.0	20.2	1.61	952	1.10	2.08	7.1	35.2	1240
ZZ74053		5.52	18.40	0.15	1.5	0.065	1.24	24.2	25.2	1.93	1340	1.01	1.94	7.3	62.0	990
ZZ74054		5.54	18.15	0.15	1.4	0.055	1.23	20.8	23.1	1.99	1180	0.91	1.94	7.1	51.6	1050
ZZ74055		3.73	15.40	0.14	1.5	0.041	1.42	22.6	18.6	1.35	644	0.74	2.06	7.2	36.0	740
ZZ74056		4.24	16.40	0.14	1.5	0.048	1.20	17.2	20.6	1.32	776	1.01	1.78	7.1	31.0	1450
ZZ74057		3.59	15.40	0.13	1.4	0.041	1.44	20.9	17.6	1.27	723	0.87	2.02	7.8	32.5	1220
ZZ74058		4.65	17.20	0.15	1.4	0.058	1.34	24.9	18.5	1.81	852	1.11	2.33	8.0	42.3	800
ZZ74059		7.49	18.35	0.14	2.4	0.070	0.77	14.8	21.8	2.61	1720	1.28	1.72	5.3	59.7	1270
ZZ74060		5.67	16.80	0.13	1.3	0.063	1.00	25.5	20.5	1.53	1040	1.02	1.67	6.9	39.9	1120
ZZ74061		4.35	15.80	0.17	1.5	0.063	1.29	17.4	19.5	1.45	1120	0.87	1.75	6.9	54.9	1030
ZZ74062		6.33	17.80	0.14	2.1	0.069	1.17	19.7	32.6	1.47	1670	1.08	1.29	4.7	49.7	1080
ZZ74063		5.67	16.50	0.14	1.9	0.059	0.92	14.4	30.4	1.57	1140	0.95	1.59	5.0	59.6	1160
ZZ74064		5.12	16.75	0.13	1.9	0.059	1.17	16.3	17.5	1.53	1200	1.33	1.90	6.5	47.5	1550
ZZ74065		11.70	15.90	0.16	1.8	0.053	1.15	12.0	13.0	1.26	576	1.84	1.69	5.5	23.3	1480
ZZ74066		24.0	14.15	0.23	1.5	0.117	0.29	3.6	4.3	1.47	786	4.73	0.75	2.0	12.2	1420
ZZ74067		6.59	16.45	0.16	2.4	0.071	1.13	17.6	13.8	1.71	1040	1.32	2.23	6.6	50.2	900
ZZ74068		4.16	16.20	0.13	1.7	0.058	1.17	15.5	16.3	1.47	825	0.95	1.88	6.8	41.6	900
ZZ74069		3.23	15.20	0.13	1.9	0.043	1.21	16.3	11.4	0.95	578	1.13	1.65	6.5	21.3	1330
ZZ74070		5.53	16.05	0.14	1.7	0.063	0.99	14.2	19.2	1.75	1090	1.25	1.77	5.2	48.6	1130
ZZ74071		4.50	16.60	0.13	1.5	0.068	1.13	17.5	17.2	1.67	918	0.81	2.11	6.4	44.2	790
ZZ74072		3.81	15.85	0.14	1.5	0.041	1.14	15.6	14.7	1.35	703	0.77	2.08	6.2	29.4	1000
ZZ74073		3.61	14.65	0.15	1.9	0.046	1.01	13.7	15.4	1.25	762	1.00	1.81	6.0	31.5	1180
ZZ74074		4.20	14.35	0.15	1.7	0.055	1.07	15.8	16.6	1.24	864	1.98	1.66	6.6	36.8	1370



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		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	0.2	0.005	0.1
ZZ74025		17.6	44.0	<0.002	0.04	1.19	23.1	3	1.5	253	0.69	0.10	11.4	0.537	2.9
ZZ74026		35.5	52.0	<0.002	0.05	1.01	13.7	2	1.5	308	0.80	<0.05	10.4	0.420	2.3
ZZ74027		12.9	53.4	<0.002	0.09	1.10	13.6	2	1.5	262	0.60	0.05	6.7	0.372	2.1
ZZ74028		14.5	54.9	<0.002	0.04	1.19	16.3	2	1.4	338	1.59	0.10	8.7	0.374	4.1
ZZ74029		14.5	51.0	<0.002	0.05	1.13	17.9	1	1.5	314	0.65	0.05	9.0	0.427	2.4
ZZ74030		16.8	55.1	<0.002	0.07	0.97	14.7	2	1.4	313	0.67	<0.05	9.6	0.436	2.3
ZZ74031		14.3	45.9	<0.002	0.09	1.05	15.1	1	1.4	253	0.56	0.07	7.3	0.399	1.9
ZZ74032		13.8	42.9	<0.002	0.05	0.92	16.7	1	1.5	302	0.68	0.11	8.3	0.510	2.2
ZZ74033		13.5	33.4	<0.002	0.04	2.46	32.7	2	1.3	190.5	0.36	0.12	4.1	0.668	2.1
ZZ74034		19.3	49.1	<0.002	0.09	1.03	16.5	1	1.3	192.0	0.46	0.09	8.1	0.390	2.1
ZZ74035		12.9	41.5	<0.002	0.09	0.92	19.2	2	1.3	223	0.49	0.06	23.0	0.435	3.6
ZZ74036		16.2	49.0	<0.002	0.09	1.10	19.6	1	1.4	217	0.46	0.05	7.8	0.460	2.0
ZZ74037		14.3	43.7	<0.002	0.06	1.07	20.8	2	1.4	259	0.49	0.06	8.2	0.485	2.1
ZZ74038		14.6	46.2	<0.002	0.03	1.19	21.3	1	1.4	301	0.55	0.07	7.4	0.526	2.0
ZZ74039		13.8	41.0	<0.002	0.08	1.00	17.0	2	1.2	240	0.42	0.09	5.8	0.448	1.7
ZZ74040		13.7	51.2	<0.002	0.04	1.04	15.9	2	1.3	330	0.62	<0.05	6.4	0.402	1.9
ZZ74051		13.7	56.0	<0.002	0.04	1.02	15.0	2	1.4	303	0.59	0.07	7.0	0.360	2.0
ZZ74052		14.8	44.9	<0.002	0.07	0.83	15.8	2	1.3	363	0.57	<0.05	7.4	0.438	1.9
ZZ74053		16.7	51.7	<0.002	0.04	1.19	24.6	2	1.4	274	0.48	<0.05	8.1	0.440	2.0
ZZ74054		15.1	51.0	<0.002	0.04	1.08	20.3	1	1.4	258	0.52	0.09	8.0	0.434	1.9
ZZ74055		14.9	54.5	<0.002	0.03	0.96	14.8	1	1.4	293	0.53	0.06	10.3	0.365	2.0
ZZ74056		14.7	55.3	<0.002	0.06	0.98	14.9	1	1.3	241	0.52	0.06	7.1	0.400	1.8
ZZ74057		15.2	60.0	<0.002	0.04	1.04	14.7	<1	1.3	290	0.62	<0.05	8.8	0.359	2.2
ZZ74058		14.7	49.8	<0.002	0.01	1.14	18.5	1	1.4	310	0.62	0.06	9.0	0.424	2.2
ZZ74059		10.2	30.1	<0.002	0.07	1.23	24.5	2	1.2	200	0.41	<0.05	4.7	0.582	1.3
ZZ74060		11.0	38.0	<0.002	0.06	1.05	20.0	2	1.5	278	0.51	0.08	7.3	0.505	2.0
ZZ74061		13.6	50.8	0.002	0.05	1.07	18.0	2	1.3	259	0.53	0.06	6.2	0.398	1.6
ZZ74062		78.2	44.4	0.002	0.06	1.06	30.2	3	1.1	171.5	0.34	<0.05	5.6	0.450	2.3
ZZ74063		10.6	36.5	<0.002	0.07	0.84	26.7	2	1.1	208	0.38	<0.05	8.3	0.474	2.1
ZZ74064		21.1	40.1	0.002	0.06	0.80	17.8	3	1.1	335	0.50	0.05	4.4	0.435	1.9
ZZ74065		10.6	34.5	0.003	0.32	0.92	19.2	8	1.2	321	0.41	0.09	4.3	0.437	1.4
ZZ74066		7.9	9.2	0.003	0.82	0.99	26.3	40	1.4	76.2	0.16	0.63	1.3	0.481	0.6
ZZ74067		11.7	40.1	0.004	0.03	0.98	22.5	3	1.3	265	0.47	0.06	4.9	0.529	1.8
ZZ74068		13.5	41.4	0.002	0.04	0.92	18.0	1	1.2	240	0.51	<0.05	4.9	0.432	1.7
ZZ74069		98.3	45.2	0.002	0.08	0.80	13.4	1	1.2	244	0.50	<0.05	4.1	0.405	1.5
ZZ74070		14.5	37.5	0.003	0.06	0.92	21.8	3	1.0	222	0.37	0.08	4.2	0.407	1.4
ZZ74071		12.8	41.5	0.002	0.02	1.21	21.9	1	1.2	248	0.46	<0.05	4.8	0.471	1.5
ZZ74072		10.5	36.0	0.003	0.04	0.71	16.2	1	1.1	300	0.47	<0.05	4.6	0.423	1.5
ZZ74073		10.5	38.6	0.002	0.08	0.76	15.9	1	1.0	230	0.47	<0.05	4.1	0.370	1.4
ZZ74074		11.4	38.6	0.002	0.09	0.91	16.1	2	1.0	225	0.47	<0.05	4.8	0.358	1.8



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Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
ZZ74025		171	1.6	23.0	132	55.4
ZZ74026		126	1.2	16.4	93	52.0
ZZ74027		117	1.1	14.5	67	40.0
ZZ74028		117	1.5	22.6	64	43.0
ZZ74029		147	1.3	19.1	64	46.7
ZZ74030		120	1.7	15.9	71	49.9
ZZ74031		135	1.3	16.4	81	42.9
ZZ74032		141	1.2	18.7	76	49.0
ZZ74033		227	6.5	24.1	103	63.9
ZZ74034		133	2.2	16.4	85	64.9
ZZ74035		154	1.8	22.7	69	41.7
ZZ74036		169	1.8	19.0	84	49.0
ZZ74037		155	1.9	23.4	75	49.8
ZZ74038		162	6.9	21.5	74	59.0
ZZ74039		143	1.7	18.5	74	42.0
ZZ74040		118	1.5	18.0	60	51.4
ZZ74051		106	1.2	16.1	56	40.0
ZZ74052		136	0.9	19.2	86	54.3
ZZ74053		168	1.7	29.8	101	46.1
ZZ74054		165	1.2	24.8	92	37.1
ZZ74055		115	1.3	14.2	60	43.1
ZZ74056		124	1.7	14.0	75	39.7
ZZ74057		108	1.3	14.8	61	40.3
ZZ74058		140	1.3	20.9	93	44.6
ZZ74059		212	1.0	20.6	149	38.2
ZZ74060		162	3.2	23.7	75	40.9
ZZ74061		135	1.4	18.0	82	39.2
ZZ74062		184	2.4	33.4	140	59.0
ZZ74063		182	1.8	24.3	93	43.9
ZZ74064		139	5.2	20.7	220	53.0
ZZ74065		155	1.1	11.6	77	53.9
ZZ74066		242	0.4	5.9	70	24.4
ZZ74067		170	1.5	23.2	185	55.9
ZZ74068		138	1.3	16.2	89	40.3
ZZ74069		115	1.0	14.1	58	45.3
ZZ74070		156	2.5	20.5	171	36.7
ZZ74071		159	1.4	20.9	88	35.0
ZZ74072		131	1.0	15.7	72	38.4
ZZ74073		119	1.0	15.6	76	41.7
ZZ74074		118	1.1	18.3	212	49.4



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Sample Description	Method Analyte Units LOR	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
ZZ74075		0.19	0.003	0.09	6.81	7.5	740	1.17	0.17	1.60	0.15	37.9	21.8	67	3.43	159.0
ZZ74076		0.18	0.007	0.07	6.47	6.3	780	0.99	0.16	1.61	0.18	36.4	13.2	84	2.09	32.0
ZZ74077		0.22	0.004	0.18	6.58	6.5	750	1.08	0.18	1.63	0.10	35.9	12.9	57	2.39	66.0
ZZ74078		0.24	0.002	0.07	6.55	6.5	800	1.05	0.14	1.76	0.11	34.6	12.7	87	1.73	30.0
ZZ74079		0.18	0.004	0.16	6.51	7.0	700	1.01	0.14	2.03	0.12	35.7	13.6	80	2.33	46.3
ZZ74080		0.24	0.013	0.34	7.07	17.1	580	1.00	0.15	1.56	0.19	31.5	29.6	99	4.71	87.7
ZZ74081		0.20	0.009	0.35	7.23	8.5	690	1.04	0.18	1.59	0.16	29.6	23.1	118	4.72	111.5
ZZ74082		0.25	0.015	0.17	6.90	7.9	650	1.08	0.15	1.80	0.29	39.5	21.6	99	3.10	80.4
ZZ74083		0.42	0.006	0.21	7.12	14.0	800	1.20	0.16	1.94	0.13	41.1	17.0	117	2.74	87.8
ZZ74084		0.27	0.010	0.07	6.96	6.9	750	1.05	0.14	2.11	0.20	40.9	16.7	86	1.51	56.4
ZZ74085		0.22	0.014	0.12	6.58	5.5	780	1.08	0.19	1.56	0.13	40.2	10.4	74	2.39	25.1
ZZ74086		0.25	0.006	0.05	6.12	6.7	750	0.94	0.17	1.26	0.19	35.8	10.1	84	1.97	17.8
ZZ74087		0.23	0.006	0.45	7.37	11.7	690	1.09	0.31	1.48	0.22	36.4	17.9	80	4.07	56.0
ZZ74088		0.20	0.004	0.19	6.73	7.6	890	1.32	0.21	1.51	0.12	43.0	11.6	80	3.54	24.6
ZZ74089		0.21	0.002	0.12	6.85	6.0	870	1.11	0.22	1.59	0.15	38.0	12.4	94	3.06	21.2
ZZ74090		0.19	0.008	0.46	6.89	22.9	750	0.99	0.42	1.65	0.35	35.2	23.0	116	6.05	80.1
ZZ74091		0.25	0.004	0.30	6.32	12.6	670	1.02	0.45	1.89	0.22	27.6	17.9	110	3.78	55.5
ZZ74092		0.24	0.004	0.09	6.54	8.5	830	1.09	0.16	1.87	0.21	43.5	13.4	80	1.86	27.1
ZZ74093		0.33	0.067	0.12	6.75	6.7	930	1.20	0.16	1.90	0.22	43.2	14.7	88	2.01	35.8
ZZ74094		0.27	0.001	0.06	6.64	6.1	650	0.91	0.13	2.86	0.18	39.1	20.9	102	3.22	42.0
ZZ74095		0.22	0.001	0.07	6.43	5.3	680	1.00	0.15	2.21	0.15	36.2	16.4	76	3.71	35.9
ZZ74096		0.27	0.003	0.12	6.92	6.4	670	0.92	0.12	2.66	0.20	46.6	23.1	87	2.96	56.4
ZZ74097		0.18	0.004	0.11	6.37	8.7	660	0.97	0.17	1.88	0.15	35.4	23.8	95	6.80	72.5
ZZ74098		0.27	0.001	0.07	6.53	4.5	580	0.84	0.11	2.60	0.18	34.1	24.1	114	6.01	71.8
ZZ74099		0.30	0.009	0.07	6.25	5.9	680	1.08	0.11	2.57	0.17	38.2	19.1	89	3.25	56.0
ZZ74100		0.21	0.002	0.12	6.56	15.8	560	1.08	0.14	2.02	0.28	37.7	26.7	121	8.48	80.4
ZZ74101		0.05	0.005	0.13	5.98	5.1	620	0.95	0.14	1.91	0.66	33.1	16.9	58	4.16	73.2
ZZ74102		0.14	0.006	0.22	8.11	8.2	800	1.18	0.18	1.90	0.31	43.6	27.6	89	5.27	91.1
ZZ74103		0.13	0.005	0.08	7.49	5.9	810	1.10	0.17	1.98	0.18	41.3	15.3	96	3.34	44.8
ZZ74104		0.14	0.002	0.06	6.93	5.8	790	1.11	0.14	1.68	0.23	41.9	14.9	85	2.68	35.0
ZZ74105		0.18	0.005	0.04	6.98	7.8	790	1.57	0.14	2.28	0.17	42.4	20.7	89	2.93	47.3
ZZ74106		0.08	0.002	0.31	7.65	13.9	560	0.90	0.19	1.82	0.55	37.5	43.5	126	4.85	381
ZZ74107		0.11	0.002	0.10	6.73	6.3	900	1.31	0.15	1.89	0.17	47.8	11.9	84	1.83	24.8
ZZ74108		0.11	0.008	0.10	7.45	7.3	810	1.22	0.17	2.53	0.20	54.7	20.3	93	2.45	40.3
ZZ74109		0.09	0.027	0.09	7.33	6.8	570	1.03	0.11	3.42	0.15	42.1	25.0	84	1.83	46.0
ZZ74110		0.08	0.006	0.08	6.37	5.3	580	0.82	0.14	2.64	0.26	37.2	20.0	72	2.22	40.4
ZZ74111		0.06	0.003	0.16	6.40	5.9	580	1.04	0.14	2.40	0.25	37.6	17.5	79	2.38	39.0
ZZ74112		0.09	0.001	0.17	6.34	5.3	560	0.87	0.15	2.47	0.19	31.7	15.8	75	2.83	36.8
ZZ74113		0.11	0.006	0.15	7.27	10.3	670	1.03	0.16	2.89	0.16	39.8	29.7	90	3.40	72.4
ZZ74114		0.03	0.011	0.14	4.83	3.9	480	0.59	0.14	2.01	0.28	22.9	12.5	61	2.99	32.0



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Sample Description	Method Analyte Units LOR	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
		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
ZZ74075		4.14	15.65	0.16	1.8	0.057	1.35	17.7	15.3	1.17	657	1.56	1.99	6.2	29.6	1000
ZZ74076		3.43	15.35	0.17	1.8	0.048	1.30	17.6	14.2	1.18	646	1.12	1.92	7.9	30.8	1000
ZZ74077		3.13	16.05	0.14	1.9	0.046	1.42	17.7	16.7	1.05	531	1.47	1.96	6.3	26.2	1100
ZZ74078		3.28	14.30	0.14	1.8	0.042	1.21	16.9	12.7	1.15	583	0.89	2.00	6.7	33.4	980
ZZ74079		3.48	16.00	0.13	1.6	0.042	1.20	17.7	17.1	1.34	532	1.46	2.01	5.6	36.7	1080
ZZ74080		5.64	17.50	0.16	1.7	0.060	1.09	15.0	25.5	1.85	1170	1.42	1.62	4.8	50.4	1150
ZZ74081		4.88	18.40	0.13	1.5	0.066	1.05	13.6	24.6	2.09	655	3.24	1.66	6.0	60.3	1450
ZZ74082		4.29	16.50	0.16	1.5	0.055	1.08	18.0	18.8	1.65	656	2.44	1.90	5.7	49.3	1100
ZZ74083		3.96	16.85	0.15	1.6	0.056	1.22	20.2	20.9	1.59	548	2.35	2.07	7.5	48.4	690
ZZ74084		3.87	15.70	0.13	1.6	0.056	1.17	19.1	12.9	1.47	669	0.87	2.39	6.8	35.3	700
ZZ74085		2.96	16.65	0.14	2.2	0.041	1.39	18.9	16.1	1.03	429	1.09	1.92	8.3	25.9	1090
ZZ74086		3.21	15.50	0.15	1.7	0.043	1.22	16.3	14.4	0.90	529	0.97	1.57	8.8	23.9	1310
ZZ74087		4.33	17.90	0.18	2.1	0.049	1.32	18.1	25.1	1.20	787	1.76	1.74	5.9	35.5	1340
ZZ74088		3.03	16.60	0.14	1.7	0.049	1.50	22.7	21.0	1.04	455	1.27	1.84	9.8	27.6	1370
ZZ74089		3.34	15.25	0.16	1.6	0.042	1.36	17.7	17.1	1.32	543	1.03	1.99	7.5	33.2	1250
ZZ74090		5.05	16.90	0.14	1.4	0.065	1.20	18.5	21.5	1.89	828	1.95	1.74	6.1	58.5	1240
ZZ74091		4.18	14.40	0.16	1.2	0.048	0.95	15.3	17.2	1.74	638	1.42	1.82	5.0	47.2	1040
ZZ74092		3.13	14.60	0.15	1.8	0.043	1.41	19.5	15.5	1.14	735	1.11	2.13	6.7	30.9	950
ZZ74093		3.03	15.35	0.13	1.6	0.040	1.40	20.5	15.6	1.24	625	0.88	2.13	7.5	35.6	700
ZZ74094		4.48	14.80	0.17	1.4	0.052	1.01	16.5	12.3	1.71	874	0.88	2.08	6.7	40.2	850
ZZ74095		3.71	15.30	0.17	1.6	0.045	1.18	16.2	16.1	1.48	755	1.00	1.98	6.1	31.0	1210
ZZ74096		4.68	15.90	0.14	1.4	0.052	1.09	20.1	14.6	1.84	871	0.64	2.19	6.0	38.4	590
ZZ74097		4.99	15.35	0.10	1.5	0.055	1.06	16.6	21.6	1.83	1120	1.18	1.55	6.9	41.0	1600
ZZ74098		4.99	15.10	0.11	1.5	0.059	0.92	16.5	18.6	2.64	1060	0.62	1.96	6.8	43.2	1200
ZZ74099		4.53	15.20	0.12	1.4	0.056	1.14	17.6	16.5	1.62	827	0.57	2.11	7.7	33.7	930
ZZ74100		6.09	15.15	0.14	1.6	0.067	0.94	18.8	28.5	1.56	1320	0.94	1.46	6.5	49.8	1770
ZZ74101		4.02	14.10	0.11	1.7	0.046	1.14	15.3	15.6	1.15	1100	1.04	1.82	7.0	24.1	1590
ZZ74102		5.28	18.20	0.17	1.8	0.055	1.26	21.5	21.2	1.84	1010	1.24	1.95	11.2	42.1	1480
ZZ74103		4.09	16.90	0.16	1.6	0.046	1.30	21.4	17.4	1.49	689	1.31	1.94	9.6	35.9	1590
ZZ74104		3.87	15.70	0.14	1.6	0.046	1.17	22.3	15.5	1.24	795	1.11	1.77	7.8	31.9	1700
ZZ74105		4.50	15.95	0.14	1.6	0.055	1.26	20.1	18.5	1.58	775	0.76	2.09	8.5	44.7	910
ZZ74106		7.20	18.15	0.13	2.3	0.094	0.90	14.8	25.7	2.14	1300	1.42	1.91	5.0	55.3	800
ZZ74107		3.39	14.45	0.13	1.7	0.045	1.33	21.2	13.4	1.17	668	0.88	2.09	7.3	30.6	1100
ZZ74108		4.69	16.70	0.16	1.5	0.060	1.14	22.9	16.2	1.72	932	0.82	2.15	7.4	40.3	1270
ZZ74109		5.46	17.25	0.16	2.0	0.069	0.87	17.3	13.6	2.02	959	0.57	2.43	6.0	38.0	700
ZZ74110		4.55	16.25	0.14	1.7	0.057	0.89	15.8	13.2	1.56	953	0.89	2.00	6.0	29.5	1220
ZZ74111		4.68	16.65	0.14	1.7	0.059	0.88	16.4	15.1	1.42	736	1.13	1.85	6.8	29.0	1010
ZZ74112		4.52	16.25	0.14	1.8	0.057	0.87	15.0	12.7	1.40	643	1.04	1.84	6.2	26.7	880
ZZ74113		5.20	17.35	0.15	1.6	0.059	0.97	16.9	18.3	1.94	1060	0.81	2.15	6.4	41.1	1040
ZZ74114		3.47	11.30	0.12	1.1	0.044	0.67	10.8	11.8	1.06	567	0.98	1.37	4.3	21.5	1430



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti
		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	0.2	0.005	0.02
ZZ74075		10.9	43.3	0.003	0.05	0.92	14.4	3	1.1	297	0.46	<0.05	4.8	0.354	0.32
ZZ74076		11.4	44.6	0.003	0.04	0.98	14.8	1	1.3	272	0.64	<0.05	5.4	0.417	0.35
ZZ74077		11.3	42.7	0.003	0.07	0.76	12.3	1	1.0	331	0.47	<0.05	4.9	0.327	0.33
ZZ74078		11.6	40.9	0.002	0.04	0.96	15.0	2	1.2	266	0.54	<0.05	4.6	0.388	0.34
ZZ74079		10.7	34.9	0.002	0.07	0.92	15.4	2	1.0	362	0.40	<0.05	4.6	0.359	0.28
ZZ74080		18.5	34.1	0.004	0.08	0.88	23.0	2	1.0	243	0.35	<0.05	4.3	0.377	0.27
ZZ74081		16.1	30.1	0.004	0.10	0.99	23.3	2	1.1	220	0.44	<0.05	4.4	0.415	0.32
ZZ74082		12.9	36.2	0.003	0.08	0.89	20.0	2	1.0	255	0.42	<0.05	4.5	0.406	0.26
ZZ74083		11.8	43.0	0.004	0.03	1.00	20.8	3	1.3	276	0.56	<0.05	5.3	0.444	0.34
ZZ74084		11.7	35.5	0.002	0.01	0.94	19.5	2	1.2	297	0.53	<0.05	5.2	0.473	0.31
ZZ74085		13.5	47.9	0.002	0.04	0.87	14.8	1	1.3	292	0.62	<0.05	5.5	0.392	0.37
ZZ74086		11.8	42.3	0.003	0.04	1.00	13.4	1	1.4	217	0.66	<0.05	4.9	0.390	0.41
ZZ74087		18.1	43.5	0.002	0.06	0.81	20.4	2	1.0	285	0.47	<0.05	4.9	0.357	0.36
ZZ74088		14.5	55.2	<0.002	0.06	0.97	15.4	2	1.3	298	0.71	<0.05	6.1	0.358	0.43
ZZ74089		13.4	48.9	0.003	0.05	0.88	17.4	1	1.2	276	0.59	<0.05	5.3	0.404	0.43
ZZ74090		20.4	39.0	0.002	0.06	1.27	25.5	2	1.2	245	0.47	0.06	4.6	0.398	0.40
ZZ74091		30.2	32.7	0.003	0.07	1.06	22.5	3	0.9	244	0.36	0.08	3.5	0.395	0.33
ZZ74092		12.4	44.2	0.003	0.03	0.86	14.1	1	1.1	324	0.55	<0.05	5.5	0.378	0.32
ZZ74093		13.6	43.4	<0.002	0.02	1.02	16.7	1	1.1	315	0.57	<0.05	5.8	0.406	0.39
ZZ74094		16.4	32.9	0.003	0.05	0.64	20.1	2	1.0	259	0.55	<0.05	5.9	0.487	0.30
ZZ74095		10.8	36.5	0.002	0.07	0.69	17.4	2	1.0	308	0.47	<0.05	4.7	0.389	0.28
ZZ74096		10.6	32.4	0.003	0.02	0.78	21.4	1	1.1	277	0.49	<0.05	5.6	0.512	0.29
ZZ74097		10.7	47.0	<0.002	0.09	0.79	23.9	1	1.0	225	0.49	<0.05	5.4	0.390	0.32
ZZ74098		9.6	39.2	<0.002	0.08	0.62	26.9	1	1.0	221	0.52	<0.05	5.0	0.465	0.26
ZZ74099		17.1	29.3	<0.002	0.03	0.72	20.2	1	1.1	257	0.56	<0.05	5.2	0.503	0.30
ZZ74100		12.0	42.9	<0.002	0.09	0.76	33.9	2	1.0	200	0.44	<0.05	5.4	0.448	0.28
ZZ74101		10.4	41.4	<0.002	0.11	0.67	15.6	1	0.9	291	0.50	<0.05	5.0	0.401	0.29
ZZ74102		15.2	45.1	<0.002	0.07	0.94	21.9	2	1.2	294	0.55	<0.05	7.0	0.451	0.37
ZZ74103		12.9	50.9	<0.002	0.06	0.90	17.3	2	1.3	296	0.63	<0.05	6.9	0.444	0.37
ZZ74104		11.8	47.6	<0.002	0.07	0.87	16.1	2	1.1	249	0.53	<0.05	7.5	0.411	0.35
ZZ74105		13.5	51.0	<0.002	0.04	0.92	19.6	1	1.1	260	0.60	<0.05	7.1	0.436	0.35
ZZ74106		10.0	32.8	0.002	0.04	1.90	28.4	2	1.2	238	0.36	0.07	6.8	0.604	0.27
ZZ74107		12.6	51.1	<0.002	0.05	0.97	13.7	<1	1.1	298	0.52	<0.05	8.8	0.357	0.40
ZZ74108		12.8	44.9	0.002	0.05	0.89	19.1	1	1.3	265	0.52	<0.05	8.4	0.484	0.37
ZZ74109		9.5	32.4	0.002	0.02	0.84	23.9	2	1.2	246	0.46	<0.05	5.5	0.614	0.27
ZZ74110		10.2	35.5	<0.002	0.07	0.89	18.1	2	1.2	240	0.43	<0.05	5.5	0.495	0.27
ZZ74111		10.1	36.7	<0.002	0.07	0.84	18.3	2	1.1	213	0.43	0.06	7.0	0.502	0.29
ZZ74112		9.7	37.1	0.003	0.06	0.87	18.1	1	1.2	209	0.41	<0.05	6.0	0.509	0.27
ZZ74113		11.1	38.6	0.003	0.05	1.09	21.7	1	1.3	246	0.43	<0.05	5.9	0.551	0.30
ZZ74114		8.4	26.5	0.002	0.15	0.97	14.3	<1	0.9	189.5	0.30	0.07	4.6	0.371	0.20



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		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ74075		108	1.0	18.0	89	59.1
ZZ74076		117	1.3	14.9	67	48.7
ZZ74077		92	1.1	13.3	70	56.7
ZZ74078		114	1.1	15.5	54	41.6
ZZ74079		113	0.9	16.6	66	45.7
ZZ74080		161	2.0	19.5	110	48.8
ZZ74081		162	1.9	19.8	107	41.4
ZZ74082		141	1.6	19.6	96	41.5
ZZ74083		148	2.3	22.2	82	39.5
ZZ74084		138	1.6	18.6	82	37.3
ZZ74085		105	1.4	14.0	53	56.8
ZZ74086		108	1.3	13.5	55	54.3
ZZ74087		133	1.6	20.8	83	55.8
ZZ74088		100	1.5	19.4	67	59.4
ZZ74089		120	1.5	16.3	75	39.3
ZZ74090		173	2.2	27.1	108	39.4
ZZ74091		149	1.8	20.7	81	35.8
ZZ74092		109	1.2	14.5	63	42.9
ZZ74093		121	1.4	17.0	66	41.8
ZZ74094		153	1.1	18.3	61	35.7
ZZ74095		124	0.9	16.4	61	44.9
ZZ74096		163	1.5	21.5	63	33.4
ZZ74097		150	1.9	24.2	75	45.7
ZZ74098		170	2.0	25.7	80	41.3
ZZ74099		151	1.9	20.8	67	41.0
ZZ74100		188	1.8	35.1	90	50.0
ZZ74101		122	1.5	15.6	94	52.3
ZZ74102		158	1.8	25.9	94	61.1
ZZ74103		132	1.1	18.0	87	53.4
ZZ74104		125	1.2	16.3	82	52.3
ZZ74105		136	1.5	19.9	66	46.1
ZZ74106		212	2.0	26.5	214	42.6
ZZ74107		107	1.2	14.9	48	41.4
ZZ74108		150	1.5	22.3	67	39.7
ZZ74109		182	1.2	28.0	60	43.5
ZZ74110		151	1.0	20.3	62	47.0
ZZ74111		150	2.7	19.6	49	38.7
ZZ74112		151	1.5	19.2	47	38.7
ZZ74113		173	1.3	23.7	67	38.9
ZZ74114		112	0.9	14.0	56	29.1



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Project: Hartless Jbe

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Sample Description	Method Analyte Units LOR	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
ZZ74115		0.12	0.005	0.18	7.11	7.1	780	1.03	0.16	2.39	0.22	45.8	20.0	95	5.36	64.5
ZZ74116		0.11	0.009	0.18	7.36	8.7	720	1.01	0.21	2.63	0.18	47.1	32.2	101	7.35	88.5
ZZ74117		0.14	0.002	0.11	6.70	62.1	670	1.01	0.22	1.68	0.37	37.0	24.0	70	7.05	54.0
ZZ74118		0.09	0.007	0.11	6.49	9.7	750	1.00	0.19	2.12	0.16	38.8	15.8	69	3.50	35.0
ZZ74119		0.11	0.005	0.20	5.45	6.4	570	1.00	0.21	1.72	0.52	35.2	16.4	56	2.67	45.2
ZZ74151		0.29	0.004	0.09	7.32	8.4	710	1.10	0.16	2.29	0.23	49.3	22.0	91	2.70	65.4
ZZ74152		0.22	0.005	0.09	7.31	6.0	790	1.17	0.16	1.99	0.17	44.1	13.3	69	2.45	33.3
ZZ74153		0.19	0.005	0.19	7.64	10.2	720	1.26	0.21	1.74	0.20	45.4	33.4	93	5.98	231
ZZ74154		0.19	0.007	0.11	7.01	7.5	710	0.94	0.16	2.11	0.22	39.8	26.6	92	3.02	146.0
ZZ74155		0.21	0.002	0.08	6.88	6.2	830	1.26	0.17	2.09	0.14	45.3	13.9	85	2.07	25.1
ZZ74156		0.30	0.003	0.10	7.59	6.2	560	0.81	0.13	3.33	0.18	35.6	26.6	89	2.08	60.3
ZZ74157		0.21	0.008	0.28	7.40	6.2	590	1.13	0.16	2.56	0.21	39.0	29.3	79	4.37	92.4
ZZ74158		0.24	0.002	0.10	7.38	8.6	740	1.31	0.16	2.38	0.15	43.1	21.5	87	2.39	48.6
ZZ74159		0.28	0.004	0.09	7.34	5.7	520	0.98	0.11	3.69	0.12	41.6	26.8	84	1.35	47.5
ZZ74160		0.24	0.004	0.07	6.98	5.7	540	0.92	0.10	3.56	0.13	42.9	23.3	72	1.03	33.6
ZZ74161		0.18	0.004	0.10	6.94	5.8	650	0.91	0.13	2.55	0.13	37.8	21.2	83	4.24	54.4
ZZ74162		0.24	0.005	0.12	7.07	5.3	670	1.02	0.12	3.05	0.14	37.3	21.1	82	2.93	38.0
ZZ74163		0.18	0.005	0.20	7.16	7.2	690	1.13	0.20	2.16	0.25	40.7	25.6	102	7.49	92.6
ZZ74164		0.17	0.008	0.12	6.87	7.7	690	0.99	0.20	1.89	0.36	38.6	27.0	134	21.7	43.2
ZZ74165		0.19	0.005	0.08	6.95	23.2	710	0.97	0.14	2.38	0.67	38.1	21.3	72	7.65	44.5
ZZ74166		0.18	0.008	0.11	6.68	51.0	730	1.04	0.23	2.10	0.19	40.6	41.3	71	6.76	91.7
ZZ74167		0.17	0.009	0.08	6.75	13.5	780	1.07	0.19	1.95	0.18	42.4	23.0	71	5.73	64.3
ZZ74168		0.14	0.006	0.05	6.32	6.7	750	1.09	0.18	1.97	0.21	38.7	15.5	65	3.58	35.1
ZZ74169		0.18	0.003	0.07	6.19	6.1	720	0.97	0.18	1.89	0.20	32.8	15.6	72	3.70	31.2
ZZ74170		0.20	0.043	0.02	6.66	6.0	750	1.13	0.14	2.40	0.13	40.6	18.0	79	2.91	39.6
ZZ74171		0.21	0.016	0.04	6.08	6.7	660	0.88	0.16	2.17	0.14	34.8	15.6	70	3.04	30.2
ZZ74244		0.16	0.003	0.01	6.70	8.3	880	1.10	0.12	1.78	0.23	44.3	12.3	107	1.68	19.1
ZZ74245		0.21	0.002	<0.01	6.64	8.9	920	1.15	0.15	1.75	0.21	50.3	12.7	107	1.91	18.2
ZZ74246		0.21	0.003	0.03	6.78	8.8	770	1.00	0.19	1.98	0.24	43.0	19.8	96	2.08	41.0
ZZ74247		0.25	0.002	0.03	7.01	8.8	930	1.13	0.13	1.81	0.19	53.9	15.7	99	2.14	39.5
ZZ74248		0.23	0.001	0.03	6.72	9.3	970	1.16	0.16	1.70	0.15	42.2	13.8	91	2.37	33.7
ZZ74249		0.18	0.005	0.12	7.30	11.4	800	0.98	0.17	2.43	0.45	34.0	27.4	97	2.84	107.5
ZZ74250		0.19	0.003	0.01	6.79	7.4	820	1.04	0.12	2.29	0.19	43.4	18.0	94	1.90	43.5



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Project: Hartless Jbe

CERTIFICATE OF ANALYSIS WH12205416

Sample Description	Method Analyte Units LOR	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
		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
ZZ74115		4.46	16.65	0.18	1.6	0.067	1.14	19.7	18.0	1.65	807	0.84	2.11	7.4	36.8	890
ZZ74116		5.69	18.40	0.20	1.8	0.063	1.04	20.6	22.0	2.12	1080	0.98	1.92	6.9	47.1	960
ZZ74117		4.56	15.65	0.13	1.7	0.052	0.98	17.0	24.1	1.17	805	1.34	1.49	6.4	30.6	1410
ZZ74118		4.20	16.10	0.14	1.6	0.049	1.19	17.4	15.1	1.21	585	1.03	2.01	7.3	25.1	610
ZZ74119		3.85	13.70	0.16	1.6	0.041	0.91	15.0	13.2	0.85	533	2.07	1.44	5.9	20.2	1140
ZZ74151		4.76	17.00	0.14	1.7	0.070	1.12	18.6	15.6	1.65	920	0.99	2.05	7.5	40.9	1120
ZZ74152		3.72	17.20	0.15	1.9	0.055	1.38	19.2	15.9	1.27	641	1.00	2.07	7.5	27.2	1300
ZZ74153		5.62	18.50	0.14	2.0	0.070	1.16	20.1	22.2	1.86	1020	1.37	1.83	6.9	44.1	1540
ZZ74154		5.17	17.20	0.16	1.7	0.060	1.03	16.9	17.1	1.72	1020	1.09	2.02	6.7	35.5	1070
ZZ74155		3.82	15.70	0.14	1.7	0.051	1.27	20.3	14.0	1.27	650	0.84	2.08	8.2	28.4	1030
ZZ74156		5.94	18.70	0.15	1.5	0.066	0.82	15.2	15.8	2.29	1010	0.61	2.27	5.2	41.1	940
ZZ74157		5.13	17.95	0.17	1.6	0.060	0.88	17.8	18.4	2.04	1020	0.97	1.87	5.7	41.5	1470
ZZ74158		4.81	17.65	0.15	2.6	0.058	1.14	18.7	16.6	1.67	821	0.85	2.02	8.5	38.6	960
ZZ74159		5.48	18.00	0.17	1.5	0.068	0.82	17.3	12.9	2.05	978	0.56	2.54	6.3	36.5	720
ZZ74160		4.99	16.65	0.14	1.4	0.058	0.87	18.7	10.0	1.81	890	0.43	2.56	6.0	30.3	730
ZZ74161		4.70	16.65	0.17	1.5	0.057	1.01	17.2	17.1	1.64	827	0.73	2.11	6.8	34.9	550
ZZ74162		4.97	16.85	0.14	1.5	0.061	0.93	16.9	13.9	1.75	934	0.80	2.28	6.7	32.6	710
ZZ74163		5.10	18.00	0.15	1.5	0.062	1.01	17.9	22.3	1.94	1120	1.05	1.81	6.5	41.8	760
ZZ74164		5.58	18.15	0.14	1.9	0.069	1.11	18.8	28.1	1.31	1710	1.57	1.54	7.6	47.8	1610
ZZ74165		4.63	17.00	0.14	1.3	0.052	1.12	18.6	38.1	1.30	1290	0.82	1.87	6.1	33.8	770
ZZ74166		5.16	16.30	0.15	1.4	0.054	1.13	20.9	23.2	1.36	1060	1.33	1.77	7.1	38.2	1440
ZZ74167		4.41	16.80	0.14	1.5	0.058	1.26	20.2	20.6	1.25	905	1.23	1.88	8.0	31.9	1140
ZZ74168		4.10	16.90	0.14	1.5	0.055	1.27	18.6	20.5	1.07	697	1.39	1.86	8.1	25.6	690
ZZ74169		4.37	17.25	0.13	1.4	0.053	1.20	16.1	19.7	1.20	772	1.38	1.77	8.2	27.3	820
ZZ74170		4.17	16.05	0.13	1.4	0.054	1.15	19.1	17.8	1.37	713	0.77	1.98	7.7	33.6	790
ZZ74171		4.07	16.10	0.12	1.4	0.048	1.05	17.5	15.7	1.26	731	1.00	1.84	7.5	28.1	810
ZZ74244		3.21	13.35	0.13	1.1	0.042	1.39	23.5	16.4	1.27	586	0.99	1.94	6.6	36.1	940
ZZ74245		3.37	14.55	0.12	1.5	0.041	1.49	26.5	16.4	1.01	646	0.95	2.03	7.7	29.3	860
ZZ74246		5.55	15.10	0.15	1.5	0.050	1.21	22.5	17.5	1.44	815	1.00	2.00	6.8	40.8	940
ZZ74247		3.72	15.65	0.13	1.3	0.047	1.46	29.8	18.3	1.31	710	0.77	2.08	7.9	47.9	710
ZZ74248		3.55	16.10	0.13	1.5	0.048	1.40	22.2	19.0	1.20	599	0.99	1.98	7.9	36.9	1050
ZZ74249		5.12	18.30	0.16	1.3	0.062	1.26	17.9	22.3	1.89	1050	0.85	2.16	6.2	51.6	880
ZZ74250		3.98	15.90	0.13	1.4	0.052	1.29	21.7	17.7	1.46	815	0.85	2.27	7.3	38.9	740



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Ti
		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	0.2	0.005	0.02
ZZ74115		12.3	50.1	0.002	0.05	0.98	19.6	1	1.3	271	0.55	<0.05	6.7	0.476	0.36
ZZ74116		17.1	44.3	0.003	0.04	2.22	23.2	2	1.2	239	0.48	0.06	7.1	0.582	0.38
ZZ74117		13.8	44.1	0.003	0.09	2.15	15.2	1	1.1	204	0.42	0.07	6.5	0.383	0.42
ZZ74118		11.4	48.1	0.003	0.04	0.89	15.4	1	1.2	270	0.49	0.06	6.5	0.431	0.32
ZZ74119		11.0	37.4	<0.002	0.11	1.00	12.1	1	1.2	222	0.39	<0.05	5.8	0.361	0.31
ZZ74151		11.8	44.3	0.003	0.04	0.98	18.8	2	1.3	259	0.52	0.05	7.5	0.514	0.34
ZZ74152		11.7	49.4	0.004	0.04	0.86	13.8	1	1.2	326	0.51	<0.05	7.4	0.407	0.38
ZZ74153		13.7	44.6	0.002	0.07	1.13	21.4	2	1.2	251	0.47	0.12	7.4	0.451	0.35
ZZ74154		11.0	37.5	0.002	0.05	1.05	18.9	1	1.2	265	0.48	0.08	5.6	0.484	0.33
ZZ74155		12.1	51.9	0.003	0.05	0.89	15.8	1	1.3	274	0.60	<0.05	7.3	0.421	0.34
ZZ74156		8.7	32.0	0.003	0.03	0.78	24.7	1	1.2	217	0.38	<0.05	5.7	0.576	0.28
ZZ74157		12.8	36.0	0.003	0.08	0.99	22.0	1	1.2	207	0.38	<0.05	6.6	0.472	0.29
ZZ74158		11.7	46.7	0.003	0.03	0.99	19.6	2	1.4	238	0.59	0.09	7.7	0.494	0.34
ZZ74159		8.2	30.2	0.003	0.01	0.77	26.1	2	1.3	242	0.43	<0.05	5.4	0.651	0.24
ZZ74160		9.0	29.8	0.002	0.01	0.76	23.2	1	1.3	261	0.42	<0.05	5.4	0.633	0.23
ZZ74161		10.9	40.7	<0.002	0.02	1.23	20.8	1	1.2	230	0.51	0.09	6.0	0.512	0.28
ZZ74162		10.2	36.3	0.003	0.04	0.76	21.5	1	1.2	245	0.45	<0.05	6.4	0.572	0.27
ZZ74163		14.3	46.6	0.002	0.05	0.99	21.0	2	1.2	212	0.42	<0.05	6.0	0.459	0.33
ZZ74164		14.7	50.0	<0.002	0.07	1.47	21.8	1	1.2	219	0.55	0.05	5.0	0.542	0.35
ZZ74165		14.1	42.7	<0.002	0.03	1.74	18.5	1	0.9	226	0.41	<0.05	5.7	0.443	0.33
ZZ74166		12.8	44.3	<0.002	0.06	1.79	16.7	2	1.1	255	0.47	0.07	6.5	0.417	0.35
ZZ74167		15.8	47.9	<0.002	0.05	1.07	15.2	2	1.2	257	0.51	0.05	6.1	0.413	0.34
ZZ74168		12.2	47.0	<0.002	0.04	0.86	13.7	2	1.2	278	0.53	<0.05	5.9	0.405	0.34
ZZ74169		11.3	45.0	<0.002	0.04	0.85	14.7	1	1.3	235	0.57	<0.05	5.3	0.453	0.35
ZZ74170		11.0	41.6	<0.002	0.03	0.79	16.6	1	1.2	260	0.53	<0.05	6.0	0.434	0.29
ZZ74171		10.8	41.7	<0.002	0.04	0.71	15.7	1	1.1	237	0.48	<0.05	5.7	0.450	0.28
ZZ74244		11.9	46.4	<0.002	0.03	0.90	13.8	1	1.0	295	0.44	<0.05	6.2	0.304	0.34
ZZ74245		13.4	55.4	<0.002	0.02	1.01	13.6	1	1.1	314	0.59	<0.05	7.5	0.349	0.37
ZZ74246		12.3	43.2	<0.002	0.04	1.12	16.9	2	1.1	265	0.46	0.06	6.6	0.416	0.32
ZZ74247		11.9	50.7	<0.002	0.02	1.24	16.2	2	1.1	296	0.69	<0.05	8.1	0.362	0.38
ZZ74248		12.8	52.9	<0.002	0.04	1.06	15.4	1	1.2	290	0.55	<0.05	6.1	0.363	0.37
ZZ74249		11.3	43.9	<0.002	0.01	1.32	21.2	2	1.1	263	0.39	0.05	5.4	0.451	0.36
ZZ74250		10.6	44.8	<0.002	0.02	1.07	19.5	1	1.1	296	0.45	<0.05	6.3	0.438	0.30



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CERTIFICATE OF ANALYSIS WH12205416

Sample Description	Method Analyte Units LOR	ME- MS61 V ppm 1	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5
ZZ74115		145	1.3	23.9	60	38.9
ZZ74116		186	1.6	28.0	77	52.7
ZZ74117		131	1.6	18.1	68	44.0
ZZ74118		133	1.7	16.5	50	48.3
ZZ74119		109	1.5	15.4	45	36.3
ZZ74151		149	1.6	20.7	75	45.2
ZZ74152		116	1.1	17.4	63	57.9
ZZ74153		175	1.4	27.2	121	49.0
ZZ74154		158	1.3	19.8	103	43.1
ZZ74155		122	1.4	19.2	51	45.8
ZZ74156		194	1.2	27.6	75	41.2
ZZ74157		171	1.3	25.1	75	40.9
ZZ74158		156	1.4	22.0	60	47.5
ZZ74159		194	1.3	30.7	57	36.2
ZZ74160		182	1.2	28.7	51	35.1
ZZ74161		161	2.2	23.9	54	42.7
ZZ74162		172	1.2	23.0	55	39.7
ZZ74163		171	1.7	23.5	75	36.6
ZZ74164		175	2.4	21.0	88	58.1
ZZ74165		133	1.9	19.9	79	42.1
ZZ74166		145	1.3	21.7	77	47.2
ZZ74167		125	1.6	20.7	74	53.4
ZZ74168		109	1.0	18.2	65	48.5
ZZ74169		129	1.2	16.1	69	46.4
ZZ74170		127	1.4	20.3	58	42.2
ZZ74171		130	1.2	17.1	57	46.0
ZZ74244		91	0.8	13.7	53	32.3
ZZ74245		102	0.9	15.7	51	44.4
ZZ74246		128	1.0	17.5	76	46.4
ZZ74247		111	0.9	17.9	64	41.3
ZZ74248		111	1.1	16.7	61	49.2
ZZ74249		155	1.3	22.2	121	40.1
ZZ74250		130	1.1	20.1	76	46.9



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Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS61	NSS is non- sufficient sample. REEs may not be totally soluble in this method.

APPENDIX IV
STATEMENT OF EXPENDITURES

Statement of Expenditures
Hart 1-40, Joe 1-12 and Les 1-10 Mineral Claims
October 26, 2012

Labour

K. Larsen (camp manager) August and September 2012 – 3 days @ \$595/day	\$ 1,999.20
L. Flavelle (field assistant) August 2012 – 1 day @ \$510/day	571.20
T. Den Engelsen (field assistant) August 2012 – 3 days @ \$425/day	1,428.00
D. Bailey (field assistant) August 2012 – 1 day @ \$391/day	437.92
C. Dekking (field assistant) September 2012 – 2 days @ \$374/day	837.76
L. Vinnedge (field assistant) August 2012 – 2 days @ \$357/day	799.68
S. Wedge (field assistant) August 2012 – 1 day @ \$357/day	399.84
Whitehorse expediting	<u>971.60</u>
	7,445.20

Expenses (including management)

Field room and board – 13 mandays @ \$180/manday	2,830.46
Capital Helicopters – 5.1 hours Bell 206B @ \$1025/hour plus fuel	7,378.08
ALS Chemex	7,248.14
Report preparation estimate	<u>1,814.40</u>
	19,271.08

Total	<u>\$26,716.28</u>
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