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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING, HAND TRENCHING, PROSPECTING, GEOLOGICAL MAPPING AND PETROGRAPHIC STUDIES

Field work performed from August 15 to 22, 2013

at the

OFF PROPERTY

Off 1-18	YC73880-YC73897
19-28	YC98379-YC98388
29-35	YC89979-YC89985
36-39	YC99744-YC99747
42-57	YC99728-YC99743

NTS 105G/08

Latitude 61°27'N; Longitude 130°21'W

located in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

X. Montague, BSc., GIT
January 2014

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INTRODUCTION

The Off property covers coincident copper-lead-zinc soil anomalies within the Finlayson Lake District of southeast Yukon Territory. This district hosts numerous volcanogenic massive sulphide (VMS) occurrences including the Wolverine, GP4F and Kudz Ze Kayah deposits, which lie about 12 km southeast, 10 km and 13 km west-southwest of the property, respectively. The property is owned 100% by Strategic Metals Ltd.

This report describes geochemical sampling, hand trenching, prospecting and geological mapping performed by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals from August 15 to 22, 2013. Following the field work, petrographic studies were conducted by Vancouver Petrographics of Langley, British Columbia. The author participated in the program and interpreted results; her Statement of Qualifications appears in Appendix I. A Statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Off property consists of 55 contiguous quartz claims, which are located in southeastern Yukon at latitude 61°27' north and longitude 130°21' west on NTS map sheet 105G/08 (Figure 1). The property covers an area of approximately 1000 ha (10 sq. km). The claims are registered with the Watson Lake 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>
Off 1-18	YC73880-YC73897	March 23, 2018
19-28	YC98379-YC98388	March 23, 2018
29-35	YC89979-YC89985	March 23, 2015
36-39	YC99744-YC99747	June 20, 2014
42-57	YC99728-YC99743	June 20, 2014

* Expiry dates do not include 2013 work, which has not yet been filed for assessment credit

The 2013 work was completed from a fly camp on the property (Figure 2). A staging area near Finlayson Lake was used for mobilization of crew and gear. Helicopter support for the program was provided by a Bell 206B helicopter operated by Trans North Helicopters from its base in Watson Lake.

The Off property lies approximately 125 km southeast of the community of Ross River, the nearest supply centre. The closest road is the Robert Campbell Highway, which at its nearest point is 15 km north of the property. The Robert Campbell Highway is usable in all seasons by two wheel drive vehicles.

The Off claims lie within the traditional territory of the Kaska Dena. The property adjoins the western boundary of an interim protected land package (RRDC-R-16A). Access to the property does not cross the protected area.

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

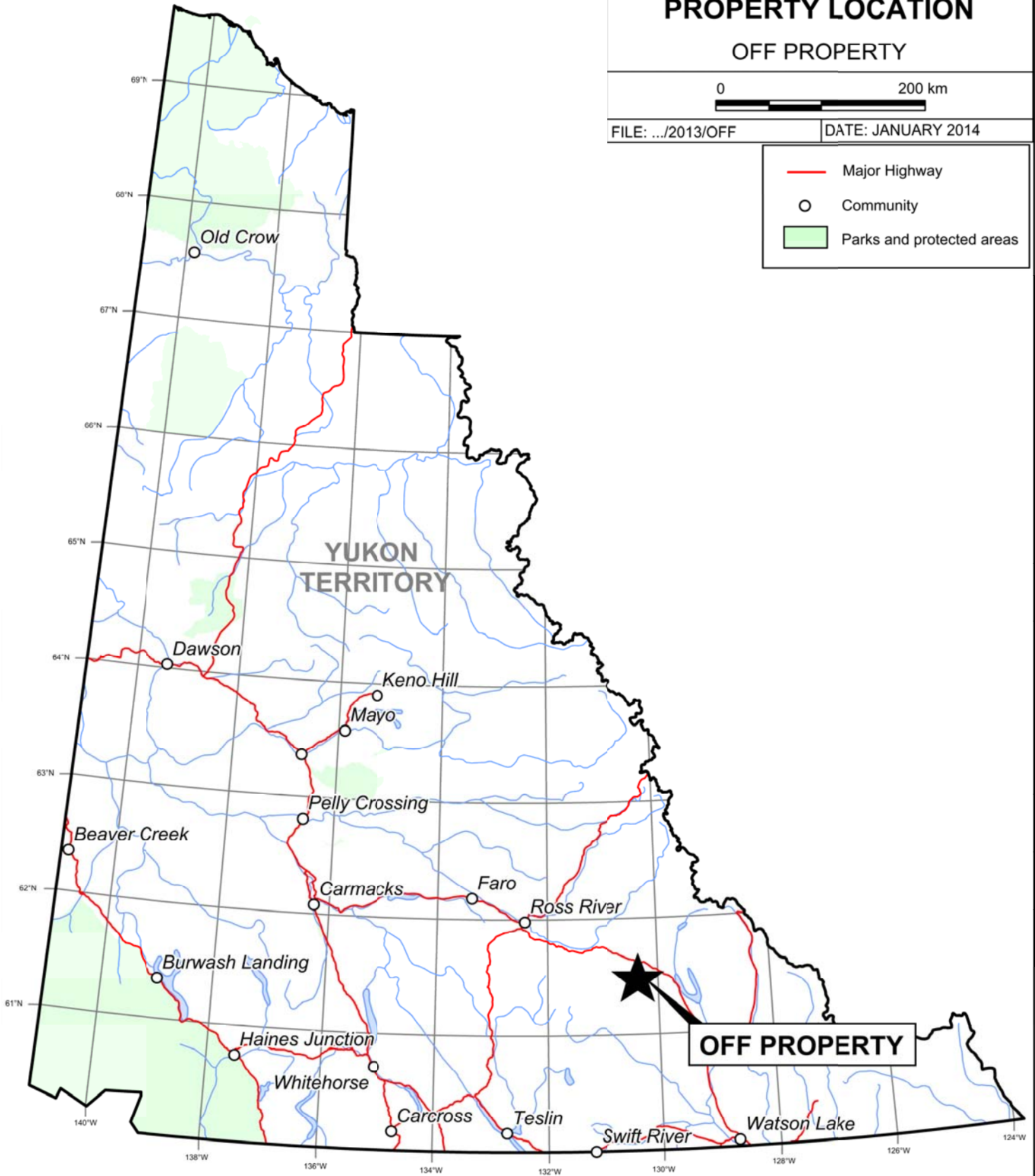
OFF PROPERTY

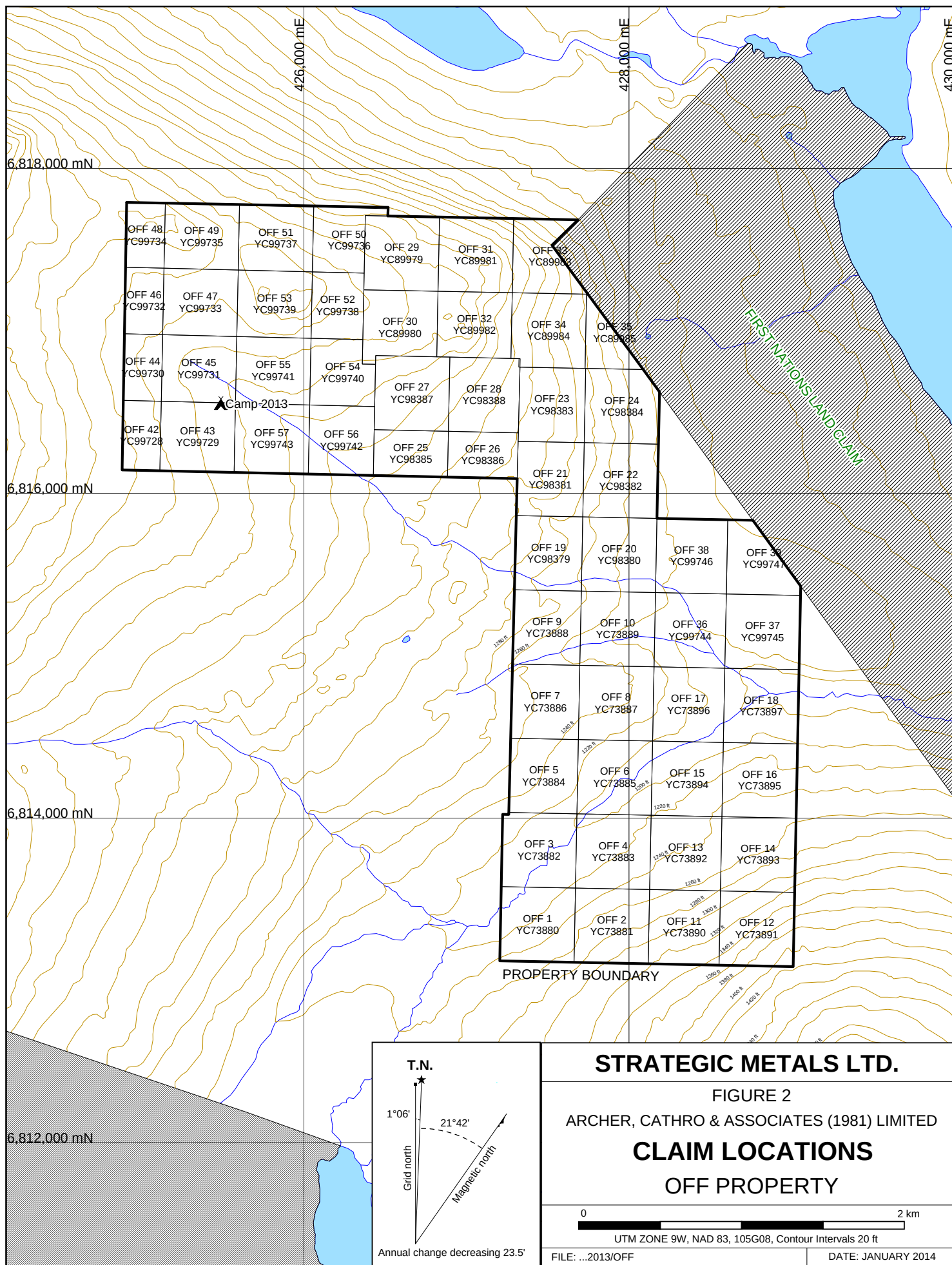
0 200 km

FILE: .../2013/OFF

DATE: JANUARY 2014

- Major Highway
- Community
- Parks and protected areas





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FIGURE 2 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED **CLAIM LOCATIONS** OFF PROPERTY

HISTORY AND PREVIOUS WORK

In 1995, Cominco Ltd. staked a large block of On claims to cover the projected extension of the stratigraphic package that hosts the Kudz Ze Kayah and GP4F deposits. The current Off property restaked some of the former On claims.

In early 1996, Cominco completed a helicopter-borne electromagnetic and magnetic geophysical survey over the On property. Soon thereafter, Cominco entered into a joint venture agreement with Westmin Resources Ltd. and Atna Resources Ltd. That summer, Westmin performed soil sampling and geological mapping on behalf of the joint venture (Terry *et al.*, 1996).

In 1997, the joint venture followed up its previously defined soil anomalies with detailed soil sampling, ground geophysical surveys and 308 m of diamond drilling in one hole (Terry and Hall, 1998). Details relating to this drilling are discussed in the Diamond Drilling section below. The claims were allowed to lapse following this work.

In 2000, the southern part of the ground now covered by the Off property was restaked as the Bug claims by Expatriate Resources Ltd. Minor soil sampling and prospecting were carried out in 2001 (Tucker, 2002), but the claims were allowed to expire after poor results were obtained.

In 2008, Strategic Metals staked the Off 1 to 18 claims and, in 2009, it expanded the property by staking the Off 19 to 35 claims. During summer 2009, Strategic Metals conducted geological mapping, prospecting and grid soil sampling to confirm the tenor of historical results. Hand trenching was also performed at two soil sample sites that had produced elevated lead and zinc values (Gregory, 2009).

In 2010, Strategic Metals completed 244.14 m of diamond drilling in one hole to test a copper and zinc soil anomaly in the northern part of the property. Highlights of this work are discussed in the Diamond Drilling section.

In June 2013, Strategic Metals staked the Off 36 to 39 and Off 42 to 57 claims, expanding the property to its current size.

GEOMORPHOLOGY

The Off property lies on the northwest side of the Pelly Mountains about two kilometres west of Wolverine Lake. Creeks draining the property flow into Wolverine Lake, which ultimately connects to the Arctic Ocean via the Finlayson, Frances, Liard and Mackenzie rivers.

Local elevations on the property range from about 1200 to 1450 m. Topographic relief is gentle to moderate. Outcrop occurs on an east-trending ridge in the northwestern part of the property and in deeply incised creek cuts. Most of the property is blanketed by Pleistocene colluvium deposits and glacial till.

The entire property lies below treeline, which is at approximately 1500 m in the district. Vegetation consists of isolated stands of black spruce, alder and willow, with an understory of buckbrush, low shrubs and moss.

Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010). Finlayson Lake map area was affected by three lobes of that ice sheet: the Cassiar lobe, which flowed in a northwesterly direction covering the area southwest of the Pelly Mountains; the Liard lobe, which flowed east to southeast covering the area southeast of the Pelly Mountains; and the Selwyn lobe, which flowed east-northeasterly covering the area north of the Pelly Mountains. A complex system of ice-caps and cirque glaciers was active at high elevations in the Pelly Mountains and contributed to the ice bodies surrounding them. The area of the Off property was affected by the alpine glaciation and the Selwyn lobe.

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

REGIONAL GEOLOGY

The Off property lies within the Finlayson Lake District. This district has been the focus of numerous government and industry sponsored studies due to its VMS potential. The Geological Survey of Canada mapped the Finlayson Lake area (NTS map sheet 105G) twice at a 1:250,000 scale (Wheeler *et al.*, 1960 and Tempelman-Kluit, 1977). In the late 1990s and early 2000s, the Yukon Geological Survey performed more detailed (1:50,000 scale) mapping in the area and in 2002, it completed a geological compilation and updated the lithological names (Bond *et al.*, 2002). In 2003, Gordey and Makepeace incorporated this data into a Yukon-wide geological compilation. The Yukon Geological Survey maintains on-line geology that is periodically updated when new information is received (YGS, 2013). The following descriptions are based on the published data.

The Finlayson Lake District comprises an isolated outlier of Yukon-Tanana Terrane (YTT) and Slide Mountain Terrane (SMT) and affiliated overlap assemblages (Figure 3). The district is bounded by the Tintina Fault to the southwest and the Inconnu Thrust Fault to the northeast. Five major VMS deposits have been discovered in the district (Figure 4). The Fyre Lake, Kudze Kayah, GP4F and Wolverine deposits, all occur within YTT, while the Ice Deposit is hosted in SMT.

YTT and SMT represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during Late Devonian and through Permian (Piercey *et al.*, 2006). Pericratonic rocks of YTT and oceanic rocks of SMT are juxtaposed against rocks of the North American continental margin sequence along the post-Late Triassic Inconnu Thrust Fault (Murphy *et al.*, 2006). Rocks of these terranes in the Finlayson Lake District are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies

YUKON-TANANA TERRANE (YTT)
LAYERED ROCKS

Lower Permian

Money Creek Formation

dark phyllite and sandstone, chert, chert-pebble conglomerate, diamictite

Upper Mississippian to Lower Permian

Whitefish Limestone

massive bioclastic limestone

Lower Mississippian

Tuchitua Formation

intermediate, felsic and mafic volcanic rocks, sandstone, chert, limestone

Wolverine Lake Group

undifferentiated mafic and felsic volcanic rocks and dark clastic rocks

Upper Devonian to Lower Mississippian

Cleaver Lake Formation

calc-alkaline basalt, rhyolite, chert and volcanic derived snadstone

Waters Creek Formation

felsic to intermediate metavolcanic rocks and carbonaceous phyllite

Grass Lakes Group

felsic to intermediate metavolcanic rocks and dark clastic rocks of the Fire Lake, Kudz Ze Kayah, and Wind Lake formations

North River Formation

quartzose metaclastic rocks, marble and non-carbonaceous pelitic schist

INTRUSIVE ROCKS

Early Mississippian

Simpson Range plutonic suite

granite, quartz monzonite, granodiorite

Late Devonian to Early Mississippian

Grass Lakes plutonic suite

granite, quartz monzonite augen granite

ultramafic and mafic intrusions, Big Campbell and Cleaver Lake thrust sheets

SLIDE MOUNTAIN TERRANE (SMT)
LAYERED ROCKS

Lower Permian

quartzite

limestone

Lower Permian

Campbell Range Formation

basalt and varicoloured chert

Carboniferous?

Fortin Creek Group

dark phyllite and chert, variclouded chert, chert-pebble conglomerate, sandstone, limestone

SLIDE MOUNTAIN TERRANE

INTRUSIVE ROCKS

Early Permian

ultramafic and mafic intrusions

NORTH AMERICAN CONTINENTAL MARGIN

Paleozoic

undifferentiated formations of Selwyn Basin, Cassier Platform, Earn Group and Mt. Christie Formation

POST - YTT/SMT AMALGAMATION

Permian to Triassic

Simpson Lake Group

polymictitic conglomerate, sandstone, siltstone, mafic and felsic volcanic rocks, limestone

Triassic

grey shale, siltstone and limestone

Mesozoic and Cenozoic

undifferentiated intrusions

undifferentiated volcanic rocks

Modified from Piercey et al. (2008)

VMS Deposits

1 Kudz Ze Kayah

2 GP4F

3 Wolverine

4 Fyre Lake

5 Ice

— Fault

— Thrust fault

--- Robert Campbell Highway

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

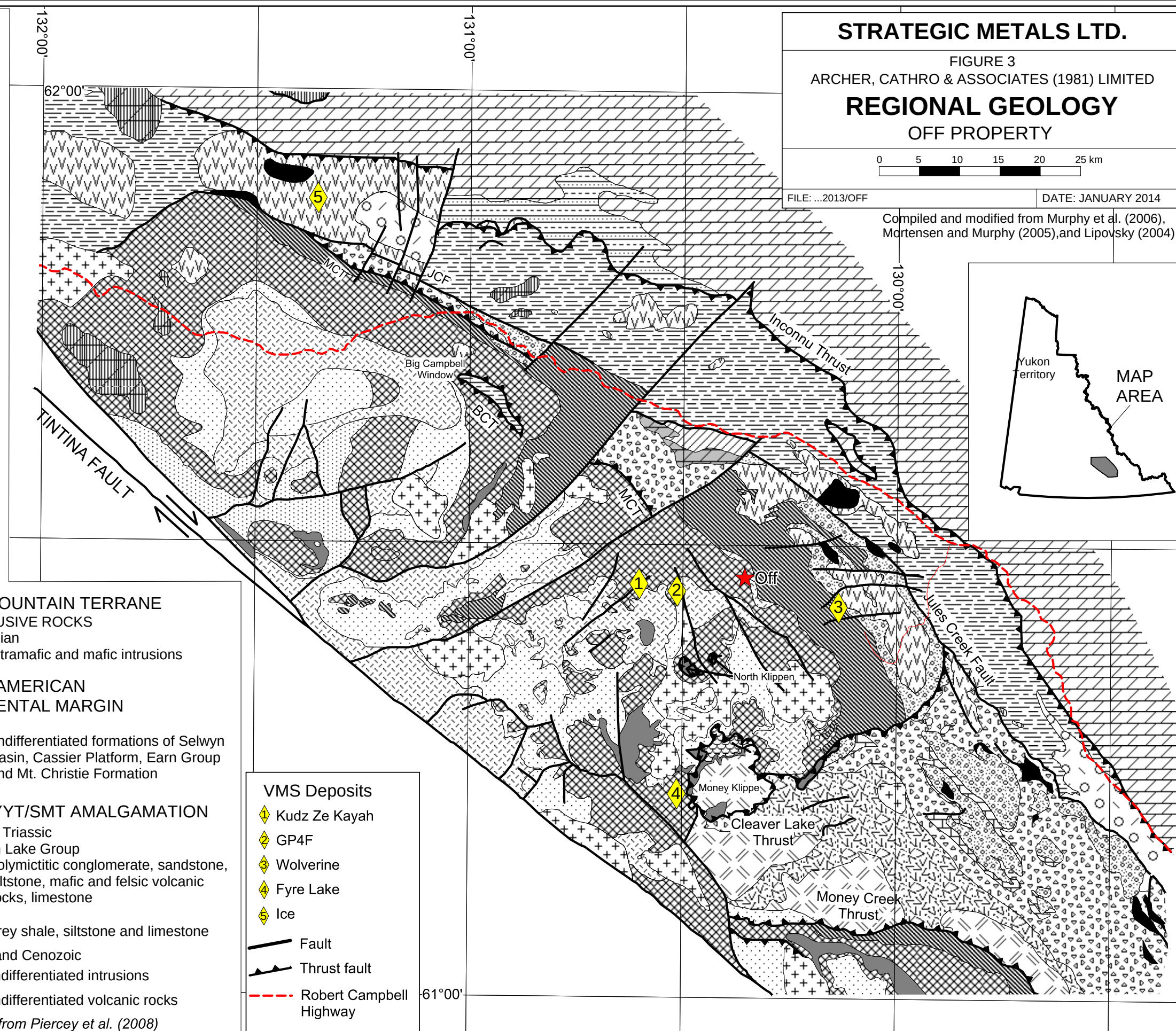
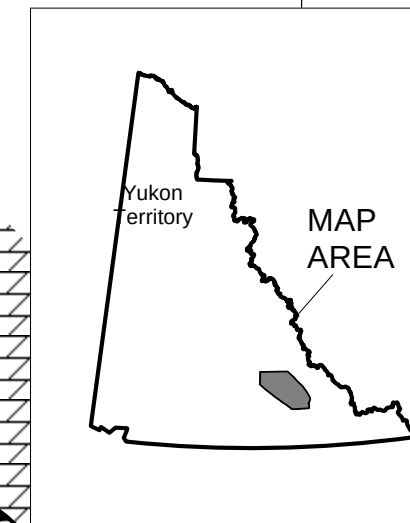
REGIONAL GEOLOGY
OFF PROPERTY

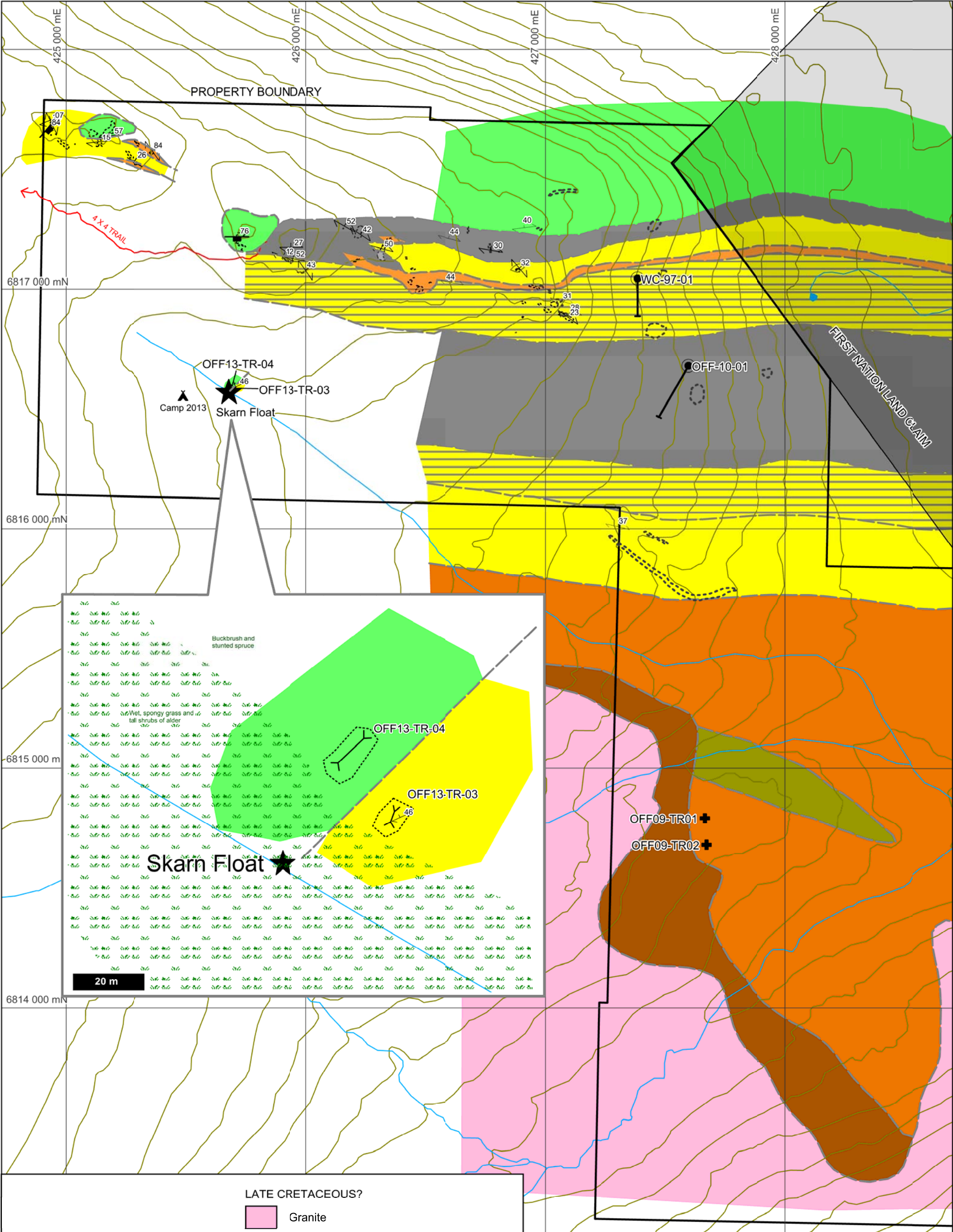
0 5 10 15 20 25 km

FILE: ...2013/OFF

DATE: JANUARY 2014

Compiled and modified from Murphy et al. (2006), Mortensen and Murphy (2005), and Lipovsky (2004).





Outcrop

Assumed geological contact

Attitude of foliation, bedding and jointing, displaying dip angle

Historical hand trench

Historical diamond drill hole

LATE CRETACEOUS?

Granite

DEVONIAN/MISSISSIPPIAN

Kudz Ze Kayah Formation

Meta-rhyolite

Quartzite

Argillite

Quartz-sericite-biotite schist

Inter-bedded argillite and quartz-sericite schist

Quartz-biotite schist

Biotite-quartz schist/phyllite

Chlorite-biotite schist

T.N.

Grid north

Magnetic north

1°06'

21°42'

Annual change decreasing 23.5'

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

OFF PROPERTY

00.250.51.0

UTM ZONE 9W, NAD 83, 105G08

FILE: ...2013/OFF/

DATE: JANUARY 2014

After Gregory 2009

metasedimentary and metavolcanic rocks and affiliated metaplutonic suites. The following descriptions of YTT and SMT are largely summarized from Murphy *et al.* (2006).

Rocks of YTT in the Finlayson Lake District lie between the Tintina Fault and the Jules Creek Fault. YTT is subdivided into a number of fault- and unconformity-bounded groups and formations. From the structurally deepest levels of the district upwards, these include: (1) North River Formation, Grass Lakes and Wolverine Lake groups, and affiliated metaplutonic rocks in the Big Campbell Thrust Sheet; (2) North River, Waters Creek and Tuchitua River formations and affiliated intrusions in the Money Creek Thrust Sheet; and (3) Cleaver Lake Formation and intrusions of the Cleaver Lake Thrust Sheet (Figure 4). Regional shortening, uplift, erosion and synorogenic clastic sedimentation took place during Early Permian. Lower Permian Money Creek Formation was deposited unconformably atop folded Mississippian and Pennsylvanian rocks and was subsequently folded and overthrust by the Cleaver Lake and Money Creek thrust faults. The movement of the Money Creek Thrust Fault is constrained to Early Permian because both the hanging wall and footwall are unconformably overlain by Lower Permian rocks of Campbell Range Formation of SMT.

North River Formation quartzose metaclastic rocks and metapelites are the oldest exposed rock units in the Big Campbell Thrust Sheet. North River Formation is overlain by chloritic schist and lesser carbonaceous phyllite of Fire Lake Formation of Grass Lakes Group. This formation hosts the Besshi-style Fyre Lake Deposit (Hunt, 2002). This Late Devonian deposit is associated with chloritic phyllite and greenstone of boninitic composition (Piercey *et al.*, 2004). Mafic and variably serpentinized ultramafic rocks are present as sills and dykes in Fire Lake and North River formations, respectively. Stratigraphically overlying Fire Lake Formation is a carbonaceous phyllite-dominated succession, which has been divided into two parts. The lower part, Kudzu Ze Kayah Formation, contains felsic metavolcanic rocks that host the Kuroko-style Kudzu Ze Kayah and GP4F deposits, while the upper part, Wind Lake Formation, contains mafic metavolcanic rocks and quartzite (Murphy, 1998). Grass Lakes Group is intruded by Late Devonian to Early Mississippian Grass Lakes Plutonic Suite and Early Mississippian Simpson Range Plutonic Suite.

Wolverine Lake Group unconformably overlies Grass Lakes Group and hosts the Kuroko-style Wolverine Deposit. This deposit occurs in a thick sequence of Carboniferous rhyolitic metavolcanic rocks and carbonaceous argillite (Tucker *et al.*, 1997). Together, the Grass Lakes and Wolverine groups have been interpreted to represent a continental back-arc rift to back-arc basin assemblage.

During Early Permian, YTT experienced regional shortening and uplift. The deformation and erosion of the Mississippian and Pennsylvanian rocks were followed by unconformable deposition of Money Creek Formation. Money Creek Formation comprises carbonaceous phyllite and sandstone, varicoloured chert, chert-pebble conglomerate, and diamictite. This formation was emplaced atop units of Wolverine Lake Group in the Big Campbell Thrust Sheet and Tuchitua River Formation, Whitefish Limestone, White Lake Formation, King Arctic Formation and Finlayson Creek Limestone in the Money Creek Thrust Sheet by the Cleaver Lake and Money Creek Thrust Faults. Money Creek Formation is preserved in the Big Campbell and Money Creek Klippen.

The imbricated rocks of YTT are juxtaposed against rocks of SMT along the Jules Creek Fault. SMT of the Finlayson Lake District consists of Mississippian to Lower Permian Fortin Creek Group, Lower Permian Campbell Range Formation and spatially associated plutonic rocks, and Lower Permian limestone and quartzite. The Ice Deposit is hosted in Campbell Range Formation basalt (Hunt, 2002).

Middle Permian and younger sequences in the Finlayson Lake District are derived from, or deposited on both YTT and SMT. Middle Permian to Triassic Simpson Lake Group is composed of clastic rocks derived from both terranes and Middle Permian felsic and mafic metavolcanic rocks (Mortensen *et al.*, 1999). SMT, YTT and overlapping rocks are juxtaposed against Triassic shale and siltstone and older rocks of the North American continental margin sequence along the Inconnu Thrust Fault.

During the Mesozoic era, two types of intrusion were emplaced in the Finlayson area. The first comprises several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

PROPERTY GEOLOGY

Property-scale geological mapping was carried out by Westmin Resources in 1996 (Terry *et al.*, 1996) and by Strategic Metals in 2009 (Gregory, 2009) and 2013. Geological mapping at the Off property is hindered by limited bedrock exposures. Thus, geology as shown on Figure 4 has been inferred from scattered outcrops, distribution of talus, and examination rock chips collected from hand pits. In 2013, mapping focussed on the northwestern part of the claim block where outcrop occurs on an easterly-trending ridge. The following geological descriptions are taken from published reports, which correlate with field observations.

The Off property is mostly underlain by easterly-striking and moderately northerly-dipping units of the Kudzu Ze Kayah Formation. Compositional layering approximately parallels foliation. The basal unit is composed of quartz-biotite schist with a large lens of chlorite-biotite schist. It outcrops in the southern part of the property. The quartz-biotite schist is overlain to the north by a sequence of interbedded quartz-sericite-biotite schist and argillite. This sequence includes seven main subunits, of which four are relatively pure schist or argillite and two are transitional layers that contain beds of both rock types. The seventh subunit is a narrow quartzite layer. The interbedded schist/argillite sequence is capped by rhyolite to the north of the property.

A granitic stock, likely belonging to a suite of undifferentiated Late Cretaceous plutons found in the area, has intruded the quartz-biotite schist in the southern part of the property. Between the stock and the quartz-biotite schist, there is a band of fine grained biotite-quartz schist/ phyllite. This band is discordant to compositional layering in other metasedimentary and metavolcanic units. It is interpreted to be a zone of contact metamorphism developed when the pluton was emplaced.

Table I below contains a brief summary of the main lithologies of the Off property while

Figure 4 illustrates the distribution of those lithologies.

Table I – Property Lithologies

Regional Unit	Local Unit	Description
Undifferentiated	Granite	Light grey, equigranular and coarse grained. Contains approximately 45% plagioclase, 30% quartz, 10% orthoclase, 10% biotite and 5% muscovite.
Grass Lake Group: Kudz Ze Kayah Formation	Rhyolite	Light grey, fine grained and poorly laminated with minor weakly aligned flakes of biotite.
	Quartzite	White to light grey, massive quartzite with minor limonite staining on fractures.
	Argillite	Dark grey and fine grained, moderately foliated and occasionally fissile. Where fissile it contains up to 10% graphite.
	Quartz-sericite-biotite schist	Tan weathering and light grey on fresh surfaces, medium grained and moderately to well foliated.
	Argillite and quartz-sericite schist	Interbedded argillite and quartz-sericite schist.
	Quartz-biotite schist	Tan weathering and light grey on fresh surfaces, medium grained and moderately to well foliated with occasional crenulations and elongated quartz lenses. Schist contains 10 to 20% biotite and rare layers of angular, 2 by 4 mm feldspar porphyroblasts.
	Biotite-quartz schist/phyllite	Fine grained and dark grey, moderately foliated, hosts 1 to 2 mm biotite crystals that are occasionally altered to chlorite.
	Chlorite-biotite schist	Dark green, fine to medium grained and well foliated. May contain thin quartz lenses, minor epidote and actinolite.

Foliation is moderately to well developed in all regionally metamorphosed units except the quartzite and rhyolite. The foliated units generally strike easterly and dip moderately (30° to 40°) to the north.

MINERALIZATION AND PETROGRAPHY

In 2013, a total of nineteen rock samples were collected from the northwestern part of the property to search for the source of anomalous copper and zinc soil values (Figure 5). Rock sample sites were marked with flagging and recorded with hand-held GPS units. Rock samples were sent to ALS Minerals in Whitehorse where they were dried and fine crushed to better than 70% passing 2 mm before a 250 g split was pulverized to better than 85% passing 75 microns. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analysed for 48 elements using a four acid digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge from each fine fraction 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 and Rock Sample Descriptions are given in Appendix IV.

Prospecting and rock sample results from the 2013 program were not encouraging for VMS mineralization. The most interesting sample collected was a single float specimen (M898063) containing semi-massive pyrrhotite and minor chalcopyrite, which was discovered in a creek bed near the contact between meta-rhyolite and quartz-sericite-biotite schist. This sample yielded weakly to moderately anomalous values for cobalt (129 ppm), copper (1090 ppm), nickel (262 ppm) and selenium (77 ppm). Petrographic studies of this sample classified it as a skarn with a mafic or intermediate volcanic protolith. The study described the sample as semi-massive pyrrhotite, which has been partially altered to pyrite/marcasite, and minor chalcopyrite in a matrix of magnesium-rich amphibole, iron-poor epidote, iron carbonate and trace chlorite. The complete petrographic report is provided in Appendix V.

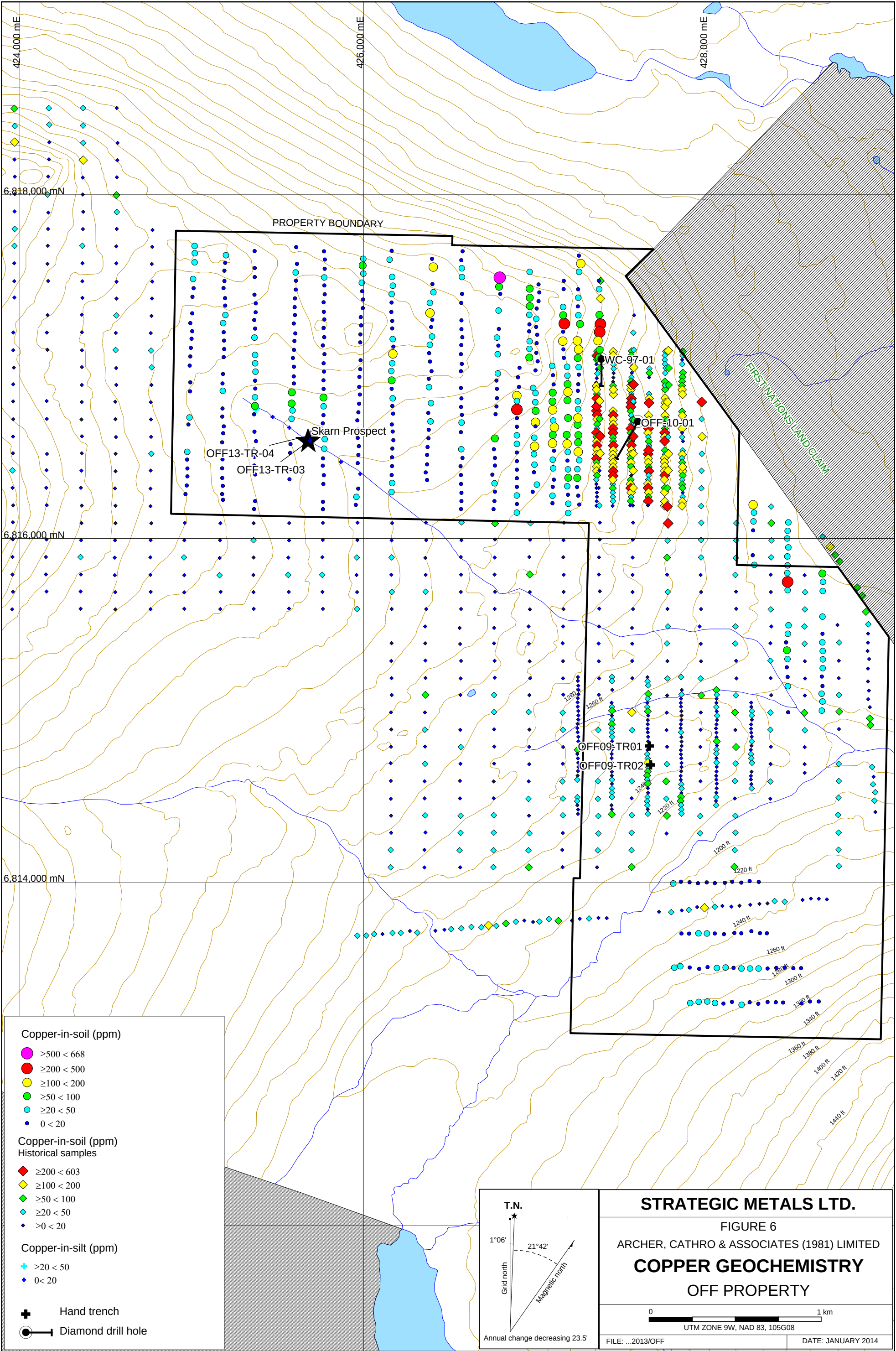
SOIL AND SILT GEOCHEMISTRY

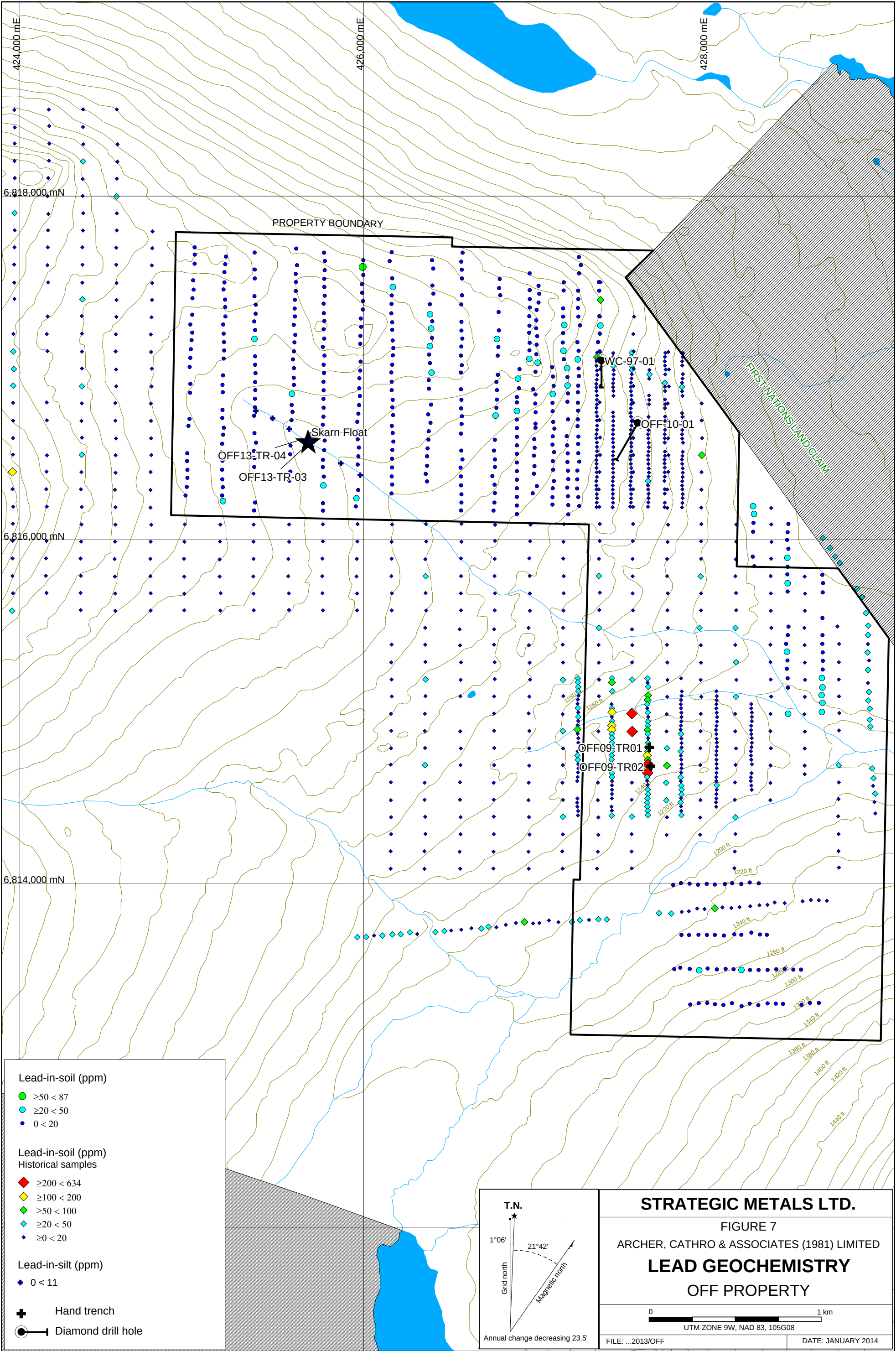
The area of the Off property was previously grid soil sampled in 1996 and 1997 by Westmin Resources (Terry *et al.*, 1996 and 1998), in 2001 by Expatriate (Tucker, 2002), and in 2009 by Strategic Metals (Gregory, 2009). In 2013, a total of 376 soil samples and six silt samples were collected from the northwestern part of the property. The soil samples were taken on a grid at 50 by 100 m intervals, while the silt samples were collected at 200 m spacings. Sample locations and results for copper, lead and zinc from all surveys are illustrated on Figures 6 to 8, respectively.

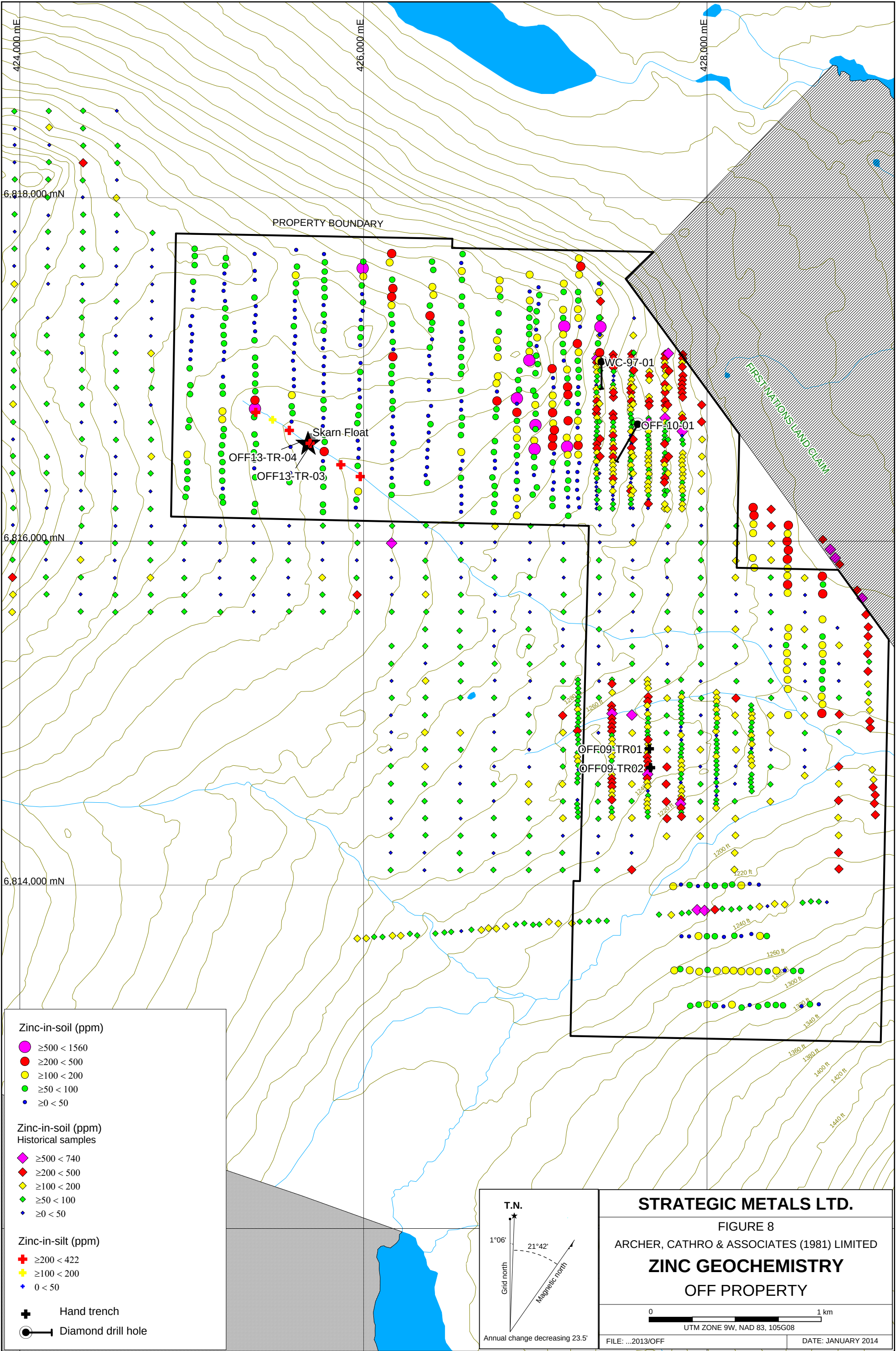
Soil samples were collected from 30 to 50 cm deep holes dug by hand-held augers. All samples were placed into individually pre-numbered Kraft paper bags. Soil sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 50 cm wooden lath that were driven into the ground. Sample locations were recorded using hand-held GPS units.

Soil samples were sent to ALS Minerals in Whitehorse where they were dried and screened to -180 microns. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analyzed for 48 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS61). An additional 30 g charge from each fine fraction was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are provided in Appendix III.

The Off property hosts two strong, multi-element soil geochemical anomalies. The first anomaly covers a 2000 by 1000 m, northwesterly-elongated area with elevated copper and zinc values, in the northern part of the property. Peak values from this anomaly were 668 ppm copper and 1560 ppm zinc. Two drill holes (WC-97-01 and OFF-10-01) have been drilled in the central part of this anomaly and details pertaining to them are provided in the Diamond Drilling section below. The second anomaly consists of a 100 by 500 m, northwesterly-elongated area with coincident moderately to strongly anomalous lead and zinc values. Peak values from this sampling were 634 ppm lead and 1965 ppm zinc. Two small hand trenches were dug within this anomaly and the results are discussed in the Hand Trenching section below.







Two secondary anomalies have also been outlined: a few moderately to strongly anomalous zinc (up to 626 ppm) values are clustered near a northwesterly-flowing creek in the western part of the property; and a number of scattered, strongly anomalous zinc-in-soil values occur in the southern part of the property. Neither of these zinc anomalies has been followed up.

Silt sampling yielded four moderately anomalous zinc (up to 422 ppm) values, which lack copper and lead support. Two of the anomalous zinc-in-silt values lie upstream from the mineralized skarn float and therefore are likely closer to the source.

HAND TRENCHING

In 2009, Strategic Metals dug two hand trenches within the lead and zinc soil anomaly in the central part of the property. OFF09-TR01 was 4.2 m long and 0.8 m deep. It exposed quartz-chlorite schist, samples of which returned low geochemical values. OFF09-TR02 was 9.0 m long and 0.5 to 1.0 m deep. On the west wall of this trench, a weakly to strongly limonite-altered horizon was encountered within the schist. A 40 cm chip sample across this horizon returned 200 ppm lead and 149 ppm zinc. Samples from the rest of the trench returned subdued values for VMS pathfinder elements (Gregory, 2009).

In 2013, two hand trenches were dug in an attempt to expose the source of the mineralized skarn specimen. These trenches were oriented parallel to the contact between meta-rhyolite and quartz-sericite-biotite schist. OFF13-TR03 was 3.0 m long and 0.45 m deep and contained biotite-sericite-quartz schist with limonite coated pits (Figure 9). Samples collected from this trench returned background geochemical values. OFF13-TR04 lies 20 m northwest of OFF13-TR03 and was 9.0 m long and 0.45 to 1.10 m deep (Figure 10). It exposed meta-rhyolite with disseminated pyrite/limonite. The best sample taken from this trench returned 393 ppm copper over 1.5 m, but lead and zinc values were low.

DIAMOND DRILLING

1997 Diamond Drilling

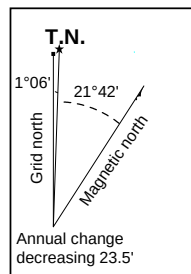
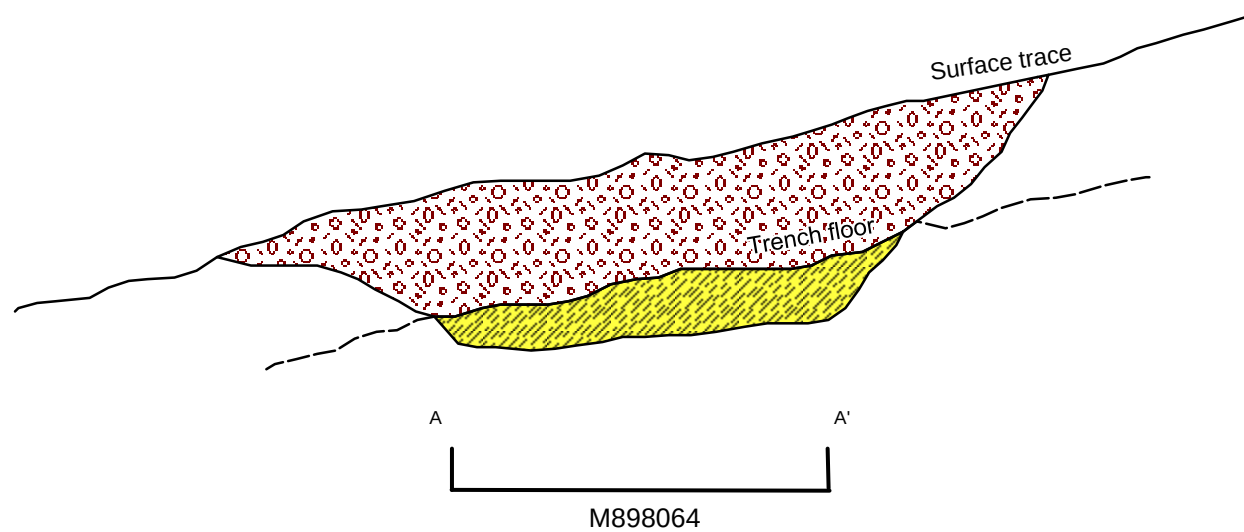
In 1997, Cominco completed a 308 m long diamond drill hole (WC-97-01), which was oriented at 180° with a -60° dip toward the copper and zinc anomaly in the northern part of the claim block (Figures 6 and 8). This hole encountered several 1 to 4 cm thick, massive pyrite bands within an argillite subunit; however, it failed to identify mineralization explains the soil geochemical anomaly.

2010 Diamond Drilling

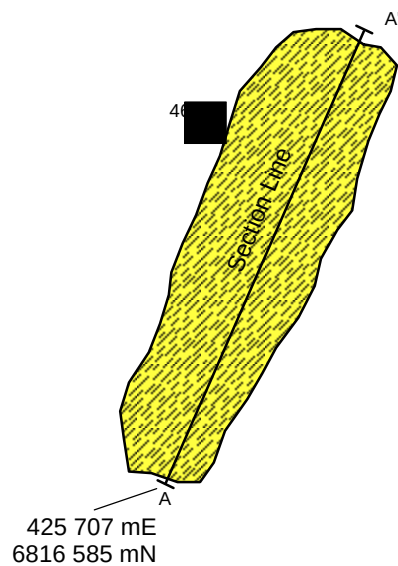
In 2010, Strategic Metals completed a 244.14 m diamond drill hole (OFF-10-01) to further test the copper and zinc soil anomaly in the northern part of the property. The collar of OFF-10-01 is located uphill to the south of WC-97-01. The plan view locations for both holes are plotted with geological and geochemical data on Figures 4 and 6 to 8, while a cross-section for OFF-10-01 is illustrated on Figure 11. Key data concerning the 2010 drill hole are shown on Table II.

OFF13-TR03

Section View
025



OFF13-TR03
Map View



Overburden



Biotite-sericite-quartz schist
with limonite coated pits



Attitude of foliation



Assay interval and sample length

Sample No	Sample Interval (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)
M898064	2.5	17.3	3	54

STRATEGIC METALS LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH MAP (OFF13-TR03)

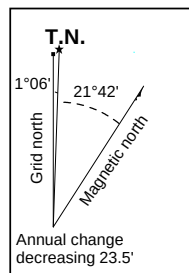
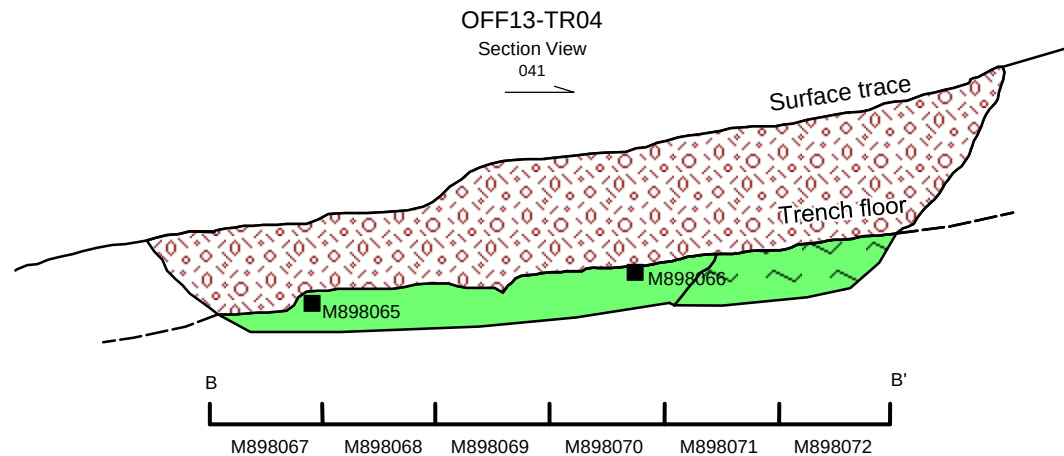
OFF PROPERTY

0 0.5 2.5 m

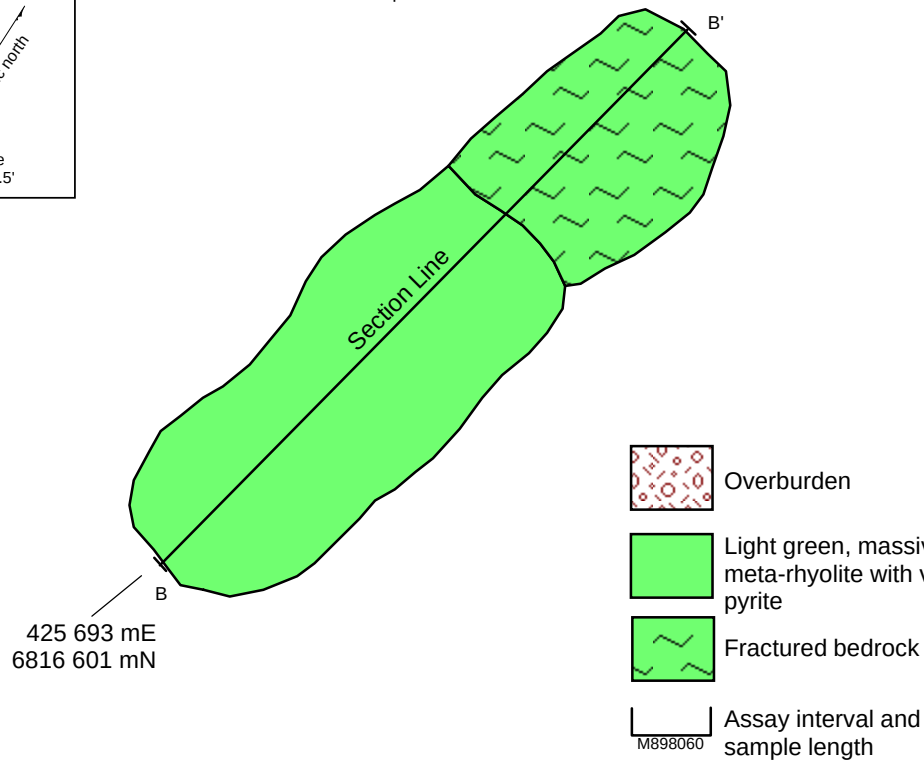
UTM ZONE 9W, NAD 83, 105G08

FILE: ...2013/OFF/

DATE: JANUARY 2014



OFF13-TR04
Map View



Sample No	Sample Interval (m)	Cu (ppm)	Pb (ppm)	Zn (ppm)
M898065	Specimen	245.0	7.7	78
M898066	Specimen	37.6	4.2	116
M898067	1.5	393.0	7.9	54
M898068	1.5	137.0	6.0	73
M898069	1.5	333.0	8.0	60
M898070	1.5	100.5	7.9	66
M898071	1.5	114.5	7.2	85
M898072	1.5	99.6	7.4	74

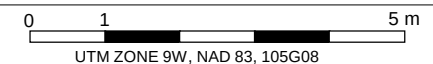
STRATEGIC METALS LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH MAP (OFF13-TR04)

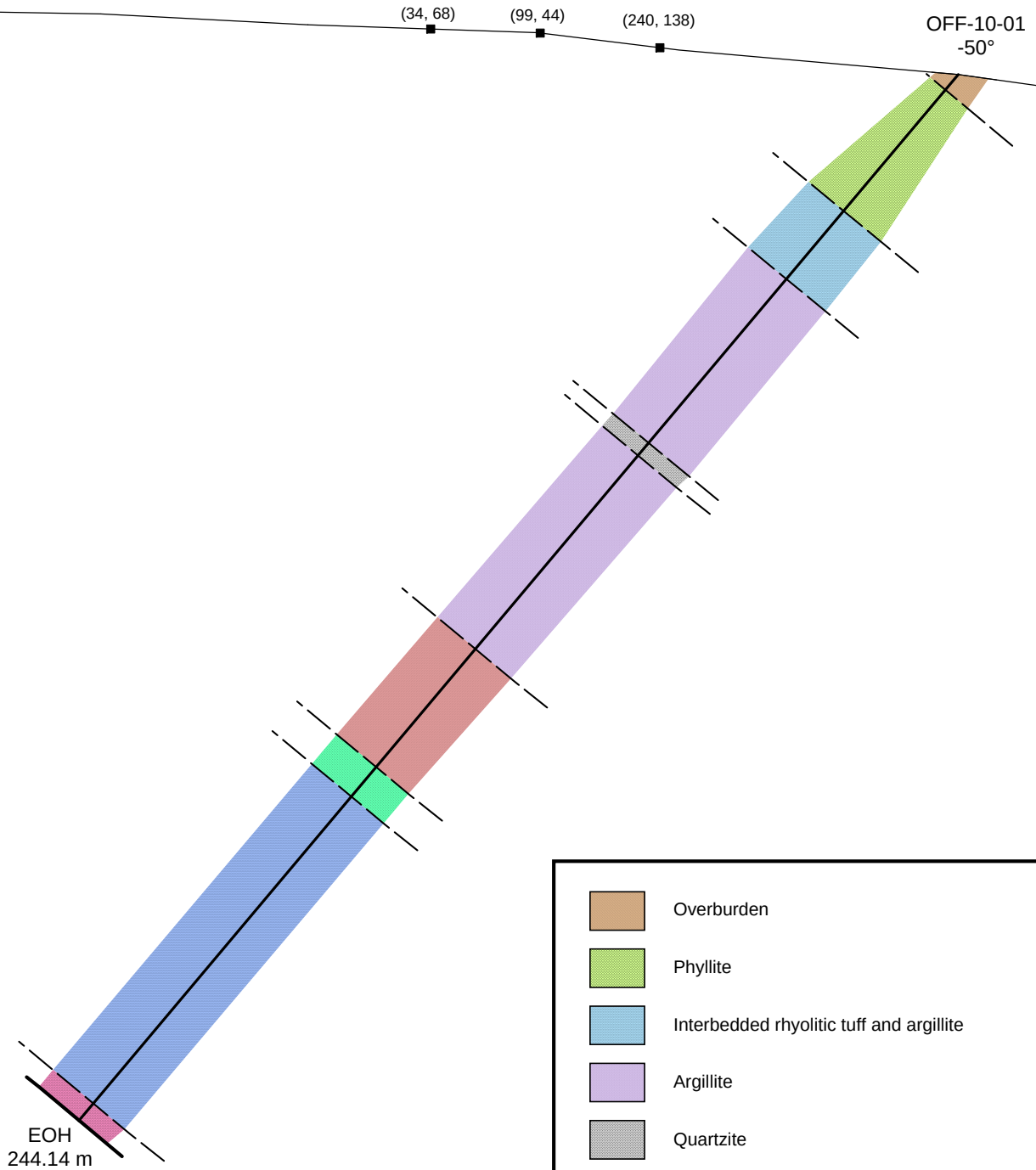
OFF PROPERTY



FILE: ...2013/OFF/

DATE: JANUARY 2014

Section looking south-southwest (210°)



STRATEGIC METALS LTD.

FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

OFF-10-01 CROSS SECTION

OFF PROPERTY

0 50 m

UTM ZONE 9, NAD 83, 105G/08

FILE: ...2010/layer

DATE: JANUARY 2014

- Overburden
- Phyllite
- Interbedded rhyolitic tuff and argillite
- Argillite
- Quartzite
- Fragmental rhyolite interbedded with argillite
- Meta-volcaniclastic
- Meta-volcaniclastic interbedded with phyllite
- Interbedded rhyolite and altered quartzite
- Contact
- Historical soil sample (Cu, Zn ppm)

Table II– Drill Hole Data

Hole	Easting (m)	Northing (m)	Elevation (m)	Azimuth	Dip Angle	Length (m)
OFF-10-01	427596	6816678	1319	210	-50°	244.14

The hole intersected eight lithological units, four of which are locally interbedded. The units are described in detail in Fu and Eaton (2010).

Mineralization in OFF-10-01 consists of fine to medium grained, subhedral to euhedral pyrite crystals. It is present as disseminations, sub-rounded blebs and laminations or along fractured surfaces. The hole was sampled from top to bottom, but all samples returned subdued values for gold, silver, copper, lead and zinc.

DEPOSIT MODEL

Based on the lithologies mapped in the area and the soil and geochemical signatures, the Off property has potential to host a copper skarn deposit and/or a Kuroko-style VMS deposit.

Two skarn occurrences (Myda and Goon) are located near the Off property. Both of these occurrences lie along the margins of the Late Cretaceous granite intrusion that underlies in the southern part of the Off property. The Myda occurrence (Minfile 105G 071) is located 9500 m southwest of the property, on interim protected land (RRDC R-15A). It consists of scapolite skarn with patchy scheelite in a limestone horizon of the North River Formation. Grab samples of this skarn returned up to 0.7% tungsten and 0.17 g/t gold. The Goon occurrence (Minfile 105G 125) is located 12 km southwest of the property and consists of semi-massive pyrrhotite-pyrite-chalcopyrite-galena-sphalerite skarn hosted by the Grass Lakes Group. A specimen from this skarn returned 45.0 g/t silver, 3.50% copper, 0.09% zinc and 430 ppm cobalt; a 40 cm chip sample from massive, fine-grained pyrrhotite boulder yielded 1.0 g/t silver, 0.14% copper and 125 ppm cobalt; and a sample of foliaform disseminated galena, sphalerite and chalcopyrite in biotite-chlorite-garnet-quartz schist returned 103.0 g/t silver, 2.59% lead, 2.51% zinc and 840 ppm copper (Eaton, 1998).

The VMS-style mineralization could be modelled on the Kudz Ze Kayah Deposit, located 13 km to the west. The Kudz Ze Kayah Deposit comprises an inferred resource of 12.8 million tonnes grading 5.9% zinc, 1.7% lead, 0.81% copper, and 1.38 g/t gold (Teck Cominco Ltd., 2009). It is hosted within an overturned assemblage of felsic fragmental, aphanitic massive meta-rhyolite and meta-siliclastic rocks of Kudz Ze Kayah Formation (Bond, 2002).

The host metavolcanic sequence at Kudz Ze Kayah has been structurally thickened to about 1000 m and is subdivided up into the following units: felsic tuffs, felsic flows, feldspar and quartz meta-intrusive rocks, feldspar augen crystal tuff, and undifferentiated mafic metavolcanic rocks.

Felsic tuffs are the most abundant unit. They are commonly thin bedded near the top of the structural sequence and at stratigraphic levels where argillaceous, sediments occur as

intercalations. Thin mafic tuffs are locally present in this unit as strongly foliated porphyroblastic chlorite-biotite-calcite and as coarse grained mafic schist with gabbroic texture (Schultze and Hall, 1997).

The deposit subcrops beneath 2 to 20 m of glacial overburden and extends for 700 m along an easterly strike and up to 400 m down dip (Schultze and Hall, 1997). The deposit is tabular and forms a single layer over much of its extent; however, two layers of sulphides have been encountered in some areas within the southwest part of the deposit (Schultze and Hall, 1997). Economic minerals are sphalerite, chalcopyrite, and galena with electrum occurring at the margins of galena and chalcopyrite grains (Hunt, 2002). Gangue minerals include a mixture of magnetite, barite, pyrrhotite, pyrite and carbonate. Alteration in the immediate hanging wall and footwall of the deposit is typically porphyroblastic, chlorite/biotite-ankerite-muscovite $\pm$ albite, while the distal alteration assemblage is characterized by carbonate-sericite-silica $\pm$ pyrite (Hunt, 2002).

The hanging wall of the host metavolcanic complex is a metasedimentary package that lies about 200 m above the deposit. Its composition varies between carbonaceous and calcareous mudstones, with minor quartzites, siltstones, limestones and intercalations of mafic and felsic volcanics. This sequence is thick and regionally extensive. A second metasedimentary package underlies the metavolcanic complex. It is coarser grained than the hanging wall package and is largely composed of siltstones, phyllitic schists, light grey quartzites and more massive tuffaceous wackes interfingered with feldspar porphyry bodies. Locally, non-carbonaceous to carbonaceous mudstones, thin felsic tuffs, mafic sills and dykes (flows?) and banded cherty horizons are found in the footwall metasedimentary sequence. The thickness and extent of these units are unknown (Schultze and Hall, 1997).

The Kudz Ze Kayah Deposit and its host rocks display a sub-horizontal to moderately north-dipping penetrative schistosity and exhibit isoclinal, recumbent folding with bedding generally parallel to schistosity (Schultze, 1996). The zonation of base and precious metals and barium within the deposit, the proximal location of chloritic alteration above portions of the deposit, and the lithogeochemical signatures of the deposit and the overlying units led Schultze (1996) to suggest that the deposit is, at least in part, overturned.

Based on the geological and geochemical characteristics of Kudz Ze Kayah Formation, Piercey *et al.* (2001) proposed that it was deposited within a back-arc basin environment. Mortensen (1992) suggested that Devonian-Mississippian YTT arc magmas formed above a west-facing subduction zone proximal to North America and that the felsic rocks in Kudz Ze Kayah Formation represent rifting and subsequent ensialic back-arc basin generation within this arc. The arc rifting and the syn-volcanic faults associated with it are likely the regional-scale controls on the localization and formation of the Kudz Ze Kayah Deposit (Murphy and Piercey, 2000).

DISCUSSION AND CONCLUSIONS

The Off property covers strong but unexplained copper, lead and zinc soil geochemical anomalies, which are underlain by units that are prospective for VMS style mineralization. These units locally contain calcareous horizons that could also host skarn mineralization.

The soil anomalies may be sourcing from buried skarn and/or VMS deposits. A detailed study of local glacial movements will benefit exploration efforts as glacial transport may have caused a down-ice shift in the location of the observed soil anomaly.

Future work is warranted on the Off property with the next phase including the glacial study described above and hand pitting. A grid of evenly spaced hand pits should be dug at, and up-ice from, strongly anomalous copper, lead and zinc soil values. These pits should be at least one metre deep and once excavated a geologist should record the primary lithology and style of alteration and mineralization present in outcrop and rocks found in soil. Pending favourable results from this work, consideration should be given to conducting ground-based electromagnetic and magnetic geophysical surveys and, if warranted, more drilling.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in black ink, appearing to read 'X. Montague', is positioned above the printed name.

X. Montague, BSc., GIT

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2013 Minfile occurrence details (105G 071); Available at <http://data.geology.gov.yk.ca>

2013 Minfile occurrence details (105G 125); Available at <http://data.geology.gov.yk.ca>

APPENDIX I
STATEMENTS OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Xéna Montague, geologist, with business address in Whitehorse, Yukon Territory and in Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 2012 with a BSc (Hons) in Geological Sciences.
2. From 2011 to present, I have been actively engaged as a geologist in mineral exploration in the Yukon Territory.
3. I am a registered Geologist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have personally participated in and supervised the field work reported herein and have interpreted all data resulting from this work.

A handwritten signature in black ink, appearing to read 'Xéna', is positioned above the printed name.

X. Montague, BSc., GIT

APPENDIX II
STATEMENT OF EXPENDITURES

Statement of Expenditures
Off 1-39, 42-57 Mineral Claims
March 23, 2014

Labour

D. Eaton – geologist – 9 hours April to January at \$120/hr	\$ 1,134.00
H. Burrell – geologist – 23 hours April to January at \$96/hr	2,318.40
X. Montague – geologist – 13 $\frac{3}{4}$ days April to January at \$578/day	8,316.00
S. Wedge – field assistant – 7 days April to January at \$408/day	2,998.80
K. Gray – field assistant – 7 days April to January at \$357/day	2,646.00
M. Crapper – field assistant – 1 $\frac{1}{2}$ days April to January at \$344/day	541.80
S. Newman – office – 13 hours April to January at \$62/hr	846.30
L. Smith – office – 30 hours April to January at \$62/hr	<u>1,953.00</u>
	20,754.30

Expenses (incl. management)

Field room and board – 21 $\frac{1}{2}$ mandays at \$135/day	3,291.44
Trans North Helicopters	3,471.38
ALS Chemex	14,901.36
Vancouver Petrographics Ltd.	<u>1,093.18</u>
	22,757.36

Total	<u>\$43,511.66</u>
-------	--------------------

Total 401 soil, silt and rock samples = \$108.51/sample

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: 22-SEP-2013
Account: MTT

CERTIFICATE WH13158584

Project: OFF

P.O. No.:

This report is for 19 Rock samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL

SARAH DRECHSLER

JOAN MARIACHER

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
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

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

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

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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.
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Page: 2 - A
Total # Pages: 2 (A - D)
Plus Appendix Pages
Finalized Date: 22-SEP-2013
Account: MTT

Project: OFF

CERTIFICATE OF ANALYSIS WH13158584

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
M898054		0.57	0.002	0.09	7.66	<5	1070	1.97	0.73	11.30	0.13	111.0	55.7	534	6.03	137.0
M898055		1.26	<0.001	0.04	4.61	12	810	3.00	0.10	10.40	0.26	66.8	38.3	426	2.61	11.7
M898056		1.10	<0.001	0.03	7.07	<5	400	1.33	0.08	16.05	0.24	19.55	17.4	159	1.42	12.5
M898057		0.88	0.004	0.02	2.60	7.5	1600	1.60	0.27	0.48	0.14	16.00	0.8	117	1.13	17.0
M898058		0.72	0.001	0.05	5.35	0.6	2620	1.92	0.47	0.05	0.20	43.5	5.6	69	1.92	47.1
M898059		0.76	<0.001	0.30	3.54	2.9	1710	2.32	1.28	0.04	0.06	15.90	0.8	69	4.01	19.7
M898060		0.59	<0.001	0.27	5.80	18.4	2570	2.95	1.09	0.01	0.33	50.1	0.9	76	6.45	25.2
M898061		0.20	<0.001	<0.01	5.09	1.9	2340	1.30	0.04	0.18	0.18	23.9	3.0	48	1.98	5.1
M898062		1.12	0.001	0.18	5.65	<5	330	1.57	0.44	10.80	0.39	69.2	19.7	479	0.58	90.9
M898063		1.80	0.009	0.45	5.03	4.0	70	0.67	1.50	8.89	0.70	106.0	127.5	360	0.27	1090
M898064		2.05	<0.001	<0.01	2.90	2.1	910	1.57	0.28	2.55	0.24	33.4	5.3	52	3.36	17.3
M898065		1.01	0.002	0.20	6.98	1.3	1220	1.09	0.66	9.15	0.14	74.8	26.0	581	10.25	245
M898066		0.58	0.003	0.12	4.50	0.5	170	0.70	0.53	7.73	0.09	34.7	11.0	381	1.74	37.6
M898067		1.63	0.002	0.25	6.17	1.8	960	1.29	0.81	8.92	0.18	68.0	53.4	568	20.5	393
M898068		1.74	0.001	0.13	5.06	2.6	1010	1.17	0.44	8.38	0.13	57.2	25.7	442	13.15	137.0
M898069		1.45	0.002	0.25	6.30	2.4	1310	1.40	0.59	9.19	0.16	92.9	32.6	477	13.30	333
M898070		1.69	0.001	0.21	6.90	2.0	2230	1.71	0.48	9.69	0.13	72.9	22.8	522	8.32	100.5
M898071		1.53	0.001	0.15	6.29	6.0	1730	1.65	0.39	9.55	0.15	82.5	30.3	472	9.11	114.5
M898072		1.52	0.001	0.13	5.86	<5	780	1.06	0.44	10.60	0.14	45.1	25.4	416	3.48	99.6



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	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
M898054		8.04	20.2	0.25	2.3	0.209	0.57	53.5	6.8	4.03	707	2.83	0.26	72.9	513
M898055		10.35	10.30	0.17	0.9	0.320	0.62	38.1	13.1	6.54	1100	0.15	0.21	38.1	387
M898056		8.32	22.9	0.28	0.5	0.216	0.23	10.2	6.6	2.30	844	0.20	0.08	18.6	210
M898057		0.76	9.76	0.09	1.2	0.017	1.09	10.8	12.0	0.14	51	32.4	0.05	7.6	91.3
M898058		2.12	13.40	0.15	2.1	0.016	2.21	25.6	13.4	0.16	94	18.60	0.11	8.9	49.5
M898059		1.50	11.30	0.10	1.4	0.044	1.61	10.4	21.6	0.31	62	9.03	0.07	7.1	8.0
M898060		4.34	17.10	0.20	2.0	0.043	2.98	27.7	27.5	0.37	68	21.9	0.08	9.2	10.1
M898061		0.79	10.75	0.09	1.8	0.005	1.34	14.2	9.9	0.31	87	9.93	2.35	7.5	25.6
M898062		8.02	18.00	0.23	1.6	0.813	0.11	42.9	1.9	4.18	1200	1.48	0.41	40.5	77.3
M898063		16.60	14.55	0.56	2.1	0.276	0.02	58.9	1.0	2.25	1200	3.10	0.04	43.3	262
M898064		1.44	8.60	0.10	0.9	0.025	1.02	18.0	13.8	1.21	132	4.54	0.84	4.9	71.6
M898065		7.31	19.15	0.24	1.1	0.238	0.62	36.6	11.0	5.81	560	4.24	0.21	65.9	65.8
M898066		6.34	12.65	0.17	0.6	0.211	0.13	20.9	10.1	8.97	738	1.27	0.08	41.7	21.0
M898067		7.79	17.15	0.26	0.9	0.170	0.75	31.3	10.7	4.95	564	3.11	0.37	55.3	146.5
M898068		6.40	13.85	0.18	1.1	0.172	0.66	28.8	10.5	6.91	643	3.13	0.23	47.0	92.3
M898069		6.18	18.05	0.24	1.8	0.153	0.80	42.6	7.6	5.43	570	4.68	0.32	65.3	157.0
M898070		5.39	18.00	0.19	1.3	0.165	1.05	34.3	8.2	5.14	635	3.68	0.23	65.2	105.5
M898071		5.86	15.70	0.19	1.4	0.156	0.90	36.2	10.1	6.39	768	2.58	0.25	53.9	171.0
M898072		5.31	14.75	0.16	0.8	0.175	0.47	22.7	7.1	6.77	752	3.56	0.14	45.1	108.5



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
M898054		10.9	31.5	0.005	0.99	1.81	34.1	15	5.6	734	4.17	0.17	5.7	1.470	2.3
M898055		9.5	28.8	0.002	0.02	0.71	18.4	1	12.3	370	2.37	<0.05	2.9	0.839	1.0
M898056		18.3	12.6	0.002	0.01	1.20	9.3	1	10.6	1030	0.80	<0.05	1.2	0.332	0.5
M898057		4.7	53.6	0.005	0.01	0.38	5.2	3	1.0	39.5	0.44	0.17	3.9	0.148	11.6
M898058		6.6	106.0	0.004	0.03	0.14	9.1	4	1.2	77.2	0.62	0.11	9.8	0.262	6.8
M898059		32.8	70.4	<0.002	0.05	0.20	7.9	5	11.2	32.8	0.44	0.12	6.1	0.192	2.2
M898060		69.8	130.5	<0.002	0.04	4.13	10.8	8	2.7	35.0	0.58	0.19	7.1	0.228	1.9
M898061		5.1	54.0	0.004	0.01	0.09	7.0	1	0.5	30.0	0.47	<0.05	5.6	0.178	3.0
M898062		5.6	4.3	<0.002	0.52	1.32	22.8	7	12.1	914	2.77	0.13	4.0	0.918	1.2
M898063		6.6	0.5	0.002	9.15	0.88	18.0	77	4.0	340	2.80	1.24	4.5	0.898	1.8
M898064		3.0	57.3	0.012	0.06	0.08	5.1	2	0.7	56.5	0.34	0.07	6.2	0.147	6.5
M898065		7.7	36.5	0.004	0.36	0.56	29.2	12	4.3	260	4.33	0.19	5.9	1.290	4.3
M898066		4.2	6.2	<0.002	0.08	0.40	20.9	6	4.0	97.8	2.58	0.28	3.9	0.810	4.8
M898067		7.9	43.8	<0.002	0.88	0.58	24.2	18	2.5	229	3.47	0.24	5.5	1.130	3.0
M898068		6.0	38.3	0.002	0.08	0.61	20.4	5	2.8	181.5	3.03	0.12	4.7	0.917	4.4
M898069		8.0	42.7	0.004	0.36	0.77	23.5	11	3.5	267	3.86	0.14	6.8	1.130	6.0
M898070		7.9	48.3	<0.002	0.05	0.75	25.4	5	3.2	264	4.07	0.10	6.5	1.215	5.4
M898071		7.2	47.5	0.002	0.07	0.65	25.1	4	3.1	236	3.55	0.06	5.5	1.100	6.0
M898072		7.4	24.8	<0.002	0.12	0.57	21.8	7	2.7	193.5	3.13	0.10	3.7	0.992	3.9



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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
M898054		258	0.9	26.8	50	84.3
M898055		134	0.4	12.4	257	30.0
M898056		142	0.3	8.6	101	13.3
M898057		2500	2.3	19.9	55	62.1
M898058		322	2.8	7.8	67	73.8
M898059		246	2.2	5.2	89	54.8
M898060		266	2.2	5.9	174	78.9
M898061		298	1.9	7.3	84	68.9
M898062		167	0.6	17.9	130	61.7
M898063		139	0.6	17.0	82	87.4
M898064		959	1.1	19.6	54	42.5
M898065		223	0.9	25.0	78	38.6
M898066		149	0.5	16.8	116	24.6
M898067		228	1.0	23.6	54	32.3
M898068		164	0.8	19.2	73	41.7
M898069		181	1.1	26.8	60	63.5
M898070		186	2.0	27.3	66	45.7
M898071		177	1.2	20.3	85	47.6
M898072		171	1.1	15.2	74	29.6



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

Applies to Method: Interference: Samples with Ca>10% on ICP-MS As. ICP-AES As results reported (5 ppm DL)
 ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
 CRU-31 CRU-QC LOG-22 PUL-31
 PUL-QC SPL-21 WEI-21

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



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P.O. No.:

This report is for 171 Soil samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL

SARAH DRECHSLER

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
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
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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	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ85147		0.30	0.001	0.10	4.36	4.3	840	1.49	0.19	1.96	1.61	60.0	9.2	91	3.73	11.4
ZZ85148		0.18	0.001	0.17	4.96	5.6	1020	1.92	0.23	2.21	2.25	72.7	11.3	105	5.69	16.0
ZZ85149		0.11	0.001	0.20	4.96	6.0	1040	2.00	0.33	2.27	3.64	77.1	12.9	100	6.46	17.3
ZZ85464		0.14	0.004	0.08	4.95	1.9	950	2.11	0.34	1.68	0.40	72.7	7.6	111	4.39	15.6
ZZ85465		0.08	NSS	0.14	4.67	5.2	940	1.54	0.29	2.30	3.18	57.5	7.7	75	5.05	35.7
ZZ85099		0.21	0.003	0.11	4.64	3.3	900	1.92	0.27	2.26	1.67	63.7	7.8	95	5.40	16.2
ZZ87406		0.19	0.001	0.02	4.94	3.0	780	2.20	0.27	1.02	0.09	67.8	5.2	120	4.05	3.4
ZZ87407		0.22	<0.001	0.05	4.68	1.5	790	1.75	0.16	0.90	0.05	44.5	3.2	83	2.61	5.3
ZZ87408		0.19	<0.001	0.03	4.04	2.5	670	1.61	0.24	0.87	0.08	40.7	2.9	66	2.78	3.3
ZZ87409		0.15	0.014	0.08	5.44	1.4	870	1.70	0.21	1.06	0.09	37.4	2.9	50	3.38	8.1
ZZ87410		0.27	0.001	0.01	5.05	3.5	1070	1.92	0.14	1.39	0.14	53.0	4.8	79	2.62	9.9
ZZ87411		0.24	0.001	0.05	5.02	3.5	950	1.95	0.19	1.15	0.09	51.0	4.6	75	3.05	6.5
ZZ87412		0.28	0.001	0.05	4.78	2.5	1090	2.08	0.15	1.20	0.12	48.6	4.6	77	2.56	8.0
ZZ87413		0.18	0.003	0.37	6.40	8.2	1510	2.95	0.36	1.54	0.14	139.0	7.8	99	6.66	45.3
ZZ87414		0.25	0.001	0.01	5.04	4.9	1490	1.89	0.13	1.30	0.13	45.8	6.0	90	3.13	11.7
ZZ87415		0.32	0.003	0.05	6.68	15.1	3810	3.52	0.28	0.97	0.15	82.3	11.2	101	19.40	39.1
ZZ87416		0.15	0.001	0.10	5.59	4.6	1360	2.26	0.35	0.93	0.09	80.9	6.5	95	7.97	14.7
ZZ87417		0.13	0.002	0.03	5.65	4.4	1310	2.10	0.23	0.62	0.07	53.9	3.2	75	8.86	5.6
ZZ87418		0.19	<0.001	0.08	5.38	4.2	1190	1.92	0.32	0.80	0.15	46.4	3.6	66	9.47	3.4
ZZ87419		0.15	0.001	0.04	5.71	8.1	1160	2.58	0.30	1.05	0.07	74.8	8.1	76	6.86	17.1
ZZ87420		0.20	0.018	0.18	5.73	4.3	1230	1.98	0.17	0.55	0.23	35.7	6.2	83	5.88	13.7
ZZ87421		0.12	0.001	0.04	5.63	8.5	1210	2.68	0.36	0.81	0.37	54.2	6.1	125	7.75	14.7
ZZ87422		0.14	0.001	0.67	5.33	8.0	1060	2.63	0.46	0.87	0.37	78.2	4.8	103	6.16	10.0
ZZ87423		0.18	0.001	0.22	5.43	4.7	1560	2.26	0.24	0.75	0.20	42.5	4.3	88	6.46	11.6
ZZ87424		0.16	0.001	0.15	5.21	12.3	920	2.20	0.31	0.77	0.24	52.8	5.5	95	5.49	14.4
ZZ87425		0.17	0.001	0.34	4.74	10.2	890	1.88	0.39	0.59	0.33	43.4	3.0	70	5.52	13.8
ZZ87426		0.19	0.001	0.19	6.00	5.4	1220	2.06	0.39	0.84	0.16	50.1	5.6	107	7.66	11.7
ZZ87427		0.15	<0.001	0.08	5.68	1.5	310	1.04	0.09	0.73	0.08	26.3	5.8	31	5.74	9.5
ZZ87428		0.20	<0.001	0.03	4.79	3.9	1440	1.92	0.16	0.52	0.09	24.8	4.3	64	7.69	14.9
ZZ87429		0.14	0.002	0.14	4.22	3.5	800	1.34	0.15	2.27	0.46	46.8	4.4	29	2.66	22.9
ZZ87430		0.09	0.003	0.27	5.48	8.7	1150	2.19	0.30	1.64	0.95	88.0	6.5	60	5.99	42.5
ZZ87431		0.21	0.001	0.03	4.40	1.8	1150	1.43	0.10	0.21	0.11	45.2	1.1	69	3.84	4.6
ZZ87432		0.11	0.002	0.22	5.43	7.0	1720	2.08	0.27	0.55	0.22	63.2	3.2	89	7.49	17.5
ZZ87433		0.21	0.003	0.12	5.41	8.7	1560	1.83	0.25	0.86	1.57	69.2	9.7	78	4.40	19.9
ZZ87434		0.14	0.002	0.26	6.58	3.9	860	1.22	0.14	2.18	0.96	39.4	5.1	9	1.61	26.2
ZZ87435		0.15	0.001	0.23	6.99	11.5	1140	1.65	0.16	1.66	0.38	50.0	10.5	38	3.20	23.0
ZZ87436		0.16	0.002	0.39	6.38	10.1	1950	2.31	0.28	0.86	1.31	82.8	9.6	75	4.51	43.6
ZZ87437		0.26	0.002	0.08	7.08	12.2	2590	2.74	0.25	0.58	0.37	57.9	9.6	88	7.81	22.5
ZZ87438		0.17	0.002	0.12	6.65	7.2	1530	2.12	0.23	0.38	0.11	44.1	7.2	62	5.24	11.3
ZZ87439		0.16	0.001	0.03	5.20	5.6	1810	2.04	0.18	0.69	0.19	50.8	5.3	75	4.02	15.4



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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	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	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
ZZ85147		2.25	10.70	0.13	1.2	0.048	0.92	31.9	26.6	0.93	1200	5.46	1.32	10.8	65.5	1560
ZZ85148		2.57	11.85	0.13	1.4	0.048	1.06	39.2	40.1	1.16	1330	4.56	1.27	11.1	95.5	1750
ZZ85149		2.71	11.95	0.14	1.5	0.049	1.04	41.6	43.4	1.19	1670	5.75	1.17	11.1	99.7	1850
ZZ85464		1.79	13.10	0.12	1.8	0.050	1.29	37.9	24.6	1.10	243	1.24	1.42	14.8	52.4	2010
ZZ85465		1.94	11.80	0.14	1.2	0.035	0.87	40.9	22.4	1.05	815	5.03	1.40	9.0	91.1	1880
ZZ85099		2.01	11.25	0.17	1.3	0.048	0.95	36.5	28.3	0.99	441	2.88	1.27	10.8	65.4	1650
ZZ87406		1.78	14.50	0.13	3.4	0.040	1.64	35.0	20.3	0.93	276	1.50	1.54	15.8	39.1	630
ZZ87407		1.24	14.20	0.14	2.2	0.041	1.33	22.8	14.3	0.65	161	1.46	1.75	12.1	21.6	1080
ZZ87408		1.13	12.00	0.13	2.0	0.030	1.12	21.1	12.7	0.53	171	2.41	1.47	10.5	16.9	880
ZZ87409		1.17	14.95	0.12	2.5	0.032	1.58	20.0	14.8	0.52	194	3.31	1.91	10.2	11.0	290
ZZ87410		1.54	14.00	0.12	2.7	0.042	1.32	29.7	16.5	1.00	175	1.60	1.63	13.6	33.5	2770
ZZ87411		1.73	13.50	0.14	2.0	0.040	1.40	26.4	18.6	0.88	206	2.12	1.53	13.8	26.4	1520
ZZ87412		1.43	12.90	0.16	2.2	0.033	1.33	28.5	17.0	0.84	208	3.15	1.47	11.4	28.6	1960
ZZ87413		2.81	17.80	0.33	3.4	0.053	1.57	109.5	32.1	1.20	248	8.04	1.24	13.7	70.2	2700
ZZ87414		1.69	13.90	0.12	2.0	0.031	1.31	23.8	17.1	1.26	174	4.59	1.38	11.0	43.6	2220
ZZ87415		3.36	22.2	0.20	2.8	0.048	1.94	48.9	30.2	2.37	263	14.30	1.12	10.9	160.5	1900
ZZ87416		1.98	15.80	0.22	2.4	0.038	1.48	79.4	20.2	0.82	618	18.80	1.51	11.8	44.0	1110
ZZ87417		1.47	15.70	0.15	2.4	0.031	1.53	39.6	18.0	0.78	172	7.22	1.71	14.0	27.3	570
ZZ87418		1.41	16.55	0.12	2.3	0.035	1.66	25.1	16.5	0.67	282	9.93	1.64	16.9	16.6	200
ZZ87419		2.12	15.30	0.18	2.8	0.038	1.43	68.4	31.3	1.03	336	5.11	1.55	13.1	56.7	870
ZZ87420		2.33	16.45	0.13	2.1	0.038	1.27	19.9	26.8	1.85	219	2.39	1.45	10.8	40.0	1140
ZZ87421		2.56	16.10	0.12	2.7	0.037	1.64	29.5	29.1	1.10	292	4.01	1.39	12.5	45.0	840
ZZ87422		2.67	17.65	0.16	3.0	0.043	1.85	35.2	23.5	0.67	282	7.21	1.23	16.7	27.7	1020
ZZ87423		1.87	15.90	0.13	2.0	0.028	1.90	22.0	19.7	0.83	203	11.65	1.22	11.2	29.5	490
ZZ87424		2.53	15.70	0.13	1.8	0.036	1.53	27.6	24.9	1.18	264	5.18	1.36	13.6	36.3	880
ZZ87425		1.23	13.70	0.13	2.2	0.026	1.44	22.7	16.4	0.48	284	10.90	1.55	12.2	14.2	820
ZZ87426		2.47	18.80	0.13	2.3	0.042	1.96	26.4	23.1	1.17	251	2.88	1.54	15.5	41.1	1110
ZZ87427		1.68	18.30	0.11	2.4	0.018	0.73	9.0	62.5	2.55	225	2.04	2.11	8.0	25.4	440
ZZ87428		1.60	13.75	0.13	1.7	0.022	1.26	12.6	21.7	1.34	128	4.14	1.21	9.3	34.4	700
ZZ87429		1.45	11.05	0.15	2.3	0.026	1.27	24.0	15.8	0.47	332	2.27	1.22	5.8	21.9	1100
ZZ87430		2.08	15.35	0.18	2.9	0.046	1.65	49.3	21.0	0.73	317	4.44	1.27	10.3	44.3	1480
ZZ87431		0.61	15.25	0.13	2.7	0.031	1.24	24.5	13.7	0.27	63	1.97	1.16	14.4	9.8	190
ZZ87432		1.53	17.10	0.15	2.2	0.038	1.68	35.5	21.4	0.66	111	4.09	1.10	10.9	28.6	880
ZZ87433		2.34	13.35	0.17	2.6	0.035	1.60	32.8	22.9	0.74	745	4.83	0.99	8.5	36.7	1440
ZZ87434		1.75	15.25	0.13	3.0	0.018	1.90	24.3	16.4	0.52	512	1.92	2.34	4.6	11.8	1180
ZZ87435		2.18	18.35	0.15	3.3	0.037	1.91	28.7	60.6	0.50	626	3.20	2.18	6.2	16.6	1250
ZZ87436		2.84	17.25	0.18	3.0	0.054	2.23	44.5	24.9	0.70	355	5.78	1.07	10.5	43.5	1160
ZZ87437		3.21	20.1	0.15	2.6	0.048	2.51	29.1	40.0	1.14	263	10.30	0.82	10.1	41.7	1290
ZZ87438		2.87	17.50	0.14	2.0	0.035	1.22	30.2	21.7	1.73	297	6.63	2.28	8.6	28.0	1220
ZZ87439		1.82	14.35	0.14	2.3	0.024	1.65	28.3	18.5	0.84	205	13.30	1.08	10.5	40.4	1450



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ85147		7.5	35.8	0.009	0.04	0.22	8.3	2	2.1	147.5	0.92	<0.05	7.4	0.300	6.6
ZZ85148		8.9	46.0	0.008	0.08	0.24	9.1	3	2.1	147.5	0.86	<0.05	9.8	0.297	8.8
ZZ85149		9.1	47.1	0.017	0.09	0.33	9.4	6	2.2	147.0	1.02	<0.05	10.4	0.294	10.6
ZZ85464		10.9	66.8	<0.002	0.01	0.31	9.6	1	2.8	127.0	1.09	<0.05	10.7	0.333	5.5
ZZ85465		6.6	42.0	0.010	0.08	0.34	8.3	5	1.6	143.0	0.70	<0.05	8.2	0.235	9.4
ZZ85099		7.8	42.2	0.015	0.07	0.27	9.2	4	2.1	153.5	0.80	<0.05	8.3	0.303	8.6
ZZ87406		13.7	80.3	<0.002	<0.01	0.23	7.9	1	3.8	119.0	1.33	<0.05	9.2	0.339	2.2
ZZ87407		6.1	53.2	<0.002	<0.01	0.25	6.6	1	3.8	103.5	1.35	<0.05	6.9	0.248	2.0
ZZ87408		7.6	62.1	<0.002	<0.01	0.21	6.3	1	3.1	84.1	0.85	<0.05	6.0	0.240	1.9
ZZ87409		7.1	70.1	<0.002	0.01	0.29	6.2	1	2.8	226	0.83	<0.05	5.7	0.252	2.3
ZZ87410		5.7	55.7	0.002	<0.01	0.33	8.4	1	3.2	95.3	0.96	<0.05	6.8	0.294	2.6
ZZ87411		9.4	60.6	<0.002	<0.01	0.31	8.2	2	3.0	106.0	1.20	<0.05	7.0	0.318	2.3
ZZ87412		7.1	56.2	0.002	0.01	0.22	7.7	2	3.0	93.8	0.91	<0.05	7.5	0.278	4.3
ZZ87413		11.7	72.8	0.015	0.08	0.61	11.9	7	3.5	128.5	0.94	0.07	25.2	0.304	46.1
ZZ87414		6.1	61.3	0.002	0.01	0.29	9.0	2	2.2	92.8	0.83	<0.05	6.2	0.302	4.0
ZZ87415		6.8	91.0	0.002	0.01	0.33	15.2	3	3.3	83.2	0.85	0.05	12.8	0.305	10.3
ZZ87416		11.7	76.9	0.005	0.02	0.25	9.4	3	3.2	114.5	0.96	0.06	14.5	0.316	11.2
ZZ87417		7.0	81.7	<0.002	0.01	0.22	8.8	1	3.2	87.4	1.00	<0.05	7.1	0.302	3.8
ZZ87418		11.2	102.5	<0.002	0.01	0.23	8.8	1	3.4	106.0	1.23	<0.05	6.5	0.384	2.5
ZZ87419		11.8	62.7	<0.002	0.01	0.31	9.4	2	3.0	118.5	0.97	0.06	9.4	0.315	3.1
ZZ87420		6.7	53.6	<0.002	0.01	0.18	10.6	1	2.4	62.7	0.82	0.05	5.7	0.331	3.8
ZZ87421		13.9	83.3	<0.002	0.01	0.23	9.8	2	3.0	98.6	0.98	0.05	7.5	0.350	3.0
ZZ87422		18.2	83.5	<0.002	0.01	0.43	9.1	3	3.9	114.5	1.24	0.05	10.4	0.424	3.8
ZZ87423		11.6	79.3	<0.002	0.01	0.26	8.8	2	2.9	132.5	0.92	<0.05	6.8	0.349	3.0
ZZ87424		14.8	70.9	0.004	0.01	0.24	10.0	2	3.1	96.9	1.02	<0.05	8.0	0.368	3.4
ZZ87425		14.2	62.5	<0.002	0.03	0.27	7.2	2	3.0	126.0	1.07	<0.05	6.7	0.289	2.8
ZZ87426		16.4	87.2	<0.002	0.02	0.32	9.5	2	3.6	152.5	1.19	<0.05	8.5	0.369	2.7
ZZ87427		5.3	27.1	<0.002	0.01	0.14	8.4	1	0.7	156.0	0.60	<0.05	4.0	0.266	1.8
ZZ87428		7.1	62.1	0.002	0.01	0.18	8.2	1	1.9	56.2	0.67	<0.05	3.9	0.279	2.2
ZZ87429		7.4	45.8	0.003	0.11	0.31	4.8	3	1.7	231	0.45	<0.05	8.3	0.153	9.1
ZZ87430		9.1	73.2	0.008	0.07	0.59	8.3	6	3.6	144.0	0.81	<0.05	16.0	0.253	11.5
ZZ87431		5.4	50.7	<0.002	0.01	0.21	7.2	1	3.5	51.0	1.07	<0.05	6.7	0.348	2.8
ZZ87432		10.6	80.1	0.002	0.02	0.28	9.7	2	3.7	84.2	0.84	0.06	9.2	0.306	4.3
ZZ87433		15.0	73.3	0.003	0.03	0.40	9.7	3	1.8	95.0	0.65	<0.05	11.6	0.269	5.1
ZZ87434		8.0	40.7	0.006	0.08	0.39	4.0	4	0.6	500	0.37	<0.05	5.0	0.200	5.4
ZZ87435		10.3	57.8	0.007	0.08	0.33	8.7	5	1.0	361	0.48	<0.05	6.6	0.217	11.4
ZZ87436		29.7	95.1	0.002	0.03	0.46	10.5	4	2.2	164.5	0.80	0.09	11.1	0.306	7.7
ZZ87437		18.9	101.0	0.002	0.01	0.26	12.5	3	2.1	76.9	0.74	<0.05	9.5	0.295	4.8
ZZ87438		6.3	49.7	0.002	0.03	0.14	11.2	3	1.6	62.3	0.61	0.06	8.0	0.216	31.7
ZZ87439		9.5	74.9	0.003	0.01	0.32	9.7	3	1.7	89.7	0.81	<0.05	7.4	0.306	6.1



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ85147		86	0.8	20.7	220	42.6
ZZ85148		101	1.7	25.0	383	50.4
ZZ85149		105	0.9	26.8	422	50.5
ZZ85464		135	4.6	21.0	147	60.1
ZZ85465		96	0.7	33.3	317	41.9
ZZ85099		89	0.9	24.1	271	47.0
ZZ87406		88	2.1	14.7	39	107.0
ZZ87407		124	3.4	9.6	34	71.4
ZZ87408		111	1.2	10.5	26	63.4
ZZ87409		124	1.2	8.2	33	87.4
ZZ87410		232	2.1	15.1	52	76.6
ZZ87411		155	1.5	14.0	49	72.1
ZZ87412		196	1.4	17.7	45	71.0
ZZ87413		295	1.6	96.8	105	115.0
ZZ87414		327	1.4	16.6	57	66.4
ZZ87415		435	2.3	34.9	98	104.5
ZZ87416		195	1.9	31.2	56	79.0
ZZ87417		240	2.9	14.2	36	81.7
ZZ87418		201	2.1	11.3	32	74.5
ZZ87419		166	2.2	22.0	66	69.7
ZZ87420		302	1.7	11.7	77	73.0
ZZ87421		205	1.8	16.5	99	71.7
ZZ87422		161	3.8	15.7	75	71.3
ZZ87423		207	2.5	11.1	70	71.4
ZZ87424		168	2.2	15.1	93	63.5
ZZ87425		94	1.9	8.9	32	75.7
ZZ87426		128	2.3	12.3	73	83.8
ZZ87427		72	0.5	6.8	82	82.5
ZZ87428		210	1.6	9.3	82	62.5
ZZ87429		93	0.9	13.3	70	79.0
ZZ87430		178	1.4	26.3	112	97.2
ZZ87431		242	2.7	6.4	32	90.7
ZZ87432		369	2.6	13.8	80	77.8
ZZ87433		188	1.5	15.0	224	88.3
ZZ87434		42	0.6	9.6	102	110.5
ZZ87435		85	0.8	13.3	71	112.5
ZZ87436		200	3.2	15.4	381	197.0
ZZ87437		238	2.5	13.2	261	91.2
ZZ87438		123	2.1	11.6	133	69.1
ZZ87439		293	2.1	14.4	76	84.1



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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
ZZ87440		0.18	0.001	0.06	8.98	1.7	4480	3.30	0.22	0.09	0.03	49.6	1.1	116	4.27	8.1
ZZ87441		0.15	0.002	0.05	6.68	0.8	2900	2.81	0.95	0.12	0.32	49.9	5.5	86	3.53	18.3
ZZ87442		0.23	0.001	0.02	5.42	6.4	1920	2.45	0.22	1.25	0.09	62.9	6.9	108	3.97	29.9
ZZ87443		0.21	0.001	0.06	4.82	5.5	1150	2.00	0.31	1.01	0.13	62.6	5.0	123	5.99	13.3
ZZ87444		0.12	0.001	0.63	6.15	84.9	1490	2.56	0.36	1.77	1.48	172.0	22.4	88	24.9	186.0
ZZ87445		0.23	0.004	0.24	6.12	7.4	2100	2.61	0.30	1.36	0.14	85.4	8.3	89	6.67	39.4
ZZ87446		0.19	0.003	0.42	6.08	3.2	1200	1.80	0.18	2.10	0.14	102.0	6.3	35	2.87	32.8
ZZ87447		0.20	0.005	0.30	5.20	6.4	1350	5.06	0.29	1.41	0.17	107.5	5.2	105	5.59	59.4
ZZ87448		0.19	0.002	0.09	5.49	4.1	1120	2.24	0.25	1.32	0.11	60.9	6.2	77	4.69	11.4
ZZ87449		0.21	0.002	0.11	5.21	6.1	1110	2.36	0.36	1.46	0.14	100.5	7.1	93	4.42	20.5
ZZ87450		0.23	0.002	0.12	5.91	4.0	1080	2.81	0.28	1.26	0.15	101.0	5.2	81	5.41	16.4
ZZ87451		0.19	<0.001	0.02	4.99	3.6	900	1.87	0.22	0.85	0.14	48.2	3.0	65	3.95	4.9
ZZ87452		0.17	0.001	0.04	5.03	5.5	840	1.83	0.30	0.75	0.12	47.3	3.5	74	3.14	6.2
ZZ87453		0.15	0.002	0.03	4.84	4.4	820	1.70	0.25	0.78	0.11	50.7	3.7	75	3.12	5.3
ZZ87454		0.17	0.001	0.06	5.64	7.6	860	2.19	0.38	0.96	0.19	48.4	7.7	94	3.83	12.3
ZZ87455		0.13	0.001	0.08	4.96	4.1	760	1.70	0.32	0.89	0.18	63.1	8.5	218	3.28	6.5
ZZ87456		0.14	0.001	0.03	4.93	3.1	820	1.77	0.30	0.85	0.10	56.8	3.2	73	4.22	4.8
ZZ87457		0.21	0.001	0.07	5.24	6.0	830	2.03	0.29	0.78	0.13	55.5	4.5	92	3.54	7.1
ZZ87458		0.20	0.001	0.04	5.58	3.8	900	2.40	0.28	0.90	0.13	69.2	5.3	85	3.20	8.2
ZZ87459		0.21	0.004	0.08	5.78	5.9	1110	2.45	0.28	0.93	0.12	110.5	7.3	78	4.33	20.3
ZZ87460		0.19	0.002	0.42	5.79	4.3	930	1.79	0.37	1.96	0.20	148.0	10.8	46	3.76	28.8
ZZ87461		0.18	0.003	0.23	6.40	4.0	940	1.94	0.55	1.07	0.18	49.4	6.4	110	5.27	13.7
ZZ87462		0.22	0.007	0.17	5.67	4.8	920	2.16	0.62	0.89	0.18	54.1	6.7	101	5.62	10.8
ZZ87463		0.20	0.002	0.04	5.61	6.2	770	2.82	0.46	1.15	0.22	59.0	7.5	147	4.66	9.7
ZZ87464		0.25	0.001	0.02	5.13	2.9	1070	1.96	0.26	1.65	0.13	65.7	5.9	113	2.78	9.3
ZZ87465		0.19	0.002	0.04	5.69	4.2	930	2.70	0.47	1.07	0.14	67.0	6.1	125	5.33	7.9
ZZ87466		0.21	0.001	0.04	4.37	3.5	790	1.77	0.25	1.34	0.09	53.3	5.1	91	2.46	8.7
ZZ87467		0.16	0.003	0.23	6.21	5.9	1300	2.24	0.35	2.14	1.24	95.6	16.6	138	8.95	25.3
ZZ87468		0.14	0.002	0.12	6.04	11.8	1030	2.59	0.73	1.01	0.21	77.2	7.9	138	7.02	24.0
ZZ87469		0.22	0.003	0.06	5.68	6.5	820	2.50	0.66	1.27	0.17	73.9	6.6	140	8.28	14.9
ZZ87470		0.16	0.001	0.05	5.89	3.4	900	2.91	0.19	0.45	0.15	71.4	2.8	59	4.07	5.7
ZZ87471		0.21	0.001	0.05	5.37	2.6	880	2.25	0.34	0.91	0.12	64.3	3.7	73	4.51	5.5
ZZ87472		0.13	0.002	0.22	5.97	2.5	1330	2.60	0.43	0.93	1.04	89.8	5.1	82	10.25	25.4
ZZ87473		0.15	0.004	0.73	6.66	8.4	1000	3.93	0.69	1.72	0.09	119.0	7.8	55	9.25	63.8
ZZ87474		0.18	0.001	0.02	5.62	3.7	800	2.17	0.29	0.78	0.07	68.1	3.4	70	3.98	5.5
ZZ87475		0.22	0.001	0.02	5.14	4.8	770	1.97	0.29	0.85	0.09	58.0	3.9	71	4.24	4.7
ZZ87476		0.18	0.001	0.10	6.67	2.1	890	1.37	0.16	1.50	0.07	38.5	3.6	14	1.70	15.7
ZZ87477		0.23	0.001	0.13	6.01	3.2	880	1.85	0.38	1.37	0.05	60.3	4.6	48	3.96	8.8
ZZ87478		0.16	0.001	0.01	5.44	2.3	920	2.07	0.24	0.85	0.04	56.5	2.8	62	4.71	3.8
ZZ87479		0.25	0.001	0.02	5.08	2.8	850	2.05	0.19	1.10	0.06	53.9	4.7	62	3.12	6.8



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	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	
ZZ87440		2.30	26.0	0.16	4.1	0.053	4.07	24.8	15.1	0.59	55	9.55	0.36	10.6	9.3	540
ZZ87441		5.00	18.05	0.19	3.2	0.054	2.91	16.7	15.4	0.43	1100	42.7	0.25	12.5	41.8	970
ZZ87442		1.88	16.85	0.19	2.2	0.034	1.50	36.1	21.3	1.57	221	4.83	1.43	14.4	58.7	2260
ZZ87443		1.95	15.05	0.19	1.7	0.035	1.41	31.7	18.8	1.02	244	4.99	1.31	13.8	40.9	1210
ZZ87444		3.77	16.55	0.53	2.3	0.045	1.20	134.0	40.6	1.03	1960	85.2	0.70	6.3	298	2240
ZZ87445		2.99	16.75	0.23	2.3	0.046	1.78	45.0	28.2	1.39	325	38.2	1.15	12.3	50.1	3500
ZZ87446		1.70	15.70	0.33	2.9	0.026	1.60	62.5	20.7	0.69	1180	22.9	1.84	6.6	32.6	2770
ZZ87447		2.38	14.15	0.33	1.9	0.047	1.28	71.6	22.8	1.06	239	27.7	1.21	11.9	52.7	2580
ZZ87448		1.88	16.15	0.24	2.6	0.049	1.50	31.9	21.7	0.88	328	13.15	1.51	13.2	34.3	1400
ZZ87449		2.18	15.00	0.31	2.7	0.047	1.37	75.3	22.0	0.88	344	12.30	1.40	12.9	39.1	1810
ZZ87450		1.92	18.10	0.29	3.4	0.065	1.56	66.3	20.5	0.89	226	6.05	1.64	13.5	30.5	1760
ZZ87451		1.44	15.65	0.19	2.4	0.050	1.32	24.0	19.8	0.65	148	2.39	1.46	14.2	19.6	1070
ZZ87452		1.95	16.30	0.20	2.5	0.043	1.24	24.5	16.9	0.64	160	2.59	1.69	13.5	21.3	820
ZZ87453		1.94	15.25	0.19	2.4	0.047	1.24	25.1	15.7	0.66	177	1.85	1.56	14.5	21.3	1130
ZZ87454		2.60	14.85	0.17	1.9	0.054	1.16	23.7	28.8	0.94	274	2.51	1.51	13.0	43.5	1490
ZZ87455		2.32	15.10	0.20	2.0	0.043	1.36	30.4	17.1	1.33	370	2.19	1.44	15.2	80.8	480
ZZ87456		1.46	15.05	0.20	2.2	0.046	1.47	27.5	14.8	0.56	184	1.53	1.55	15.1	17.0	580
ZZ87457		2.24	15.45	0.20	2.5	0.054	1.34	27.5	18.7	0.71	189	1.99	1.58	14.0	29.1	1070
ZZ87458		1.89	15.55	0.18	2.5	0.055	1.61	32.3	20.7	0.82	233	1.41	1.68	14.7	32.9	970
ZZ87459		2.09	16.80	0.26	2.8	0.053	1.63	54.2	23.2	0.90	382	2.86	1.58	14.3	36.5	1350
ZZ87460		2.21	15.50	0.34	2.8	0.036	1.45	66.1	29.3	0.59	668	9.03	1.51	6.8	37.0	2300
ZZ87461		2.42	18.55	0.20	2.8	0.044	1.78	24.2	18.0	1.10	350	2.02	2.13	17.8	42.3	770
ZZ87462		2.85	16.90	0.18	2.2	0.060	1.59	26.3	26.4	0.99	321	2.35	1.38	16.4	36.6	1380
ZZ87463		2.76	15.35	0.21	2.0	0.048	1.87	28.1	25.7	0.88	419	1.32	1.58	17.2	44.6	680
ZZ87464		1.92	14.15	0.19	2.2	0.055	1.40	32.5	18.8	1.12	238	1.31	1.53	18.0	39.3	2180
ZZ87465		2.15	16.55	0.22	1.9	0.049	1.87	32.0	23.6	1.07	314	2.08	1.63	17.1	43.2	630
ZZ87466		1.71	11.80	0.18	1.6	0.039	1.21	26.6	14.7	0.84	250	1.94	1.40	12.7	30.2	1980
ZZ87467		3.23	15.75	0.27	1.9	0.065	1.30	49.2	57.9	1.63	524	10.80	1.21	14.7	104.5	2640
ZZ87468		2.85	18.85	0.21	2.9	0.061	1.71	42.0	23.9	1.11	374	3.75	1.62	20.9	61.4	830
ZZ87469		2.72	16.85	0.21	2.4	0.056	1.66	35.4	27.4	0.82	413	2.48	1.51	17.9	37.3	950
ZZ87470		1.45	20.5	0.25	3.3	0.055	1.74	33.9	21.7	0.56	124	1.29	1.95	16.9	23.8	440
ZZ87471		1.67	16.70	0.20	2.1	0.049	1.60	31.3	20.1	0.62	238	1.81	1.55	16.9	20.5	450
ZZ87472		1.91	18.55	0.27	2.5	0.055	1.79	50.4	18.8	0.65	392	1.92	1.35	15.8	22.6	1850
ZZ87473		2.82	18.65	0.62	3.5	0.055	1.53	119.5	27.7	0.64	454	3.90	1.55	7.2	46.5	1640
ZZ87474		1.64	18.40	0.22	2.7	0.048	1.51	31.6	15.9	0.64	171	1.56	2.02	16.4	21.3	1030
ZZ87475		2.21	16.55	0.20	2.2	0.044	1.39	26.8	17.7	0.69	203	1.85	1.71	15.7	22.6	1270
ZZ87476		1.39	16.85	0.20	3.3	0.021	2.11	19.5	19.0	0.43	322	1.64	2.62	7.0	5.0	750
ZZ87477		1.68	18.50	0.18	2.5	0.044	1.48	32.1	21.9	0.60	241	1.57	1.86	12.7	15.4	540
ZZ87478		1.33	17.80	0.19	2.5	0.055	1.50	27.8	15.5	0.57	162	1.58	2.03	15.7	17.2	660
ZZ87479		1.58	14.75	0.18	2.1	0.046	1.30	26.8	19.1	0.66	227	1.54	1.72	13.7	23.7	1180



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ87440		11.1	180.5	0.003	0.03	0.18	17.1	4	2.0	79.1	0.78	0.10	15.8	0.318	5.4
ZZ87441		11.1	145.0	0.004	0.01	0.13	13.5	2	5.7	71.8	0.95	0.09	12.8	0.370	4.7
ZZ87442		9.6	69.2	<0.002	<0.01	0.32	10.7	2	2.4	103.5	1.02	0.05	7.6	0.325	4.4
ZZ87443		12.5	87.7	0.002	0.01	0.34	8.1	1	3.0	101.0	1.09	<0.05	10.4	0.340	3.2
ZZ87444		14.3	76.6	0.046	0.14	1.03	13.6	12	1.3	186.0	0.45	0.10	25.8	0.178	153.0
ZZ87445		11.0	77.2	0.011	0.06	0.31	10.2	3	2.3	145.5	0.98	0.05	17.4	0.301	35.8
ZZ87446		8.0	49.3	0.028	0.17	0.46	5.8	7	1.3	378	0.53	<0.05	11.8	0.194	79.6
ZZ87447		12.6	62.2	0.011	0.13	0.44	10.2	8	2.9	124.0	0.91	<0.05	20.2	0.279	173.5
ZZ87448		10.5	71.3	0.007	0.05	0.33	8.1	2	4.2	146.5	1.21	<0.05	12.5	0.282	12.7
ZZ87449		11.2	64.3	0.006	0.04	0.41	8.8	4	3.7	119.5	1.04	<0.05	20.9	0.290	14.8
ZZ87450		9.2	72.7	0.005	0.03	0.30	8.7	2	5.4	113.0	1.09	<0.05	21.1	0.273	13.5
ZZ87451		8.0	62.1	<0.002	0.01	0.29	7.0	1	4.1	88.5	1.10	<0.05	8.0	0.292	2.6
ZZ87452		8.4	60.2	<0.002	0.01	0.33	7.0	1	4.8	81.6	1.04	<0.05	8.8	0.285	2.6
ZZ87453		9.1	60.2	0.003	0.01	0.31	7.3	<1	4.4	78.6	1.12	<0.05	9.0	0.300	2.6
ZZ87454		14.4	53.6	0.002	0.01	0.38	7.9	1	3.6	94.4	0.99	<0.05	9.2	0.272	2.4
ZZ87455		13.7	60.4	0.002	0.01	0.35	7.7	<1	3.9	114.5	1.27	<0.05	9.5	0.366	2.5
ZZ87456		12.1	73.8	0.003	0.01	0.29	7.0	1	4.2	111.0	1.18	<0.05	9.2	0.326	2.2
ZZ87457		9.9	64.8	<0.002	0.01	0.33	7.1	1	4.5	87.9	1.19	<0.05	9.9	0.275	2.5
ZZ87458		9.6	71.1	0.002	<0.01	0.32	7.3	1	4.8	100.5	1.17	<0.05	12.5	0.276	2.8
ZZ87459		9.9	73.2	<0.002	0.01	0.50	9.0	2	4.5	116.5	1.12	<0.05	15.4	0.295	9.4
ZZ87460		11.2	47.9	0.027	0.15	0.66	6.9	5	1.8	315	0.52	<0.05	16.4	0.190	22.8
ZZ87461		15.2	78.3	0.002	0.02	0.36	9.1	1	4.0	195.5	1.67	<0.05	8.4	0.380	2.9
ZZ87462		18.2	77.6	<0.002	0.03	0.29	8.9	<1	3.9	107.5	1.17	<0.05	10.4	0.339	2.7
ZZ87463		20.5	86.3	0.002	0.01	0.41	8.8	1	4.3	142.0	1.60	<0.05	10.2	0.397	2.2
ZZ87464		9.1	57.4	<0.002	<0.01	0.35	9.3	1	3.7	123.0	1.36	<0.05	9.0	0.382	2.6
ZZ87465		17.7	93.5	<0.002	0.01	0.33	8.8	1	5.1	147.5	1.28	<0.05	10.2	0.375	2.4
ZZ87466		10.1	52.6	0.002	<0.01	0.38	7.2	1	2.8	111.0	0.96	<0.05	7.8	0.292	2.3
ZZ87467		12.4	62.6	0.022	0.24	0.35	11.6	6	3.0	162.5	1.10	<0.05	14.6	0.349	19.0
ZZ87468		17.6	83.9	<0.002	0.01	0.48	9.0	2	5.7	110.5	1.58	0.07	16.5	0.334	4.9
ZZ87469		18.4	106.0	<0.002	0.01	0.37	8.9	1	4.8	136.5	1.62	<0.05	13.1	0.368	2.9
ZZ87470		5.7	111.0	<0.002	<0.01	0.35	6.7	1	8.6	73.7	1.35	<0.05	13.1	0.225	3.0
ZZ87471		15.3	78.4	0.002	0.01	0.29	7.5	1	4.9	117.5	1.40	<0.05	10.0	0.338	2.3
ZZ87472		11.9	126.5	<0.002	0.04	0.37	10.6	1	4.9	120.5	1.29	<0.05	23.4	0.334	5.8
ZZ87473		14.2	58.2	0.002	0.10	0.80	10.6	6	2.9	317	0.56	<0.05	47.9	0.187	40.2
ZZ87474		9.0	80.5	0.002	0.01	0.29	7.2	1	6.7	80.6	1.64	<0.05	11.9	0.282	2.6
ZZ87475		11.2	79.7	<0.002	0.01	0.29	7.2	1	5.7	84.5	1.29	<0.05	9.8	0.305	2.3
ZZ87476		9.3	53.8	0.002	0.01	0.41	3.8	<1	1.6	471	0.55	<0.05	7.2	0.192	2.3
ZZ87477		12.1	61.9	0.002	0.02	0.33	7.6	1	5.3	238	0.96	<0.05	9.7	0.292	2.4
ZZ87478		6.3	87.7	0.003	0.01	0.37	7.2	1	6.8	78.5	1.12	<0.05	11.4	0.292	2.5
ZZ87479		8.7	61.2	0.003	0.01	0.31	7.1	1	4.6	105.0	0.93	<0.05	10.2	0.272	2.9



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ87440		389	2.0	8.2	64	146.5
ZZ87441		302	3.2	10.0	40	119.0
ZZ87442		446	2.2	23.1	62	84.5
ZZ87443		234	1.7	16.9	46	62.8
ZZ87444		251	1.2	119.0	272	87.6
ZZ87445		236	2.0	30.6	97	79.2
ZZ87446		110	0.8	43.9	52	103.5
ZZ87447		159	1.3	68.3	73	68.5
ZZ87448		150	2.1	17.4	46	83.0
ZZ87449		174	2.0	43.4	55	95.9
ZZ87450		166	1.5	31.2	50	108.0
ZZ87451		187	1.6	12.8	32	81.1
ZZ87452		176	1.4	11.0	34	81.1
ZZ87453		171	1.6	10.6	34	74.3
ZZ87454		175	1.5	11.6	62	65.4
ZZ87455		119	2.0	12.4	43	71.7
ZZ87456		113	1.6	11.5	34	74.1
ZZ87457		157	1.6	11.9	42	83.4
ZZ87458		137	1.6	13.3	44	85.6
ZZ87459		154	1.6	24.9	70	93.1
ZZ87460		90	1.0	29.2	78	97.5
ZZ87461		93	1.7	12.2	58	89.3
ZZ87462		106	2.5	13.2	79	63.2
ZZ87463		83	2.2	15.6	60	63.4
ZZ87464		169	1.6	17.1	61	73.0
ZZ87465		87	4.6	15.4	53	70.7
ZZ87466		144	11.7	13.9	48	53.3
ZZ87467		152	1.5	31.7	426	60.9
ZZ87468		146	2.1	22.2	74	97.6
ZZ87469		106	1.7	18.2	68	78.6
ZZ87470		159	1.7	11.2	29	107.5
ZZ87471		124	2.0	12.7	35	71.6
ZZ87472		126	1.7	25.4	63	79.8
ZZ87473		115	1.1	145.5	82	122.0
ZZ87474		147	1.9	12.0	36	86.9
ZZ87475		140	1.6	11.8	37	73.3
ZZ87476		46	0.7	7.1	44	122.5
ZZ87477		107	1.5	10.8	37	88.5
ZZ87478		147	1.7	10.2	30	82.8
ZZ87479		130	1.6	12.2	38	74.0



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C/O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016 - 510 W HASTINGS ST
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Page: 4 - A
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Account: MTT

Project: OFF

CERTIFICATE OF ANALYSIS WH13157939

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
ZZ87480		0.18	0.001	0.07	5.17	5.0	930	2.26	0.22	0.86	0.15	60.6	5.9	79	4.14	8.1
ZZ87481		0.15	0.001	0.07	5.29	6.5	1110	2.05	0.25	1.76	0.14	77.8	11.6	148	5.46	15.8
ZZ87482		0.17	0.002	0.03	5.67	3.5	1060	2.41	0.15	1.26	0.10	89.2	7.9	90	3.45	12.4
ZZ87483		0.20	0.003	0.07	5.69	7.0	1410	2.21	0.21	1.23	0.18	71.7	12.0	120	4.31	18.6
ZZ87484		0.20	0.001	0.04	5.22	4.5	1090	2.09	0.17	0.88	0.14	55.0	6.8	70	4.39	10.0
ZZ87485		0.21	0.002	0.04	5.12	5.4	1350	2.09	0.16	1.27	0.10	45.7	7.6	100	3.42	11.9
ZZ87486		0.24	0.001	0.05	5.86	10.6	1490	2.27	0.22	1.50	0.12	50.2	12.0	150	5.03	17.7
ZZ87487		0.20	0.002	0.09	6.45	9.9	1580	2.27	0.24	3.41	0.16	82.3	21.0	235	6.20	22.9
ZZ87488		0.17	0.001	0.12	6.28	4.1	1100	1.70	0.19	2.23	0.19	52.3	8.8	113	3.83	17.4
ZZ87489		0.14	0.001	0.09	6.88	3.0	1040	1.40	0.12	3.04	0.08	43.9	9.1	86	2.23	14.6
ZZ87490		0.15	<0.001	0.10	6.76	1.8	860	1.37	0.14	1.70	0.12	35.2	4.5	5	1.28	16.7
ZZ87491		0.18	0.001	0.02	4.32	2.9	650	1.90	0.13	1.91	0.07	53.6	4.1	63	2.14	6.8
ZZ87492		0.13	0.001	0.04	5.10	3.0	840	2.08	0.31	0.85	0.13	63.6	4.1	68	4.83	7.9
ZZ87493		0.13	0.003	0.03	3.66	4.4	470	1.26	0.16	1.82	0.21	43.0	3.8	61	2.23	8.0
ZZ87494		0.17	0.002	0.14	5.91	5.5	990	2.57	0.35	1.40	0.18	65.6	6.7	93	7.05	18.8
ZZ87495		0.13	0.001	0.06	4.87	3.1	830	1.98	0.23	0.83	0.03	53.7	3.0	69	3.35	8.6
ZZ87496		0.22	0.001	0.05	5.45	3.7	950	2.39	0.38	0.75	0.11	63.0	3.8	80	4.58	7.1
ZZ87497		0.19	0.002	0.10	5.31	2.1	1130	2.19	0.28	0.80	0.04	46.0	2.5	72	3.74	9.2
ZZ87498		0.28	0.001	0.11	5.50	4.3	900	2.40	0.40	0.93	0.07	59.1	4.9	65	5.33	13.2
ZZ87499		0.19	<0.001	0.49	6.78	4.2	840	1.87	0.43	1.51	0.06	88.7	7.7	32	8.58	31.2
ZZ87500		0.24	0.002	0.12	6.19	11.5	1340	2.72	0.58	3.03	0.29	97.3	27.0	320	8.76	49.3
ZZ71301		0.21	0.005	1.17	5.55	1.8	1130	1.60	0.11	1.75	1.17	90.3	4.5	17	2.63	45.8
ZZ71302		0.17	0.001	0.29	5.71	2.8	880	2.07	0.24	1.23	0.35	70.0	5.8	52	6.67	20.9
ZZ71303		0.13	0.001	0.31	5.89	1.0	1010	1.57	0.14	1.03	3.04	43.7	2.6	32	4.14	31.9
ZZ71304		0.21	0.002	0.43	5.42	1.1	990	1.59	0.17	1.45	8.30	91.3	4.4	20	4.11	82.7
ZZ71305		0.19	0.004	0.66	5.71	16.6	1200	2.86	0.34	1.19	4.52	112.5	47.8	78	15.45	132.0
ZZ71306		0.39	0.001	0.08	5.38	3.0	990	2.35	0.21	0.90	0.37	49.1	5.1	60	5.35	11.2
ZZ71307		0.11	0.003	0.16	1.02	1.1	550	0.45	0.07	3.52	8.79	40.1	1.0	7	0.80	37.5
ZZ71308		0.25	0.003	0.59	6.03	11.1	1470	2.85	0.34	1.31	6.41	121.0	19.4	81	13.40	168.5
ZZ71309		0.25	0.001	0.30	6.23	5.3	1300	2.75	0.32	1.24	0.24	83.6	12.2	75	7.37	32.7
ZZ71310		0.24	0.001	0.29	5.69	4.6	1120	2.30	0.34	1.33	0.35	82.8	10.6	61	5.67	41.6
ZZ71311		0.18	<0.001	0.02	5.52	1.9	880	2.45	0.16	0.73	0.09	54.4	3.7	67	3.58	3.3
ZZ71312		0.18	0.004	0.20	6.21	5.4	1310	2.55	0.36	1.63	0.31	63.0	7.3	77	6.34	30.1
ZZ71313		0.28	0.001	0.15	5.62	3.5	880	2.55	0.32	1.35	0.49	67.5	6.2	79	4.46	15.1
ZZ71351		0.12	0.004	0.74	4.89	4.9	1310	1.82	0.45	2.40	8.92	104.0	7.1	47	20.9	142.5
ZZ71352		0.14	0.001	1.44	4.10	8.8	670	1.14	0.23	2.00	2.48	66.8	5.6	15	4.48	107.0
ZZ71353		0.21	0.001	1.52	6.65	8.4	1180	1.71	0.58	1.29	0.59	56.6	4.5	48	8.37	52.2
ZZ71354		0.25	0.001	0.35	6.17	10.0	2130	2.37	0.52	1.08	0.79	64.5	5.9	93	12.25	33.3
ZZ71355		0.15	<0.001	0.37	6.30	3.7	1290	1.54	0.39	1.23	1.06	48.5	4.0	46	14.80	34.8
ZZ71356		0.24	0.003	0.45	6.80	34.5	1900	2.48	0.56	1.18	0.89	79.1	11.8	91	25.2	96.8



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Project: OFF

CERTIFICATE OF ANALYSIS WH13157939

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	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	
ZZ87480		2.06	17.60	0.21	2.7	0.055	1.34	30.2	22.2	0.81	193	2.61	1.64	15.4	31.5	1210
ZZ87481		3.53	16.90	0.20	2.0	0.085	1.32	41.0	19.4	1.38	285	2.84	1.36	20.4	68.6	1140
ZZ87482		2.11	16.30	0.19	2.9	0.058	1.41	47.8	17.6	0.99	275	2.26	1.76	17.3	38.1	2000
ZZ87483		2.91	15.40	0.19	1.8	0.047	1.34	38.3	25.6	1.67	334	4.33	1.17	14.2	72.9	1290
ZZ87484		2.14	14.85	0.14	2.1	0.047	1.24	29.8	20.2	1.03	198	2.91	1.44	13.5	35.2	1410
ZZ87485		2.25	15.00	0.17	1.9	0.047	1.27	23.7	18.9	1.43	229	2.89	1.23	12.9	56.0	1520
ZZ87486		3.30	17.20	0.16	2.3	0.056	1.42	26.9	26.9	1.61	313	4.97	1.24	15.9	87.7	1440
ZZ87487		4.64	17.00	0.19	2.2	0.089	1.30	38.6	27.6	2.20	588	2.35	1.15	21.6	180.5	1330
ZZ87488		2.71	16.35	0.16	2.7	0.046	1.59	27.2	21.2	1.19	354	1.88	1.77	12.6	62.8	1350
ZZ87489		2.61	17.60	0.16	2.9	0.045	1.81	23.2	18.2	1.17	455	1.80	2.34	11.0	46.2	1130
ZZ87490		1.58	17.65	0.17	3.4	0.018	2.18	17.4	18.6	0.46	366	1.67	2.70	5.7	3.7	540
ZZ87491		1.38	12.65	0.16	1.8	0.035	1.01	26.7	14.5	0.97	183	1.89	1.70	7.8	32.6	5080
ZZ87492		1.68	16.10	0.20	2.1	0.047	1.69	31.3	18.8	0.58	236	2.07	1.44	16.9	20.6	1140
ZZ87493		1.54	11.55	0.18	1.5	0.033	0.66	20.8	11.8	1.01	172	2.04	1.37	4.0	34.7	6250
ZZ87494		2.20	17.75	0.22	2.4	0.051	1.72	40.2	26.6	0.86	480	6.54	1.61	14.4	41.3	2490
ZZ87495		1.45	15.00	0.18	2.3	0.041	1.26	26.6	17.2	0.71	139	2.11	1.57	14.8	21.1	1340
ZZ87496		1.80	18.35	0.19	2.4	0.053	1.64	31.6	21.0	0.70	184	3.13	1.49	19.5	24.0	760
ZZ87497		1.22	17.80	0.18	2.6	0.041	1.68	22.6	15.7	0.58	128	5.71	1.46	16.6	20.7	1030
ZZ87498		1.79	18.55	0.21	2.7	0.055	1.36	29.6	26.2	0.80	216	5.02	1.55	15.3	35.4	1050
ZZ87499		2.23	19.40	0.32	3.5	0.047	1.61	68.2	30.3	0.53	450	7.79	1.73	6.0	27.2	2040
ZZ87500		3.94	17.90	0.31	2.3	0.097	1.27	100.5	22.2	2.29	385	4.01	1.28	28.9	108.5	3020
ZZ71301		1.60	15.05	0.26	2.8	0.026	1.71	62.7	17.7	0.77	271	4.14	1.94	5.4	28.6	1160
ZZ71302		1.94	15.80	0.21	2.3	0.036	1.86	37.9	22.7	0.68	305	3.32	1.86	12.0	24.8	600
ZZ71303		1.04	16.55	0.19	2.7	0.020	1.73	29.2	15.9	0.34	234	5.22	2.14	6.1	10.1	690
ZZ71304		1.53	14.40	0.29	2.7	0.027	1.63	75.7	15.0	0.35	247	5.23	1.91	5.6	50.0	1090
ZZ71305		5.36	15.60	0.41	2.0	0.050	1.33	103.0	47.2	1.34	1520	49.9	1.08	10.4	188.5	2420
ZZ71306		1.51	16.05	0.15	2.5	0.041	1.43	26.0	21.2	1.00	202	4.88	1.69	12.2	29.5	970
ZZ71307		0.47	2.69	0.17	0.6	0.009	0.33	30.0	2.3	0.13	56	6.61	0.25	1.1	41.4	730
ZZ71308		4.11	16.35	0.46	2.4	0.047	1.58	114.0	46.6	1.44	282	40.5	1.06	10.3	211	2560
ZZ71309		2.19	19.50	0.24	2.9	0.053	1.78	47.6	36.3	1.03	503	8.58	1.56	13.6	57.7	1240
ZZ71310		2.01	16.80	0.26	3.0	0.040	1.62	58.2	22.9	0.72	519	8.46	1.67	10.5	47.2	1310
ZZ71311		1.28	17.20	0.20	2.6	0.049	1.70	27.5	20.3	0.73	169	2.10	1.94	14.5	22.3	760
ZZ71312		2.21	18.50	0.22	2.9	0.043	1.80	42.5	27.8	1.07	362	5.67	1.60	11.6	55.2	1300
ZZ71313		1.77	16.80	0.18	3.1	0.059	1.68	35.1	23.6	0.73	541	4.61	1.57	12.4	36.7	1040
ZZ71351		1.38	12.40	0.32	1.9	0.043	1.46	70.6	40.7	0.56	164	4.28	0.66	4.9	103.5	1630
ZZ71352		1.63	9.92	0.26	2.1	0.025	1.09	42.2	13.1	0.32	453	5.04	1.23	3.6	74.6	2070
ZZ71353		2.10	18.10	0.19	3.0	0.034	2.20	31.1	23.7	0.54	303	9.15	1.93	10.6	15.4	890
ZZ71354		2.09	19.05	0.21	2.4	0.040	1.99	36.3	33.5	0.76	254	10.50	1.43	13.6	58.6	1140
ZZ71355		1.60	17.00	0.18	2.8	0.025	1.98	26.9	20.8	0.49	296	7.97	1.98	10.1	24.1	420
ZZ71356		3.13	18.85	0.23	2.3	0.051	1.79	44.6	39.5	1.61	475	24.8	1.28	8.5	148.5	1520



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ87480		8.7	73.0	0.003	0.01	0.47	8.3	1	5.9	79.6	1.08	<0.05	10.1	0.293	2.7
ZZ87481		10.2	76.2	<0.002	0.01	0.63	12.1	2	4.7	116.0	1.28	<0.05	9.0	0.465	2.6
ZZ87482		7.2	59.8	<0.002	0.01	0.42	9.1	1	5.0	95.9	1.20	<0.05	12.7	0.380	3.2
ZZ87483		11.1	63.6	0.002	0.01	0.62	10.7	1	2.4	94.5	0.93	<0.05	10.9	0.379	3.3
ZZ87484		7.3	57.2	0.003	0.01	0.37	8.3	1	4.0	82.4	0.90	<0.05	8.8	0.317	2.6
ZZ87485		7.5	61.5	0.003	0.01	0.42	9.8	1	2.9	99.3	0.85	<0.05	7.0	0.304	2.7
ZZ87486		11.7	74.1	0.003	0.01	0.61	11.4	1	3.7	118.0	1.03	<0.05	8.0	0.385	3.1
ZZ87487		14.4	66.0	0.004	0.02	1.08	16.4	1	4.3	195.0	1.31	<0.05	9.8	0.543	2.9
ZZ87488		10.2	58.5	0.005	0.06	0.56	9.5	1	2.4	338	0.83	<0.05	7.0	0.347	2.3
ZZ87489		9.3	48.7	0.005	0.03	0.54	8.4	1	1.8	549	0.69	<0.05	5.4	0.330	2.2
ZZ87490		9.3	49.2	<0.002	0.02	0.46	3.4	1	0.8	538	0.40	<0.05	4.9	0.191	2.1
ZZ87491		6.9	45.0	0.003	0.01	0.27	6.4	1	2.6	96.0	0.54	<0.05	8.1	0.252	3.3
ZZ87492		14.0	85.8	0.002	0.02	0.47	7.8	1	4.2	126.5	1.39	<0.05	9.3	0.356	2.4
ZZ87493		8.9	43.1	0.003	0.01	0.42	5.8	1	0.7	85.1	0.29	<0.05	6.0	0.243	4.5
ZZ87494		14.2	89.4	0.003	0.02	0.62	8.0	1	4.2	159.0	1.03	<0.05	12.0	0.303	6.6
ZZ87495		8.7	59.5	0.002	0.01	0.22	6.6	1	4.3	71.7	1.07	<0.05	9.3	0.267	2.6
ZZ87496		14.4	80.2	0.002	0.01	0.32	8.0	1	5.1	91.4	1.47	<0.05	11.1	0.350	2.8
ZZ87497		8.2	69.5	0.002	0.01	0.28	8.3	1	4.1	114.5	1.22	<0.05	8.6	0.302	3.5
ZZ87498		10.9	65.1	0.003	0.01	0.30	7.6	1	5.2	94.2	1.12	<0.05	13.0	0.250	3.3
ZZ87499		20.3	54.7	0.020	0.11	0.54	7.7	5	2.1	368	0.43	<0.05	35.6	0.174	11.8
ZZ87500		8.5	60.0	0.007	0.03	0.44	17.6	3	5.3	153.0	1.92	0.06	18.4	0.557	18.1
ZZ71301		14.3	45.4	0.014	0.08	0.39	5.5	7	0.9	397	0.39	<0.05	10.6	0.180	11.3
ZZ71302		14.1	98.9	0.004	0.02	0.41	7.3	2	2.6	267	0.84	<0.05	9.0	0.296	3.3
ZZ71303		10.1	58.7	0.003	0.02	0.39	5.9	1	1.1	315	0.45	<0.05	6.2	0.183	4.8
ZZ71304		12.1	51.5	0.012	0.06	0.44	6.0	6	0.9	373	0.41	<0.05	10.0	0.178	24.4
ZZ71305		18.1	71.3	0.016	0.07	0.51	12.2	11	2.4	126.0	0.72	0.05	18.3	0.282	80.8
ZZ71306		7.0	74.1	0.003	0.01	0.19	7.4	1	3.9	106.5	0.88	<0.05	10.1	0.245	3.3
ZZ71307		2.2	11.8	0.005	0.18	0.27	1.3	10	0.2	153.5	0.08	<0.05	6.0	0.035	7.4
ZZ71308		19.2	76.9	0.026	0.10	0.42	12.4	17	2.5	138.5	0.73	0.09	20.5	0.272	85.3
ZZ71309		12.3	90.1	0.029	0.05	0.49	9.9	7	4.5	151.5	1.00	<0.05	18.4	0.255	19.4
ZZ71310		11.5	83.1	0.009	0.06	0.44	7.9	4	3.3	214	0.80	0.05	19.9	0.224	11.2
ZZ71311		7.2	80.7	0.004	<0.01	0.17	7.0	1	5.1	83.6	1.07	<0.05	9.3	0.242	2.5
ZZ71312		10.6	85.9	0.017	0.06	0.48	9.1	5	3.8	203	0.83	<0.05	16.2	0.253	15.9
ZZ71313		11.1	84.2	0.008	0.04	0.28	8.3	3	5.0	143.5	1.04	<0.05	20.4	0.228	9.6
ZZ71351		11.3	67.3	0.009	0.19	0.60	9.5	12	2.6	210	0.35	<0.05	14.6	0.160	42.3
ZZ71352		10.4	32.8	0.016	0.17	0.72	4.4	13	0.9	284	0.27	<0.05	6.8	0.116	24.4
ZZ71353		22.1	79.1	0.002	0.02	0.63	8.0	2	2.8	365	0.83	<0.05	7.8	0.298	5.6
ZZ71354		20.6	95.9	0.002	0.01	0.47	11.3	3	3.5	203	1.05	<0.05	9.7	0.371	5.0
ZZ71355		10.8	64.3	0.002	0.01	0.47	6.7	1	3.1	356	0.81	<0.05	7.1	0.299	4.7
ZZ71356		20.2	96.1	<0.002	0.02	0.32	12.2	5	2.5	192.0	0.62	0.11	15.4	0.259	11.8



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ87480		177	1.7	12.9	45	88.2
ZZ87481		198	1.6	16.5	81	67.3
ZZ87482		178	1.8	18.9	49	93.4
ZZ87483		233	1.7	18.5	88	68.6
ZZ87484		161	1.5	13.8	45	74.5
ZZ87485		222	1.3	14.7	57	69.6
ZZ87486		302	1.5	15.7	88	78.0
ZZ87487		208	1.4	18.6	97	74.6
ZZ87488		119	1.1	11.8	76	97.6
ZZ87489		74	0.7	9.7	62	107.5
ZZ87490		32	0.6	6.6	49	131.5
ZZ87491		297	1.0	17.8	38	68.3
ZZ87492		123	2.0	12.4	40	72.9
ZZ87493		412	1.0	19.4	44	60.3
ZZ87494		256	1.8	22.1	65	88.2
ZZ87495		146	1.5	11.9	27	80.2
ZZ87496		161	2.1	12.8	36	81.3
ZZ87497		146	1.8	11.1	26	93.3
ZZ87498		189	1.6	13.2	48	89.5
ZZ87499		112	0.9	24.9	57	126.5
ZZ87500		259	2.1	48.8	86	82.1
ZZ71301		38	0.7	22.4	66	102.0
ZZ71302		63	1.3	15.2	61	84.9
ZZ71303		126	1.1	10.6	116	98.9
ZZ71304		58	0.8	31.9	79	98.2
ZZ71305		175	1.9	80.3	1380	74.8
ZZ71306		165	1.5	13.8	80	85.5
ZZ71307		11	0.2	21.0	114	20.4
ZZ71308		204	1.7	84.8	1560	82.3
ZZ71309		182	1.8	29.2	96	97.2
ZZ71310		127	1.3	36.4	70	102.5
ZZ71311		107	1.6	11.1	34	84.4
ZZ71312		193	1.7	32.6	92	99.0
ZZ71313		82	1.6	16.8	70	102.5
ZZ71351		75	2.1	53.9	215	70.5
ZZ71352		43	0.7	40.0	198	78.0
ZZ71353		130	1.7	10.8	89	110.5
ZZ71354		310	3.2	14.8	148	87.8
ZZ71355		359	1.7	10.7	91	107.0
ZZ71356		339	1.8	26.4	347	85.5



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ71357		0.18	0.004	0.87	5.97	25.6	2000	2.47	0.42	1.13	0.62	82.4	12.6	91	19.50	116.5
ZZ71358		0.18	0.001	0.09	5.11	5.1	850	2.31	0.13	1.33	0.07	53.2	6.8	75	8.49	75.9
ZZ71359		0.23	0.001	0.16	6.08	3.4	2020	2.34	0.24	1.79	2.69	62.8	7.2	79	7.46	76.7
ZZ71360		0.16	0.003	0.27	4.77	3.3	800	1.45	0.23	2.17	2.05	71.6	5.5	23	3.21	97.1
ZZ71361		0.13	0.004	0.39	4.54	14.8	890	2.22	0.79	1.51	9.29	98.1	8.9	63	15.50	190.0
ZZ71362		0.13	0.001	0.20	5.04	5.8	950	1.99	0.25	1.38	2.73	48.7	7.3	67	7.03	43.4
ZZ71363		0.18	<0.001	0.02	5.32	2.7	1040	2.69	0.26	1.28	0.28	48.4	6.5	61	2.85	10.0
ZZ71364		0.13	0.001	0.22	5.14	1.9	870	1.75	0.18	2.33	0.25	87.4	4.4	20	2.87	35.7
ZZ71365		0.20	0.002	0.23	5.10	4.9	1070	3.09	0.39	1.44	0.64	96.0	7.2	104	6.83	50.4
ZZ71366		0.22	0.001	0.12	5.96	8.5	980	4.26	0.50	1.13	0.13	134.5	9.6	97	8.86	33.6
ZZ71367		0.18	<0.001	0.02	6.04	4.2	820	3.20	0.29	0.75	0.09	70.0	4.3	78	6.33	5.1
ZZ71368		0.16	0.001	0.16	5.62	4.9	950	3.07	0.35	1.88	0.18	109.0	6.8	62	3.87	39.8
ZZ71369		0.20	0.002	0.18	6.49	5.3	920	4.04	0.42	2.03	0.49	165.5	6.8	55	8.17	31.6
ZZ71370		0.21	0.002	0.21	5.26	10.6	1640	2.24	0.47	2.01	1.95	88.5	11.1	81	8.43	79.3
ZZ71371		0.15	<0.001	0.12	5.97	2.9	940	1.36	0.17	2.13	0.34	45.7	4.8	12	2.06	38.6
ZZ71372		0.25	0.001	0.05	7.01	14.9	3050	2.95	0.31	1.00	0.41	51.1	9.2	87	6.98	23.1
ZZ71373		0.15	0.001	0.13	5.56	2.6	1330	2.66	0.40	1.84	0.98	84.8	7.4	99	6.84	29.5
ZZ71374		0.18	<0.001	0.09	5.38	3.6	1760	2.13	0.27	0.94	0.78	37.7	4.2	75	10.60	12.9
ZZ71375		0.21	<0.001	0.13	5.35	11.7	1920	2.46	0.41	0.62	0.26	38.9	7.4	84	8.24	20.9
ZZ71376		0.23	<0.001	0.05	6.02	8.8	2670	2.78	0.60	0.78	0.21	42.0	6.3	104	9.38	30.0
ZZ71377		0.22	<0.001	0.11	5.75	9.7	2490	2.53	0.49	0.62	0.57	45.2	5.5	99	6.75	24.6
ZZ71378		0.22	<0.001	0.25	6.01	14.6	2990	3.11	0.64	1.00	0.33	54.4	5.1	128	4.69	29.8
ZZ71379		0.16	<0.001	0.15	6.18	9.9	1780	2.19	0.61	0.71	0.34	61.4	4.2	88	4.83	17.8
ZZ71380		0.27	0.002	0.03	6.25	10.2	1950	2.78	0.72	0.50	0.29	70.3	5.4	84	6.16	12.1
ZZ71381		0.16	<0.001	0.51	6.23	20.5	1440	2.58	0.97	0.90	0.77	66.9	11.8	71	10.80	33.5
ZZ71382		0.26	0.002	0.13	6.40	7.2	1780	3.37	0.56	0.66	0.42	88.1	8.1	78	6.69	39.4
ZZ71383		0.20	0.001	0.04	7.28	5.6	1710	3.43	0.77	0.97	0.33	105.0	10.5	70	7.99	27.0
ZZ71384		0.24	0.002	0.03	6.52	4.9	1180	3.36	0.94	1.78	0.55	91.1	14.2	77	10.25	18.5
ZZ71385		0.17	0.002	0.11	5.16	3.3	990	2.29	0.45	1.91	0.44	71.1	8.2	65	7.76	23.4
ZZ71386		0.15	0.001	0.19	4.46	2.0	1130	1.61	0.29	2.67	0.63	58.4	8.6	58	10.65	17.8
ZZ71387		0.23	0.001	0.16	5.85	4.2	1290	2.59	0.47	1.94	0.28	92.7	9.6	77	9.98	19.5
ZZ71388		0.18	0.002	0.22	6.77	5.1	1080	1.94	0.45	1.61	0.62	78.4	9.1	34	8.00	33.5
ZZ71389		0.20	0.001	0.31	7.39	9.2	1840	3.39	0.91	0.77	0.41	163.5	19.6	85	15.70	64.8
ZZ71390		0.20	<0.001	0.06	6.77	5.1	1490	2.51	0.47	1.39	0.27	84.5	10.3	75	8.18	16.4
ZZ71391		0.22	0.002	0.19	5.90	4.2	1210	2.68	0.47	1.59	0.78	94.8	11.2	116	7.70	24.5
ZZ71392		0.21	0.002	0.21	5.63	4.5	1500	2.36	0.40	1.71	1.25	110.0	15.6	96	6.78	36.0
ZZ71393		0.24	0.001	0.14	5.66	4.9	1460	2.56	0.52	1.59	0.99	86.6	9.8	85	9.60	38.9
ZZ71394		0.23	0.004	0.60	7.16	23.0	1840	3.10	1.06	1.33	1.04	136.5	14.1	100	31.8	275
ZZ71395		0.18	0.001	0.11	6.00	5.3	1220	2.23	0.20	4.31	0.65	84.5	13.8	73	2.64	28.9
ZZ71396		0.30	0.001	0.14	6.58	5.8	2320	2.46	0.39	2.30	0.79	87.8	9.2	76	9.13	36.4



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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	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	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
ZZ71357		2.45	16.05	0.26	1.9	0.042	1.33	62.8	59.2	1.41	428	12.30	1.13	8.2	233	1570
ZZ71358		2.50	16.05	0.19	1.7	0.041	1.62	35.5	36.2	2.10	191	16.90	1.17	10.4	51.7	620
ZZ71359		2.14	16.50	0.26	2.3	0.024	2.49	46.1	30.2	1.37	246	9.64	1.02	8.3	111.5	1550
ZZ71360		1.50	12.25	0.29	2.4	0.020	1.46	68.8	14.7	0.49	405	7.30	1.67	4.9	64.8	1150
ZZ71361		2.32	13.70	0.32	2.0	0.037	1.22	93.6	28.0	1.55	455	12.75	0.72	7.4	167.5	1440
ZZ71362		1.83	14.10	0.18	1.9	0.025	1.32	36.0	24.9	1.48	399	7.82	1.38	8.6	64.0	700
ZZ71363		1.67	16.60	0.16	2.3	0.039	1.61	26.8	18.5	1.95	268	2.68	1.68	12.7	40.4	960
ZZ71364		1.48	13.25	0.29	2.8	0.023	1.99	76.7	15.0	0.44	326	3.01	1.75	5.8	23.0	1070
ZZ71365		1.98	15.25	0.27	2.7	0.046	1.70	66.1	24.5	0.79	598	5.11	1.39	13.2	60.6	1390
ZZ71366		2.68	17.65	0.29	2.7	0.057	1.60	96.5	40.5	0.90	659	4.94	1.48	14.2	64.3	850
ZZ71367		1.73	19.50	0.18	3.0	0.052	2.05	35.9	28.0	0.71	269	2.26	1.96	16.6	26.0	380
ZZ71368		2.04	16.40	0.43	2.8	0.040	2.22	135.0	25.9	0.74	520	3.47	1.68	11.5	56.5	870
ZZ71369		2.53	20.7	0.46	3.5	0.071	2.12	173.5	32.8	0.83	331	4.84	1.56	15.9	50.2	850
ZZ71370		2.75	15.20	0.24	1.6	0.046	1.66	54.6	24.9	1.62	339	5.39	0.90	10.6	69.8	1600
ZZ71371		1.52	15.10	0.19	2.9	0.014	2.09	25.7	17.4	0.50	433	3.58	2.13	5.2	22.1	680
ZZ71372		2.72	21.3	0.24	2.2	0.038	3.74	27.7	29.4	1.94	210	4.11	0.68	13.3	34.4	2290
ZZ71373		2.12	15.95	0.24	2.1	0.050	1.56	48.9	29.7	1.20	287	3.81	1.28	14.5	56.9	1430
ZZ71374		1.72	17.30	0.18	2.2	0.037	2.21	19.6	22.8	1.26	168	6.55	1.03	11.7	25.5	760
ZZ71375		2.31	16.30	0.17	2.1	0.036	1.98	20.0	33.8	1.25	167	7.69	0.76	11.2	46.3	1260
ZZ71376		2.61	19.50	0.19	2.6	0.048	2.44	22.9	30.7	1.16	172	10.70	0.63	13.0	59.4	2540
ZZ71377		2.32	17.80	0.20	2.6	0.040	2.32	25.8	26.8	0.86	147	10.65	0.70	12.7	54.8	2210
ZZ71378		2.61	19.55	0.23	2.7	0.041	2.60	30.1	26.2	0.64	187	14.30	0.76	14.2	64.1	3890
ZZ71379		2.32	20.6	0.21	2.6	0.046	2.37	33.4	22.6	0.55	233	11.90	1.22	16.7	30.3	1250
ZZ71380		2.93	20.7	0.22	2.3	0.059	2.82	37.4	28.4	0.77	258	14.65	1.04	20.0	35.4	730
ZZ71381		3.67	20.5	0.21	1.9	0.078	2.24	36.8	26.6	0.72	813	17.00	1.27	16.5	50.3	1590
ZZ71382		3.06	20.7	0.27	2.3	0.072	3.31	48.5	38.4	1.04	386	9.97	1.18	20.8	47.0	620
ZZ71383		4.07	22.8	0.26	2.5	0.109	3.15	53.7	39.5	1.49	653	4.68	1.21	22.1	39.2	710
ZZ71384		3.89	18.30	0.21	1.6	0.088	2.00	47.9	30.9	1.57	846	5.21	1.36	15.7	43.6	560
ZZ71385		2.52	14.50	0.20	2.0	0.052	2.03	40.5	26.1	1.09	397	5.45	1.41	11.9	49.5	1260
ZZ71386		1.94	12.90	0.18	1.5	0.034	1.20	28.4	29.0	1.28	615	5.48	0.90	9.9	37.3	1280
ZZ71387		3.03	18.35	0.19	1.8	0.058	1.91	49.1	32.1	1.49	446	5.40	1.34	17.9	35.9	1360
ZZ71388		2.64	18.30	0.19	2.9	0.036	2.05	43.4	34.4	0.94	497	8.04	2.02	9.0	30.9	830
ZZ71389		4.79	22.5	0.25	1.7	0.087	1.94	69.9	55.8	1.17	617	19.30	1.04	16.1	66.8	990
ZZ71390		3.06	20.7	0.17	1.6	0.050	1.81	39.8	32.0	1.60	370	9.12	2.03	18.5	31.9	790
ZZ71391		2.74	16.90	0.20	2.1	0.045	1.58	53.9	34.8	1.31	381	5.33	1.30	17.1	66.8	1610
ZZ71392		2.71	15.80	0.24	1.9	0.042	1.56	57.4	32.0	1.24	533	7.60	1.40	14.8	80.2	1420
ZZ71393		2.68	17.15	0.21	2.1	0.047	1.66	46.4	29.5	1.40	354	4.58	1.14	15.3	51.7	1470
ZZ71394		5.12	22.4	0.38	1.9	0.062	2.24	140.5	46.5	1.97	348	28.5	0.72	12.1	147.0	1230
ZZ71395		3.94	20.0	0.18	0.9	0.045	0.75	46.4	25.5	3.92	527	2.03	1.30	13.3	46.1	870
ZZ71396		2.76	19.50	0.21	1.4	0.053	1.56	49.6	26.5	2.15	220	6.48	1.20	15.5	43.5	1220



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		Pb	Rb	Re	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
ZZ71357		19.3	65.8	<0.002	0.02	0.21	12.2	3	2.4	106.0	0.62	0.09	13.5	0.236	23.7
ZZ71358		8.9	78.4	0.003	0.03	0.23	11.1	3	2.7	109.0	0.78	<0.05	8.8	0.313	60.4
ZZ71359		9.6	116.0	0.016	0.09	0.24	10.6	6	1.4	137.0	0.59	<0.05	10.4	0.258	55.2
ZZ71360		9.1	48.0	0.009	0.11	0.39	5.6	7	0.9	347	0.41	<0.05	11.8	0.159	40.2
ZZ71361		13.0	98.8	0.011	0.09	0.32	11.9	7	2.0	124.0	0.55	0.07	26.9	0.171	64.5
ZZ71362		9.2	76.0	0.006	0.04	0.27	9.4	3	2.0	173.5	0.72	<0.05	14.3	0.240	13.7
ZZ71363		5.4	75.0	<0.002	0.01	0.14	10.4	1	3.5	95.3	0.99	<0.05	9.1	0.277	3.6
ZZ71364		7.4	69.4	0.011	0.10	0.46	4.6	5	1.3	362	0.46	<0.05	13.1	0.160	25.9
ZZ71365		12.3	86.4	0.006	0.06	0.48	9.1	5	4.5	109.5	1.06	<0.05	27.3	0.233	39.0
ZZ71366		15.7	78.7	0.002	0.01	0.37	10.7	3	5.0	130.0	2.79	<0.05	64.0	0.263	10.5
ZZ71367		10.0	99.9	<0.002	<0.01	0.24	8.4	1	6.3	98.2	1.49	<0.05	14.5	0.269	2.8
ZZ71368		11.5	94.8	0.004	0.05	0.54	8.8	5	3.7	223	0.98	<0.05	32.6	0.237	15.5
ZZ71369		9.1	110.5	0.003	0.07	0.50	11.2	5	5.3	144.0	1.29	<0.05	67.0	0.242	33.8
ZZ71370		15.8	85.9	0.007	0.15	0.49	11.2	9	3.0	139.0	0.80	0.05	15.0	0.271	61.7
ZZ71371		8.2	65.4	0.006	0.05	0.44	4.4	3	0.8	441	0.41	<0.05	6.6	0.172	7.9
ZZ71372		17.8	158.0	<0.002	0.02	0.24	14.2	1	2.5	93.1	0.97	0.06	9.2	0.348	3.2
ZZ71373		14.8	72.8	0.021	0.13	0.37	11.9	6	4.1	140.5	1.12	<0.05	15.4	0.333	29.4
ZZ71374		10.0	108.5	<0.002	0.02	0.17	10.7	1	3.5	124.0	0.86	<0.05	6.3	0.315	3.4
ZZ71375		15.8	102.0	<0.002	0.01	0.22	11.0	2	3.5	77.4	0.80	0.06	5.6	0.290	3.0
ZZ71376		13.8	120.0	<0.002	0.01	0.26	13.2	3	4.5	103.5	0.97	0.07	6.5	0.335	4.2
ZZ71377		14.8	116.5	<0.002	0.01	0.36	11.4	3	3.9	97.0	0.97	0.08	6.8	0.308	3.9
ZZ71378		17.8	116.0	<0.002	0.01	0.71	12.9	5	3.8	147.0	1.13	0.13	9.0	0.320	4.3
ZZ71379		21.0	105.5	<0.002	0.01	0.54	10.4	3	4.9	137.0	1.31	<0.05	9.9	0.378	3.5
ZZ71380		22.1	142.0	<0.002	0.01	0.54	11.5	2	5.6	82.2	1.41	<0.05	10.9	0.370	3.2
ZZ71381		42.2	192.0	<0.002	0.02	0.49	10.4	3	5.0	165.5	1.20	0.07	12.1	0.357	4.2
ZZ71382		30.8	158.0	<0.002	0.01	0.48	12.8	3	6.0	92.1	1.68	<0.05	14.1	0.382	4.1
ZZ71383		29.7	147.0	<0.002	0.01	0.35	14.1	2	6.7	105.5	1.67	<0.05	20.4	0.421	5.7
ZZ71384		21.9	104.0	<0.002	0.01	0.21	12.4	1	4.6	167.5	1.23	<0.05	14.3	0.374	7.8
ZZ71385		13.4	110.0	0.008	0.07	0.30	9.5	3	3.2	177.5	0.89	<0.05	12.3	0.274	15.6
ZZ71386		8.8	69.3	0.004	0.11	0.28	8.2	3	2.3	179.0	0.69	<0.05	15.7	0.221	20.8
ZZ71387		14.5	111.5	0.003	0.04	0.25	10.5	3	5.1	152.5	1.48	<0.05	19.5	0.345	39.9
ZZ71388		15.7	84.0	0.006	0.04	0.45	7.2	2	2.1	391	0.68	<0.05	16.7	0.228	21.6
ZZ71389		31.4	129.5	0.004	0.03	0.39	13.5	4	3.7	119.5	1.19	0.08	26.7	0.340	27.3
ZZ71390		18.8	105.0	0.002	0.01	0.25	11.0	2	3.8	165.0	1.36	<0.05	13.7	0.374	4.7
ZZ71391		18.0	78.7	0.005	0.08	0.54	11.1	6	4.0	149.0	1.23	<0.05	18.3	0.336	24.0
ZZ71392		15.2	90.3	0.005	0.08	0.43	10.4	7	3.4	152.5	1.06	<0.05	19.3	0.322	35.4
ZZ71393		16.1	97.0	0.005	0.07	0.29	10.5	5	3.7	142.0	1.15	0.06	17.7	0.300	32.6
ZZ71394		20.0	187.0	0.008	0.07	0.61	15.0	8	4.0	106.0	0.81	0.22	25.5	0.294	75.6
ZZ71395		3.7	32.1	0.006	0.08	0.20	11.7	5	3.4	199.0	0.89	<0.05	15.4	0.336	23.2
ZZ71396		11.2	91.5	0.013	0.12	0.17	12.2	9	3.1	164.5	1.12	0.06	17.3	0.331	42.1



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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
ZZ71357		375	1.8	41.3	464	73.2
ZZ71358		158	1.4	30.0	73	64.0
ZZ71359		214	1.5	34.1	351	78.8
ZZ71360		64	0.7	53.5	132	87.4
ZZ71361		132	1.2	84.9	567	73.0
ZZ71362		120	1.2	27.4	157	61.8
ZZ71363		166	3.3	18.5	61	75.2
ZZ71364		45	0.7	49.2	45	98.0
ZZ71365		120	2.0	59.6	64	92.2
ZZ71366		117	1.9	48.2	69	87.9
ZZ71367		81	2.1	12.4	35	94.0
ZZ71368		64	1.6	89.6	49	95.8
ZZ71369		73	1.6	70.4	93	114.0
ZZ71370		169	2.3	35.4	262	59.3
ZZ71371		40	0.7	12.2	61	108.5
ZZ71372		271	4.1	17.5	329	75.8
ZZ71373		128	2.1	26.9	117	75.3
ZZ71374		252	2.5	13.9	70	81.3
ZZ71375		333	3.0	14.6	114	77.4
ZZ71376		506	4.1	19.0	109	94.2
ZZ71377		500	3.7	15.1	87	91.4
ZZ71378		627	3.7	22.1	76	96.4
ZZ71379		320	3.5	14.1	59	92.9
ZZ71380		333	4.1	13.9	73	80.1
ZZ71381		203	3.6	14.1	151	70.6
ZZ71382		202	3.9	18.8	129	76.1
ZZ71383		118	3.7	23.7	203	77.3
ZZ71384		90	2.2	24.0	177	52.7
ZZ71385		122	1.6	25.7	101	64.6
ZZ71386		162	1.9	16.5	106	56.4
ZZ71387		133	2.5	26.0	107	64.5
ZZ71388		91	1.5	19.5	108	106.5
ZZ71389		214	3.5	27.1	124	60.2
ZZ71390		134	2.0	19.6	82	58.6
ZZ71391		142	2.0	29.0	150	72.7
ZZ71392		119	1.9	33.9	128	71.5
ZZ71393		146	2.2	27.3	179	72.0
ZZ71394		295	3.7	114.5	349	69.9
ZZ71395		106	0.6	21.4	125	34.2
ZZ71396		162	2.1	28.5	132	51.3



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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
ZZ71397		0.20	0.001	0.22	6.16	4.7	1380	2.80	0.58	1.98	1.20	96.6	12.0	75	9.61	23.9
ZZ71398		0.28	0.001	0.09	5.24	5.3	1650	2.23	0.41	1.44	1.21	64.0	10.4	61	7.49	23.8
ZZ71399		0.18	0.001	0.18	5.67	11.1	1730	1.90	0.36	2.68	0.55	52.7	9.8	66	7.22	30.2
ZZ71400		0.21	<0.001	0.10	5.21	6.8	1370	1.92	0.30	2.08	0.84	62.2	7.5	55	6.27	35.5
ZZ71451		0.12	0.003	0.19	5.74	5.1	1590	2.32	0.46	2.56	1.49	81.6	10.6	85	8.15	49.6
ZZ71452		0.19	0.003	0.49	5.64	5.8	2440	2.34	0.80	2.22	2.42	109.5	9.3	86	10.40	144.5
ZZ71453		0.32	0.001	0.12	6.09	13.3	1820	2.36	0.55	1.73	1.37	90.7	12.3	83	8.44	42.2
ZZ71454		0.23	0.001	0.18	5.56	3.1	1020	1.36	0.30	2.49	1.17	47.8	5.3	29	3.74	35.0
ZZ71455		0.19	0.001	0.19	5.62	4.0	1040	2.50	0.60	2.05	1.44	91.8	10.1	76	6.07	18.9
ZZ71456		0.18	<0.001	0.03	5.48	5.7	1190	2.32	0.33	1.10	0.21	73.9	9.2	91	5.13	10.5
ZZ71457		0.15	0.003	0.33	4.24	2.9	940	2.17	0.65	3.19	1.12	126.0	6.3	58	5.80	35.0



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	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
ZZ71397		3.18	18.65	0.27	2.4	0.051	1.94	60.9	38.9	1.51	720	3.07	1.13	17.4	57.8
ZZ71398		2.22	15.30	0.18	1.7	0.035	1.55	38.2	23.8	1.35	1240	8.81	1.12	11.9	49.8
ZZ71399		2.68	16.35	0.19	1.8	0.028	1.61	31.0	24.3	1.60	406	6.68	1.03	10.1	34.7
ZZ71400		2.08	14.25	0.18	1.6	0.025	1.33	34.0	20.2	1.27	248	4.60	1.41	10.1	45.8
ZZ71451		2.86	17.25	0.22	2.1	0.042	1.74	59.2	32.6	1.47	546	5.09	0.95	13.1	110.0
ZZ71452		2.17	17.10	0.28	1.8	0.044	1.78	61.4	32.7	1.50	271	6.75	0.69	12.9	103.0
ZZ71453		3.06	18.05	0.22	2.0	0.049	1.97	46.6	32.0	1.76	281	7.49	1.22	14.6	69.0
ZZ71454		1.64	14.45	0.19	2.7	0.018	1.66	27.2	19.9	0.67	426	4.12	1.80	6.8	30.7
ZZ71455		2.61	16.55	0.23	2.6	0.054	1.70	63.6	29.3	1.00	1100	4.82	1.44	15.4	48.6
ZZ71456		2.25	15.90	0.17	2.1	0.043	1.69	38.1	23.4	1.19	327	4.34	1.44	15.2	41.1
ZZ71457		2.12	13.70	0.31	2.0	0.048	1.20	116.5	20.5	0.89	263	2.84	0.70	12.3	49.5



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		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
ZZ71397		20.0	128.0	0.021	0.15	0.34	11.3	7	4.6	146.5	1.28	<0.05	23.2	0.328	0.58
ZZ71398		15.5	84.9	0.005	0.03	0.24	9.0	3	2.7	130.0	0.86	0.05	14.0	0.271	0.45
ZZ71399		16.3	72.4	0.006	0.09	0.33	9.5	4	1.9	198.0	0.71	0.05	11.6	0.270	0.41
ZZ71400		12.8	64.8	0.007	0.08	0.27	7.8	4	2.1	189.5	0.72	<0.05	11.6	0.249	0.37
ZZ71451		17.0	94.7	0.029	0.19	0.48	10.3	8	3.3	166.5	1.04	0.05	18.2	0.274	0.54
ZZ71452		25.3	105.5	0.030	0.30	0.43	12.0	21	3.3	133.0	0.89	<0.05	22.6	0.278	0.59
ZZ71453		21.1	109.0	0.005	0.05	0.39	11.4	6	3.4	156.0	1.03	0.06	18.6	0.348	0.53
ZZ71454		12.1	57.3	0.033	0.18	0.54	4.9	12	1.2	393	0.52	<0.05	12.0	0.190	0.31
ZZ71455		16.9	105.0	0.014	0.11	0.40	9.4	6	4.2	170.5	1.14	<0.05	19.2	0.283	0.49
ZZ71456		14.4	87.1	<0.002	0.01	0.26	8.4	2	3.9	104.0	1.14	<0.05	13.5	0.284	0.46
ZZ71457		12.3	71.7	0.014	0.21	0.55	8.4	11	3.7	139.5	0.88	<0.05	23.6	0.221	0.42



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ71397		127	3.1	37.3	230	79.7
ZZ71398		180	2.2	23.7	208	58.4
ZZ71399		174	2.2	19.6	286	66.1
ZZ71400		144	1.7	21.3	173	59.4
ZZ71451		170	2.4	45.8	234	76.5
ZZ71452		165	2.9	42.0	251	64.7
ZZ71453		209	2.5	27.1	233	76.6
ZZ71454		58	1.0	15.7	124	100.5
ZZ71455		80	2.0	37.9	191	86.2
ZZ71456		152	2.0	16.8	125	76.6
ZZ71457		69	1.8	69.5	141	66.5



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CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

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

LABORATORY ADDRESSES

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

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



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P.O. No.:

This report is for 211 Soil samples submitted to our lab in Whitehorse, YT, Canada on 30-AUG-2013.

The following have access to data associated with this certificate:

HEATHER BURRELL

SARAH DRECHSLER

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
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	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ71075		0.12	0.004	0.20	6.67	2.4	1130	2.13	0.42	1.08	0.21	54.4	5.9	76	5.89	15.5
ZZ71076		0.30	0.001	0.10	5.09	3.3	1020	2.38	0.30	1.13	0.11	62.9	6.5	91	4.24	11.2
ZZ71077		0.30	0.001	0.01	5.14	3.1	990	2.06	0.24	1.17	0.08	55.5	5.4	90	3.60	6.0
ZZ71078		0.16	0.001	0.21	5.78	3.6	1130	2.29	0.31	1.69	0.18	65.9	7.6	71	4.37	23.3
ZZ71079		0.25	0.001	0.09	5.50	2.7	940	2.10	0.28	1.31	0.30	53.4	7.6	80	4.32	10.2
ZZ71080		0.28	<0.001	0.07	5.29	2.6	900	1.94	0.26	1.21	0.10	57.7	6.5	79	3.77	11.9
ZZ71081		0.28	0.001	0.08	4.50	4.5	930	1.89	0.21	1.01	0.14	48.8	5.7	61	3.92	9.5
ZZ71082		0.21	<0.001	0.05	5.38	5.1	1680	2.24	0.25	1.20	0.12	51.7	5.9	94	6.34	19.3
ZZ71083		0.10	0.002	0.33	5.63	8.2	1210	2.36	0.48	1.32	0.33	111.0	10.6	85	11.00	50.3
ZZ71084		0.27	0.001	0.02	5.13	3.6	870	2.75	0.61	1.36	0.14	70.4	11.3	261	5.51	8.0
ZZ71085		0.33	0.001	0.11	5.83	3.6	970	2.48	0.55	1.12	0.15	64.5	8.6	122	5.30	12.6
ZZ71086		0.26	0.001	0.18	6.19	2.3	1000	1.95	0.36	1.11	0.11	60.6	5.0	90	4.20	10.0
ZZ71087		0.30	0.001	0.06	5.19	3.9	910	2.31	0.48	1.11	0.18	67.8	8.8	87	4.14	14.1
ZZ71088		0.25	0.001	0.07	6.11	4.3	920	2.65	0.55	1.05	0.11	49.4	10.2	119	4.93	10.6
ZZ71089		0.28	0.001	0.05	5.77	3.9	970	2.37	0.37	1.11	0.14	57.8	5.4	108	4.23	8.1
ZZ71090		0.34	0.001	0.02	6.00	3.6	1060	2.56	0.38	1.22	0.17	70.0	8.2	110	4.62	13.0
ZZ71091		0.34	<0.001	0.03	6.20	4.0	1140	2.54	0.44	1.16	0.12	66.0	6.6	120	5.01	10.5
ZZ71092		0.26	<0.001	0.12	5.73	3.0	1010	2.09	0.33	1.57	0.18	65.7	6.6	104	3.93	13.4
ZZ71093		0.44	0.001	0.08	6.14	4.2	1170	2.54	0.43	1.53	0.15	81.3	7.8	115	4.20	12.7
ZZ71094		0.37	<0.001	0.05	5.55	4.1	1100	2.22	0.29	1.71	0.16	78.4	8.9	118	3.36	14.0
ZZ71095		0.47	<0.001	0.16	6.11	4.2	1000	2.34	0.33	3.20	0.24	78.8	21.8	291	3.53	11.6
ZZ71096		0.28	0.001	0.34	5.90	4.9	860	1.67	0.19	2.60	0.52	51.6	7.9	53	3.87	22.7
ZZ71097		0.24	<0.001	0.09	7.07	2.5	890	1.40	0.15	1.85	0.09	37.2	6.4	68	1.70	18.3
ZZ71098		0.31	<0.001	0.05	6.44	3.3	1320	2.44	0.29	1.76	0.09	71.0	5.2	88	4.65	6.7
ZZ71099		0.28	<0.001	0.05	5.05	3.4	990	2.23	0.27	3.40	0.10	38.7	4.2	122	4.10	8.3
ZZ71100		0.19	<0.001	0.11	5.66	4.8	890	2.82	0.41	0.96	0.14	64.2	5.6	131	6.08	7.1
ZZ71101		0.27	0.001	0.20	6.27	4.3	820	1.35	0.24	0.47	0.48	50.3	10.4	68	22.0	19.9
ZZ71102		0.25	0.001	0.09	5.49	8.4	1080	2.10	0.30	0.55	0.52	39.8	4.2	106	5.97	7.8
ZZ71103		0.35	<0.001	0.02	4.58	4.9	1000	1.88	0.14	0.64	0.48	40.1	5.1	72	5.75	12.9
ZZ71104		0.08	0.001	0.03	6.32	3.4	570	1.28	0.04	0.58	0.13	15.00	2.8	56	1.79	3.4
ZZ71105		0.12	<0.001	0.09	5.19	8.0	1210	1.92	0.43	0.59	0.22	35.7	3.9	73	4.63	14.9
ZZ71106		0.48	0.001	0.11	6.07	3.6	1220	1.68	0.15	0.55	0.25	43.2	9.5	84	19.95	30.1
ZZ71107		0.37	0.001	0.23	5.84	12.7	2190	2.40	0.35	0.37	0.44	23.8	6.1	104	12.10	22.8
ZZ71108		0.18	0.001	0.12	5.08	8.4	2040	2.20	0.32	0.52	0.17	28.6	4.2	85	7.08	12.7
ZZ71109		0.18	0.001	0.32	5.17	7.9	1740	2.48	0.68	0.37	0.31	45.0	2.4	79	13.85	31.3
ZZ71110		0.11	0.001	0.10	6.36	5.6	1420	1.88	0.26	1.06	0.29	39.4	3.5	49	9.59	17.5
ZZ71111		0.14	<0.001	0.15	6.99	1.7	970	1.41	0.16	1.85	1.18	39.8	5.3	9	3.13	31.2
ZZ71112		0.09	0.001	0.10	4.98	9.5	1280	1.94	0.38	0.65	0.44	52.6	5.7	81	12.60	16.2
ZZ71113		0.18	0.025	0.06	5.27	16.6	1520	1.78	0.22	1.10	1.00	33.6	9.5	74	9.97	51.5
ZZ71114		0.18	0.008	0.60	3.08	14.8	980	1.73	0.48	3.39	5.27	181.0	7.3	49	21.5	668



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	
		%	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	
ZZ71075		1.92	22.0	0.16	3.1	0.050	1.90	29.1	21.5	0.88	266	4.84	1.88	17.0	27.2	470
ZZ71076		1.80	14.80	0.16	2.2	0.038	1.38	33.0	21.6	0.88	255	2.41	1.53	15.8	36.6	1750
ZZ71077		1.59	14.90	0.17	2.3	0.038	1.43	29.0	21.8	0.92	208	2.62	1.57	16.7	33.3	1310
ZZ71078		2.03	16.60	0.19	2.7	0.031	1.61	38.2	25.2	0.80	546	8.44	1.68	13.1	35.5	1620
ZZ71079		1.98	16.05	0.15	2.4	0.034	1.63	27.3	23.5	0.92	369	6.10	1.72	16.5	32.6	890
ZZ71080		1.71	15.30	0.15	2.6	0.033	1.65	28.6	21.0	0.77	298	4.44	1.66	14.9	31.2	560
ZZ71081		1.53	12.45	0.14	1.9	0.029	1.15	26.7	18.4	0.78	295	10.45	1.52	11.6	26.7	1530
ZZ71082		1.65	16.05	0.16	2.0	0.031	1.46	27.7	26.9	1.32	158	6.49	1.40	13.9	50.4	2150
ZZ71083		2.42	16.00	0.25	2.3	0.033	1.46	74.7	31.1	1.15	394	7.18	1.37	12.3	64.3	1540
ZZ71084		2.70	14.95	0.17	1.6	0.035	1.75	33.7	30.6	1.40	696	1.37	1.64	18.7	75.6	1020
ZZ71085		2.68	16.30	0.17	2.5	0.049	1.76	32.9	30.3	1.12	408	1.77	1.53	18.4	43.8	1280
ZZ71086		1.84	18.20	0.16	2.5	0.031	1.92	31.2	19.2	0.79	278	1.46	1.84	19.2	28.2	840
ZZ71087		2.35	14.70	0.18	1.6	0.051	1.55	35.8	26.2	0.98	370	1.51	1.46	17.2	40.4	980
ZZ71088		2.84	18.25	0.17	2.5	0.049	1.92	24.3	22.9	1.28	371	2.12	1.54	19.1	36.4	690
ZZ71089		2.10	16.50	0.14	2.0	0.057	1.68	27.3	20.4	0.99	298	1.33	1.62	16.4	33.3	710
ZZ71090		2.60	16.45	0.17	1.7	0.056	1.80	33.8	29.5	1.23	371	1.28	1.50	16.4	46.1	1160
ZZ71091		2.55	16.95	0.18	2.0	0.062	1.69	31.5	29.4	1.15	299	2.15	1.48	16.9	39.5	1160
ZZ71092		2.09	15.25	0.17	2.1	0.050	1.65	31.1	24.8	1.02	348	4.72	1.52	14.2	40.1	1530
ZZ71093		2.61	16.35	0.21	1.9	0.060	1.70	38.6	30.0	1.25	313	4.69	1.51	17.2	43.6	1770
ZZ71094		2.67	14.40	0.20	1.7	0.058	1.43	39.3	28.1	1.37	304	4.62	1.36	15.7	54.5	1970
ZZ71095		4.41	15.65	0.18	1.8	0.098	1.17	38.0	42.6	2.47	808	5.87	1.19	23.4	178.0	1900
ZZ71096		2.23	14.35	0.15	2.4	0.030	1.45	28.4	20.9	0.81	1260	11.20	1.74	6.5	33.1	3380
ZZ71097		1.77	16.95	0.14	3.4	0.018	2.10	17.4	21.9	0.76	402	2.35	2.55	5.3	36.6	520
ZZ71098		2.39	17.95	0.21	1.7	0.042	1.67	34.9	26.2	1.26	230	1.68	1.54	16.2	22.8	810
ZZ71099		1.78	16.20	0.19	1.5	0.042	1.09	18.0	17.0	1.45	186	3.87	1.59	4.9	27.8	9570
ZZ71100		2.50	15.90	0.18	1.8	0.051	1.75	31.3	28.3	0.79	266	2.62	1.45	16.1	33.2	600
ZZ71101		2.72	15.50	0.17	1.7	0.031	1.36	16.8	39.6	3.18	346	19.90	0.63	8.5	53.4	520
ZZ71102		1.70	17.95	0.16	2.7	0.044	1.42	19.5	21.0	1.24	155	4.79	1.50	13.5	31.0	600
ZZ71103		1.47	12.80	0.14	1.9	0.029	1.07	16.3	24.2	1.27	172	4.55	1.17	11.2	48.5	740
ZZ71104		0.75	14.20	0.11	1.7	0.007	0.65	7.5	9.3	0.80	88	1.74	3.93	10.6	29.4	250
ZZ71105		1.63	15.85	0.16	2.2	0.028	1.34	17.1	19.9	0.85	162	6.37	1.51	11.0	33.7	530
ZZ71106		3.62	16.50	0.17	1.9	0.051	1.73	21.4	36.7	2.57	291	3.68	1.21	11.4	33.3	770
ZZ71107		2.52	17.40	0.17	2.0	0.035	1.70	12.4	35.9	1.72	137	7.80	0.78	10.3	54.9	620
ZZ71108		1.84	18.00	0.16	2.0	0.035	1.45	13.6	23.6	1.11	113	6.29	0.93	11.6	38.3	1180
ZZ71109		2.35	16.55	0.18	2.1	0.051	2.03	24.5	25.2	0.46	120	6.96	0.71	12.0	17.8	1080
ZZ71110		1.53	17.20	0.16	2.9	0.031	2.02	20.0	23.3	0.59	245	3.98	1.81	9.3	16.9	570
ZZ71111		1.63	18.55	0.10	3.4	0.025	2.13	22.4	19.6	0.49	392	2.59	2.57	5.9	7.2	670
ZZ71112		1.99	18.65	0.10	2.2	0.042	1.36	25.2	28.5	1.07	188	3.60	1.68	15.9	38.4	1120
ZZ71113		2.74	17.20	0.09	2.1	0.036	1.66	18.3	27.7	1.71	193	9.07	1.17	10.5	61.1	2250
ZZ71114		1.89	9.54	0.46	1.8	0.036	0.75	224	24.1	0.56	399	4.78	0.24	4.1	330	1910



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		Pb	Rb	Re	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
ZZ71075		13.8	105.5	<0.002	0.01	0.36	8.9	1	4.8	219	1.48	<0.05	11.0	0.326	3.8
ZZ71076		11.3	68.5	<0.002	0.02	0.29	8.5	1	3.7	101.5	1.32	<0.05	13.4	0.279	4.9
ZZ71077		10.3	71.8	<0.002	<0.01	0.32	8.1	1	3.8	105.0	1.44	<0.05	9.9	0.292	2.9
ZZ71078		12.7	68.9	0.010	0.07	0.47	7.8	4	3.2	238	1.04	<0.05	14.6	0.251	16.1
ZZ71079		11.4	84.2	0.005	0.03	0.33	8.5	2	4.1	156.5	1.26	<0.05	12.2	0.303	4.8
ZZ71080		12.3	73.7	0.003	0.02	0.34	7.4	2	3.6	174.5	1.12	<0.05	12.1	0.269	3.8
ZZ71081		9.8	58.5	0.004	0.02	0.29	6.7	1	2.7	89.6	0.89	<0.05	11.0	0.231	11.5
ZZ71082		9.1	76.7	<0.002	0.01	0.38	10.0	2	2.9	95.9	1.00	<0.05	9.2	0.294	4.7
ZZ71083		16.3	100.5	0.007	0.06	0.69	10.5	5	3.3	152.5	0.93	<0.05	20.7	0.248	19.7
ZZ71084		20.8	83.2	<0.002	0.01	0.29	9.2	1	4.7	147.0	1.52	<0.05	12.1	0.413	2.3
ZZ71085		18.1	82.8	<0.002	0.02	0.31	9.8	1	4.0	144.0	1.41	<0.05	14.6	0.358	3.1
ZZ71086		15.6	72.6	<0.002	0.02	0.35	8.2	1	4.1	233	1.48	<0.05	9.7	0.363	2.9
ZZ71087		16.9	70.6	<0.002	0.01	0.35	8.9	1	3.4	129.0	1.38	<0.05	11.3	0.331	2.6
ZZ71088		19.1	89.7	<0.002	0.01	0.30	11.2	1	4.3	113.5	1.65	<0.05	10.0	0.390	2.7
ZZ71089		13.3	68.4	<0.002	0.01	0.34	9.5	1	4.1	140.0	1.24	<0.05	9.3	0.361	2.2
ZZ71090		16.2	77.1	<0.002	0.01	0.38	10.2	1	3.9	136.5	1.12	<0.05	10.2	0.381	2.2
ZZ71091		15.7	72.4	0.002	0.01	0.37	10.4	1	4.0	129.0	1.23	<0.05	11.4	0.384	3.0
ZZ71092		14.5	65.5	0.005	0.06	0.32	9.3	1	3.4	183.0	1.08	<0.05	11.6	0.331	4.6
ZZ71093		14.8	71.4	0.003	0.03	0.36	10.9	2	3.9	148.5	1.19	<0.05	13.0	0.380	4.9
ZZ71094		12.0	61.4	0.003	0.01	0.39	10.3	1	3.1	138.5	1.09	<0.05	11.0	0.370	4.4
ZZ71095		11.7	51.5	0.003	0.03	0.49	15.2	2	4.7	266	2.31	<0.05	10.9	0.537	4.6
ZZ71096		8.1	43.0	0.016	0.15	0.45	6.5	4	1.0	385	0.45	<0.05	6.9	0.212	17.4
ZZ71097		9.0	48.0	0.003	0.04	0.45	4.0	2	0.7	541	0.40	<0.05	5.5	0.194	3.6
ZZ71098		13.4	77.9	<0.002	0.01	0.30	10.0	1	3.1	144.5	1.15	<0.05	11.0	0.377	2.5
ZZ71099		8.0	45.4	<0.002	0.01	0.15	9.2	2	0.8	120.0	0.36	<0.05	6.8	0.265	8.6
ZZ71100		17.6	88.1	<0.002	0.01	0.37	8.6	1	4.1	121.5	1.13	<0.05	10.2	0.357	2.1
ZZ71101		42.3	83.3	0.003	0.01	0.09	10.5	2	1.0	26.9	0.60	<0.05	9.8	0.310	2.9
ZZ71102		8.3	107.5	<0.002	<0.01	0.21	8.1	1	4.0	92.9	1.01	<0.05	6.6	0.308	2.9
ZZ71103		6.4	50.6	<0.002	<0.01	0.19	8.2	1	2.0	59.3	0.78	<0.05	6.0	0.245	4.0
ZZ71104		2.7	33.5	<0.002	<0.01	0.10	10.1	1	0.5	90.6	0.70	<0.05	5.0	0.321	1.7
ZZ71105		13.5	63.8	0.002	0.01	0.26	8.0	3	2.5	115.0	0.81	<0.05	5.9	0.282	2.8
ZZ71106		6.2	113.5	0.003	0.07	0.16	14.7	2	2.4	94.5	0.79	<0.05	6.5	0.513	3.5
ZZ71107		19.1	75.8	0.002	0.02	0.19	11.1	2	3.0	51.1	0.69	<0.05	5.2	0.301	3.5
ZZ71108		11.7	68.6	0.002	0.01	0.28	9.5	2	3.5	54.3	0.81	<0.05	4.9	0.327	3.4
ZZ71109		35.4	88.9	0.002	0.08	0.45	9.4	3	4.7	88.2	0.87	0.08	8.0	0.336	2.9
ZZ71110		10.0	69.0	0.003	0.02	0.35	6.6	1	2.2	303	0.69	<0.05	5.9	0.257	3.0
ZZ71111		12.5	52.5	<0.002	0.03	0.48	4.3	1	0.8	542	0.49	<0.05	6.4	0.206	3.6
ZZ71112		14.3	79.2	<0.002	0.02	0.37	9.6	2	2.9	72.9	1.34	<0.05	9.4	0.356	2.9
ZZ71113		8.0	85.1	0.003	0.03	0.36	10.4	4	1.1	74.7	0.75	0.10	8.4	0.265	14.4
ZZ71114		18.5	69.7	0.016	0.27	0.79	9.2	26	1.5	181.5	0.32	0.06	18.2	0.105	188.5



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

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CERTIFICATE OF ANALYSIS WH13158580

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
ZZ71075		166	1.9	13.2	59	105.5
ZZ71076		158	1.6	18.0	53	75.7
ZZ71077		166	2.2	15.8	50	77.7
ZZ71078		136	1.8	28.1	54	99.2
ZZ71079		121	1.9	16.0	62	83.1
ZZ71080		96	1.8	14.6	43	86.2
ZZ71081		145	1.8	17.3	48	65.4
ZZ71082		324	1.9	18.3	84	76.1
ZZ71083		145	2.7	57.4	92	80.7
ZZ71084		62	8.8	19.0	68	54.2
ZZ71085		84	2.2	16.7	79	72.1
ZZ71086		68	2.2	14.3	42	92.7
ZZ71087		78	3.4	16.9	69	62.4
ZZ71088		101	2.3	16.6	68	76.8
ZZ71089		96	5.1	13.2	52	78.4
ZZ71090		113	2.0	15.5	76	66.9
ZZ71091		123	2.3	14.8	72	68.3
ZZ71092		106	1.6	14.4	59	78.8
ZZ71093		128	1.9	18.4	82	74.9
ZZ71094		141	3.2	18.6	118	64.3
ZZ71095		151	1.4	19.9	195	66.0
ZZ71096		67	0.7	12.3	67	98.1
ZZ71097		36	0.6	6.7	55	133.0
ZZ71098		105	1.7	14.9	38	63.0
ZZ71099		536	4.7	34.3	45	68.0
ZZ71100		101	1.9	13.6	42	76.3
ZZ71101		82	1.6	15.2	94	64.7
ZZ71102		250	2.5	10.7	69	98.6
ZZ71103		171	1.5	11.3	460	73.4
ZZ71104		79	0.9	5.7	34	64.4
ZZ71105		259	2.0	10.4	104	82.3
ZZ71106		188	1.2	13.1	101	76.2
ZZ71107		466	2.7	10.4	131	80.4
ZZ71108		357	2.3	12.0	88	80.9
ZZ71109		221	2.5	7.9	100	83.4
ZZ71110		209	1.8	9.1	73	115.5
ZZ71111		39	0.7	10.2	60	127.0
ZZ71112		217	1.8	17.5	63	82.0
ZZ71113		171	1.3	18.8	120	80.0
ZZ71114		132	1.0	186.5	199	71.5



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CERTIFICATE OF ANALYSIS WH13158580

Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ71115		0.12	0.028	0.04	5.25	6.1	1770	2.06	0.27	0.71	0.21	38.8	5.2	73	7.23	13.2
ZZ71116		0.09	0.001	0.26	3.96	3.9	700	1.32	0.22	2.68	1.40	109.5	5.1	25	6.36	119.5
ZZ71117		0.19	0.001	0.16	4.73	6.5	1460	1.94	0.16	0.94	0.11	32.4	6.8	72	4.10	16.2
ZZ71118		0.15	0.001	0.16	4.47	7.7	1450	1.70	0.30	0.51	0.66	47.3	6.5	63	8.72	47.6
ZZ71119		0.09	0.001	0.44	5.65	2.8	1100	1.92	0.23	1.30	0.46	65.7	3.9	42	5.09	35.9
ZZ71120		0.17	0.001	0.29	5.89	7.0	2630	3.02	0.44	0.23	0.41	65.5	4.4	93	11.60	106.0
ZZ71121		0.13	0.001	0.22	5.43	16.1	1530	2.28	0.64	0.60	0.59	59.4	4.4	73	6.15	19.5
ZZ71122		0.19	<0.001	0.15	5.69	6.0	1270	2.18	0.43	0.56	0.14	65.4	3.9	85	5.42	8.8
ZZ71123		0.16	0.001	0.86	5.61	2.2	990	2.38	0.28	0.53	0.16	92.2	2.3	73	4.04	21.8
ZZ71124		0.16	0.001	0.23	5.95	14.7	1830	2.51	0.41	0.45	0.26	64.0	4.1	105	7.99	22.6
ZZ71125		0.13	0.001	0.04	5.84	2.8	1480	2.19	0.34	0.61	0.16	53.4	4.8	131	6.09	7.2
ZZ71126		0.17	<0.001	0.13	5.11	3.6	1120	1.81	0.30	0.49	0.26	45.6	4.1	82	5.63	10.9
ZZ71127		0.17	0.001	0.05	6.01	3.6	1010	2.45	0.40	0.95	0.13	72.5	5.0	78	7.21	5.7
ZZ71128		0.12	0.001	0.10	5.16	4.2	1300	2.04	0.27	0.86	0.28	38.7	4.0	92	7.39	8.6
ZZ71129		0.26	0.001	0.67	5.41	6.1	1050	2.52	0.34	1.54	0.07	78.5	9.1	101	6.12	44.0
ZZ71130		0.22	<0.001	0.02	5.32	1.5	890	1.47	0.11	0.97	0.08	36.3	6.9	73	3.37	23.4
ZZ71131		0.24	0.001	0.02	5.19	5.3	1190	2.01	0.24	0.72	0.13	40.6	3.9	68	4.92	7.3
ZZ71132		0.25	0.001	0.07	6.26	10.4	1230	3.18	0.50	0.83	0.19	168.5	9.3	98	8.89	41.2
ZZ71133		0.19	<0.001	0.02	4.68	4.4	940	1.77	0.22	0.92	0.11	44.5	4.4	65	3.41	7.9
ZZ71134		0.21	<0.001	0.03	5.04	4.3	1080	1.86	0.14	1.12	0.12	45.4	4.7	75	3.05	13.2
ZZ71135		0.11	<0.001	0.12	5.93	1.6	990	1.64	0.18	1.30	0.16	45.1	3.8	37	3.35	15.3
ZZ71136		0.18	<0.001	0.19	5.47	2.0	1010	1.63	0.30	1.17	0.59	47.8	4.1	63	3.89	17.2
ZZ71137		0.28	<0.001	0.09	5.35	4.6	840	1.80	0.24	0.86	0.09	49.7	4.3	77	3.50	7.6
ZZ71138		0.25	0.001	0.12	4.43	4.9	760	1.42	0.35	1.35	0.07	57.7	6.8	67	3.74	18.6
ZZ71139		0.29	0.001	1.54	5.00	3.7	1000	2.00	0.35	1.30	0.08	79.4	6.5	81	3.84	15.4
ZZ71140		0.25	<0.001	0.05	5.12	3.6	860	2.04	0.37	0.91	0.12	52.7	5.7	103	3.56	9.7
ZZ71141		0.24	0.001	0.54	5.79	4.2	860	2.30	0.51	1.29	0.22	82.6	7.9	75	4.06	26.9
ZZ71142		0.24	0.001	0.17	6.35	3.5	1150	2.01	0.31	1.72	0.46	85.7	9.0	83	4.08	19.0
ZZ71143		0.26	<0.001	0.04	5.88	5.7	890	2.16	0.43	0.82	0.12	70.0	7.5	85	6.30	17.3
ZZ71144		0.32	<0.001	0.05	5.84	4.2	830	2.37	0.26	0.90	0.09	55.7	4.8	64	3.70	7.5
ZZ71145		0.23	0.001	0.06	5.79	5.1	850	2.23	0.32	0.75	0.16	59.6	4.6	94	4.08	7.3
ZZ71146		0.24	0.001	0.06	5.44	3.6	800	2.88	0.29	0.83	0.11	66.0	3.8	65	4.00	6.1
ZZ71147		0.20	<0.001	0.04	5.43	3.5	770	2.58	0.29	0.76	0.08	63.3	3.6	67	3.91	7.7
ZZ71148		0.27	0.002	0.08	5.16	5.1	830	2.42	0.46	0.91	0.07	50.9	6.7	76	5.73	18.3
ZZ71149		0.24	<0.001	0.05	5.36	5.1	870	2.35	0.38	0.81	0.09	57.0	7.1	87	5.04	8.7
ZZ71150		0.13	0.001	0.02	5.51	5.6	860	2.84	0.34	1.19	0.14	67.6	8.9	100	5.23	10.2
ZZ71151		0.23	0.018	0.08	5.99	2.7	1300	2.76	0.87	2.07	0.26	92.1	16.5	169	6.50	21.2
ZZ71152		0.18	0.001	0.06	5.38	7.8	830	1.98	0.92	2.00	0.26	62.1	13.2	176	10.10	25.1
ZZ71153		0.25	0.001	0.05	5.32	3.9	930	2.21	0.46	1.45	0.18	64.9	7.9	123	8.59	12.4
ZZ71154		0.26	<0.001	0.02	5.00	4.3	980	1.91	0.38	1.42	0.24	50.1	8.9	98	4.32	15.0



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CERTIFICATE OF ANALYSIS WH13158580

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
ZZ71115		1.68	17.10	0.10	2.1	0.047	1.66	20.4	21.8	0.91	171	3.71	1.20	11.8	28.2	790
ZZ71116		1.89	10.85	0.22	2.7	0.035	0.93	85.9	11.5	0.35	513	5.32	1.05	4.2	33.8	3180
ZZ71117		2.01	14.60	0.08	1.7	0.033	1.27	18.9	19.5	1.35	260	6.30	0.98	9.9	31.0	1760
ZZ71118		2.20	13.35	0.10	1.7	0.041	1.39	27.9	19.1	0.77	215	6.20	0.79	7.5	39.7	1300
ZZ71119		1.42	16.80	0.14	2.7	0.034	1.71	52.2	16.4	0.44	231	2.39	1.48	10.5	14.7	1090
ZZ71120		2.55	20.6	0.10	2.5	0.063	2.62	43.3	20.1	0.45	77	8.13	0.40	12.7	44.2	710
ZZ71121		2.01	18.00	0.11	2.1	0.046	1.67	33.4	21.5	0.64	166	6.64	1.21	13.2	27.8	1030
ZZ71122		1.81	21.7	0.10	2.2	0.040	1.87	34.2	23.7	0.55	188	5.53	1.43	18.6	30.3	670
ZZ71123		1.16	19.90	0.11	2.1	0.049	1.80	50.1	18.5	0.30	135	7.00	1.47	18.0	12.1	650
ZZ71124		2.41	19.40	0.11	2.4	0.045	2.21	36.2	21.5	0.62	133	17.05	1.01	16.1	39.4	1060
ZZ71125		1.68	21.3	0.11	2.2	0.036	1.86	27.7	20.8	0.72	193	4.36	1.58	17.8	41.3	760
ZZ71126		1.71	17.35	0.09	2.0	0.030	1.53	24.3	25.0	0.51	171	7.62	1.17	14.3	27.2	720
ZZ71127		1.98	21.2	0.11	2.2	0.050	2.07	37.5	25.9	0.75	276	5.02	1.41	18.8	20.2	810
ZZ71128		1.46	17.00	0.08	2.2	0.034	1.45	20.7	17.9	0.86	194	6.65	1.62	13.1	42.1	910
ZZ71129		2.34	16.10	0.13	1.7	0.053	1.67	41.9	31.6	0.98	339	13.20	1.47	14.7	72.1	1170
ZZ71130		1.44	16.75	0.09	1.8	0.019	0.70	18.4	16.1	1.34	119	6.04	2.02	12.1	64.2	720
ZZ71131		1.68	17.85	0.08	2.4	0.049	1.50	21.4	15.2	0.76	160	4.38	1.48	15.3	25.6	600
ZZ71132		2.84	20.0	0.23	3.2	0.068	1.44	144.5	29.9	0.99	308	7.67	1.19	13.8	57.5	2030
ZZ71133		1.52	14.45	0.09	2.0	0.038	1.23	23.7	16.4	0.71	194	3.89	1.38	13.3	24.6	1280
ZZ71134		1.59	15.85	0.09	2.2	0.048	1.24	25.4	15.3	0.87	142	3.28	1.54	13.3	29.9	2300
ZZ71135		1.32	17.20	0.10	3.1	0.028	1.76	25.0	16.8	0.48	282	6.71	2.05	10.0	11.1	1150
ZZ71136		1.40	17.20	0.09	2.5	0.042	1.46	26.1	15.9	0.60	203	4.76	1.68	14.0	22.1	910
ZZ71137		1.91	17.15	0.08	2.3	0.048	1.25	26.3	19.9	0.70	145	2.20	1.69	13.9	26.2	1700
ZZ71138		1.66	12.70	0.12	2.3	0.042	0.89	39.3	17.7	0.64	555	6.16	1.39	10.8	32.9	2460
ZZ71139		1.69	15.40	0.13	2.3	0.054	1.22	56.4	20.4	0.89	215	3.18	1.50	13.7	36.8	2390
ZZ71140		1.86	16.45	0.11	2.4	0.055	1.51	27.4	16.0	0.81	243	1.71	1.51	16.7	36.2	960
ZZ71141		2.47	17.50	0.10	2.6	0.058	1.44	38.7	21.5	0.62	476	11.30	1.54	10.8	35.9	3070
ZZ71142		2.51	18.15	0.13	2.7	0.053	1.63	46.8	30.3	0.97	380	4.11	1.64	13.6	47.7	1800
ZZ71143		2.58	20.9	0.11	3.1	0.074	1.54	35.3	35.7	0.68	548	4.82	1.50	16.6	36.8	1190
ZZ71144		2.00	19.05	0.11	2.9	0.063	1.64	28.6	23.1	0.65	188	1.75	1.60	15.8	27.7	1200
ZZ71145		2.35	20.3	0.10	2.7	0.058	1.54	30.8	19.7	0.69	176	1.65	1.66	17.5	27.0	990
ZZ71146		1.63	18.75	0.10	2.7	0.057	1.43	34.0	19.3	0.59	161	1.36	1.77	16.9	22.2	930
ZZ71147		1.63	18.30	<0.05	2.6	0.054	1.44	29.8	19.9	0.56	164	1.74	1.60	15.5	20.8	900
ZZ71148		2.13	16.50	0.06	2.0	0.055	1.52	24.4	30.3	0.74	337	2.36	1.59	14.8	31.8	1030
ZZ71149		2.81	18.35	0.06	2.1	0.057	1.66	25.5	36.8	0.94	270	2.08	1.47	18.6	33.7	910
ZZ71150		3.04	16.50	0.09	1.8	0.058	1.77	31.4	40.7	1.03	372	2.00	1.51	17.2	42.2	1120
ZZ71151		2.49	17.30	0.11	2.1	0.062	1.38	49.5	27.2	1.52	303	2.52	1.57	20.3	65.4	1770
ZZ71152		3.94	17.70	0.10	2.1	0.093	1.17	29.8	16.9	1.35	505	4.81	1.29	22.4	51.8	2640
ZZ71153		2.49	15.60	0.07	2.0	0.061	1.39	31.6	27.1	1.06	265	3.60	1.35	17.8	45.9	2000
ZZ71154		1.87	14.20	<0.05	1.9	0.043	1.23	24.2	20.5	1.08	277	2.80	1.41	13.7	48.1	2450



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ71115		14.6	96.7	<0.002	0.02	0.37	8.9	1	2.7	74.8	0.88	<0.05	7.3	0.277	2.7
ZZ71116		11.1	38.6	0.027	0.23	0.42	10.8	9	0.7	316	0.35	0.05	36.6	0.145	27.0
ZZ71117		9.5	54.0	0.002	0.02	0.25	9.1	2	1.8	77.5	0.77	<0.05	5.9	0.281	5.0
ZZ71118		14.0	68.7	0.003	0.07	0.25	7.8	3	1.4	67.3	0.57	0.05	8.7	0.204	4.7
ZZ71119		14.6	61.9	<0.002	0.08	0.35	7.1	3	2.0	291	0.87	<0.05	9.0	0.286	4.7
ZZ71120		28.7	124.0	<0.002	0.09	0.28	11.7	5	2.6	94.9	1.01	0.12	10.4	0.322	4.4
ZZ71121		19.1	78.1	<0.002	0.04	0.49	9.1	2	5.5	115.5	1.05	<0.05	10.4	0.322	3.6
ZZ71122		25.9	83.9	<0.002	0.01	0.46	8.8	1	4.5	96.6	1.72	<0.05	12.1	0.419	3.4
ZZ71123		19.6	78.3	<0.002	0.03	0.37	8.2	2	5.6	100.5	1.55	<0.05	15.0	0.332	3.7
ZZ71124		21.4	110.0	<0.002	0.05	0.48	9.7	3	3.6	100.0	1.55	0.06	11.9	0.327	4.3
ZZ71125		15.5	91.2	<0.002	0.01	0.36	9.2	1	4.1	100.5	1.56	0.06	9.8	0.376	2.5
ZZ71126		15.0	85.1	0.002	0.03	0.34	8.3	1	3.0	84.7	1.20	<0.05	9.1	0.344	3.2
ZZ71127		24.8	97.4	<0.002	0.01	0.40	9.8	1	4.8	153.5	1.90	<0.05	11.8	0.472	2.3
ZZ71128		10.9	97.9	0.003	0.01	0.34	7.8	1	2.7	141.0	1.20	<0.05	6.5	0.309	2.9
ZZ71129		19.4	92.7	0.004	0.02	0.39	9.7	3	3.6	149.0	1.30	<0.05	14.5	0.335	13.1
ZZ71130		5.0	37.4	0.003	0.03	0.16	10.6	2	1.1	100.0	0.97	<0.05	9.8	0.342	8.9
ZZ71131		9.2	93.1	<0.002	0.01	0.37	7.9	1	3.8	83.6	1.31	<0.05	7.7	0.325	2.5
ZZ71132		16.1	84.3	0.003	0.03	0.55	11.2	3	4.0	87.1	1.14	0.06	27.5	0.287	12.1
ZZ71133		11.2	64.6	<0.002	<0.01	0.35	7.2	1	3.1	88.1	1.13	<0.05	8.1	0.293	2.1
ZZ71134		8.2	56.2	0.002	0.01	0.41	7.5	1	3.2	95.5	1.08	<0.05	8.3	0.288	2.8
ZZ71135		11.7	64.7	<0.002	0.04	0.37	5.5	1	2.0	321	0.84	<0.05	8.0	0.233	3.4
ZZ71136		12.3	70.3	<0.002	0.02	0.37	7.3	1	3.3	182.0	1.13	<0.05	8.3	0.302	2.8
ZZ71137		9.9	58.4	<0.002	0.01	0.35	7.3	1	4.5	80.3	1.14	<0.05	10.7	0.259	2.5
ZZ71138		12.0	42.6	<0.002	0.01	0.42	6.9	1	2.5	122.5	0.87	<0.05	10.3	0.235	4.4
ZZ71139		10.2	56.7	<0.002	0.01	0.40	8.6	2	3.8	93.1	1.08	<0.05	14.0	0.279	5.7
ZZ71140		12.9	72.1	<0.002	0.01	0.38	7.7	1	4.3	100.0	1.85	<0.05	10.1	0.309	2.7
ZZ71141		22.8	58.4	<0.002	0.11	0.45	8.5	2	2.5	251	0.86	<0.05	18.3	0.248	5.7
ZZ71142		14.4	68.4	0.003	0.10	0.41	9.0	3	2.9	250	1.07	<0.05	13.1	0.303	7.8
ZZ71143		14.3	80.3	<0.002	0.01	0.48	8.4	1	5.4	119.5	1.37	<0.05	18.9	0.299	3.5
ZZ71144		11.9	76.0	<0.002	0.01	0.34	7.3	1	5.3	106.5	1.35	<0.05	12.5	0.278	2.8
ZZ71145		13.9	75.8	<0.002	0.01	0.39	8.0	1	5.4	84.3	1.44	<0.05	12.1	0.319	2.6
ZZ71146		10.5	74.7	<0.002	0.01	0.33	7.4	1	5.5	89.6	1.38	<0.05	12.8	0.300	2.7
ZZ71147		10.6	75.6	<0.002	0.01	0.28	7.6	1	5.9	104.0	1.28	<0.05	11.5	0.274	2.6
ZZ71148		15.7	70.7	<0.002	0.01	0.36	8.3	2	5.2	126.5	1.18	<0.05	14.2	0.273	2.7
ZZ71149		15.5	75.4	<0.002	0.01	0.42	9.6	2	5.7	100.5	1.49	<0.05	10.0	0.367	2.3
ZZ71150		18.3	81.3	<0.002	0.01	0.44	10.4	2	4.6	135.5	1.49	<0.05	11.4	0.376	2.2
ZZ71151		12.1	66.0	0.005	0.04	0.30	13.2	3	4.8	127.5	1.48	<0.05	18.4	0.390	32.2
ZZ71152		10.6	71.6	<0.002	0.06	0.44	13.8	3	4.9	121.0	1.65	0.10	12.9	0.458	3.9
ZZ71153		13.0	82.9	0.004	0.04	0.31	11.0	3	4.4	121.0	1.57	<0.05	12.5	0.365	6.4
ZZ71154		9.4	57.8	0.002	0.01	0.39	9.0	2	3.7	108.5	1.07	<0.05	10.0	0.284	3.2



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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
ZZ71115		212	1.7	13.7	76	75.9
ZZ71116		52	0.6	46.9	64	98.1
ZZ71117		270	1.7	16.8	113	60.5
ZZ71118		193	1.2	12.8	197	62.1
ZZ71119		105	1.3	16.6	56	100.5
ZZ71120		350	2.4	9.3	320	96.2
ZZ71121		220	4.1	14.6	67	79.4
ZZ71122		169	2.6	13.2	56	79.7
ZZ71123		101	2.1	12.1	23	74.1
ZZ71124		219	2.3	12.2	62	85.2
ZZ71125		148	2.3	13.5	41	75.9
ZZ71126		165	2.5	12.0	39	71.5
ZZ71127		107	3.2	15.3	37	72.5
ZZ71128		379	2.1	14.6	43	80.7
ZZ71129		172	1.5	25.9	49	61.6
ZZ71130		144	0.6	15.5	23	63.3
ZZ71131		226	1.7	12.2	35	81.6
ZZ71132		282	1.7	51.0	82	108.5
ZZ71133		186	1.5	13.8	35	69.3
ZZ71134		216	1.4	15.2	41	76.9
ZZ71135		100	3.6	10.5	33	112.5
ZZ71136		140	1.4	12.8	32	89.7
ZZ71137		170	1.5	13.1	36	78.4
ZZ71138		151	1.1	19.5	46	71.1
ZZ71139		199	1.5	28.1	54	76.0
ZZ71140		116	1.9	14.0	44	85.2
ZZ71141		93	1.4	15.9	56	91.5
ZZ71142		129	1.5	21.9	111	95.4
ZZ71143		158	1.8	14.1	74	101.5
ZZ71144		127	1.7	13.9	34	101.5
ZZ71145		158	1.9	13.7	34	93.2
ZZ71146		136	1.8	14.3	30	86.0
ZZ71147		115	2.3	12.5	31	88.5
ZZ71148		113	1.6	13.5	56	70.6
ZZ71149		142	2.3	12.4	57	71.1
ZZ71150		94	2.2	16.3	61	58.8
ZZ71151		140	1.8	27.4	96	72.0
ZZ71152		173	1.9	14.6	52	71.2
ZZ71153		134	2.1	17.5	72	66.9
ZZ71154		183	1.5	16.1	62	65.7



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ71155		0.31	0.001	0.18	6.15	6.4	710	2.14	0.88	3.74	1.97	124.5	21.2	429	48.8	31.8
ZZ71156		0.20	0.001	0.31	6.21	9.3	1300	2.07	0.49	2.20	1.78	88.6	12.2	94	14.20	69.4
ZZ71157		0.18	<0.001	0.14	5.51	3.9	1060	2.36	0.30	1.36	0.12	69.7	6.4	87	4.31	10.2
ZZ71158		0.22	0.002	0.02	5.14	4.3	960	1.85	0.34	1.02	0.16	59.8	6.9	99	3.61	8.1
ZZ71159		0.22	0.001	0.01	5.72	3.5	1220	2.31	0.28	1.44	0.24	101.5	10.2	123	3.63	15.6
ZZ71160		0.28	0.001	0.02	6.05	3.9	1250	2.21	0.32	1.42	0.19	77.8	9.7	114	3.73	16.6
ZZ71161		0.22	<0.001	0.07	4.88	2.7	920	1.86	0.30	1.10	0.10	50.3	6.0	101	3.38	10.3
ZZ71162		0.19	0.001	0.07	5.07	2.1	880	1.89	0.28	0.97	0.09	47.0	4.7	82	3.87	7.1
ZZ71163		0.20	<0.001	0.14	5.50	3.1	810	2.54	0.27	1.26	0.13	51.4	6.1	65	3.11	12.4
ZZ71164		0.29	0.001	0.03	6.01	3.5	1180	2.29	0.37	1.24	0.19	78.2	9.5	133	4.96	14.4
ZZ71165		0.24	0.001	0.04	6.08	4.3	1100	2.65	0.45	1.13	0.18	76.5	9.6	104	5.21	14.7
ZZ71166		0.22	<0.001	<0.01	5.85	7.2	1630	2.13	0.51	0.67	0.15	39.5	3.7	68	11.60	6.0
ZZ71167		0.16	0.002	0.24	5.51	6.8	900	1.93	0.43	2.34	1.56	107.0	7.1	36	8.94	45.3
ZZ71168		0.10	0.001	0.37	5.25	2.9	900	2.00	0.55	2.10	2.54	129.0	12.6	47	16.50	78.4
ZZ71169		0.19	0.002	0.24	5.62	23.1	1300	2.14	0.45	2.01	2.33	119.0	34.0	71	51.1	215
ZZ71170		0.12	<0.001	0.37	3.93	1.3	800	1.85	0.34	3.61	1.42	177.0	4.6	32	10.15	257
ZZ71171		0.15	0.001	0.24	5.60	0.9	910	1.27	0.16	2.82	1.90	97.0	9.4	26	9.42	105.0
ZZ71172		0.28	<0.001	0.08	7.37	6.2	3360	2.31	0.18	0.78	2.08	61.5	15.4	76	39.7	50.1
ZZ71173		0.11	0.003	1.97	5.27	4.7	940	1.37	0.36	1.74	2.81	63.9	4.7	34	11.30	81.2
ZZ71174		0.21	<0.001	0.23	5.16	3.7	1570	1.81	0.26	0.47	0.15	35.1	3.5	122	6.83	10.1
ZZ71175		0.21	<0.001	0.86	7.86	6.6	2460	3.21	1.56	0.56	0.28	132.0	2.3	104	11.10	12.1
ZZ71176		0.15	0.002	1.11	4.60	1.8	730	1.09	0.13	2.14	2.30	103.0	3.0	8	1.78	102.0
ZZ71177		0.16	<0.001	0.07	4.48	3.9	970	2.08	0.33	0.80	0.25	58.1	7.5	104	8.69	18.1
ZZ71178		0.11	<0.001	0.48	7.36	3.3	1640	3.04	0.39	0.99	5.67	229	18.0	79	33.4	252
ZZ71179		0.20	0.001	0.05	4.76	3.9	640	1.95	0.31	1.07	0.23	78.1	7.0	71	8.41	82.9
ZZ71180		0.20	0.002	0.14	5.31	19.5	1010	2.51	0.34	1.66	0.26	61.3	10.2	76	9.59	27.3
ZZ71181		0.19	0.001	<0.01	6.04	3.2	1400	2.12	0.33	0.77	0.11	50.0	3.6	65	10.35	11.0
ZZ71182		0.23	0.001	0.04	5.52	3.6	1280	2.29	0.34	0.91	0.16	57.8	5.6	78	8.57	14.4
ZZ71183		0.10	0.003	0.17	6.41	7.5	1410	2.66	0.42	1.95	0.39	96.5	7.9	65	15.80	44.4
ZZ71184		0.10	<0.001	0.26	1.55	5.7	530	1.03	0.31	3.07	0.63	196.5	5.1	11	1.55	96.5
ZZ71185		0.16	0.002	0.13	5.00	6.2	2080	1.72	0.19	1.58	0.68	95.6	8.0	65	8.84	89.9
ZZ71186		0.19	0.002	0.31	4.20	6.8	1240	1.69	0.38	1.65	0.81	50.6	5.0	69	10.45	62.9
ZZ71187		0.11	0.002	0.25	4.30	6.7	860	1.61	0.38	2.22	0.94	55.5	6.4	54	10.15	43.6
ZZ71188		0.18	<0.001	0.08	6.43	6.4	2250	2.80	0.19	0.30	0.28	35.4	6.4	89	21.5	15.5
ZZ71189		0.16	<0.001	0.14	5.83	6.5	1410	2.25	0.38	0.82	0.38	50.3	5.8	60	31.2	15.8
ZZ71190		0.19	0.003	0.33	6.69	2.8	880	1.16	0.17	1.62	0.10	33.9	4.8	13	2.54	23.1
ZZ71191		0.21	0.002	0.30	5.66	13.1	1420	1.79	0.35	0.87	0.45	38.5	4.7	84	6.61	36.3
ZZ71192		0.27	<0.001	0.06	8.73	122.5	3170	4.14	0.42	0.41	2.17	46.7	21.2	121	31.1	82.9
ZZ71193		0.17	0.001	0.16	6.85	6.4	1690	2.62	0.73	1.55	0.23	66.8	8.8	84	21.4	18.4
ZZ71194		0.15	0.002	0.53	5.93	9.0	1600	2.86	0.96	1.53	0.81	177.5	12.8	84	19.35	195.5



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	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
ZZ71155		4.83	21.4	0.22	1.9	0.159	1.04	53.0	37.8	3.88	1140	11.10	1.03	41.0	2640
ZZ71156		2.50	15.35	0.18	2.2	0.052	1.18	60.0	57.5	1.20	321	16.30	1.26	10.3	3120
ZZ71157		2.28	16.55	0.06	2.3	0.055	1.55	33.8	28.3	1.07	266	6.12	1.36	16.9	1280
ZZ71158		2.66	15.60	0.05	2.1	0.057	1.47	29.4	20.7	0.96	304	2.00	1.36	16.4	840
ZZ71159		2.39	15.75	0.10	2.2	0.061	1.72	46.8	23.6	1.25	439	1.47	1.54	21.0	1610
ZZ71160		2.59	16.95	0.07	2.1	0.063	1.72	36.7	25.9	1.35	382	1.58	1.48	18.7	1850
ZZ71161		1.83	14.55	<0.05	1.8	0.049	1.34	24.8	16.2	0.93	272	1.58	1.43	13.4	830
ZZ71162		1.59	15.55	<0.05	2.0	0.044	1.55	23.0	18.5	0.82	247	1.37	1.55	14.4	810
ZZ71163		2.12	14.95	<0.05	2.4	0.046	1.55	24.9	21.7	0.77	339	2.25	1.77	12.7	2080
ZZ71164		2.71	17.45	0.10	2.0	0.065	1.83	37.5	28.4	1.35	381	1.46	1.53	18.6	1280
ZZ71165		2.83	17.70	0.07	2.0	0.064	1.78	37.6	29.0	1.27	412	1.67	1.54	17.9	960
ZZ71166		1.90	19.40	<0.05	2.5	0.037	1.44	19.8	37.1	0.98	143	3.41	1.74	13.7	940
ZZ71167		1.84	15.25	0.13	3.0	0.035	1.57	63.0	26.7	0.68	743	6.15	1.62	7.8	1180
ZZ71168		1.86	16.85	0.16	2.7	0.054	1.37	101.0	29.5	0.51	500	6.82	1.10	10.1	1740
ZZ71169		8.01	20.9	0.33	2.7	0.088	2.56	80.3	105.0	4.45	844	29.1	0.71	11.7	5730
ZZ71170		1.48	11.30	0.28	1.6	0.019	0.92	147.5	34.7	0.46	391	3.63	1.00	4.7	1430
ZZ71171		2.15	15.25	0.14	2.9	0.023	1.40	72.3	22.4	1.02	424	2.97	1.77	6.2	1180
ZZ71172		4.17	22.2	0.15	2.0	0.059	2.55	32.8	91.1	3.22	410	8.72	1.31	14.4	1390
ZZ71173		1.93	14.45	0.12	2.8	0.035	1.44	31.3	32.9	0.50	275	3.56	1.44	5.8	1620
ZZ71174		1.22	15.85	<0.05	2.1	0.027	1.38	17.5	17.7	0.63	107	6.09	1.66	12.3	430
ZZ71175		1.24	25.7	0.13	3.9	0.058	3.48	72.5	35.7	0.60	179	12.90	0.97	22.1	710
ZZ71176		1.23	11.05	0.19	2.6	0.016	1.26	70.8	14.0	0.34	216	1.96	1.58	3.8	1470
ZZ71177		1.79	16.10	0.05	1.6	0.038	1.40	28.5	39.7	0.70	349	6.98	1.09	13.9	300
ZZ71178		2.97	21.3	0.24	2.4	0.093	2.09	106.0	56.3	0.80	934	10.00	1.66	9.1	900
ZZ71179		1.91	15.25	0.06	2.0	0.033	0.80	54.6	37.8	1.39	194	5.10	1.59	8.9	570
ZZ71180		2.63	14.35	0.07	1.9	0.045	1.57	31.4	34.5	0.97	556	12.85	1.26	12.7	1630
ZZ71181		1.70	17.90	<0.05	2.8	0.034	1.84	26.5	38.8	0.81	144	2.92	1.36	11.8	1180
ZZ71182		1.77	15.85	<0.05	2.2	0.039	1.82	29.3	36.3	1.00	233	2.96	1.31	12.2	1500
ZZ71183		2.29	19.95	0.18	2.7	0.059	1.97	57.7	41.3	1.01	434	4.13	1.09	10.4	1290
ZZ71184		1.04	4.56	0.35	0.7	0.020	0.22	129.5	3.1	0.18	1030	7.20	0.21	1.3	2150
ZZ71185		2.08	13.85	0.18	1.8	0.034	1.19	51.3	21.5	1.17	220	11.00	1.49	9.9	2040
ZZ71186		1.60	11.90	0.14	1.7	0.031	1.05	30.9	25.9	0.98	328	8.35	0.99	8.7	1610
ZZ71187		1.73	11.30	0.12	1.5	0.031	0.83	30.3	35.5	1.02	390	7.87	1.27	7.2	1080
ZZ71188		2.58	20.0	0.11	2.5	0.022	2.60	16.0	66.7	1.27	163	3.02	0.58	14.0	370
ZZ71189		1.41	16.30	0.10	2.3	0.031	1.98	25.4	34.7	0.53	418	4.01	1.22	11.7	600
ZZ71190		1.87	16.75	0.09	3.3	0.018	1.93	17.8	18.1	0.50	330	2.01	2.38	5.5	1650
ZZ71191		2.04	15.90	0.09	2.4	0.030	1.60	20.1	23.1	0.73	212	6.54	1.30	11.1	1990
ZZ71192		5.89	27.5	0.15	2.7	0.070	3.23	20.3	179.0	2.06	264	37.9	0.27	8.4	2620
ZZ71193		2.43	21.5	0.12	2.7	0.048	1.96	33.8	52.2	1.45	342	3.13	1.34	11.9	1410
ZZ71194		3.12	16.95	0.47	2.4	0.057	1.59	187.0	50.1	1.42	519	2.49	0.97	10.9	1420



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ71155		7.4	82.7	0.009	0.09	0.43	22.4	9	6.2	386	2.62	0.08	8.6	0.820	32.2
ZZ71156		12.4	58.8	0.047	0.20	0.47	11.3	14	2.3	197.5	0.80	<0.05	15.7	0.244	41.3
ZZ71157		12.2	72.3	0.005	0.05	0.29	10.2	3	4.5	122.0	1.34	<0.05	15.2	0.325	5.8
ZZ71158		12.5	66.3	<0.002	0.01	0.35	9.1	1	3.8	118.5	1.32	<0.05	9.5	0.349	2.5
ZZ71159		13.8	76.2	<0.002	<0.01	0.43	11.0	2	3.9	152.0	1.64	<0.05	13.5	0.399	2.8
ZZ71160		14.1	77.1	<0.002	<0.01	0.43	11.8	2	3.9	147.0	1.40	<0.05	11.9	0.399	3.0
ZZ71161		10.8	62.3	<0.002	0.01	0.36	8.8	2	3.0	137.5	1.00	<0.05	8.1	0.301	2.2
ZZ71162		12.2	68.1	<0.002	0.02	0.30	8.5	1	3.5	153.0	1.10	<0.05	8.0	0.301	2.2
ZZ71163		13.8	63.0	<0.002	0.02	0.35	8.4	2	2.8	226	1.00	<0.05	9.8	0.286	2.9
ZZ71164		15.0	88.4	<0.002	<0.01	0.40	11.6	2	4.3	144.5	1.44	<0.05	13.4	0.400	2.7
ZZ71165		16.0	85.9	<0.002	0.01	0.35	11.1	2	4.3	135.0	1.41	<0.05	12.1	0.385	2.6
ZZ71166		10.4	83.1	<0.002	0.01	0.17	9.0	1	5.8	81.4	1.06	0.05	7.4	0.313	2.8
ZZ71167		12.0	62.7	0.009	0.10	0.54	6.7	6	2.4	344	0.61	<0.05	15.4	0.204	64.6
ZZ71168		18.0	78.6	0.005	0.09	0.31	9.6	4	3.7	233	0.71	<0.05	27.9	0.228	43.7
ZZ71169		42.4	166.5	0.010	0.04	0.42	11.8	9	3.1	135.5	0.76	0.18	15.0	0.300	45.3
ZZ71170		8.3	53.9	0.012	0.14	0.31	8.0	9	4.4	183.5	0.37	<0.05	25.2	0.120	95.1
ZZ71171		7.7	47.7	0.008	0.09	0.35	7.1	6	1.1	406	0.47	<0.05	12.6	0.236	55.6
ZZ71172		3.9	99.1	0.003	0.02	0.14	11.9	4	4.8	51.2	0.99	0.05	11.0	0.363	5.1
ZZ71173		15.8	60.1	0.011	0.13	0.45	7.0	10	1.9	332	0.45	0.06	10.9	0.181	14.1
ZZ71174		11.9	65.5	<0.002	0.01	0.20	8.9	2	2.8	87.2	0.97	0.05	6.2	0.280	2.9
ZZ71175		46.2	168.0	0.002	0.09	0.51	13.3	8	7.4	240	1.71	0.10	13.4	0.442	5.5
ZZ71176		7.4	33.2	0.011	0.14	0.48	4.1	10	0.6	366	0.32	<0.05	6.2	0.123	29.5
ZZ71177		16.1	74.9	<0.002	<0.01	0.26	8.5	2	3.4	111.5	1.26	0.05	7.8	0.335	4.7
ZZ71178		24.0	88.5	0.003	0.03	0.35	16.4	4	2.9	174.5	0.70	0.05	30.1	0.281	39.5
ZZ71179		16.5	45.1	0.005	0.03	0.16	9.5	3	2.0	76.8	0.71	0.06	12.8	0.261	9.9
ZZ71180		16.8	76.4	0.009	0.07	0.42	9.9	5	3.4	169.0	1.00	<0.05	12.6	0.304	26.0
ZZ71181		11.4	88.2	<0.002	0.01	0.15	8.7	1	4.8	111.5	0.88	0.05	9.5	0.248	4.4
ZZ71182		11.3	87.1	0.002	0.01	0.21	9.2	2	5.0	94.0	0.98	<0.05	10.9	0.268	3.2
ZZ71183		10.3	102.0	0.025	0.10	0.56	9.9	7	4.9	213	0.74	<0.05	19.5	0.245	27.7
ZZ71184		7.0	8.5	0.014	0.26	0.53	3.2	12	0.4	157.0	0.09	<0.05	9.8	0.043	95.0
ZZ71185		6.7	51.1	0.008	0.07	0.42	11.4	5	1.4	107.0	0.69	0.06	14.7	0.257	38.9
ZZ71186		9.9	54.4	0.012	0.13	0.50	9.4	6	2.2	120.0	0.58	0.06	12.0	0.215	83.5
ZZ71187		10.0	49.2	0.012	0.13	0.54	8.3	6	3.1	123.0	0.49	<0.05	11.6	0.209	127.5
ZZ71188		7.6	139.0	0.004	0.01	0.50	12.3	1	1.9	46.2	0.92	<0.05	7.5	0.403	2.8
ZZ71189		13.9	119.0	0.004	0.03	0.64	7.9	1	3.8	185.5	0.76	<0.05	7.5	0.285	2.7
ZZ71190		8.9	49.2	0.004	0.05	0.50	4.9	2	0.8	515	0.40	<0.05	5.2	0.204	4.1
ZZ71191		12.4	64.8	0.004	0.04	0.47	8.4	3	2.6	195.5	0.77	0.06	6.2	0.292	4.6
ZZ71192		32.8	110.5	0.007	0.01	0.52	20.7	5	3.2	63.2	0.61	0.12	8.1	0.353	20.3
ZZ71193		10.6	108.0	0.006	0.06	0.34	11.6	2	6.3	190.5	0.85	<0.05	18.6	0.282	11.5
ZZ71194		15.0	94.4	0.005	0.08	0.50	11.8	8	4.2	121.5	0.73	0.06	29.5	0.254	90.4



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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
ZZ71155		202	1.4	33.2	229	66.8
ZZ71156		141	1.4	59.4	656	76.2
ZZ71157		131	2.1	17.3	85	76.9
ZZ71158		129	2.0	14.2	56	70.6
ZZ71159		131	2.2	20.8	78	75.7
ZZ71160		152	2.0	19.6	83	74.4
ZZ71161		109	1.5	12.6	53	62.5
ZZ71162		82	1.7	11.4	41	71.3
ZZ71163		72	1.3	13.9	60	85.2
ZZ71164		118	5.9	19.5	85	71.1
ZZ71165		102	2.2	18.9	83	70.7
ZZ71166		198	2.1	14.1	49	85.6
ZZ71167		77	1.2	42.8	105	107.5
ZZ71168		88	1.5	42.6	76	90.0
ZZ71169		446	1.2	67.7	871	99.8
ZZ71170		67	1.0	89.0	37	54.8
ZZ71171		73	0.7	51.3	84	103.0
ZZ71172		112	2.0	18.8	336	75.4
ZZ71173		82	1.2	18.5	135	99.2
ZZ71174		220	1.9	9.7	43	75.7
ZZ71175		607	4.6	13.3	55	143.5
ZZ71176		25	0.5	57.5	88	91.2
ZZ71177		622	2.5	13.7	126	55.2
ZZ71178		130	1.6	50.3	891	85.1
ZZ71179		250	1.5	31.7	55	70.7
ZZ71180		115	1.7	23.1	122	66.4
ZZ71181		215	2.1	13.6	78	94.0
ZZ71182		177	2.0	16.4	104	78.3
ZZ71183		169	2.0	24.1	141	94.4
ZZ71184		28	0.3	71.1	29	26.1
ZZ71185		163	1.5	38.1	150	63.5
ZZ71186		178	1.5	30.6	64	63.3
ZZ71187		85	1.1	29.0	92	52.1
ZZ71188		207	3.2	12.5	63	86.0
ZZ71189		137	2.2	9.4	90	83.1
ZZ71190		55	0.7	8.1	51	118.5
ZZ71191		324	2.5	13.1	126	90.7
ZZ71192		675	3.7	23.6	890	102.5
ZZ71193		233	2.3	17.4	130	89.7
ZZ71194		174	2.0	138.0	212	80.3



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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
ZZ71195		0.15	0.001	0.19	6.73	8.2	1710	3.17	0.82	1.63	0.32	106.0	10.0	93	27.5	23.5
ZZ71196		0.14	0.001	0.10	5.69	2.7	1140	1.91	0.48	0.94	0.26	47.3	4.1	62	8.83	13.9
ZZ71197		0.17	0.001	0.17	4.81	1.5	950	1.32	0.26	2.97	0.30	47.1	4.8	31	4.69	22.0
ZZ71198		0.29	<0.001	0.05	7.40	1.5	310	2.49	0.69	0.45	0.09	66.0	3.7	7	15.90	6.9
ZZ71199		0.18	<0.001	0.19	7.90	6.5	1840	3.26	0.85	0.95	0.26	71.3	12.0	107	33.5	38.8
ZZ71200		0.11	0.004	0.18	3.91	2.5	630	0.96	0.14	3.49	1.68	58.8	3.7	11	2.78	85.0
ZZ71201		0.20	<0.001	0.06	5.16	4.2	810	2.03	0.25	0.79	0.18	54.1	4.6	64	2.92	7.0
ZZ71202		0.27	<0.001	0.04	4.86	3.4	690	2.24	0.32	0.95	0.07	41.6	5.3	68	4.14	8.9
ZZ71203		0.11	0.001	0.07	5.21	1.0	880	1.94	0.25	0.87	0.15	61.5	2.4	72	3.99	5.1
ZZ71204		0.18	<0.001	0.17	7.10	2.9	1100	1.60	0.23	1.30	0.07	45.5	6.2	45	5.57	17.4
ZZ71205		0.20	0.001	0.11	5.66	1.2	1020	1.66	0.15	1.05	0.10	41.1	3.0	44	3.18	10.0
ZZ71206		0.18	<0.001	0.04	5.00	3.0	1360	2.16	0.20	0.70	0.35	40.9	3.4	61	4.20	5.4
ZZ71207		0.18	0.001	0.07	4.97	6.1	1140	1.78	0.20	0.72	0.68	40.2	5.1	64	3.88	11.1
ZZ71208		0.22	<0.001	0.10	7.06	1.4	880	1.23	0.12	1.94	0.09	33.5	5.9	10	1.37	17.6
ZZ71209		0.13	<0.001	0.09	4.70	3.7	1260	1.78	0.19	0.58	0.08	36.8	2.6	63	4.10	7.9
ZZ71210		0.22	<0.001	0.04	4.96	3.3	1720	1.79	0.13	0.73	0.06	28.1	2.9	69	3.59	6.6
ZZ71211		0.32	0.001	0.02	4.68	7.3	1190	1.74	0.15	1.13	0.12	51.3	6.4	87	3.19	16.6
ZZ71212		0.20	<0.001	0.10	5.57	2.2	1040	1.35	0.14	1.39	0.06	32.6	4.2	40	2.52	13.3
ZZ71213		0.18	0.001	0.14	5.96	1.4	1060	1.51	0.22	1.35	0.15	40.0	4.8	34	6.82	24.9
ZZ71214		0.16	0.002	0.52	5.95	19.7	2130	2.16	0.30	0.72	0.21	76.6	2.9	76	4.98	23.8
ZZ71215		0.16	<0.001	0.58	6.11	68.4	2330	2.60	0.53	0.14	0.40	68.6	5.4	79	5.33	86.2
ZZ71216		0.12	0.001	0.44	6.80	4.4	870	1.17	0.19	1.83	0.07	40.3	4.8	11	1.84	22.7
ZZ71217		0.22	<0.001	0.06	7.39	2.1	1570	1.48	0.13	3.55	0.07	43.2	7.7	305	1.91	3.2
ZZ71218		0.24	0.001	0.04	6.33	12.4	1910	2.20	0.20	3.94	0.09	64.2	22.7	319	5.86	14.8
ZZ71219		0.26	<0.001	0.03	6.32	22.1	1440	2.66	0.21	3.30	0.13	98.2	23.1	285	5.93	20.4
ZZ71220		0.27	<0.001	0.05	5.87	7.5	1090	2.56	0.29	1.37	0.11	73.7	9.8	114	5.03	14.1
ZZ71221		0.31	0.001	0.04	6.00	6.0	1100	2.43	0.27	1.35	0.11	79.9	10.3	117	4.27	16.7
ZZ71222		0.35	<0.001	0.04	5.53	4.2	1010	1.72	0.26	0.97	0.05	53.8	4.6	84	5.12	5.6
ZZ71223		0.37	<0.001	0.04	5.50	3.1	860	2.04	0.30	0.89	0.07	68.0	4.1	70	4.36	6.5
ZZ71224		0.22	<0.001	0.06	5.67	7.2	810	2.13	0.50	0.63	0.09	59.8	5.2	77	5.28	6.8
ZZ71225		0.26	<0.001	0.01	5.97	4.6	1020	2.04	0.22	2.68	0.09	68.6	10.3	188	4.23	6.0
ZZ71226		0.26	<0.001	0.03	6.27	4.5	1050	2.67	0.22	1.08	0.06	90.2	6.1	77	3.43	10.7
ZZ71227		0.15	<0.001	0.07	5.48	1.3	790	1.77	0.23	0.87	0.03	65.4	2.7	54	3.98	6.6
ZZ71228		0.16	<0.001	0.04	5.17	1.5	760	2.10	0.25	0.72	0.06	64.3	2.9	59	3.93	3.9
ZZ71229		0.13	<0.001	0.05	5.47	1.3	740	2.12	0.20	0.42	<0.02	69.2	1.6	43	4.19	3.0
ZZ71230		0.15	<0.001	0.05	6.20	3.2	920	2.18	0.28	1.15	0.07	61.9	5.0	57	3.97	11.0
ZZ71231		0.18	0.001	0.07	5.64	4.0	870	2.74	0.33	0.75	0.11	65.3	4.3	88	5.06	6.2
ZZ71232		0.18	0.001	0.09	5.77	3.8	790	2.66	0.31	0.53	0.11	66.6	3.7	76	4.26	6.4
ZZ71233		0.20	0.002	0.53	6.10	16.7	970	2.86	1.16	0.61	0.73	73.6	21.4	117	20.9	65.1
ZZ71234		0.22	<0.001	0.14	5.87	11.9	1080	2.61	0.77	2.71	0.17	112.5	18.2	256	9.45	56.7



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		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
ZZ71195		2.74	20.8	0.18	2.4	0.069	2.02	55.1	60.0	1.56	616	2.95	0.97	13.6	56.2	1680
ZZ71196		1.61	16.70	0.10	2.4	0.033	1.64	24.7	26.9	0.82	218	2.59	1.62	10.8	19.9	690
ZZ71197		1.34	12.15	0.12	2.3	0.025	1.39	32.2	19.1	0.60	598	2.10	1.39	5.7	21.9	1070
ZZ71198		1.40	21.0	0.06	5.1	0.049	1.53	14.3	62.3	0.80	225	1.01	1.58	12.3	39.0	130
ZZ71199		2.83	26.2	0.11	2.9	0.059	2.35	34.7	59.3	1.62	1300	12.40	1.34	17.2	40.1	660
ZZ71200		1.03	9.54	0.20	2.1	0.012	1.12	48.3	11.4	0.31	404	4.53	1.30	3.3	59.0	1090
ZZ71201		1.76	15.55	0.10	2.3	0.045	1.15	26.4	24.9	0.68	151	1.59	1.66	13.8	27.6	1140
ZZ71202		1.70	12.65	0.10	1.5	0.035	1.33	20.7	22.6	0.68	291	1.77	1.56	11.3	28.9	1080
ZZ71203		0.99	15.60	0.10	2.3	0.032	1.58	29.7	14.9	0.42	207	1.13	1.67	15.5	12.1	290
ZZ71204		2.21	18.80	0.09	3.3	0.038	1.99	23.3	22.8	0.68	418	5.30	2.30	10.5	19.6	1100
ZZ71205		1.21	15.60	0.09	2.8	0.029	1.60	21.1	14.1	0.56	195	1.65	1.85	11.6	11.7	1170
ZZ71206		1.43	16.70	0.09	2.5	0.041	1.36	21.1	14.1	0.74	142	3.53	1.39	13.8	24.3	980
ZZ71207		1.99	14.70	0.09	2.1	0.040	1.12	20.9	17.2	0.91	178	4.70	1.22	12.2	33.1	1360
ZZ71208		1.88	17.50	0.10	3.5	0.015	2.00	17.1	17.5	0.63	370	1.66	2.65	5.8	6.4	780
ZZ71209		1.19	15.50	0.08	2.2	0.026	1.27	18.2	14.0	0.68	94	3.54	1.19	13.4	22.9	860
ZZ71210		1.34	14.65	0.07	2.1	0.023	1.46	13.8	14.0	0.94	104	3.56	1.12	12.2	25.1	1090
ZZ71211		1.88	13.20	0.09	1.8	0.033	1.07	25.5	20.2	1.28	211	3.57	1.18	11.7	58.4	1690
ZZ71212		1.44	15.20	0.08	2.6	0.022	1.52	17.1	15.8	0.72	248	2.17	1.86	8.1	16.2	1080
ZZ71213		1.65	15.70	0.09	2.6	0.022	1.65	23.1	18.0	0.76	241	2.37	1.77	8.2	13.6	1870
ZZ71214		1.60	18.15	0.13	2.8	0.038	2.17	40.7	17.5	0.36	124	9.22	0.88	12.9	20.7	660
ZZ71215		4.40	17.50	0.17	2.6	0.050	2.30	36.8	13.3	0.28	134	21.4	0.47	7.9	39.8	690
ZZ71216		1.74	16.65	0.11	3.5	0.018	1.93	21.7	17.8	0.50	333	3.50	2.44	5.4	7.8	840
ZZ71217		2.06	16.15	0.09	1.4	0.045	0.92	20.2	7.6	1.19	208	1.40	3.39	39.2	87.4	410
ZZ71218		4.63	16.60	0.12	1.9	0.092	1.20	31.9	23.8	3.02	456	2.09	1.10	30.6	170.5	1350
ZZ71219		4.64	17.00	0.17	1.9	0.103	1.15	58.5	28.1	2.64	480	1.99	1.24	27.5	179.0	1760
ZZ71220		2.47	18.10	0.17	2.5	0.057	1.34	38.6	23.4	1.11	274	2.69	1.56	17.4	56.3	1390
ZZ71221		2.54	17.95	0.17	2.4	0.071	1.40	44.1	24.8	1.16	283	2.45	1.59	17.4	58.3	1530
ZZ71222		1.69	17.85	0.17	2.2	0.060	1.36	28.0	17.2	0.69	171	2.30	1.65	17.1	26.0	520
ZZ71223		1.46	17.95	0.19	2.4	0.044	1.41	36.2	23.0	0.64	170	1.79	1.72	16.2	22.3	1010
ZZ71224		2.45	19.75	0.16	2.3	0.049	1.42	29.9	26.3	0.65	221	2.95	1.68	17.1	26.0	830
ZZ71225		2.73	17.45	0.15	2.3	0.082	1.22	34.0	19.7	1.49	297	1.22	1.68	21.7	89.0	1360
ZZ71226		1.83	19.95	0.20	2.6	0.060	1.49	44.3	23.2	0.82	239	1.41	2.27	17.7	36.4	1450
ZZ71227		1.08	16.60	0.17	2.4	0.026	1.58	32.6	15.9	0.41	213	1.30	1.94	13.4	10.7	320
ZZ71228		1.21	16.95	0.18	2.3	0.037	1.33	31.7	15.1	0.54	156	1.17	1.91	16.0	18.0	380
ZZ71229		0.83	19.65	0.19	3.0	0.042	1.39	33.9	13.4	0.37	83	1.23	2.13	17.1	10.7	190
ZZ71230		1.86	18.65	0.18	2.8	0.032	1.81	32.7	24.7	0.66	268	1.69	1.88	14.2	19.3	870
ZZ71231		1.96	17.85	0.18	2.1	0.040	1.61	34.1	24.7	0.65	198	2.07	1.57	15.8	26.5	550
ZZ71232		1.89	18.85	0.17	2.8	0.047	1.44	33.6	22.0	0.57	175	2.01	1.66	15.8	24.7	630
ZZ71233		4.20	22.6	0.17	2.4	0.081	1.44	37.8	33.8	0.54	5060	30.7	0.88	14.6	101.5	3740
ZZ71234		3.91	16.60	0.23	2.2	0.081	1.12	86.1	27.4	2.16	445	9.76	1.09	22.9	109.5	3640



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ71195		11.7	122.0	0.006	0.06	0.37	11.7	3	6.7	106.5	0.87	<0.05	24.2	0.276	36.3
ZZ71196		11.9	81.1	0.005	0.02	0.39	7.4	1	3.9	187.5	0.79	<0.05	8.3	0.261	4.0
ZZ71197		7.3	49.3	0.007	0.12	0.45	5.4	4	1.7	340	0.41	<0.05	12.9	0.161	33.0
ZZ71198		3.3	76.4	0.004	0.01	0.16	4.5	1	8.9	47.3	0.97	<0.05	17.1	0.124	3.4
ZZ71199		17.7	129.0	0.004	0.02	0.35	14.1	2	9.8	130.0	1.17	0.05	19.2	0.356	8.1
ZZ71200		5.5	32.0	0.015	0.15	0.55	3.4	6	0.5	333	0.24	<0.05	8.4	0.107	173.0
ZZ71201		7.9	55.1	0.006	0.01	0.38	7.4	1	4.9	72.8	0.92	<0.05	10.2	0.243	2.4
ZZ71202		11.9	64.8	0.004	0.01	0.33	6.4	1	3.3	108.0	0.85	<0.05	8.0	0.237	1.9
ZZ71203		9.4	81.5	0.005	0.01	0.33	7.0	1	4.2	155.5	1.21	<0.05	9.4	0.327	2.3
ZZ71204		9.1	79.1	0.003	0.03	0.51	7.0	1	2.1	373	0.73	<0.05	9.4	0.268	4.0
ZZ71205		7.3	91.7	0.004	0.03	0.37	6.6	1	2.7	236	0.82	<0.05	7.6	0.261	2.7
ZZ71206		7.8	85.1	0.004	0.01	0.40	8.0	1	4.0	81.5	0.96	<0.05	7.7	0.277	2.7
ZZ71207		8.9	61.3	0.004	0.02	0.47	7.9	1	2.8	81.5	0.83	<0.05	6.5	0.273	2.5
ZZ71208		8.5	48.6	0.003	0.02	0.47	5.2	1	0.8	587	0.43	<0.05	4.9	0.238	2.1
ZZ71209		10.7	61.7	0.004	0.02	0.50	8.0	1	2.9	65.8	0.93	<0.05	7.0	0.285	2.8
ZZ71210		4.6	69.1	0.005	0.01	0.32	8.0	1	2.3	65.5	0.83	<0.05	5.2	0.275	2.6
ZZ71211		8.0	50.5	0.004	0.01	0.58	8.9	1	1.8	99.6	0.79	<0.05	7.4	0.287	3.3
ZZ71212		7.5	47.4	0.004	0.02	0.43	6.3	1	1.5	331	0.58	<0.05	5.5	0.247	2.6
ZZ71213		10.6	74.4	0.003	0.06	0.40	6.6	1	1.2	316	0.58	<0.05	6.7	0.252	4.1
ZZ71214		14.0	102.5	0.004	0.05	0.45	10.1	2	2.8	154.0	0.92	0.08	10.0	0.318	5.3
ZZ71215		86.7	110.5	0.005	0.03	1.51	10.9	6	2.2	70.1	0.59	0.22	10.2	0.244	3.9
ZZ71216		15.0	49.3	0.004	0.04	0.53	4.4	2	0.7	537	0.40	<0.05	5.7	0.192	3.4
ZZ71217		7.1	35.6	0.003	0.01	0.42	15.8	1	2.7	169.5	2.48	<0.05	4.9	0.963	2.1
ZZ71218		10.5	65.8	0.003	0.01	0.78	19.8	1	3.7	176.0	1.82	<0.05	7.1	0.708	2.2
ZZ71219		11.6	58.6	0.003	0.01	0.94	17.4	1	4.5	173.0	1.59	<0.05	9.4	0.604	2.6
ZZ71220		11.5	72.0	0.004	0.01	0.55	11.0	1	5.0	105.5	1.24	<0.05	10.0	0.390	2.8
ZZ71221		9.1	66.3	0.004	0.01	0.50	11.3	1	5.4	105.5	1.23	<0.05	15.8	0.361	2.8
ZZ71222		8.6	77.8	0.003	0.01	0.37	9.3	1	5.8	87.4	1.24	<0.05	7.6	0.381	2.3
ZZ71223		10.9	73.1	0.003	0.01	0.37	8.5	1	6.0	95.2	1.23	<0.05	10.9	0.313	2.5
ZZ71224		12.2	77.4	0.004	0.01	0.41	8.5	1	6.8	78.1	1.30	0.05	10.2	0.326	2.4
ZZ71225		9.3	56.4	0.004	<0.01	0.46	13.7	1	6.5	165.0	1.39	<0.05	9.6	0.487	2.4
ZZ71226		7.0	66.5	0.003	<0.01	0.45	9.7	1	7.7	99.1	1.32	<0.05	19.0	0.323	3.7
ZZ71227		10.5	69.2	0.003	0.01	0.26	6.4	<1	4.8	186.0	1.12	<0.05	9.1	0.289	2.2
ZZ71228		7.6	84.2	0.003	<0.01	0.29	7.3	<1	6.2	82.8	1.18	<0.05	9.3	0.285	2.2
ZZ71229		5.1	67.2	0.003	<0.01	0.25	6.7	1	7.2	61.5	1.36	<0.05	11.2	0.259	2.6
ZZ71230		13.5	80.1	0.003	0.01	0.35	7.4	1	3.9	251	1.16	<0.05	8.8	0.318	2.5
ZZ71231		14.4	85.2	0.003	0.01	0.31	8.1	1	4.8	102.5	1.35	<0.05	9.9	0.316	2.4
ZZ71232		9.3	71.4	0.004	0.01	0.28	7.5	1	5.9	76.2	1.23	<0.05	11.6	0.278	2.8
ZZ71233		21.3	127.0	0.003	0.07	0.85	12.3	2	5.5	88.5	1.09	0.09	24.0	0.286	8.0
ZZ71234		7.9	59.8	0.009	0.05	0.41	15.3	4	5.1	137.5	1.45	0.05	18.6	0.461	72.0



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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
ZZ71195		236	2.7	33.0	177	85.4
ZZ71196		128	1.7	12.1	66	82.3
ZZ71197		77	0.8	18.1	57	82.8
ZZ71198		20	1.4	17.5	127	152.0
ZZ71199		272	2.7	19.4	178	95.8
ZZ71200		41	0.5	39.1	44	79.2
ZZ71201		167	1.7	11.8	37	76.4
ZZ71202		78	1.1	13.5	39	49.3
ZZ71203		90	2.0	13.0	30	78.5
ZZ71204		92	1.1	11.5	64	119.0
ZZ71205		136	1.2	10.5	32	96.8
ZZ71206		234	1.5	13.6	43	83.7
ZZ71207		218	1.3	14.7	55	73.4
ZZ71208		60	0.6	7.9	50	124.5
ZZ71209		228	1.6	11.6	30	75.0
ZZ71210		259	1.6	12.8	35	68.6
ZZ71211		355	1.4	18.1	63	64.4
ZZ71212		157	1.0	10.4	41	93.9
ZZ71213		71	1.0	10.1	50	89.9
ZZ71214		220	2.0	13.2	110	97.2
ZZ71215		208	1.5	9.0	600	94.7
ZZ71216		42	0.6	8.4	60	124.5
ZZ71217		183	1.9	16.4	27	48.6
ZZ71218		204	1.4	17.5	97	60.8
ZZ71219		237	1.4	16.5	113	65.2
ZZ71220		214	1.8	14.8	54	85.7
ZZ71221		181	4.4	15.0	63	78.7
ZZ71222		160	1.8	10.4	34	72.9
ZZ71223		126	1.8	12.2	34	78.4
ZZ71224		144	2.1	10.1	43	77.5
ZZ71225		152	1.5	13.3	65	75.2
ZZ71226		153	1.9	15.7	47	84.7
ZZ71227		80	2.2	9.4	26	80.8
ZZ71228		114	1.6	10.1	27	75.4
ZZ71229		112	1.7	9.1	18	97.8
ZZ71230		86	1.7	11.8	39	97.2
ZZ71231		120	1.9	12.1	32	73.0
ZZ71232		130	1.9	11.4	31	92.0
ZZ71233		250	2.4	23.2	143	81.1
ZZ71234		239	1.8	43.4	88	73.2



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
ZZ71235		0.24	0.001	0.05	6.48	11.0	1130	2.48	0.43	1.92	0.24	77.1	15.6	226	7.36	28.9
ZZ71236		0.20	0.001	0.14	5.11	10.1	840	1.80	0.55	1.77	0.19	70.4	9.9	193	5.84	39.7
ZZ71237		0.26	<0.001	0.07	4.54	4.0	760	1.68	0.32	1.00	0.10	57.1	5.4	113	3.47	6.1
ZZ71238		0.24	0.002	0.07	4.77	3.9	780	2.08	0.32	0.98	0.10	48.0	5.0	94	4.04	7.9
ZZ71239		0.24	0.001	0.05	5.35	4.0	840	2.37	0.52	1.04	0.08	61.5	6.9	207	4.26	6.3
ZZ71240		0.24	<0.001	0.12	5.65	3.4	940	2.39	0.44	1.14	0.14	68.0	8.0	113	4.08	8.7
ZZ71241		0.28	<0.001	0.04	5.30	5.8	980	2.19	0.38	1.17	0.13	56.1	6.3	100	6.76	9.3
ZZ71242		0.25	0.002	0.08	5.64	5.5	940	2.23	0.59	1.24	0.14	52.6	8.3	127	9.07	10.3
ZZ71243		0.24	0.001	0.07	5.32	13.4	830	1.86	1.10	2.06	0.18	50.5	12.7	203	9.26	34.2
ZZ71244		0.29	0.001	0.04	6.29	13.4	1160	2.29	1.73	1.77	0.19	51.6	12.8	228	8.29	24.9
ZZ71245		0.19	0.002	0.05	5.77	6.6	950	3.13	0.71	1.19	0.11	79.6	14.1	240	8.64	14.7
ZZ71246		0.26	0.001	0.12	5.87	9.1	800	2.50	0.57	1.06	0.10	56.0	6.6	103	5.51	18.0
ZZ71251		0.23	0.001	0.04	5.68	5.1	960	2.38	0.30	0.98	0.06	68.1	4.9	74	4.21	10.5
ZZ71252		0.24	0.006	0.09	4.41	2.3	830	1.72	0.22	1.20	0.05	49.2	3.0	72	3.53	7.8
ZZ71253		0.18	0.002	0.07	4.16	2.0	940	1.65	0.18	0.66	0.13	31.2	2.3	64	4.63	9.8
ZZ71254		0.26	0.001	0.03	5.06	4.1	920	2.13	0.19	1.37	0.12	47.8	5.0	80	2.57	19.2
ZZ71255		0.27	0.002	0.03	4.64	5.2	750	1.72	0.17	2.55	0.12	37.8	8.1	116	2.47	26.5
ZZ71256		0.33	0.003	0.06	4.79	10.1	990	2.20	0.21	2.83	0.17	61.9	7.9	110	2.92	39.7
ZZ71257		0.26	0.001	0.02	6.09	11.0	1090	2.36	0.79	2.19	0.07	77.5	13.1	222	7.62	33.5
ZZ71258		0.31	0.002	0.05	5.25	8.4	920	2.16	0.57	2.53	0.13	57.5	10.9	131	5.40	32.3
ZZ71259		0.37	0.001	0.07	5.61	8.4	930	1.88	0.82	1.98	0.15	50.6	8.0	158	7.19	22.6
ZZ71260		0.31	0.001	0.08	5.03	5.3	840	1.91	0.46	1.65	0.10	46.5	6.5	132	4.99	14.9
ZZ71261		0.28	0.001	0.06	4.01	2.8	710	1.70	0.36	1.23	0.07	39.2	3.7	77	3.63	8.2
ZZ71262		0.21	0.002	0.04	5.07	2.9	800	2.62	0.30	1.04	0.12	61.3	6.8	81	4.38	8.9
ZZ71263		0.23	0.003	0.63	4.44	2.1	680	1.57	0.21	1.16	0.08	36.4	2.9	67	2.01	11.9
ZZ71264		0.32	0.001	0.05	5.42	3.3	860	2.00	0.30	1.06	0.09	59.5	5.4	83	3.65	9.6
ZZ71265		0.30	0.002	0.04	4.86	3.6	810	1.89	0.25	1.26	0.11	51.1	5.9	90	2.83	11.6
ZZ71266		0.22	0.001	0.10	5.82	3.6	1020	2.89	0.35	1.12	0.09	60.2	5.6	119	6.28	6.6
ZZ71267		0.28	0.002	0.04	5.01	3.2	820	1.87	0.24	1.23	0.12	55.7	6.0	156	2.74	10.7
ZZ71268		0.41	0.002	0.13	6.84	3.6	1370	2.42	0.35	1.35	0.13	65.8	9.1	141	6.04	14.1
ZZ71269		0.39	0.002	0.03	5.60	3.5	1120	2.24	0.27	1.33	0.16	68.0	8.6	114	3.52	15.6
ZZ71270		0.20	0.002	0.07	5.51	2.5	1110	2.14	0.24	1.31	0.19	60.3	6.9	130	3.78	9.2
ZZ71271		0.38	0.001	0.02	5.92	4.5	1380	2.30	0.31	1.37	0.23	66.7	10.2	113	3.87	22.0
ZZ71272		0.34	0.001	0.03	5.71	3.5	1290	2.39	0.33	1.23	0.20	63.8	8.9	125	4.18	16.5
ZZ71273		0.22	0.003	0.11	7.16	6.2	1890	2.60	0.47	1.20	0.29	71.4	12.2	108	6.22	29.2
ZZ71274		0.42	0.001	0.10	6.31	3.1	1070	2.92	0.38	0.96	0.12	70.6	7.4	118	5.88	8.0
ZZ71275		0.37	0.001	0.06	6.08	3.6	1030	2.41	0.35	1.07	0.14	68.5	7.4	108	5.17	11.0
ZZ71276		0.23	0.001	0.11	5.93	3.0	980	2.47	0.40	0.90	0.11	58.9	7.5	127	5.91	8.7
ZZ71277		0.13	0.002	0.04	5.90	4.8	1070	2.54	0.53	0.79	0.10	53.3	7.5	106	6.68	11.4
ZZ71278		0.27	0.001	0.13	6.18	3.9	1110	2.36	0.56	0.78	0.14	64.8	6.7	129	5.69	10.6



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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
ZZ71235		3.68	17.95	0.16	1.9	0.060	1.66	42.5	35.2	1.66	422	3.83	1.35	20.9	83.7	1440
ZZ71236		2.93	16.60	0.16	2.0	0.076	1.18	51.8	17.4	1.49	277	5.62	1.10	24.1	71.2	1290
ZZ71237		1.97	13.50	0.12	1.9	0.041	1.22	29.8	14.4	0.87	260	1.63	1.34	14.1	41.5	850
ZZ71238		1.77	14.10	0.15	1.8	0.034	1.31	25.4	18.6	0.77	227	1.60	1.40	14.2	30.6	940
ZZ71239		2.09	16.75	0.15	1.7	0.045	1.61	31.6	20.1	0.93	384	1.96	1.62	16.2	50.1	610
ZZ71240		2.45	15.55	0.13	1.8	0.047	1.44	34.4	27.6	1.08	389	5.11	1.40	14.8	37.4	1830
ZZ71241		2.36	16.45	0.13	2.3	0.043	1.50	29.1	21.4	0.92	276	4.49	1.44	15.8	34.5	1650
ZZ71242		3.01	17.15	0.15	1.9	0.066	1.44	27.6	28.7	1.07	339	3.18	1.38	17.0	45.5	1270
ZZ71243		5.50	17.95	0.11	1.8	0.076	1.00	25.1	20.8	1.93	310	7.09	1.25	21.0	80.4	1730
ZZ71244		3.14	18.90	0.14	2.2	0.071	1.29	26.0	23.0	1.61	245	4.64	1.72	25.4	81.6	1550
ZZ71245		3.06	19.15	0.16	1.9	0.043	1.90	40.7	36.7	1.85	583	2.78	1.55	18.1	111.0	920
ZZ71246		2.26	18.40	0.12	3.1	0.068	1.31	29.2	20.9	0.85	190	4.52	1.80	17.7	43.5	1410
ZZ71251		1.78	17.40	0.13	2.6	0.039	1.53	35.7	24.3	0.88	185	1.91	1.72	16.3	32.4	1630
ZZ71252		1.14	13.80	0.13	2.0	0.025	1.09	25.5	13.8	0.59	155	3.39	1.51	12.1	20.1	1560
ZZ71253		0.99	14.45	0.11	1.9	0.026	1.04	14.3	12.8	0.61	96	3.90	1.27	12.1	20.9	1150
ZZ71254		1.48	15.55	0.13	2.4	0.032	1.04	26.0	17.1	1.17	150	3.75	1.72	12.4	46.3	3950
ZZ71255		1.96	12.95	0.13	1.7	0.017	0.68	19.9	16.0	1.95	201	4.33	1.74	9.2	69.6	5470
ZZ71256		1.92	14.65	0.16	2.2	0.029	1.07	33.6	16.5	2.10	337	3.14	1.57	10.4	65.3	5420
ZZ71257		2.74	18.10	0.15	2.3	0.065	1.15	40.6	19.6	1.77	266	4.00	1.72	23.7	83.2	3120
ZZ71258		2.41	16.00	0.13	2.1	0.049	0.92	27.2	19.7	1.95	348	2.48	1.75	15.1	64.2	4300
ZZ71259		2.36	15.30	0.11	1.9	0.052	1.06	25.5	16.9	1.40	235	3.35	1.86	19.8	55.8	3330
ZZ71260		2.24	13.65	0.12	1.7	0.055	1.18	23.9	19.9	1.23	227	1.95	1.65	15.5	43.6	2940
ZZ71261		1.39	11.00	0.11	1.5	0.036	1.00	20.4	13.5	0.74	160	1.57	1.50	10.4	24.9	2430
ZZ71262		2.06	12.35	0.13	1.6	0.035	1.65	32.0	28.6	0.74	314	2.45	1.60	14.4	36.3	1390
ZZ71263		1.55	11.65	0.11	1.8	0.034	0.97	19.8	10.8	0.49	235	2.54	1.21	8.5	15.3	7350
ZZ71264		1.81	15.15	0.12	1.9	0.036	1.44	30.7	20.7	0.82	221	1.32	1.81	17.3	32.4	1210
ZZ71265		1.89	12.60	0.11	1.6	0.037	1.25	26.3	18.8	0.96	242	1.36	1.47	14.3	36.1	1620
ZZ71266		2.20	17.20	0.14	2.0	0.046	1.84	30.9	26.4	0.96	307	1.73	1.52	20.1	37.6	810
ZZ71267		1.96	12.50	0.13	2.0	0.042	1.29	28.9	18.3	0.85	263	1.18	1.48	15.5	38.7	940
ZZ71268		2.84	19.40	0.13	2.4	0.051	2.15	34.2	41.6	1.43	347	2.14	1.53	20.8	57.2	1390
ZZ71269		2.50	14.60	0.14	2.2	0.051	1.58	35.1	25.6	1.22	336	1.44	1.44	17.8	53.0	1420
ZZ71270		2.17	14.40	0.13	1.9	0.046	1.63	32.1	22.7	1.13	319	1.27	1.50	17.2	43.2	1330
ZZ71271		2.82	15.85	0.14	2.1	0.054	1.66	35.9	24.1	1.38	391	1.66	1.36	17.4	53.5	1860
ZZ71272		2.76	15.90	0.14	1.8	0.060	1.75	33.5	26.1	1.27	383	1.43	1.47	17.6	47.0	1350
ZZ71273		3.49	19.65	0.14	2.1	0.066	2.20	38.7	28.9	1.53	474	2.80	1.38	18.6	52.6	1210
ZZ71274		2.62	18.50	0.13	2.7	0.058	2.02	36.5	31.5	1.15	340	1.24	1.59	21.6	40.7	590
ZZ71275		2.64	16.40	0.13	2.0	0.049	1.87	35.2	29.8	1.11	345	1.27	1.60	18.8	40.5	930
ZZ71276		2.49	17.75	0.15	2.2	0.045	1.99	31.3	26.6	1.04	387	1.40	1.53	19.0	40.7	770
ZZ71277		2.67	20.3	0.13	2.2	0.053	1.86	26.3	25.9	0.99	351	2.26	1.45	26.8	40.0	480
ZZ71278		2.89	19.85	0.14	2.5	0.053	2.01	34.3	25.1	0.92	365	2.00	1.34	22.3	38.8	1130



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Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	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
ZZ71235		16.7	84.9	0.003	0.02	0.49	14.1	2	4.2	157.0	1.50	0.05	10.2	0.518	4.9
ZZ71236		11.0	58.2	0.005	0.05	0.41	12.9	3	4.2	129.5	1.54	0.09	10.1	0.491	16.6
ZZ71237		11.6	56.6	0.003	0.01	0.34	7.7	1	3.6	92.1	1.05	<0.05	7.6	0.304	2.3
ZZ71238		10.8	61.5	0.003	0.01	0.34	7.9	1	3.8	102.5	1.07	<0.05	6.9	0.313	2.2
ZZ71239		15.0	74.1	0.003	0.01	0.33	8.8	1	4.3	142.0	1.22	<0.05	8.5	0.358	2.2
ZZ71240		14.1	64.8	0.004	0.07	0.25	10.1	1	3.8	134.0	1.18	<0.05	16.1	0.314	4.9
ZZ71241		12.9	77.8	0.003	0.01	0.42	9.1	1	3.6	117.5	1.25	0.05	8.1	0.355	2.5
ZZ71242		12.9	85.2	0.003	0.01	0.42	10.3	1	4.4	111.5	1.28	<0.05	8.4	0.366	2.4
ZZ71243		8.9	58.9	0.005	0.02	0.48	12.0	2	4.3	98.6	1.34	0.12	8.3	0.438	3.0
ZZ71244		7.1	68.2	0.004	0.01	0.40	13.8	2	5.2	93.8	1.58	0.07	8.6	0.476	3.6
ZZ71245		18.5	124.5	0.003	0.01	0.36	10.5	1	5.3	147.0	1.36	<0.05	11.6	0.397	2.6
ZZ71246		7.3	62.3	0.005	0.01	0.33	8.7	1	7.4	78.5	1.28	<0.05	10.8	0.288	3.4
ZZ71251		10.8	73.1	0.004	0.01	0.30	8.6	1	5.2	95.5	1.24	<0.05	11.2	0.296	2.9
ZZ71252		7.4	60.0	0.005	0.02	0.26	6.2	1	3.1	97.3	0.94	<0.05	7.5	0.253	3.0
ZZ71253		7.3	70.0	0.004	0.02	0.31	6.7	1	3.1	61.3	0.87	<0.05	5.6	0.244	3.1
ZZ71254		6.4	52.2	0.005	0.01	0.33	7.6	1	3.3	74.7	0.92	0.05	8.5	0.259	5.1
ZZ71255		7.7	41.8	0.007	0.02	0.50	8.7	2	1.3	96.3	0.64	0.06	5.2	0.300	5.9
ZZ71256		8.3	52.4	0.005	0.01	0.79	9.8	2	1.7	129.5	0.73	<0.05	9.1	0.329	5.1
ZZ71257		7.5	60.3	0.005	0.02	0.44	13.7	2	5.1	103.5	1.45	0.05	9.5	0.460	4.4
ZZ71258		8.8	50.1	0.004	0.01	0.61	10.4	2	3.1	109.0	1.05	<0.05	8.9	0.342	3.9
ZZ71259		9.4	52.2	0.004	0.01	0.36	10.5	1	3.9	98.5	1.25	<0.05	9.4	0.409	3.6
ZZ71260		9.2	47.9	0.003	0.01	0.29	9.0	1	3.5	112.5	0.99	<0.05	7.0	0.333	2.7
ZZ71261		8.0	42.4	0.004	0.01	0.26	6.4	1	2.3	91.4	0.73	<0.05	5.9	0.250	2.4
ZZ71262		13.6	70.8	0.002	0.02	0.25	7.1	1	2.9	121.5	1.06	<0.05	11.2	0.300	3.5
ZZ71263		8.0	34.5	0.003	0.14	0.25	10.3	1	1.8	163.0	0.62	<0.05	7.8	0.230	5.0
ZZ71264		14.3	65.1	0.002	0.01	0.31	8.7	1	3.3	111.5	1.14	<0.05	9.7	0.358	2.3
ZZ71265		10.0	56.3	0.003	0.01	0.33	8.2	1	2.6	120.5	1.33	<0.05	7.8	0.304	2.2
ZZ71266		13.8	92.1	0.003	0.01	0.37	9.9	1	4.3	121.5	1.45	<0.05	9.9	0.399	2.4
ZZ71267		11.1	56.1	0.002	0.01	0.34	8.5	1	2.7	126.0	1.01	<0.05	8.0	0.334	2.2
ZZ71268		14.6	95.6	0.003	0.02	0.41	11.9	1	4.2	179.5	1.43	<0.05	10.9	0.441	6.1
ZZ71269		13.0	67.8	0.003	0.01	0.42	10.2	1	3.3	133.5	1.21	<0.05	10.6	0.374	2.5
ZZ71270		11.2	75.6	0.003	0.01	0.34	9.9	1	3.5	141.5	1.14	<0.05	9.3	0.373	2.5
ZZ71271		11.7	72.1	0.002	<0.01	0.41	11.3	1	3.1	134.5	1.22	<0.05	10.3	0.385	2.8
ZZ71272		12.4	71.6	0.003	0.01	0.38	10.6	1	3.3	139.0	1.18	<0.05	10.3	0.378	2.5
ZZ71273		15.4	102.5	0.003	0.02	0.54	13.1	1	3.4	163.0	1.16	<0.05	11.9	0.401	2.9
ZZ71274		16.6	98.8	0.003	0.01	0.30	11.0	<1	4.7	131.5	1.49	<0.05	11.1	0.423	2.5
ZZ71275		17.2	86.3	<0.002	0.01	0.30	10.2	1	4.0	129.5	1.27	<0.05	11.7	0.388	2.5
ZZ71276		15.4	104.0	0.003	0.01	0.32	10.4	1	4.7	131.5	1.30	<0.05	10.1	0.396	2.4
ZZ71277		15.7	90.6	0.003	0.01	0.33	10.5	1	4.8	105.5	2.33	<0.05	10.3	0.387	3.1
ZZ71278		19.0	104.0	0.002	0.02	0.45	11.1	1	5.1	110.0	1.63	<0.05	12.3	0.443	2.9



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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
ZZ71235		179	2.2	18.2	73	64.0
ZZ71236		152	2.0	23.2	45	66.4
ZZ71237		114	1.6	10.7	37	63.7
ZZ71238		134	1.7	11.0	43	65.9
ZZ71239		81	2.4	13.4	45	61.1
ZZ71240		97	1.6	15.5	80	58.3
ZZ71241		175	2.2	13.4	52	74.7
ZZ71242		188	2.7	12.5	55	67.3
ZZ71243		366	1.6	12.1	76	63.7
ZZ71244		294	2.1	13.2	58	74.6
ZZ71245		92	1.9	18.4	62	62.2
ZZ71246		190	2.6	13.7	42	108.5
ZZ71251		192	1.9	14.4	44	84.3
ZZ71252		231	1.4	11.8	30	71.9
ZZ71253		268	1.1	10.0	32	65.2
ZZ71254		581	1.2	16.7	54	83.9
ZZ71255		804	0.8	17.6	69	60.6
ZZ71256		276	1.2	26.9	62	79.7
ZZ71257		366	1.8	17.8	56	81.0
ZZ71258		331	1.3	19.1	61	70.3
ZZ71259		368	1.4	16.8	54	73.9
ZZ71260		247	1.4	15.3	45	61.2
ZZ71261		165	0.9	13.2	32	53.6
ZZ71262		63	1.5	15.9	41	57.3
ZZ71263		98	0.7	10.0	22	64.8
ZZ71264		115	1.7	15.5	38	69.7
ZZ71265		125	1.2	15.2	45	56.9
ZZ71266		106	2.0	14.1	40	75.2
ZZ71267		99	1.3	14.2	40	61.2
ZZ71268		150	2.1	16.1	94	87.2
ZZ71269		129	1.8	17.7	70	66.7
ZZ71270		118	1.7	16.6	62	65.9
ZZ71271		168	1.8	18.6	95	69.2
ZZ71272		129	1.8	17.0	89	63.2
ZZ71273		163	2.2	18.2	156	79.5
ZZ71274		95	2.2	16.9	62	79.0
ZZ71275		91	2.0	17.2	71	69.4
ZZ71276		89	2.1	15.1	58	76.3
ZZ71277		96	2.6	20.9	59	78.5
ZZ71278		113	2.8	14.9	64	84.0



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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
ZZ71279		0.06	0.002	0.08	6.45	1.6	890	1.36	0.16	1.52	0.16	40.8	4.7	28	2.08	16.3
ZZ71280		0.13	0.001	0.05	6.16	2.8	1220	1.63	0.32	1.27	0.30	38.8	4.2	37	5.14	14.2
ZZ71281		0.13	0.001	0.06	5.04	0.2	1280	1.63	0.06	0.53	0.70	32.3	1.5	87	2.39	8.5
ZZ71282		0.12	0.008	0.08	4.57	2.2	1040	1.21	0.19	2.18	0.65	35.3	3.8	45	8.31	18.5
ZZ71283		0.20	0.002	0.18	4.75	1.1	910	1.16	0.13	2.86	2.00	35.7	4.9	27	7.19	43.8
ZZ71284		0.08	0.001	0.13	4.71	1.4	1280	1.43	0.15	0.87	0.94	31.3	2.6	54	7.52	14.6
ZZ71285		0.15	0.002	0.24	4.73	12.8	1440	1.73	0.43	0.23	0.80	45.4	2.9	64	9.64	17.9
ZZ71286		0.16	0.001	0.36	5.20	4.3	960	1.28	0.23	1.10	0.15	36.1	3.8	43	4.14	18.3
ZZ71287		0.15	0.001	0.25	6.96	1.2	1010	1.42	0.16	1.66	0.33	38.0	4.5	19	4.54	17.1
ZZ71288		0.17	0.001	0.61	7.44	4.9	2870	2.78	0.72	0.31	0.27	85.6	2.3	126	7.64	15.0
ZZ71289		0.25	0.002	0.07	4.18	8.8	1420	1.48	0.28	0.62	0.21	21.0	2.4	91	6.53	9.3



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CERTIFICATE OF ANALYSIS WH13158580

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
ZZ71279		1.65	16.50	0.12	3.5	0.020	1.99	22.1	19.6	0.50	318	1.79	2.34	8.1	6.8	430
ZZ71280		1.60	17.20	0.12	3.0	0.022	1.92	21.3	22.6	0.60	253	2.65	1.96	8.6	10.7	580
ZZ71281		0.63	13.00	0.12	2.0	0.007	1.52	17.8	21.1	0.33	126	2.18	1.81	5.2	7.5	470
ZZ71282		1.24	12.00	0.12	2.2	0.023	1.28	17.5	16.7	1.03	467	3.18	1.37	8.2	20.9	570
ZZ71283		1.25	11.55	0.14	2.2	0.014	1.34	21.4	18.3	0.58	787	3.04	1.50	4.6	34.0	950
ZZ71284		0.87	12.70	0.13	2.3	0.015	1.47	17.9	17.5	0.36	280	3.78	1.31	7.9	12.3	560
ZZ71285		1.89	14.00	0.13	2.0	0.028	1.65	24.0	31.4	0.29	96	6.15	0.55	9.8	20.4	920
ZZ71286		1.77	13.60	0.13	2.3	0.026	1.45	19.7	17.0	0.49	223	3.08	1.50	8.0	13.3	2040
ZZ71287		1.61	16.80	0.13	3.3	0.018	2.11	21.1	20.9	0.52	330	2.07	2.49	7.9	7.5	450
ZZ71288		1.86	22.7	0.20	3.5	0.038	3.01	47.2	30.3	0.40	105	36.8	0.65	19.7	16.4	700
ZZ71289		1.33	12.85	0.09	2.0	0.021	1.00	12.3	16.5	0.76	83	4.04	1.07	10.8	34.4	1670



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CERTIFICATE OF ANALYSIS WH13158580

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
ZZ71279		8.8	53.7	0.002	0.02	0.49	5.3	<1	1.6	454	0.73	<0.05	6.2	0.275	0.32	2.4
ZZ71280		8.4	62.9	0.003	0.01	0.35	6.8	<1	2.5	341	0.64	<0.05	5.4	0.261	0.35	2.7
ZZ71281		3.3	56.4	0.004	0.01	0.19	8.5	<1	1.2	165.0	0.35	<0.05	3.9	0.181	0.27	2.7
ZZ71282		8.1	51.8	0.002	0.06	0.31	6.3	1	1.8	227	0.65	<0.05	5.0	0.232	0.32	4.2
ZZ71283		6.5	46.2	0.006	0.13	0.58	5.0	3	1.0	330	0.34	<0.05	5.7	0.151	0.37	33.3
ZZ71284		7.6	63.9	0.002	0.04	0.30	5.9	1	2.1	189.5	0.56	<0.05	4.4	0.207	0.40	7.0
ZZ71285		17.1	89.9	0.004	0.04	0.70	7.9	2	5.0	72.1	0.72	0.06	6.6	0.278	0.66	2.8
ZZ71286		9.8	49.2	0.002	0.06	0.34	6.3	4	2.0	277	0.60	<0.05	5.2	0.258	0.37	3.5
ZZ71287		9.0	59.2	0.002	0.02	0.41	5.0	<1	1.3	528	0.93	<0.05	5.2	0.229	0.37	2.7
ZZ71288		21.7	147.5	0.006	0.03	0.49	14.1	5	3.3	119.5	1.46	0.22	11.9	0.453	1.52	6.0
ZZ71289		6.9	52.1	0.004	0.01	0.17	7.2	1	2.3	60.3	0.86	0.05	3.5	0.268	0.32	3.5



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CERTIFICATE OF ANALYSIS WH13158580

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
ZZ71279		61	1.0	7.8	47	127.5
ZZ71280		130	1.4	9.4	50	111.0
ZZ71281		213	1.3	4.2	27	84.6
ZZ71282		108	1.1	9.5	62	81.8
ZZ71283		71	0.7	17.7	65	82.8
ZZ71284		206	1.6	8.8	43	87.7
ZZ71285		168	3.0	7.2	127	72.1
ZZ71286		121	1.2	9.1	42	87.1
ZZ71287		113	1.0	8.2	50	126.0
ZZ71288		462	3.9	10.4	61	123.0
ZZ71289		440	1.6	14.7	60	77.5



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CERTIFICATE OF ANALYSIS WH13158580

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

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

APPENDIX IV
ROCK DESCRIPTIONS

Rock Sample Descriptions		Property: Off		
Sample Number:	M898054	UTM:	424913 mE	Nad83, Zone 9
Elevation:	1547 m	UTM:	6817638 mN	
Comments: Grab sample, angular float. Limonite and goethite weathiering with fresh, blue-green aphanitic groundmass hosting disseminated pyrrhotite (10-15%). Meta-mafic volcanics likely. Rep and photo.				
Sample Number:	M898055	UTM:	425716 mE	Nad83, Zone 9
Elevation:	1514 m	UTM:	6817229 mN	
Comments: 1.5 m chip sample from meta-mafic volcanic hosting pyrrhotite stingers and a 10 cm epidote vein. Pic and rep..				
Sample Number:	M898056	UTM:	425713 mE	Nad83, Zone 9
Elevation:	1524 m	UTM:	6817235 mN	
Comments: Grab of 10 cm thick epidote vein on outcrop of mafic meta-volcanics hosting 5% disseminated pyrrhotite.				
Sample Number:	M898057	UTM:	425942 mE	Nad83, Zone 9
Elevation:	1539 m	UTM:	6817167 mN	
Comments: 2 m chip sample of argillite with infrequent limonite pits and on fractures. Rep and photo.				
Sample Number:	M898058	UTM:	426225 mE	Nad83, Zone 9
Elevation:	1494 m	UTM:	6817216 mN	
Comments: 1.10 m chip sample of quartz-mica schist at outcrop. Sample taken at 074 at +53 degree slope. Rep.				
Sample Number:	M898059	UTM:	426769 mE	Nad83, Zone 9
Elevation:	1462 m	UTM:	6817169 mN	
Comments: 0.80 m chip sample of limonite pitted argillite.Rep taken.				
Sample Number:	M898060	UTM:	426807 mE	Nad83, Zone 9
Elevation:	1452 m	UTM:	6817157 mN	
Comments: 0.80 m chip sample of limonite pitted, and limontie alteration on all surfaces (very deep weathering), dark grey pelite? With siliceous folden bands. Rep taken.				

Rock Sample Descriptions		Property: Off		
Sample Number:	M898061	UTM:	426913 mE	Nad83, Zone 9
Elevation:	1402 m	UTM:	6816720 mN	
Comments:	Composite chip sample at CC56818 (high Cu), 0.50 m deep hand pit. Rocks consisted of quartzite , limonite pitted argillite, and sericite altered schist. Reps taken.			
Sample Number:	M898062	UTM:	425648 mE	Nad83, Zone 9
Elevation:	1442 m	UTM:	6816603 mN	
Comments:	Creek grab sample, angular, small boulders (10-40 cm) of fine grained to aphanitic green meta-intrusive/volcanic? Hosting 0.5 cm serpenitne vein and disseminated silver-coloured sulphides (5%). Rep.			
Sample Number:	M898063	UTM:	425677 mE	Nad83, Zone 9
Elevation:	1433 m	UTM:	6816573 mN	
Comments:	Creek grab sample. Large, 60 cm, angular boulders of rusty-geothite black weathered green/blue grey aphanitic meta-intrusive/volcanic? Hosting fine grained pyrite, pyrrhotite, plus possible bornite? (irresdescent tarnish). Mineralizaton is pervasively disseminated at 25%. Reps taken.			
Sample Number:	M898064	UTM:	425708 mE	Nad83, Zone 9
Elevation:	1435 m	UTM:	6816591 mN	
Comments:	OFF-TR-13-03 Biotite-sericite quartz-rich schist (protolith likely granitic intrusive). 46->244 foliation trend. Weakly foliated with limonite pits. Sample length 2.5 m.			
Sample Number:	M898065	UTM:	425695 mE	Nad83, Zone 9
Elevation:	1443 m	UTM:	6816602 mN	
Comments:	OFF-TR-13-04 grab sample of limonite weathered grey-green, massive to weakly foliated meta-volcanic hosting very fine grained silver-coloured sulphides (5-10%), some pyrrhotite.			
Sample Number:	M898066	UTM:	425692 mE	Nad83, Zone 9
Elevation:	1435 m	UTM:	6816604 mN	
Comments:	OFF-TR-13-04 grab sample at 5.90-6.00 m. Green, grey, gouge grab. Rep taken			

Rock Sample Descriptions		Property: Off		
Sample Number:	M898067	UTM:	425686 mE	Nad83, Zone 9
Elevation:	1441 m	UTM:	6816595 mN	
Comments:	OFF-TR-13-04 1.5 m sample from 0-1.5 m of green-grey meta-volcanics hosting intermittent fine grained pyrrhotite, pyrite plus silver-coloured, intergrown sulphides (0-5%).			
Sample Number:	M898068	UTM:	425690 mE	Nad83, Zone 9
Elevation:	1438 m	UTM:	6816602 mN	
Comments:	OFF-TR-13-04 1.5 m sample from 1.5-3.0 m of green-grey meta-volcanics hosting intermittent fine grained pyrrhotite, pyrite plus silver-coloured, intergrown sulphides.			
Sample Number:	M898069	UTM:	425693 mE	Nad83, Zone 9
Elevation:	1437 m	UTM:	6816605 mN	
Comments:	OFF-TR-13-04 1.5 m sample from 3.0-4.5 m of green-grey meta-volcanics hosting intermittent fine grained pyrrhotite, pyrite plus silver-coloured, intergrown sulphides.			
Sample Number:	M898070	UTM:	425693 mE	Nad83, Zone 9
Elevation:	1436 m	UTM:	6816605 mN	
Comments:	OFF-TR-13-04 1.5 m sample from 4.5-6.0 m of green-grey meta-volcanics hosting intermittent fine grained pyrrhotite, pyrite plus silver-coloured, intergrown sulphides.			
Sample Number:	M898071	UTM:	425694 mE	Nad83, Zone 9
Elevation:	1438 m	UTM:	6816607 mN	
Comments:	OFF-TR-13-04 1.5 m sample from 6.0-7.5 m of green-grey meta-volcanics hosting intermittent fine grained pyrrhotite, pyrite plus silver-coloured, intergrown sulphides.			
Sample Number:	M898072	UTM:	425694 mE	Nad83, Zone 9
Elevation:	1438 m	UTM:	6816608 mN	
Comments:	OFF-TR-13-04 1.5 m sample from 7.5-9.0 m of green-grey meta-volcanics hosting intermittent fine grained pyrrhotite, pyrite plus silver-coloured, intergrown sulphides.			

APPENDIX V
PETROGRAPHIC REPORT

PETROGRAPHIC REPORT ON 3 SAMPLES FROM OFF PROPERTY, YUKON

Report for: Heather Burrell, P. Geo.
Archer Cathro & Associates (1981) Ltd.
1016 – 510 West Hastings Street
Vancouver, B.C. V6B 1L8 (604) 688-2568

Invoice 130866

Dec. 11, 2013.

SUMMARY:

All three samples are the same or very similar, composed of heavily disseminated to semi-massive sulfides (mainly pyrrhotite, partly oxidized to lamellar/"bird's-eye" textured secondary pyrite/marcasite or rarely to limonite; minor chalcopyrite) in a gangue matrix of pale coloured amphibole (tremolite-actinolite?), low Fe epidote-group mineral (clinozoisite?), Fe carbonate (ankerite and/or siderite?) partly altered to limonite, minor quartz and/or plagioclase, and trace chlorite. The precursor rock for this skarny alteration is uncertain; intermediate/mafic intrusive might be one possibility. Capsule descriptions are as follows:

M898063A: semi-massive sulfide (mainly pyrrhotite, partly oxidized to secondary pyrite-marcasite; very minor chalcopyrite) in a gangue matrix of very pale amphibole (tremolite-actinolite?), colourless epidote-group mineral (zoisite/clinozoisite?), and minor Fe-carbonate (ankerite/siderite?) associated with traces of chlorite.

M898063B: semi-massive sulfide (mainly pyrrhotite, partly oxidized to secondary pyrite-marcasite; very minor chalcopyrite) in a gangue matrix of pale green amphibole (tremolite-actinolite?), colourless epidote-group mineral (clinozoisite?), lesser Fe-carbonate (siderite?) and minor quartz, associated with traces of chlorite. It might represent skarn alteration of mafic rock (?).

M898063C: gangue matrix of pale green amphibole (actinolite?), colourless epidote-group mineral (clinozoisite?), lesser Fe-carbonate (siderite?) and minor quartz or plagioclase, with heavily disseminated sulfide (mainly pyrrhotite, largely oxidized to secondary pyrite-marcasite; minor chalcopyrite). It might represent skarn alteration of mafic/intermediate rock (?).

Detailed petrographic descriptions and photomicrographs are appended (on CD). If you have any questions regarding the petrography, please do not hesitate to contact me.

M898063A: SEMI-MASSIVE SULFIDE (MAINLY PYRRHOTITE, PARTLY OXIDIZED TO SECONDARY PYRITE-MARCASITE; VERY MINOR CHALCOPYRITE) IN A GANGUE MATRIX OF VERY PALE AMPHIBOLE (TREMOLITE-ACTINOLITE?), COLOURLESS EPIDOTE-GROUP MINERAL (ZOISITE/CLINOZOISITE?), AND MINOR FE-CARBONATE (ANKERITE/SIDERITE?) ASSOCIATED WITH TRACES OF CHLORITE

Hand specimen shows dark grey-green, medium-grained, weakly foliated rock of uncertain derivation, apparently with heavily disseminated sulfides (likely pyrrhotite, to judge by the extensive dark chocolate brown gossanous stain on the exterior weathered surfaces, and distinct magnetism). The rock shows no reaction to cold dilute HCl, and no stain for K-feldspar in the etched offcut (but the offcut does highlight pale-coloured patches or possible relict phenocryst or porphyroblast (?) sites with angular outlines up to ~ 5 mm). Modal mineralogy in polished thin section is approximately:

Pyrrhotite (incipiently/weakly oxidized to pyrite/marcasite)	40%
Amphibole (tremolite-actinolite?)	30%
Epidote-group (zoisite/clinozoisite?)	25%
Fe-carbonate (ankerite/siderite?)	~5%
Chalcopyrite	<1%
Chlorite (Fe-rich, with carbonate)	trace

This sample consists mainly of semi-massive sulfides (mainly pyrrhotite) in a gangue matrix of very pale amphibole, colourless epidote-group mineral, and minor Fe-carbonate associated with traces of chlorite.

The sulfides are mainly pyrrhotite, occurring as ragged, irregular bleb-like concentrations mostly <2 mm long (somewhat elongated in the weakly defined plane of foliation) composed of subhedra mainly <1 mm in diameter. The pyrrhotite is typically slightly to partly oxidized, starting around margins and along grain boundaries or fractures, to secondary pyrite/marcasite as subhedra mainly <25 µm/rounded aggregates <50 µm respectively, with classic “bird’s-eye” and lamellar texture. Minor chalcopyrite, locally forming ragged subhedra to about 0.2 mm, is mixed with the pyrrhotite, mainly around the margins or as minute inclusions.

Gangues making up more than 50% of the section comprise amphibole commonly intimately intermixed with epidote-group mineral, and local, partly strongly limonite-stained, Fe-carbonate surrounding pyrrhotite in places. The amphibole forms slender, mostly euhedral laths mostly <0.2 mm long (rarely up to about 0.5 mm), typically (but not everywhere) somewhat aligned, defining a weak foliation. Almost complete lack of colour/pleochroism, and relatively small extinction angle, suggest it is likely a relatively Mg-rich member of the tremolite-actinolite series. The epidote-group mineral, which forms subhedral crystals mostly <0.2 mm, also lacks colour or pleochroism, which together with pale bluish and lime yellow interference colours suggest an Fe-poor variety, zoisite or clinozoisite (?). The carbonate, which occurs in irregular patches up to about 2 mm across, some of which are nucleated on or surround pyrrhotite, displays strong relief on rotation, pale brown to strongly limonite stained appearance, and no reaction to HCl in hand specimen, suggestive of an Fe-carbonate such as ankerite or perhaps siderite (?). Rarely, it contains traces of a dark green chlorite (subhedral outlines to ~50 µm, but composed of randomly oriented minute flakes mostly <5 µm).

In summary, this is semi-massive sulfide (mainly pyrrhotite, partly oxidized to secondary pyrite-marcasite; very minor chalcopyrite) in a gangue matrix of very pale amphibole (tremolite-actinolite?), colourless epidote-group mineral (zoisite/clinozoisite?), and minor Fe-carbonate (ankerite/siderite?) associated with traces of chlorite. It might represent skarn alteration of mafic rock (?).

M898063B: SEMI-MASSIVE SULFIDE (MAINLY PYRRHOTITE, PARTLY OXIDIZED TO SECONDARY PYRITE-MARCASITE; VERY MINOR CHALCOPYRITE) IN A GANGUE MATRIX OF PALE GREEN AMPHIBOLE (TREMOLITE-ACTINOLITE?), COLOURLESS EPIDOTE-GROUP MINERAL (CLINOZOISITE?), LESSER FE-CARBONATE (SIDERITE?) AND MINOR QUARTZ, ASSOCIATED WITH TRACES OF CHLORITE

Hand specimen shows dark grey-green, medium-grained, weakly foliated rock of uncertain derivation, with heavily disseminated sulfides (likely pyrrhotite, to judge by the extensive dark chocolate brown gossanous stain on the exterior weathered surfaces, and strong magnetism). The rock shows no reaction to cold dilute HCl, and no stain for K-feldspar in the etched offcut (but the offcut does highlight pale-coloured patches or possible relict phenocryst or porphyroblast (?) sites with angular outlines up to ~ 4 mm). Modal mineralogy in polished thin section is approximately:

Pyrrhotite (incipiently/weakly oxidized to pyrite/marcasite)	35%
Amphibole (tremolite-actinolite?)	25%
Epidote-group (clinozoisite?)	25%
Fe-carbonate (mainly siderite?)	10%
Quartz (secondary)	~3%
Chalcopyrite	~1%
Limonite (goethite/hematite, after sulfides)	~1%
Chlorite (Fe-rich, with carbonate)	trace

This sample consists mainly of semi-massive sulfides (mainly pyrrhotite) in a gangue matrix of pale coloured amphibole, colourless epidote-group mineral, lesser Fe-carbonate rarely associated with traces of chlorite, and minor quartz (likely secondary). Limonite occurs on late fractures.

The sulfides are mainly pyrrhotite, occurring as ragged, irregular bleb-like concentrations up to about 3mm long (somewhat elongated in the weakly defined plane of foliation) composed of interlocking rounded subhedra mainly <1 mm in diameter. The pyrrhotite is typically slightly to partly oxidized, starting around margins and along grain boundaries or fractures, to secondary pyrite/marcasite as subhedra mainly <25 um/rounded aggregates <50 um respectively, with well-developed “bird’s-eye” and/or lamellar texture. Minor chalcopyrite, locally forming ragged subhedra to about 0.5 mm, is mixed with the pyrrhotite, mainly around the margins or as small inclusions.

Gangues making up almost 2/3 of the section comprise amphibole commonly intimately intermixed with epidote-group mineral, and local, partly strongly limonite-stained, Fe-carbonate and minor quartz, surrounding pyrrhotite in places. The amphibole forms slender, mostly euhedral laths mostly <0.25 mm long (locally up to ~0.5 mm), typically (but not everywhere) somewhat aligned, defining a weak foliation. Very pale green colour/pleochroism and relatively small extinction angle, suggest it is likely a somewhat Mg-rich member of the tremolite-actinolite series. The epidote-group mineral, which forms more or less randomly oriented, sub/euhedral crystals mostly <0.4 mm, also lacks colour or pleochroism, which together with pale bluish and lime yellow (to locally higher, normal) interference colours suggest an Fe-poor variety, possibly clinozoisite (?). The carbonate, which occurs in irregular patches up to about 2 mm across, some of which are nucleated on or surround pyrrhotite, displays strong relief on rotation, distinct brown to strongly limonite stained appearance, and no reaction to HCl in hand specimen, suggestive of an Fe-carbonate such as siderite (?). Rarely, it contains traces of a dark green chlorite (subhedral outlines to ~50 um, but composed of randomly oriented minute flakes mostly <5 um). The aggregates are locally associated with interstitial aggregates to ~1.5 mm of clear quartz (likely secondary, subhedral crystals to ~1 mm).

In summary, this is semi-massive sulfide (mainly pyrrhotite, partly oxidized to secondary pyrite-marcasite; very minor chalcopyrite) in a gangue matrix of pale green amphibole (tremolite-actinolite?), colourless epidote-group mineral (clinozoisite?), lesser Fe-carbonate (siderite?) and minor quartz, associated with traces of chlorite. It might represent skarn alteration of mafic rock (?).

M898063C: GANGUE MATRIX OF PALE GREEN AMPHIBOLE (ACTINOLITE?), COLOURLESS EPIDOTE-GROUP MINERAL (CLINOZOISITE?), LESSER FE-CARBONATE (SIDERITE?) AND MINOR QUARTZ OR PLAGIOCLASE, WITH HEAVILY DISSEMINATED SULFIDE (MAINLY PYRRHOTITE, LARGELY OXIDIZED TO SECONDARY PYRITE-MARCASITE; MINOR CHALCOPYRITE)

Hand specimen shows dark/light grey-green, medium-grained, very weakly foliated rock of uncertain derivation, containing prominent pale-coloured patches or possible relict phenocryst or porphyroblast (?) sites with angular outlines up to almost 1 cm, and strongly disseminated sulfides (mainly pyrrhotite; extensive dark chocolate brown gossanous stain on the exterior weathered surfaces, distinct magnetism). The rock shows no reaction to cold dilute HCl, and no stain for K-feldspar in the etched offcut. Modal mineralogy in polished thin section is approximately:

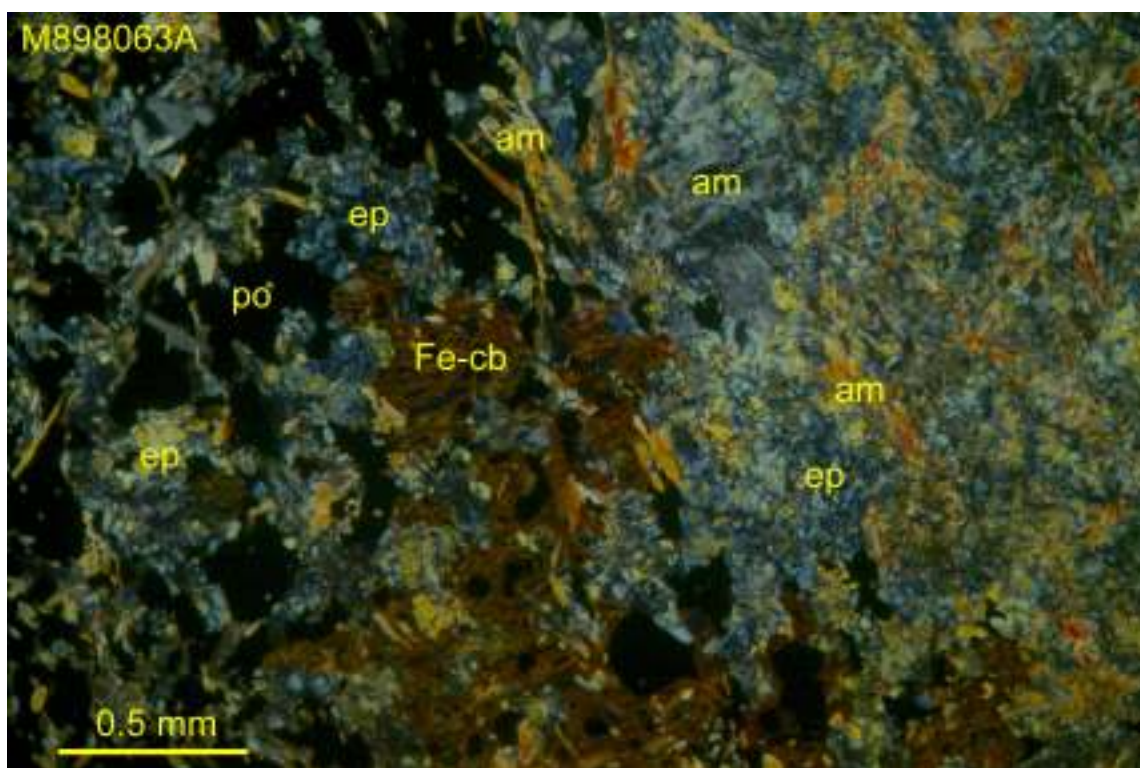
Amphibole (actinolite?)	35%
Epidote-group (clinozoisite?)	30%
Pyrrhotite (incipiently/weakly oxidized to pyrite/marcasite)	20%
Fe-carbonate (mainly siderite?)	12%
Chalcopyrite	1-2%
Quartz or plagioclase? (secondary)	1%
Limonite (goethite/hematite, after sulfides)	<1%

This sample consists of heavily disseminated sulfides (mainly pyrrhotite) in a gangue matrix of pale green amphibole, colourless epidote-group mineral, lesser Fe-carbonate commonly associated with or partly altered to limonite, and minor quartz (likely secondary). Apart from the fact that pale-coloured areas in hand specimen are gangue-rich, little else can be said about their origin (relict porphyroblasts of gangue mineral?). Limonite also occurs on late fractures.

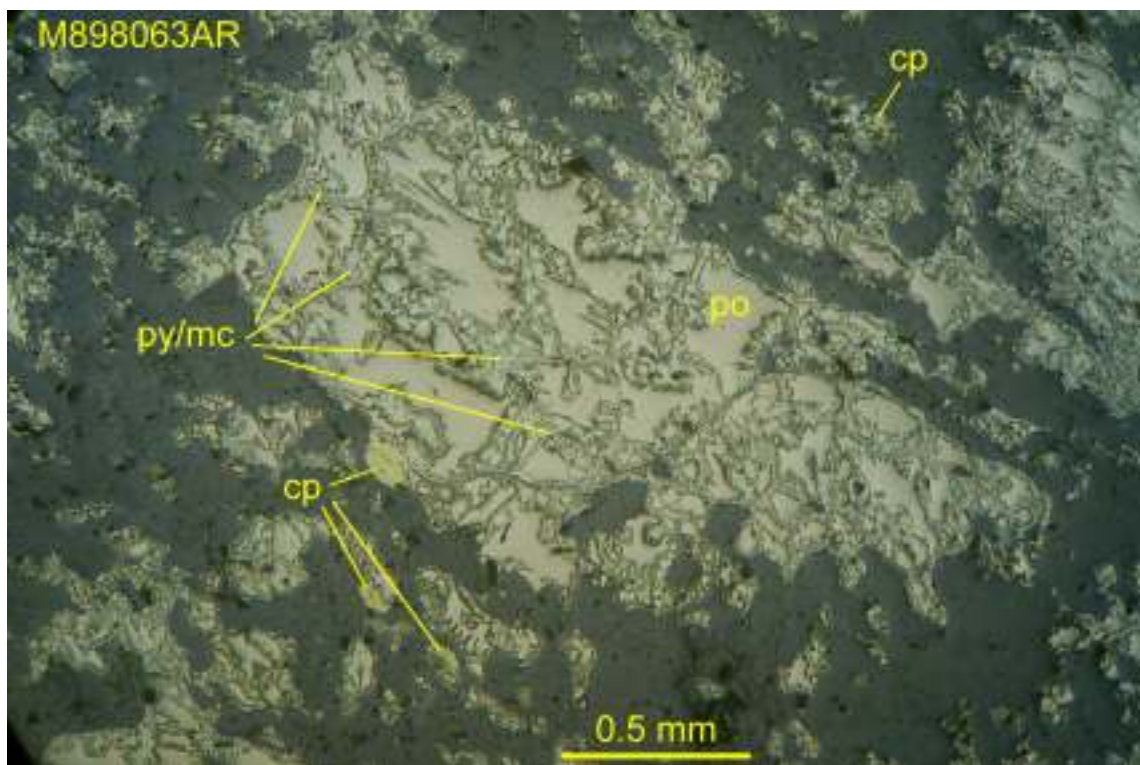
Gangues making up almost 75% of the section comprise amphibole commonly intimately intermixed with epidote-group mineral, and local, partly strongly limonite-stained, Fe-carbonate and minor quartz, surrounding pyrrhotite in places. The amphibole forms slender, mostly euhedral laths <0.25 mm long (locally up to ~0.4 mm), commonly (but not everywhere) somewhat aligned, defining a very weak foliation. Distinct but pale green colour/pleochroism and extinction angle up to ~20° suggest it is likely a middle member of the tremolite-actinolite series or tending to actinolite. The epidote-group mineral, which forms more or less randomly oriented, sub/euhedral crystals up to about 0.6 mm, also lacks colour or pleochroism, which together with pale bluish and lime yellow to locally higher, normal interference colours suggests an Fe-poor variety, possibly clinozoisite (?). The carbonate, which occurs in irregular patches up to about 2 mm across, some of which are nucleated on or surround pyrrhotite, displays strong reflectance, positive relief, pale brownish to strongly limonite stained appearance, and no reaction to HCl in hand specimen, suggestive of an Fe-carbonate such as siderite (?). The aggregates are locally associated with interstitial aggregates to ~1 mm of a clear silicate that looks like quartz (secondary, subhedral crystals to ~0.5 mm) identified in the previous slide, but negative interference figures suggest it could actually be plagioclase (?).

The sulfides are mainly pyrrhotite, occurring as very ragged, highly irregular bleb-like concentrations up to about 3 mm long (somewhat elongated in the weakly defined plane of foliation) composed of interlocking rounded subhedra mainly <0.5 mm in diameter, locally partly plucked out by section preparation to leave rounded/subhedral voids. Pyrrhotite is typically partly to largely oxidized (although a few patches are virtually unoxidized), starting around margins and along grain boundaries or fractures, to secondary pyrite/marcasite as subhedra mainly <50 µm/rounded aggregates <50 µm respectively, with very well-developed lamellar or “bird’s-eye” texture. Minor chalcopyrite, locally forming ragged, highly irregular anhedral to subhedral <0.3 mm, is intimately intergrown with the pyrrhotite, mainly around the margins or locally included within it.

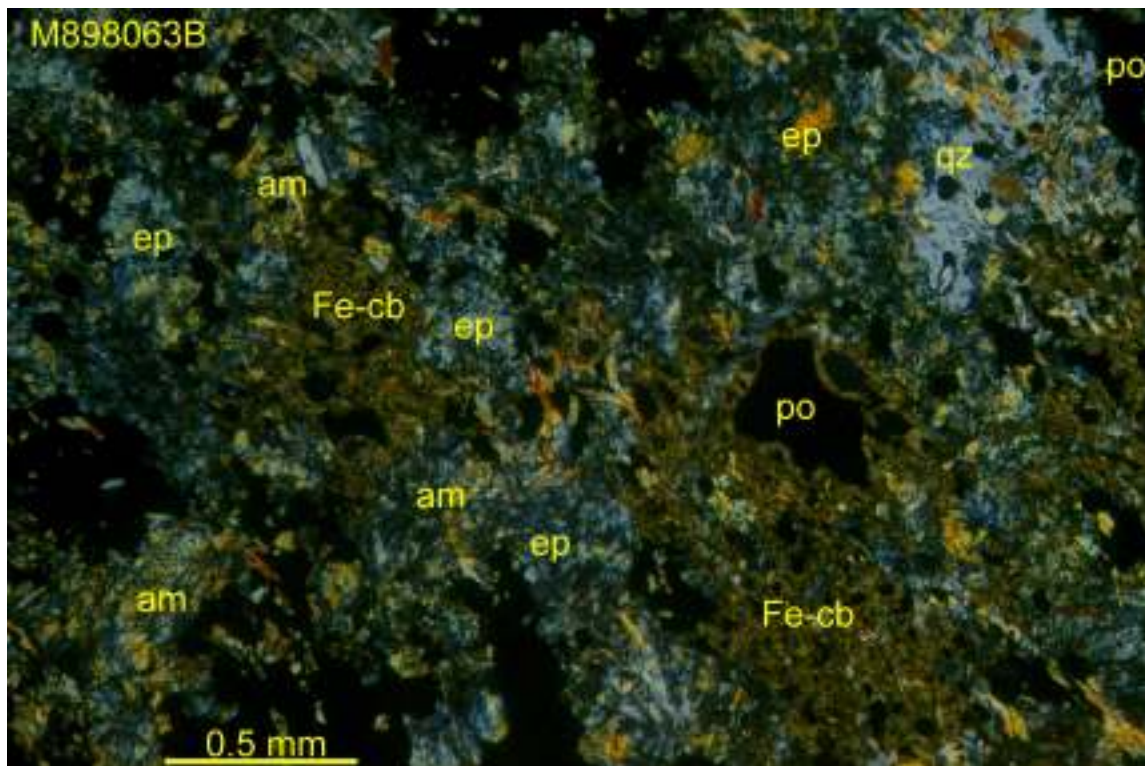
In summary, this consists of gangue matrix of pale green amphibole (actinolite?), colourless epidote-group mineral (clinozoisite?), lesser Fe-carbonate (siderite?) and minor quartz or plagioclase, with heavily disseminated sulfide (mainly pyrrhotite, largely oxidized to secondary pyrite-marcasite; minor chalcopyrite). It might represent skarn alteration of mafic/intermediate rock (?).



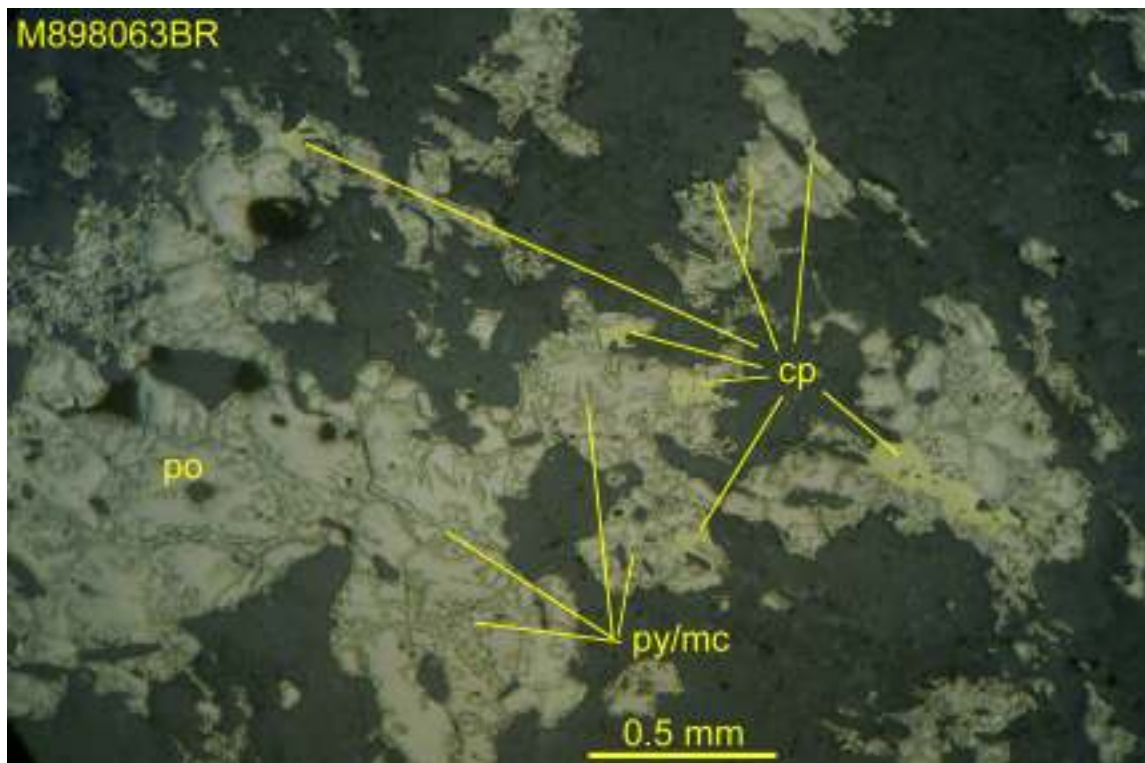
M898063A: Gangue matrix of lath/needle-like amphibole (am, likely tremolite-actinolite), epidote-group mineral (ep, possibly zoisite/clinozoisite?) and limonite-stained Fe-carbonate (cb) closely associated with pyrrhotite. Transmitted light, crossed polars, field of view ~3 mm wide.



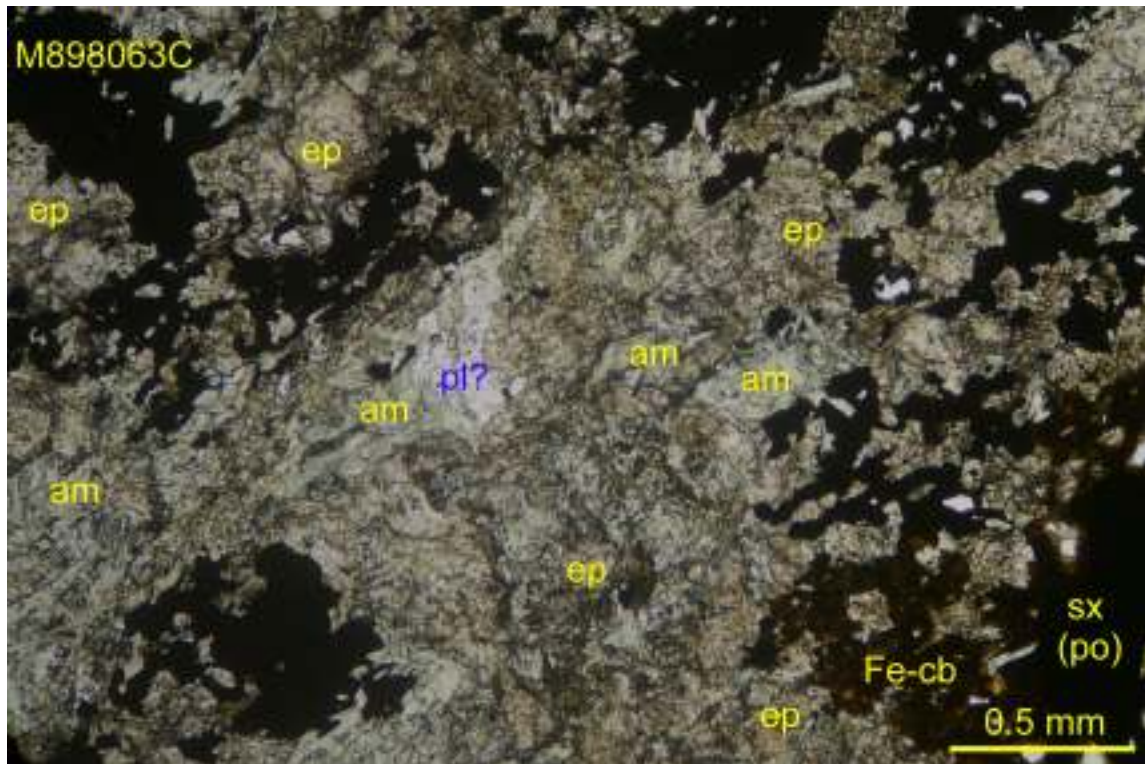
M898063AR: Semi-massive pyrrhotite (po) partly oxidized along margins, fractures and grain boundaries to secondary pyrite-marcasite (py-mc), and locally intergrown with very minor chalcopyrite (cp). Reflected light, uncrossed polars, field of view ~3 mm wide.



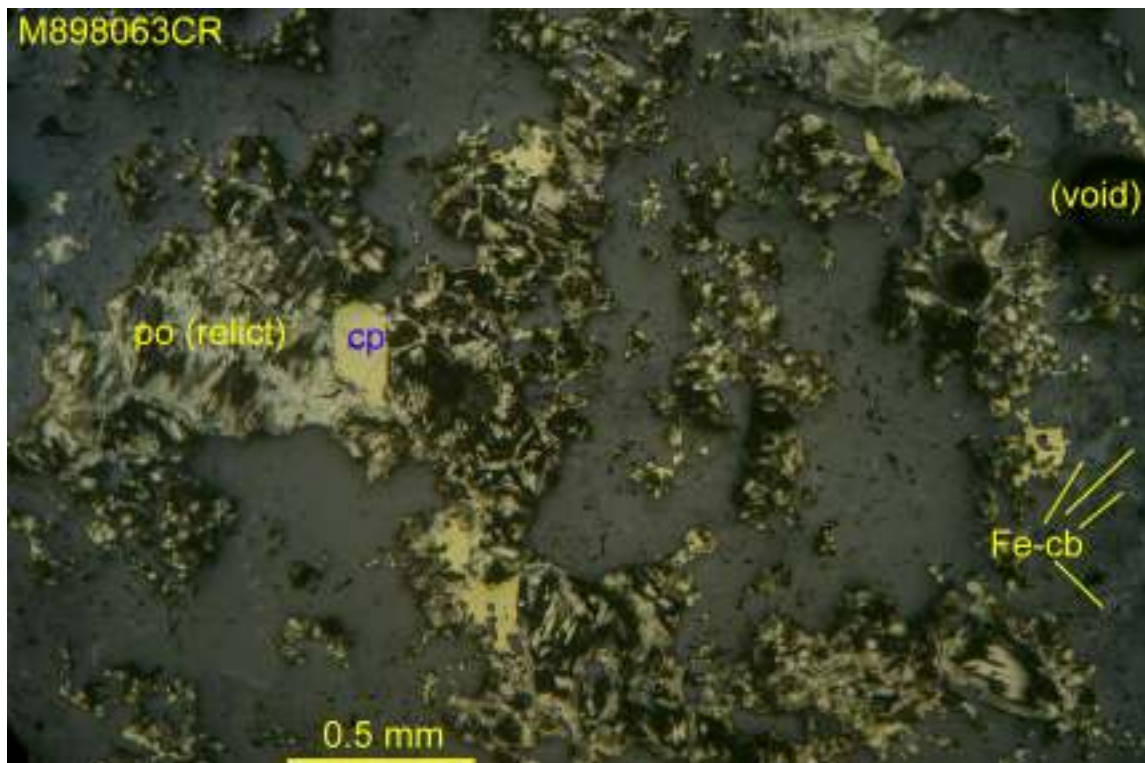
M898063B: Possible skarn (?) alteration displayed by gangue mineralogy of amphibole (am, tremolite-actinolite?), epidote (ep, possibly clinozoisite?), Fe-carbonate (cb, possibly siderite?) and local secondary quartz (qz) closely associated with sulfides (mainly pyrrhotite, opaque). Transmitted light, crossed polars, field of view ~3 mm wide.



M898063BR: Semi-massive pyrrhotite (po) partly oxidized along margins, fractures and grain boundaries to secondary pyrite-marcasite (py-mc), and locally intergrown with minor chalcopyrite (cp). Reflected light, uncrossed polars, field of view ~3 mm wide.



M898063C: Gangue matrix of pale green, likely actinolitic amphibole, pale-coloured epidote (clinozoisite?) and limonite-stained Fe-carbonate (siderite?) plus local clear quartz or plagioclase (?), associated with irregular blebs of sulfide (see below). Transmitted plane light, field of view ~3 mm wide.



M898063CR: Pyrrhotite largely oxidized to lamellar-textured pyrite/marcasite and partly plucked out to leave rounded voids, intergrown with subordinate, ragged irregular to locally subhedral chalcopyrite, in gangue matrix as described above. Reflected light, uncrossed polars, field of view ~3 mm wide.



Overviews of thin sections and offcuts (blue semi-circles mark photomicrograph locations).

