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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING AND PROSPECTING

at the

SNAIL PROPERTY

SNAIL 1-54	YD119881-YD119934
55-106	YF3115-YF31166
109-122	YF31169-YF31182
127-140	YF31187-YF31200
145-260	YF31205-YF31320
261-262	YF31201-YF31202
JAR 1-16	YD118311-YD118326

located at

NTS 105K/12 and 105L/09 and 16
Latitude 63°02'N; Longitude 134°01'W

Field work performed between August 6 and 14, 2012

in the

Whitehorse Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

SILVER RANGE RESOURCES LTD.

by

C.J. Chung, B.Sc. Geology, GIT
January 2013

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INTRODUCTION

The Snail property is located in the Anvil Range of the Pelly Mountains. It was staked to cover a historical quartz vein showing that hosts highly elevated silver, lead, and zinc values. It is located within a favourable geological and geochemical trend that encompasses Silver Range Resources Ltd.'s Keg property, which covers a bulk-tonnage silver-zinc-lead-copper deposit and numerous silver-rich veins. Silver Range holds a 100% interest in the Snail property.

This report describes geochemical sampling and prospecting conducted by Archer, Cathro & Associates (1981) Limited on behalf of Silver Range between August 6 to 13, 2012. The author interpreted the data from this project and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Snail property consists of 268 contiguous mineral claims, which are located on NTS map sheet 105K/12 and 105L/09 at latitude 63°02' north and longitude 134°01' west (Figure 1). The property covers an area of approximately 5400 ha (54 km²). The claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Silver Range. 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>
SNAIL 1-54	YD119881-YD119934	March 13, 2016
SNAIL 55-106	YF3115-YF31166	March 13, 2016
SNAIL 109-122	YF31169-YF31182	March 13, 2016
SNAIL 127-140	YF31187-YF31200	March 13, 2016
SNAIL 145-260	YF31205-YF31320	March 13, 2016
SNAIL 261-262	YF31201-YF31202	March 13, 2016
JAR 1-16	YD118311-YD118326	March 13, 2016

* Expiry date includes 2012 work that has been filed for assessment credit but not yet accepted.

The 2012 exploration program was conducted from two four-person fly camps located on the property. The crew was mobilized and supplied using an A-Star B3 helicopter and a Hughes 500D helicopter that were operated by Trans North Helicopters from a drill camp on the Keg property, which is located approximately 40 km to the southeast.

The town of Faro is the nearest supply centre and is situated about 60 km southeast of the claim block. Faro is accessible via the Robert Campbell Highway in all seasons using two-wheel drive vehicles.

HISTORY AND PREVIOUS WORK

The north-central part of the current Snail property was first staked in 1981 as the Wad claims by Anaconda Canada Exploration Ltd. following a program of regional airborne magnetic and electromagnetic geophysical surveys. These surveys indicated a large number of EM conductors

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

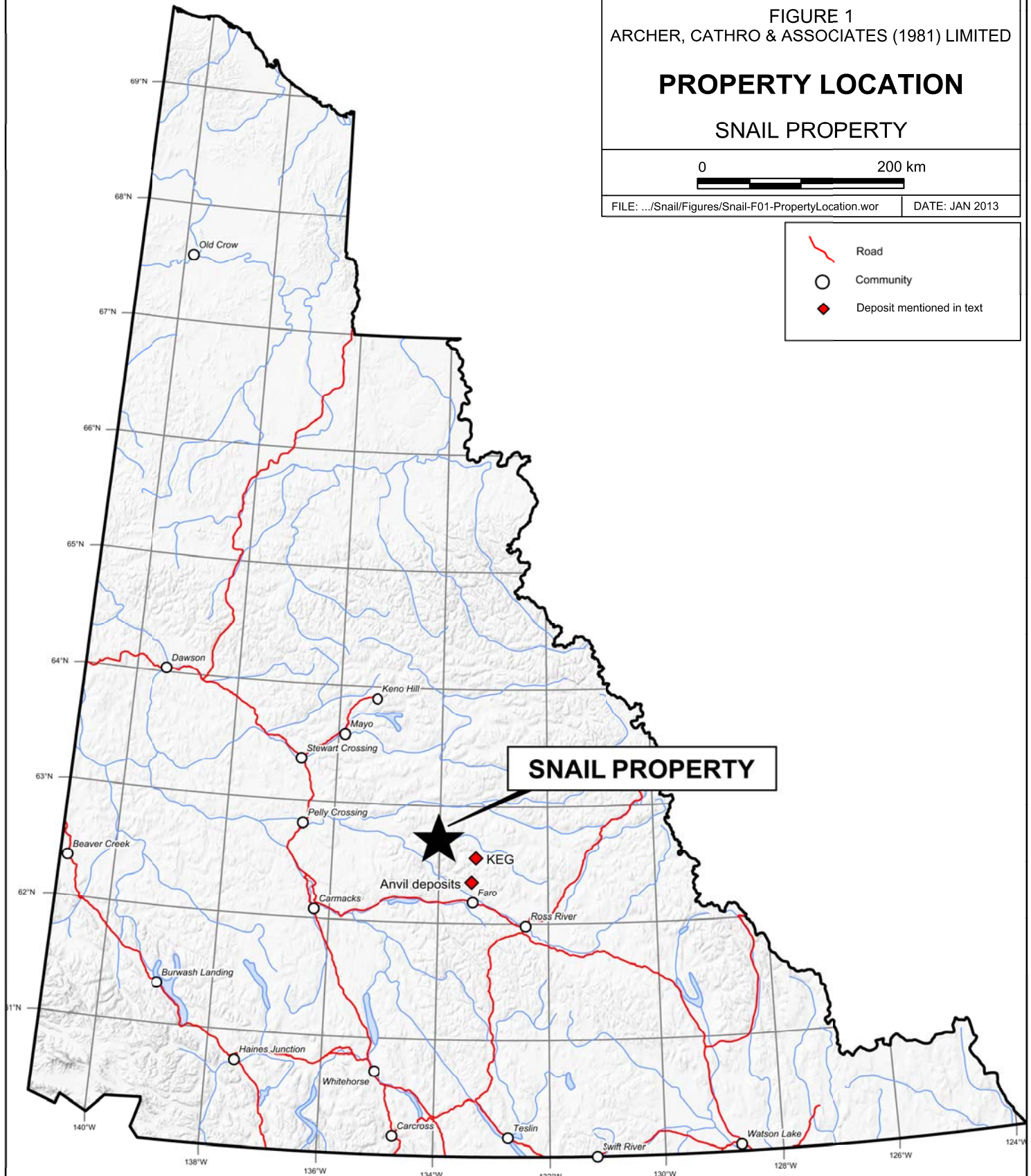
SNAIL PROPERTY

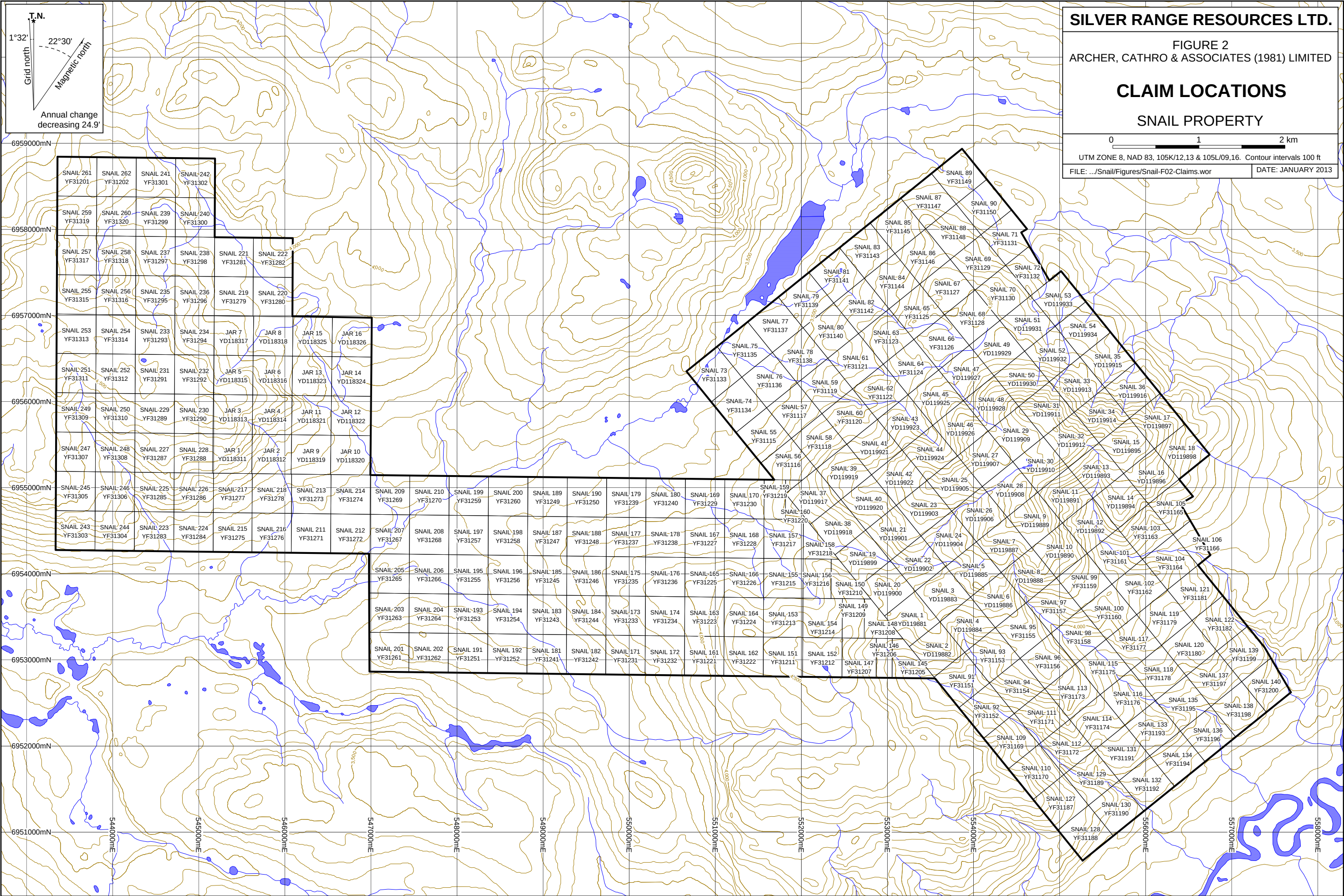
0 200 km

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DATE: JAN 2013

-  Road
-  Community
-  Deposit mentioned in text





that showed a close correlation with the known geology (Carlson, 1981). In 1982, additional geophysical surveys were completed by Anaconda on the Wad claims to better define and further investigate the EM conductors. Work included electromagnetic (HLEM and VLF-EM), magnetic and gravity surveys, on two test lines. Several conductors were found to be coincident with magnetic highs, but none of the conductors coincided with weak residual gravity highs. The two survey lines were too far apart to correlate the data between them with confidence (Scott A.R., 1982). No further work was recommended and the Wad claims were allowed to expire.

Also in 1981, Getty Canadian Metals Limited staked the Jar claims, which covered the northwest part of the current Snail property, after reconnaissance mapping and prospecting located a 20 m thick barite horizon in Devonian-Mississippian sediments. The barite occurrence had a strike length of at least 1 km and contained up to 41.1% barium. Mapping and prospecting of the barite horizon in 1982 traced it 4.5 km to the west and 1 km to the east. A pyrite horizon was found stratigraphically above the barite horizon in a black shale unit. Samples from the pyrite horizon returned up to 1425 ppm zinc and 19.5 ppm silver. Two chip samples from a quartz vein situation immediately east of Getty's Jar claim block were also collected. These samples returned 751 g/t silver, 6.3% lead and 0.64% zinc, and 1851 g/t silver, 6.35% lead and 1.31% zinc (Hulstein, 1982). No further work was reported and the claims subsequently lapsed.

In 1988, the Geological Survey of Canada (GSC) conducted a low-density stream sediment and water sampling survey on NTS map sheet 105K and 105L (Friske et al., 1989). Thirteen samples were taken from creeks draining the Snail property. The highest gold value (25 ppb) from the survey came from a sample collected in a drainage immediately south of the property, while a moderate arsenic value (82 ppm) was obtained from a northwest flowing stream in the east-central part of the property.

Strategic Metals Ltd. staked the Jar 1-16 and Snail 1-54 claims in November 2010. In summer 2011, it sold both claim blocks to Silver Range, which performed geochemical sampling and prospecting later that year to confirm historical data. Geochemical sampling on the Snail claims identified a zone with anomalous multi-element results (Zone 1). Hand samples from quartz veins at Zone 1 returned up to 0.58 g/t gold, 0.6% copper, 1470 ppm arsenic, 0.7% zinc, 114 ppm tin, 6.78 ppm indium, 562 ppm bismuth, 6.97 ppm tellurium and 9.81 g/t silver. Soil sampling on the Jar claims returned strongly elevated results for several elements. This anomaly (Zone 2) encompasses the silver-lead-zinc veins previously discovered by Getty (Mitchell, 2012).

Silver Range staked additional claims to expand and connect the two claim blocks after receiving the encouraging soil geochemical results.

GEOMORPHOLOGY

The Snail property is situated in the Anvil Range of the Pelly Mountains and is drained by creeks that flow into the Tay River to the south and Earn Lake to the northwest. These bodies of water ultimately connect to the Pacific Ocean via the Pelly and Yukon rivers.

The property covers an area of mountains and ridges that is cut by the Tay River Valley. Local elevations range from about 945 to 1740 m above sea level (asl), with treeline at approximately 1500 m asl. About 80% of the property lies below treeline where vegetation is characterized by spruce and poplar forests with an understory of dwarf birch, mountain alder and sphagnum moss. At higher elevations, vegetation is limited to low-lying grasses, staghorn moss and sparse brush. Outcrop is locally abundant and generally found on ridge crests, steep slopes and deep creek cuts.

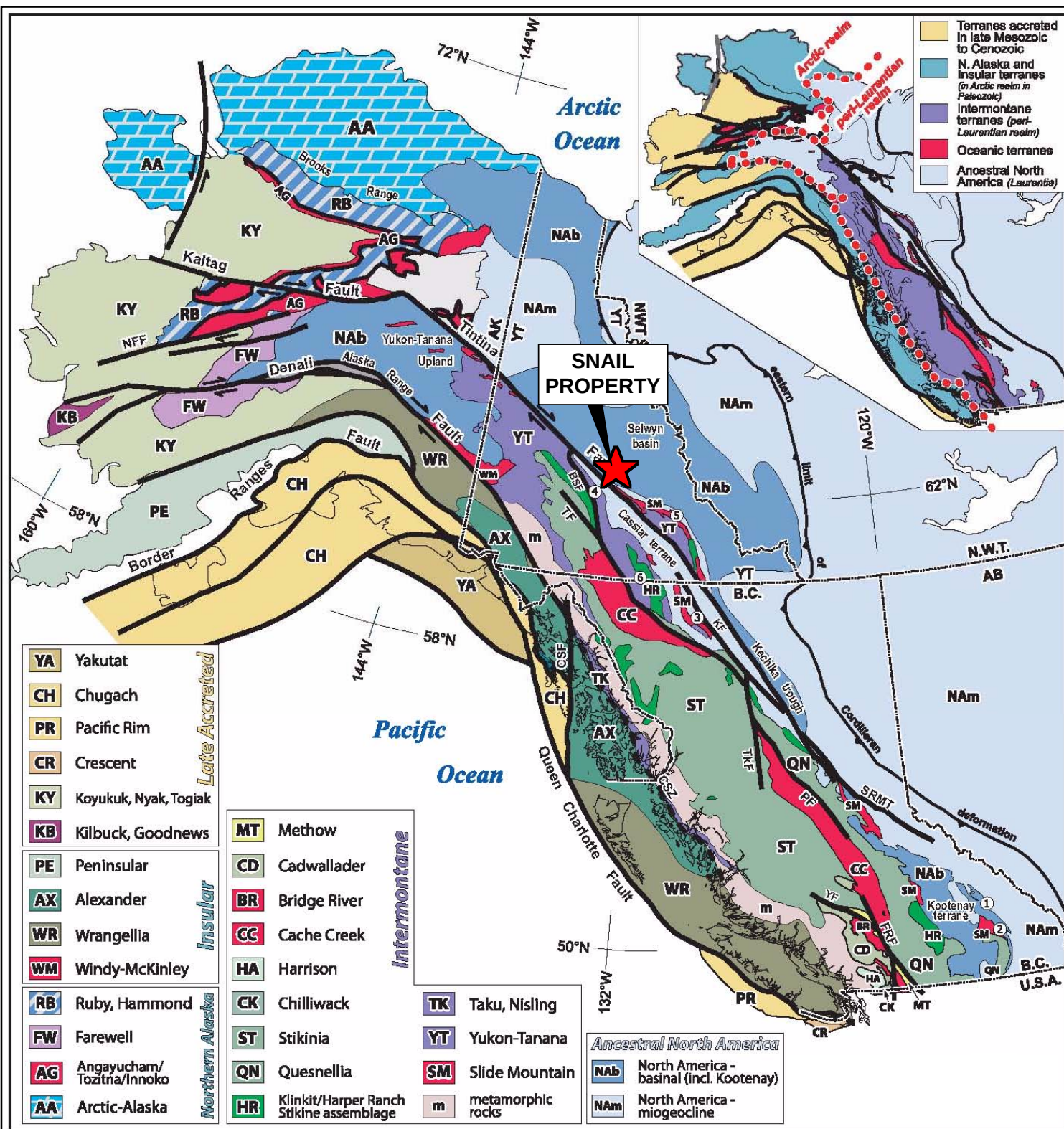
Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010). The Tay River map area was covered by the Selwyn Lobe of the Cordilleran ice sheet. A complex system of ice-caps and cirque glaciers was active at higher elevations in the Pelly Mountains and contributed to the ice bodies surrounding them.

The climate at the Snail property is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively warm, snowfall can occur at any month. The property is mostly snow free from mid May to late September.

REGIONAL GEOLOGY

The Snail property is situated in the west-central part of Selwyn Basin (Figure 3), a tectonic element comprising deep water clastic rocks, chert and minor carbonate accumulated along the North American continental margin during Paleozoic time. The basin is bound to the northeast by a shallow carbonate platform (Mackenzie Platform), which formed the near-shore facies of ancient North America (Abbott et al, 1986).

The claims lie within the Anvil Zinc-Lead-Silver District, which has been the focus of numerous government and industry sponsored studies since the 1953 discovery of the Vangorda Deposit. Regional bedrock geology for the Tay River map area (105K) was completed at 1:253,440 scale by Roddick and Green (1961) and at 1:250,000 scale by Gordey and Irwin (1987), while regional bedrock geology for the Glenlyon map area (105L) was completed at 1:250,000 scale by Campbell (1967). More detailed studies of map areas 105K and 105L were completed in 1972 by Tempelman-Kluit at 1:125,000 scale and Wheeler and McFeely in 1991 at 1:250,000 scale, respectively. Gordey and Makepeace completed a Yukon-wide geological compilation in 2003. The Yukon Geological Services maintains a website that updates Yukon geology as new data becomes available.



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FIGURE 3
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TECTONIC SETTING

SNAIL PROPERTY

0 300 km

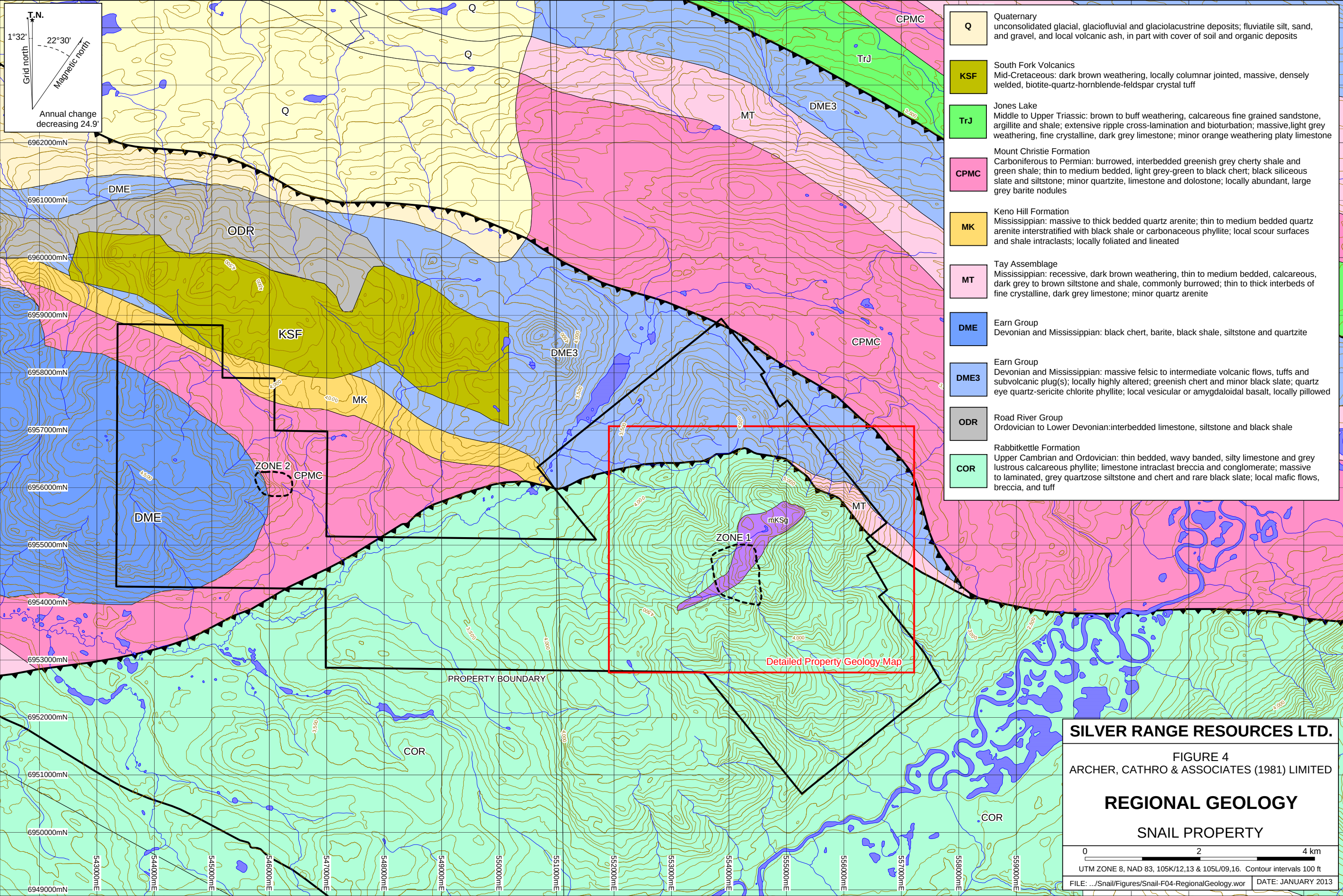
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Figure 4 illustrates geology as compiled by Gordey and Makepeace (2003). The main lithological units are described in Table I.

Table I – Regional Stratigraphic Units (*after Gordey and Makepeace, 2003*)

Unit Name	Age	Map Name	Description
Quaternary	Quaternary	Q	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits.
Selwyn Group	Mid-Cretaceous	mKSg	Resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite.
South Fork Volcanics	Mid-Cretaceous	KSF	Dark brown weathering, locally columnar jointed, massive, densely welded, biotite-quartz-hornblende-feldspar crystal tuff.
Mount Christie Formation	Carboniferous to Permian	CPMC	Burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous slate and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules.
Keno Hill Formation	Mississippian	MK	Massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated.
Tay Assemblage	Mississippian	MT	Mixed, generally fine clastic and carbonate assemblage with locally thick regionally mappable carbonate horizons. Recessive, dark brown weathering, thin to medium bedded, calcareous, dark grey to brown siltstone and shale, commonly burrowed; thin to thick interbeds of fine crystalline, dark grey limestone; minor quartz arenite.
Earn Group	Devonian and Mississippian	DME	Complex assemblage of submarine fan and channel deposits, within black siliceous shale and chert, and including separated small occurrences of felsic volcanic rocks; barite common, and many occurrences of stratiform Pb-Zn.
		DME3	Massive felsic to intermediate volcanic flows, tuffs and subvolcanic plug(s); locally highly altered; greenish chert and minor black slate; quartz eye quartz-sericite chlorite phyllite; local vesicular or amygdaloidal basalt, locally pillowed.
Road River Group	Ordovician to Lower Devonian	ODR	Black shale and chert overlain by orange siltstone or buff platy limestone; locally contains beds as old as Middle Cambrian; correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4.



Rabbitkettle Formation	Upper Cambrian and Ordovician	COR	Thin bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite; limestone intraclast breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia, and tuff.
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PROPERTY GEOLOGY

The following description is based on work done in 1982 by Getty, in 2012 by Silver Range, and at different times by various government mappers.

The property is underlain by an arcuate thrust fault that separates Rabbitkettle Formation rocks in the south from younger sedimentary and volcanic rocks to the north. A second, southeast-northwest trending thrust fault crosses the northeast corner of the property and separates Earn Group in the southwest from Mount Christie Formation to the northeast. A major strike-slip fault (Tintina Fault) is located approximately 22 km southwest of the property.

In the northwestern part of the property, near Getty's historical vein showing, several east-northeast trending diorite dykes reported cut a beige chert horizon of Earn Group (Hulstein, 1982). Rocks of this type are not typically found in Earn Group and the bleached, cherty appearance may be due to hydrothermal sericitization and silicification.

In the summer of 2012, Silver Range completed a geologic map covering an area approximately 4000 meters by 4000 meters within the eastern portion of the Snail claims (Figure 5).

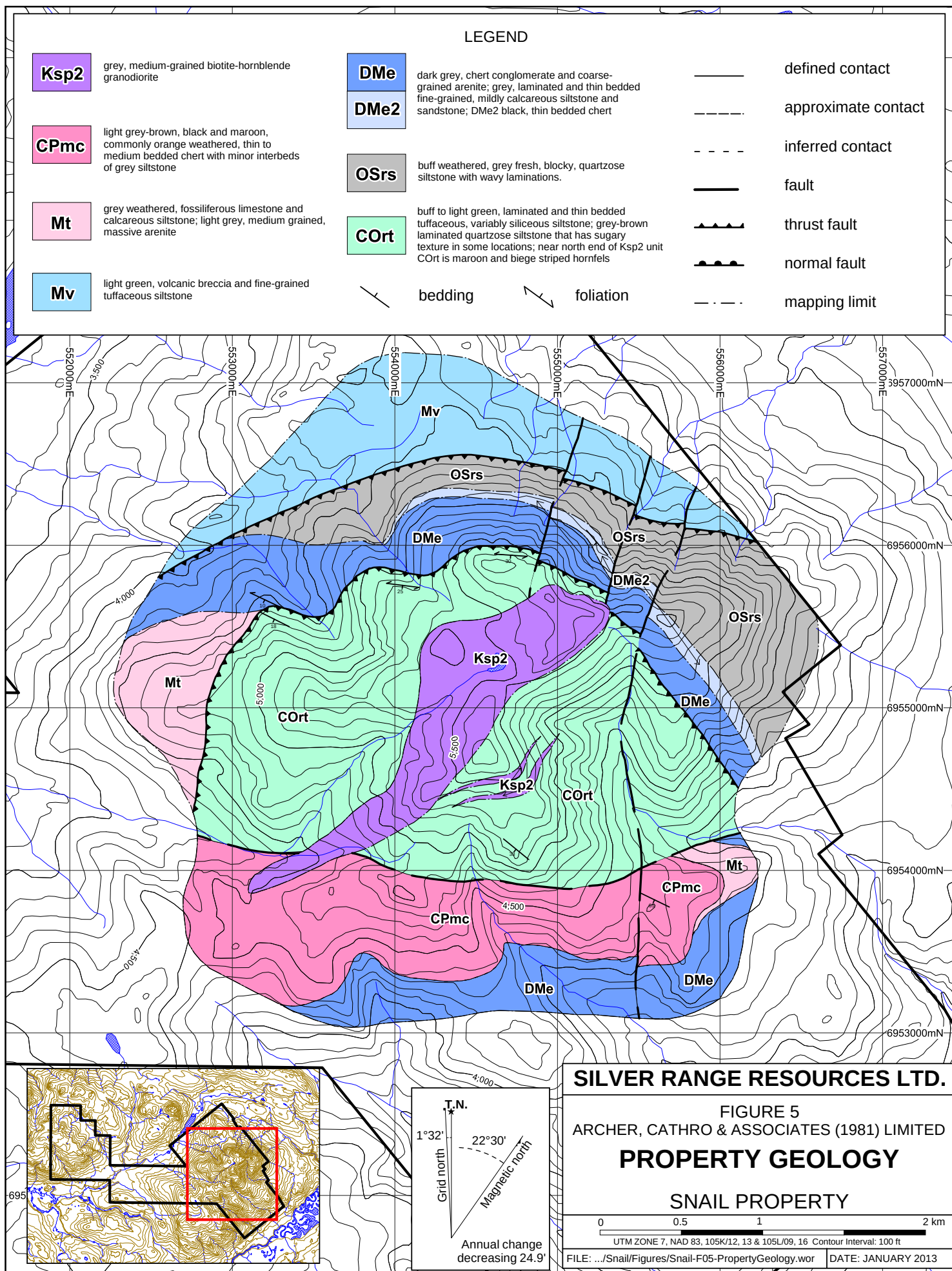
Lithology

Geology in the detailed area comprises Upper Cambrian through Permian aged sedimentary rocks that are cut by small granodiorite intrusion – likely of Mid-Cretaceous age. However, this mapping indicates that geology is more complex than is shown on regional-scale maps.

The Carboniferous to Permian Mount Christie Formation (CPmc) is the youngest stratified Unit in this area. It is dominantly made up of maroon and black ribbon chert that sits conformably on top of the Tay Formation (Mt) and undifferentiated Earn Group (DMe). The Tay Formation comprises light grey weathered, fossiliferous limestone and calcareous siltstone with rare light grey, medium-grained arenite beds. The Earn Group is a variable package of coarse-clastic rocks with minor fine-grained calcareous siltstone and sandstone and one distinct bed of black chert that is approximately 50 m thick. The coarse clastic sections are dominated by chert-pebble conglomerate and coarse-grained chert arenite.

Sitting conformably below the Earn Group is a blocky, buff weathered, grey quartz-rich siltstone that has distinct wavy laminations. This unit is strikingly similar to sections of the Road River Group mapped further southeast and therefore has been assigned to the Road River Group (OSRss).

A light grey-green weathered, volcanic breccia and tuffaceous siltstone crop out all along the northern edge of the mapped area. This unit has been assigned to the Mississippian volcanics



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FIGURE 5

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PROPERTY GEOLOGY

SNAIL PROPERTY

UTM ZONE 7, NAD 83, 105K/12, 13 & 105L/09, 16 Contour Interval: 100 ft

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DATE: JANUARY 2013

(Mv) that sit in upper part of the Earn Group stratigraphy based on regional maps for this area. A thrust fault is inferred between these rocks and the adjacent Road River Group.

The oldest exposed rocks in this area have been grouped with the Upper Cambrian to Lower Ordovician Rabbitkettle Formation (CO_{rt}). Where exposed they comprise light green weathered, laminated and thin bedded, very fine-grained tuffaceous siltstone; grey-brown and dark grey, laminated and thin bedded quartzose siltstone; light grey to white massive quartzose siltstone with a sugary texture.

A northeasterly elongated granodiorite body is exposed in the center of the detailed map area. This body is approximately 2500 m long and ranges from 150 to 600 m wide. Several other smaller dykes branch off from the main body but none of them can be traced for more than 600 m. Sedimentary rocks along the northern edge of the granodiorite body are altered to striped maroon and beige hornfels.

Structure

Bedded units within the detailed map area dip shallowly to moderately to the south. No folding was observed, except minor tight folds within the hornfels very close to the contact with the granodiorite.

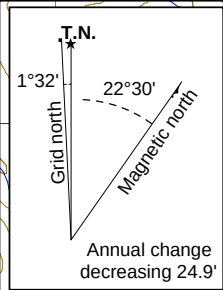
A shallowly dipping thrust fault that places Rabbitkettle Formation over Tay Formation and Earn Group rocks daylight to the north and south of the topographic high in the center of the map area. A second sub-parallel thrust fault is inferred to dip moderately to the south in the northern part of the mapped area placing Road River Group over Mississippian volcanics.

Several normal faults strike north-south and have steep dips. These faults offset the thrust faults but cannot be traced through the granodiorite body.

MINERALIZATION

Carlson (1981) describes showings on the historical Anaconda claims as small, massive to disseminated pyrrhotite zones with associated chalcopyrite and locally significant galena and sphalerite. The host rock is often argillite within the lower to middle part of Road River Group. Mineralization in the northwest part of the Snail property was described by Hulstein (1982) as arsenopyrite and galena in quartz veins that average 20 cm in width. The veins were traced up to 20 m along strike and occur within beige chert.

A total of thirty-five rock samples were collected from the Snail property in 2012. Twenty-three samples are from the eastern portion of the property while the remaining twelve are from the northwestern part. Figure 6 illustrates the sample locations, while results for gold, arsenic, silver, copper, lead, zinc, molybdenum, tin, indium, antimony, bismuth and tungsten are plotted thematically on Figures 7 to 18, respectively. Rock sample descriptions are provided in Appendix II, while Certificates of Analysis are given in Appendix III.



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FIGURE 7
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GOLD GEOCHEMISTRY

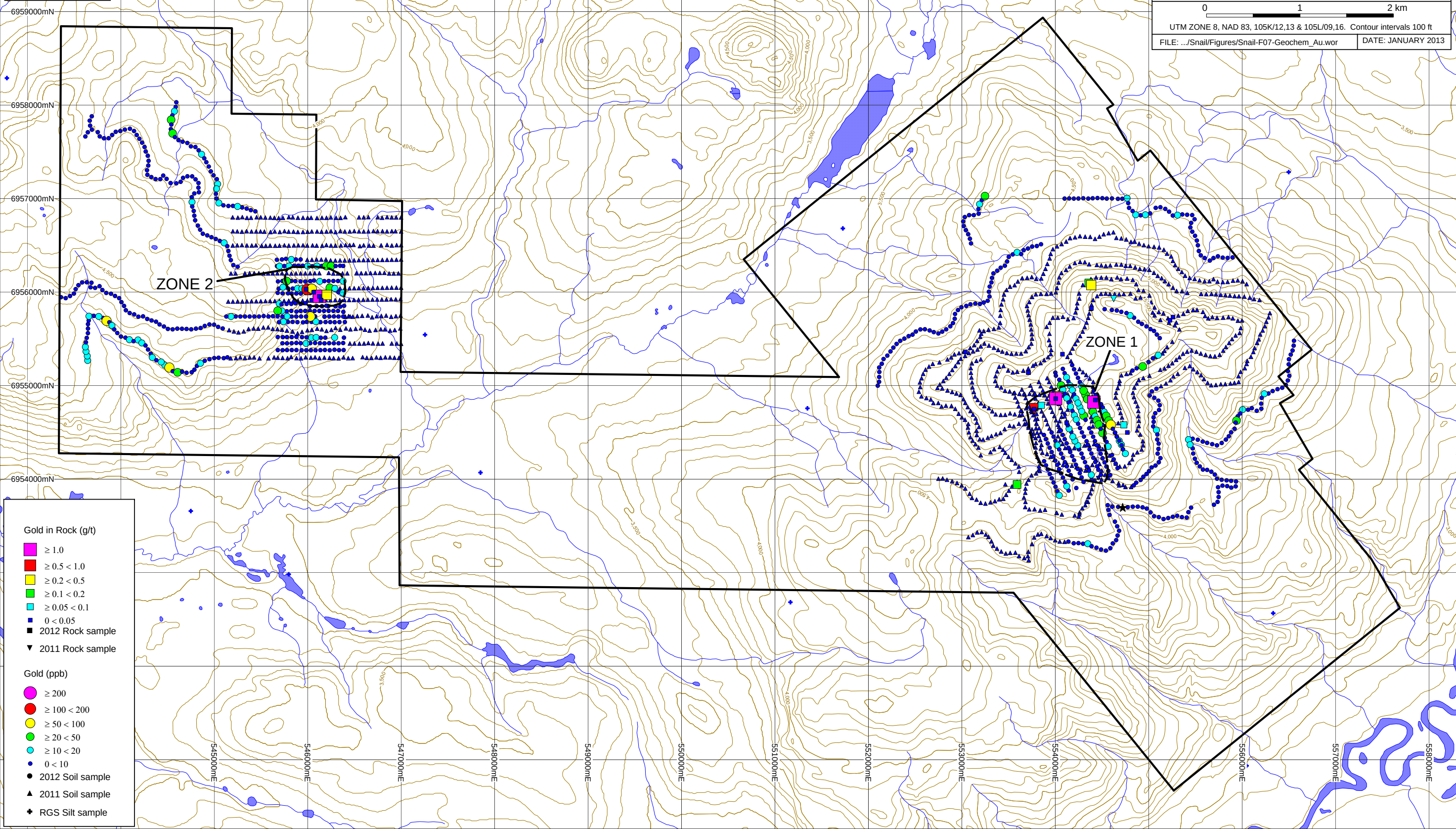
SNAIL PROPERTY

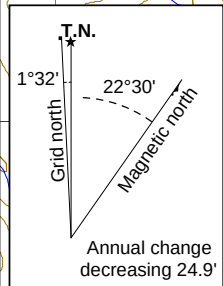
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F07-Geochem_Au.wor

DATE: JANUARY 2013





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FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ARSENIC GEOCHEMISTRY

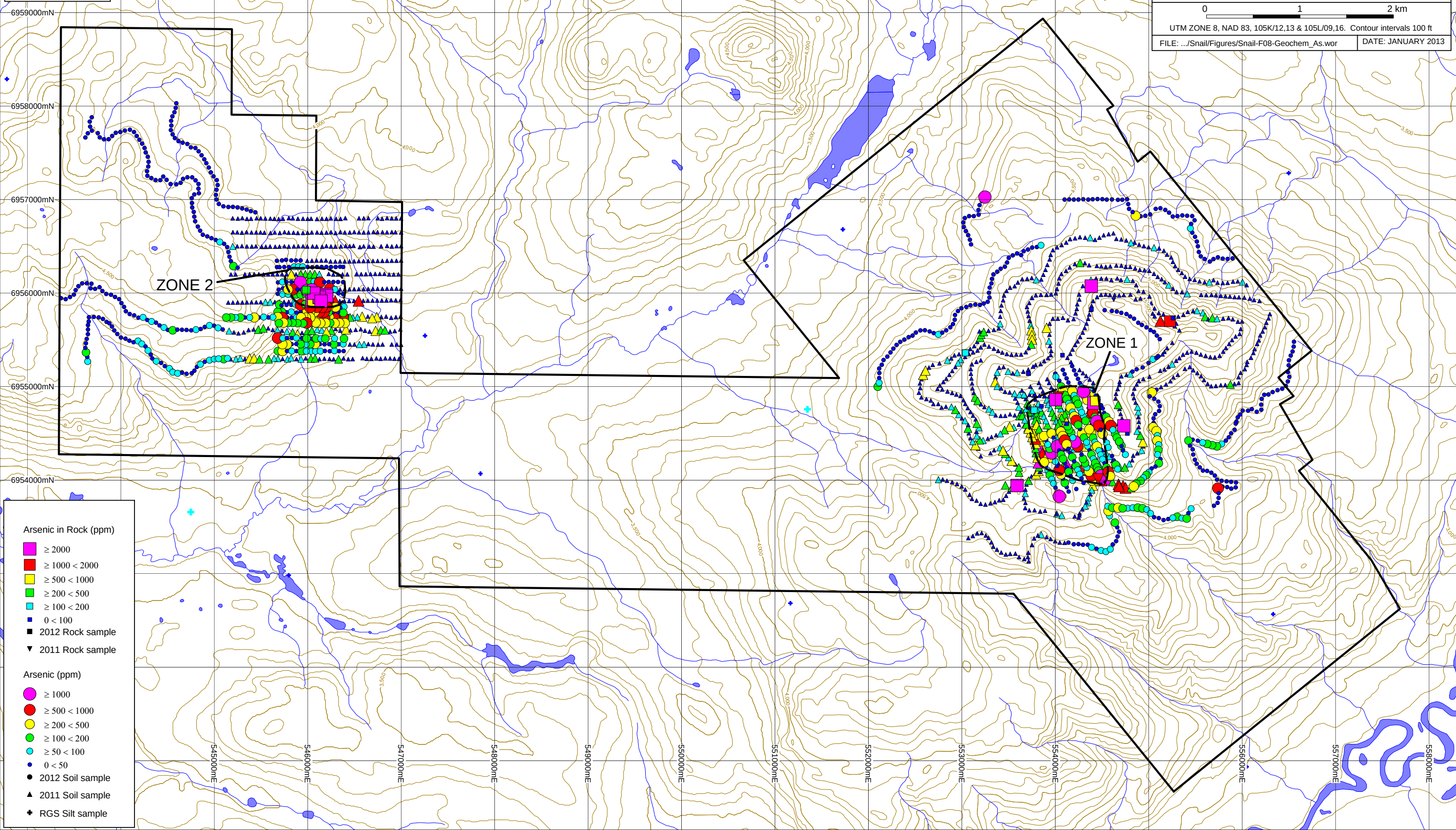
SNAIL PROPERTY

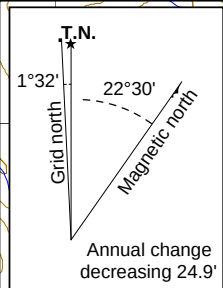
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F08-Geochem_As.wor

DATE: JANUARY 2013





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FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER GEOCHEMISTRY

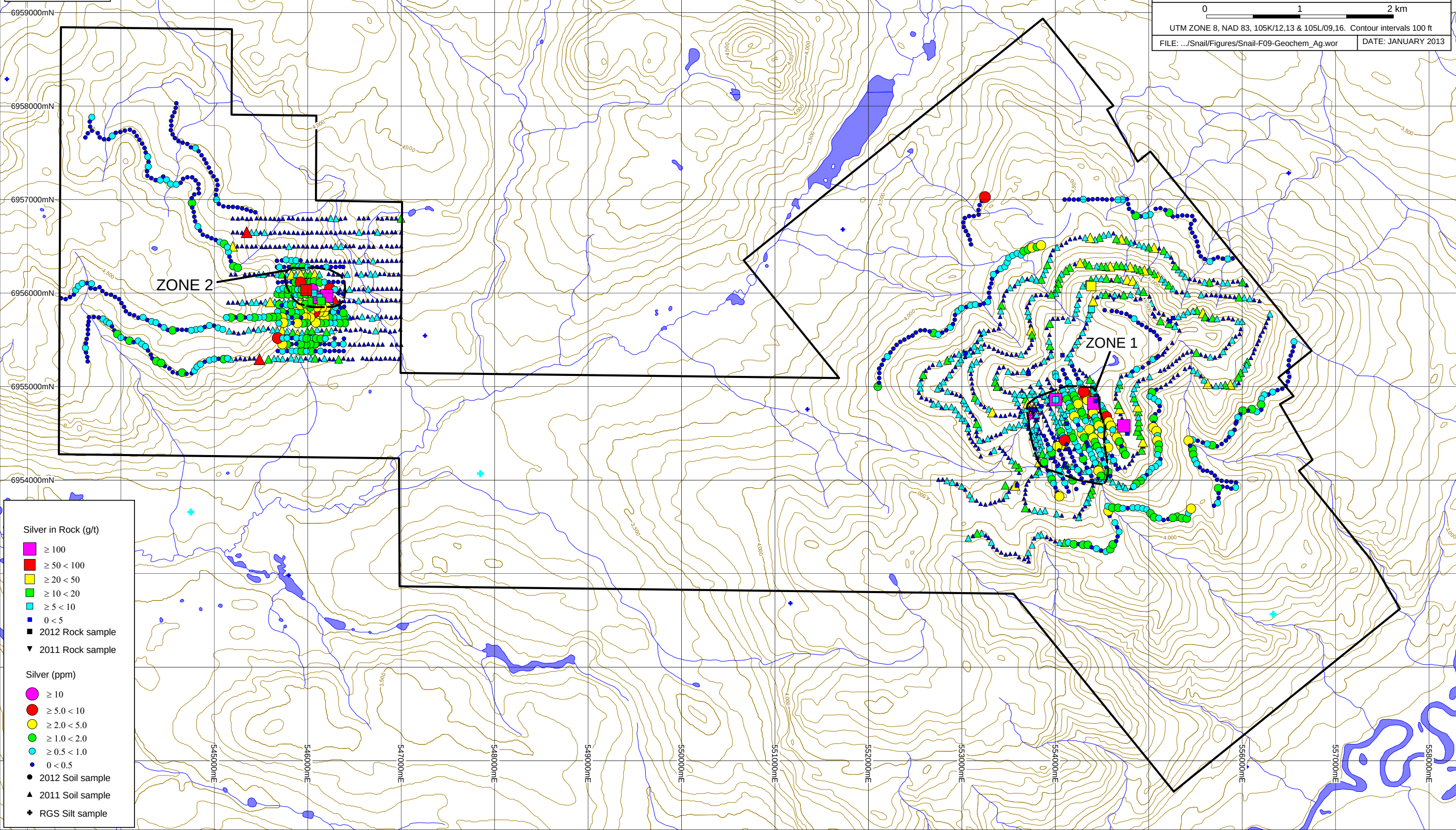
SNAIL PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F09-Geochem_Ag.wor

DATE: JANUARY 2013

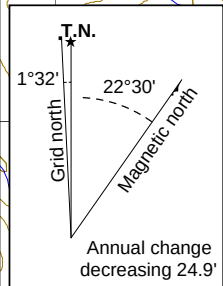


Silver in Rock (g/t)

- ≥ 100
- ≥ 50 < 100
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- 0 < 5
- 2012 Rock sample
- 2011 Rock sample

Silver (ppm)

- ≥ 10
- ≥ 5.0 < 10
- ≥ 2.0 < 5.0
- ≥ 1.0 < 2.0
- ≥ 0.5 < 1.0
- 0 < 0.5
- 2012 Soil sample
- 2011 Soil sample
- RGS Silt sample



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FIGURE 10
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COPPER GEOCHEMISTRY

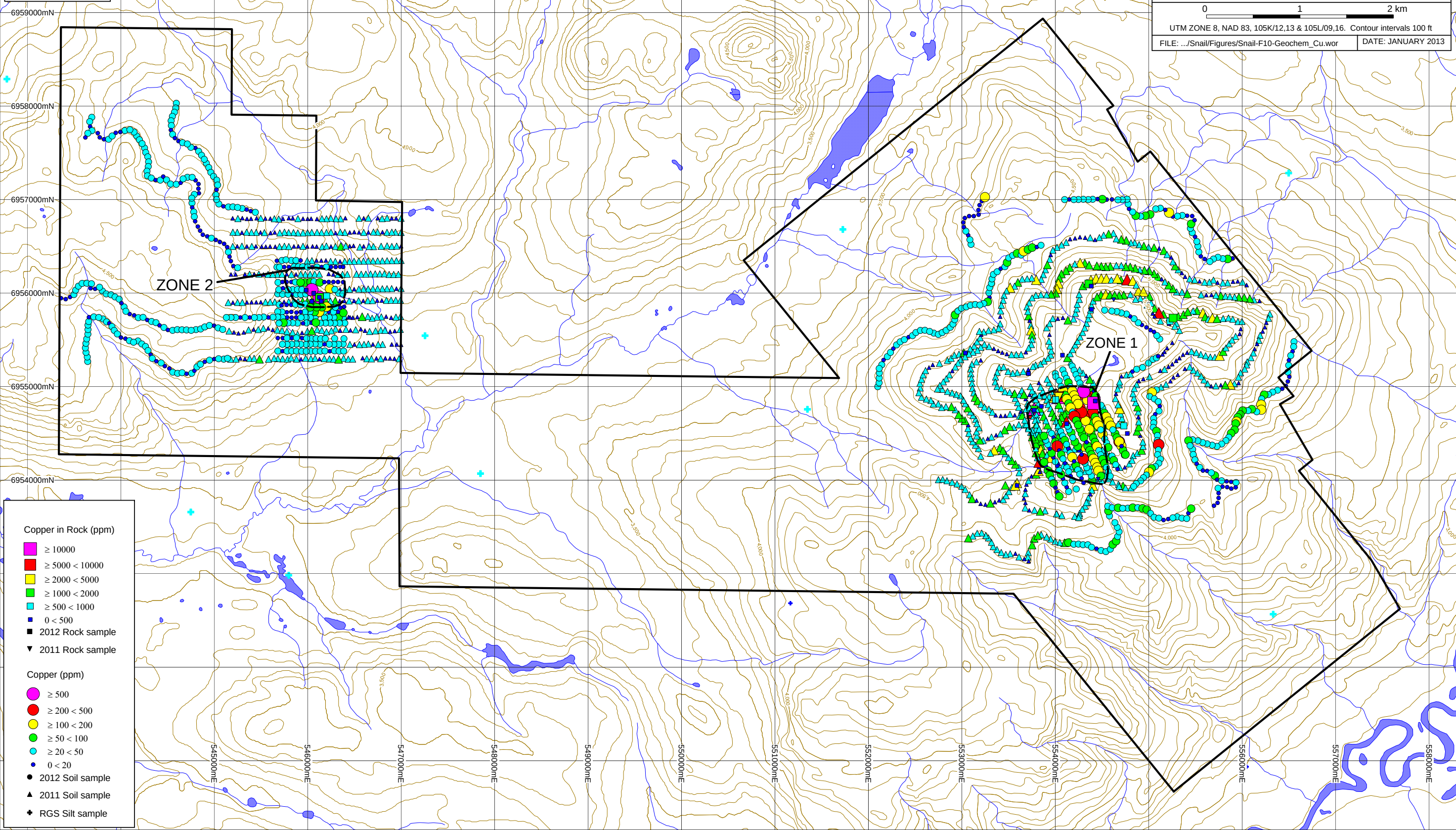
SNAIL PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F10-Geochem_Cu.wor

DATE: JANUARY 2013

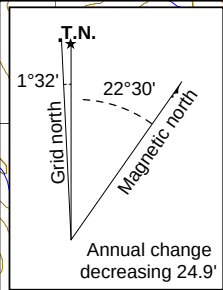


Copper in Rock (ppm)

- ≥ 10000
- ≥ 5000 < 10000
- ≥ 2000 < 5000
- ≥ 1000 < 2000
- ≥ 500 < 1000
- 0 < 500
- 2012 Rock sample
- 2011 Rock sample

Copper (ppm)

- ≥ 500
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- ≥ 20 < 50
- 0 < 20
- 2012 Soil sample
- 2011 Soil sample
- RGS Silt sample



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FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD GEOCHEMISTRY

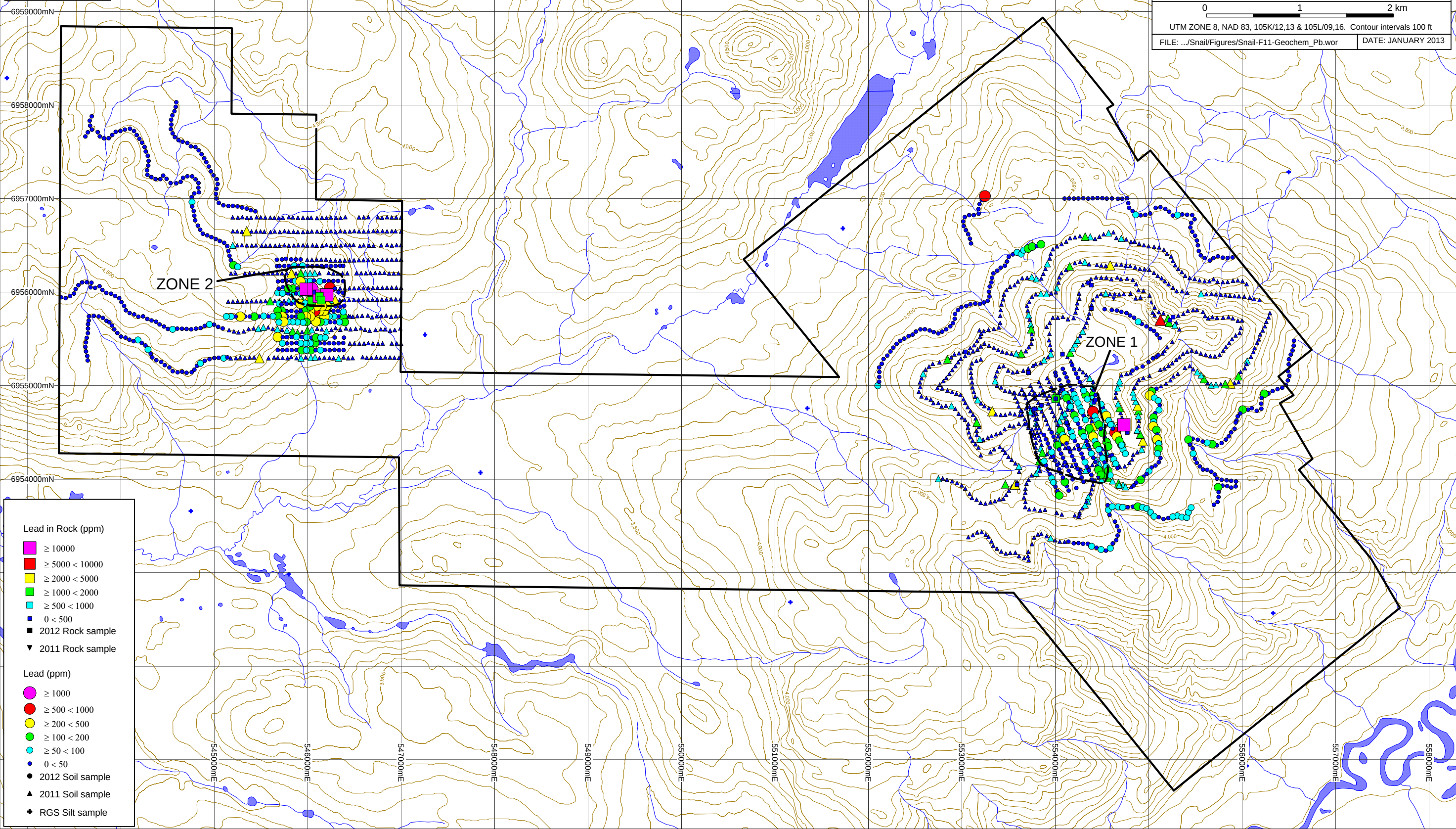
SNAIL PROPERTY

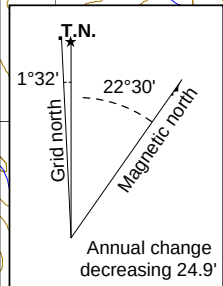
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F11-Geochem_Pb.wor

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FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC GEOCHEMISTRY

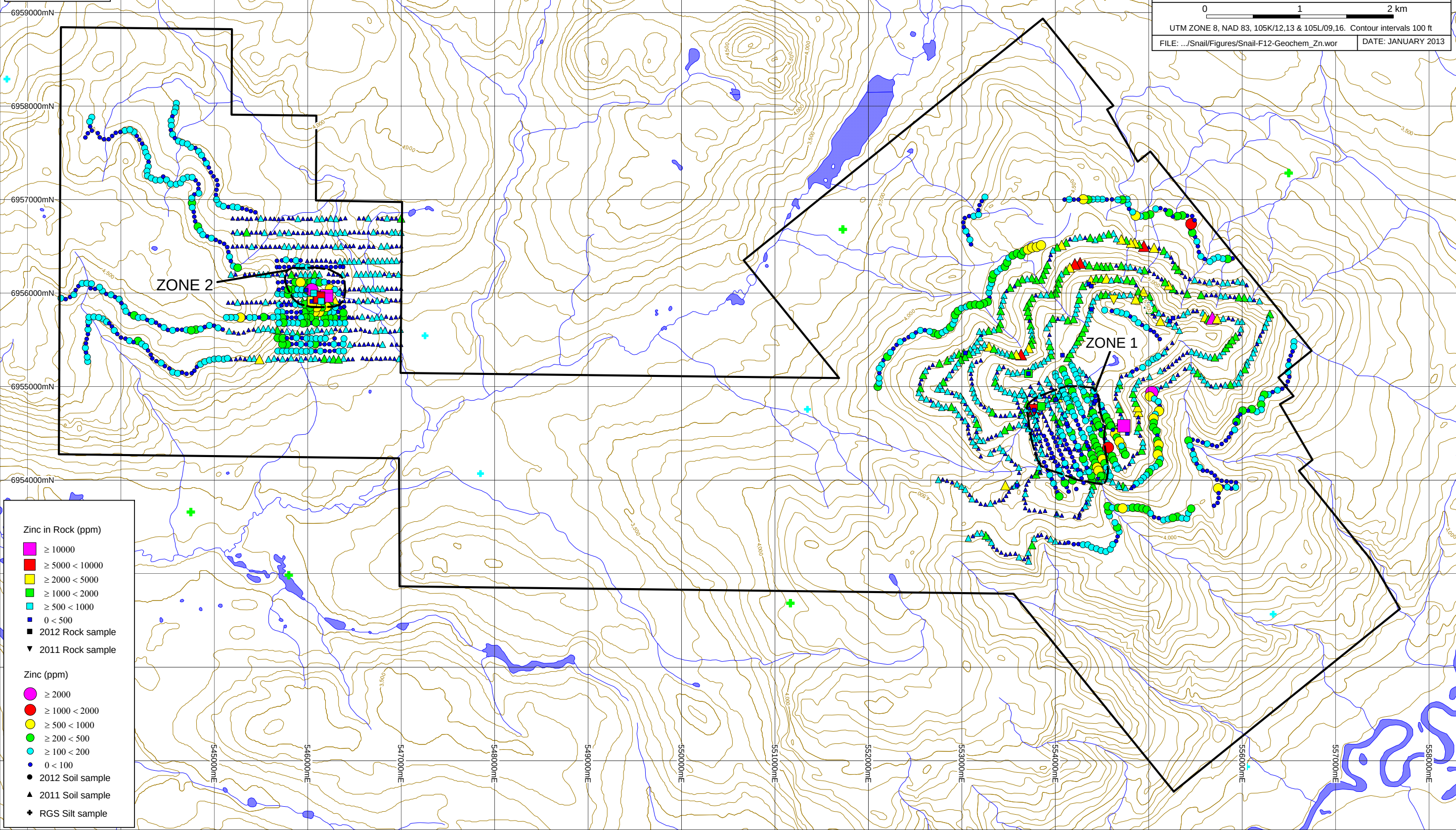
SNAIL PROPERTY

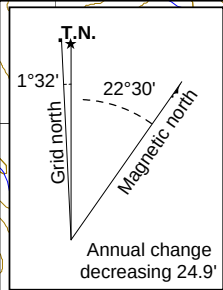
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F12-Geochem_Zn.wor

DATE: JANUARY 2013





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FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MOLYBDENUM GEOCHEMISTRY

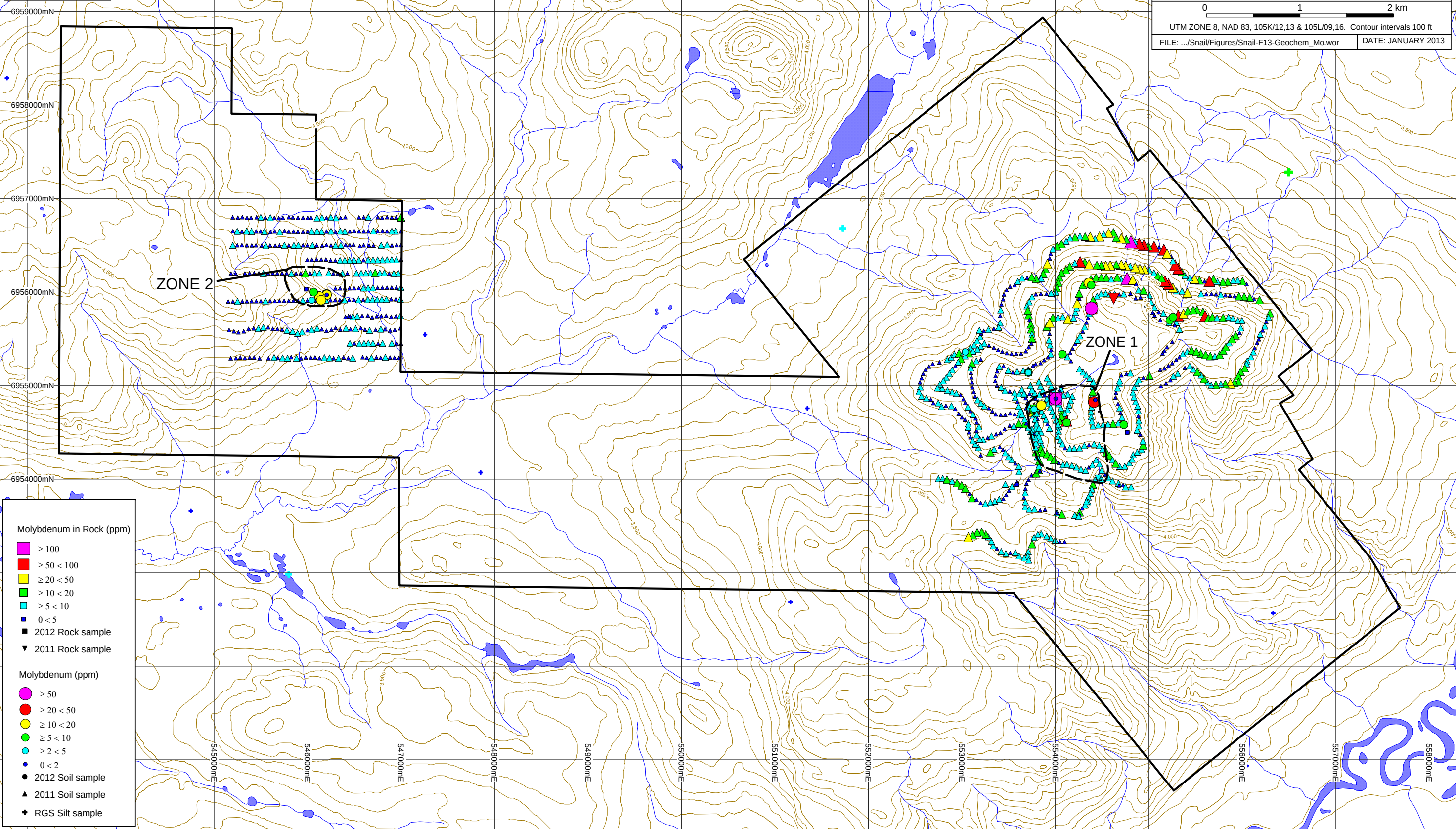
SNAIL PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F13-Geochem_Mo.wor

DATE: JANUARY 2013

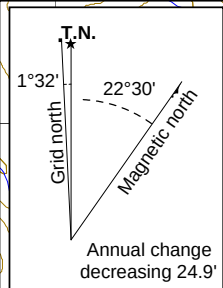


Molybdenum in Rock (ppm)

- ≥ 100
- ≥ 50 < 100
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- 0 < 5
- 2012 Rock sample
- 2011 Rock sample

Molybdenum (ppm)

- ≥ 50
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- ≥ 2 < 5
- 0 < 2
- 2012 Soil sample
- 2011 Soil sample
- RGS Silt sample



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FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TIN GEOCHEMISTRY

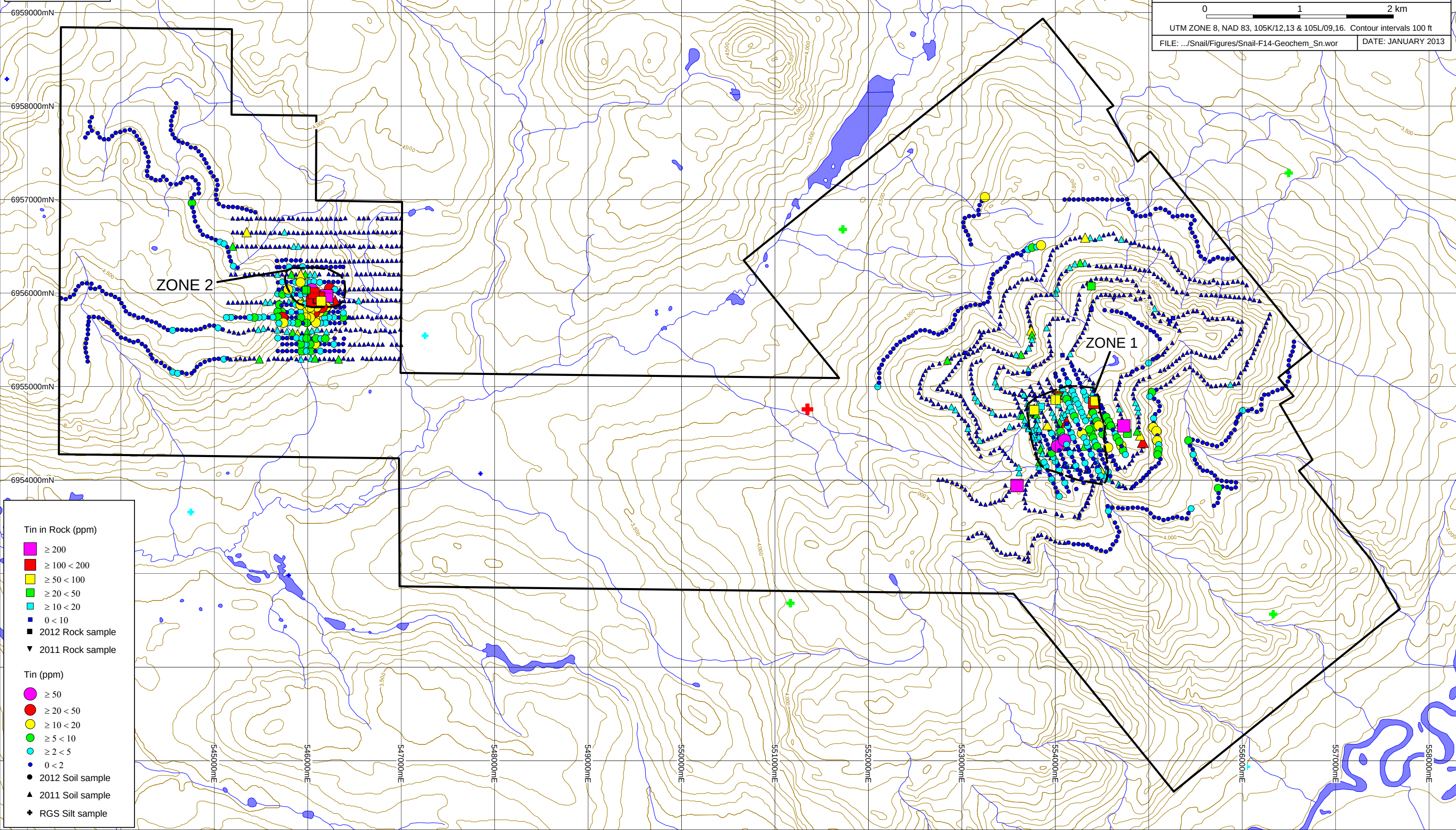
SNAIL PROPERTY

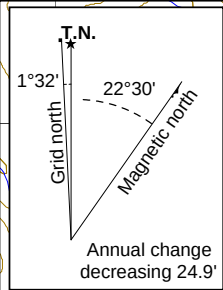
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F14-Geochem_Sn.wor

DATE: JANUARY 2013





SILVER RANGE RESOURCES LTD.

FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

INDIUM GEOCHEMISTRY

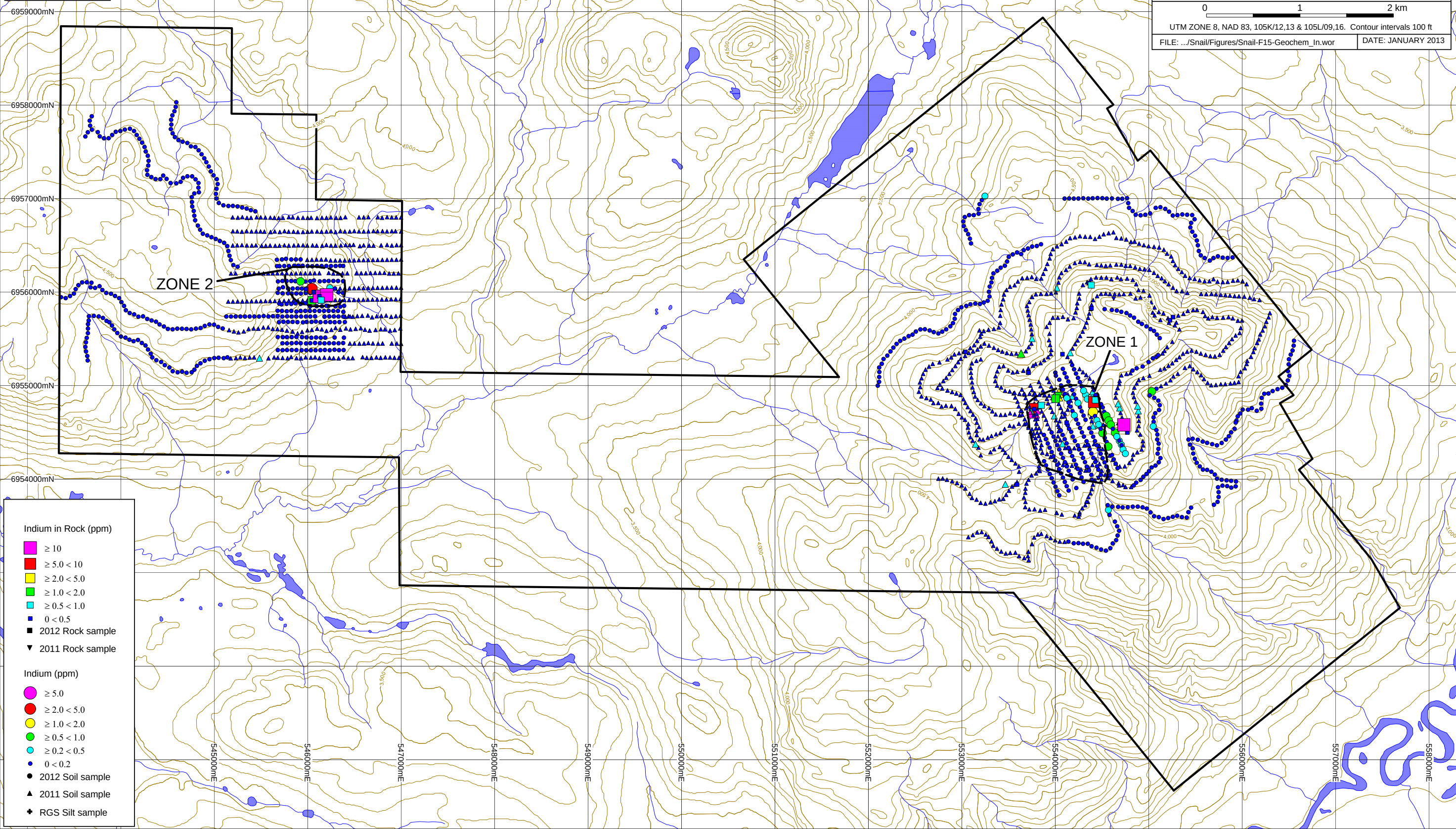
SNAIL PROPERTY

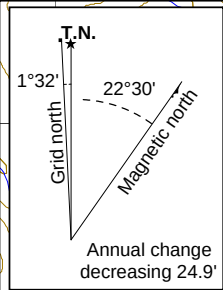
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F15-Geochem_In.wor

DATE: JANUARY 2013





SILVER RANGE RESOURCES LTD.

FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY GEOCHEMISTRY

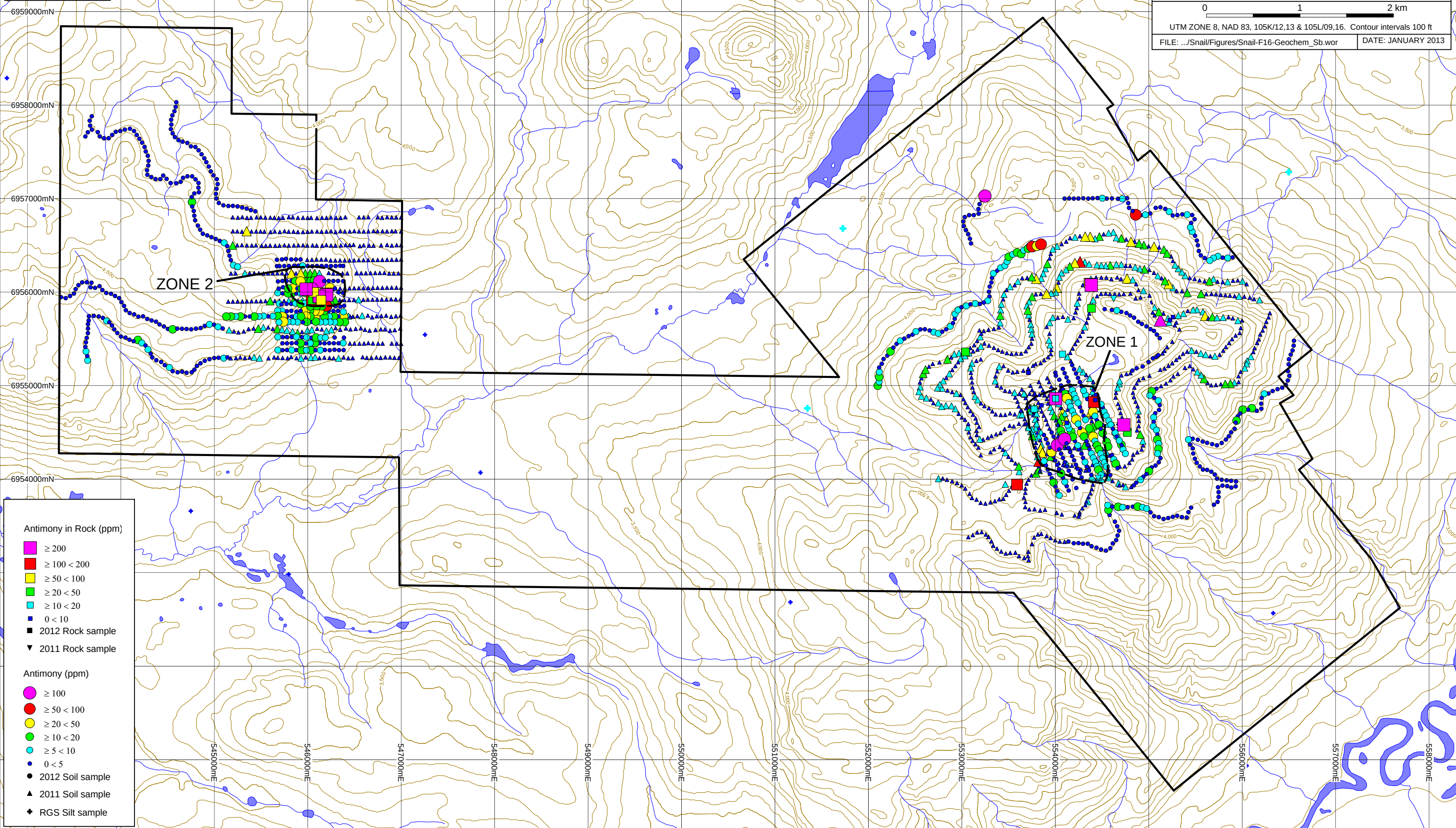
SNAIL PROPERTY

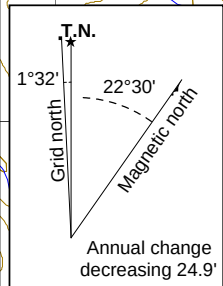
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F16-Geochem_Sb.wor

DATE: JANUARY 2013





SILVER RANGE RESOURCES LTD.

FIGURE 17
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

BISMUTH GEOCHEMISTRY

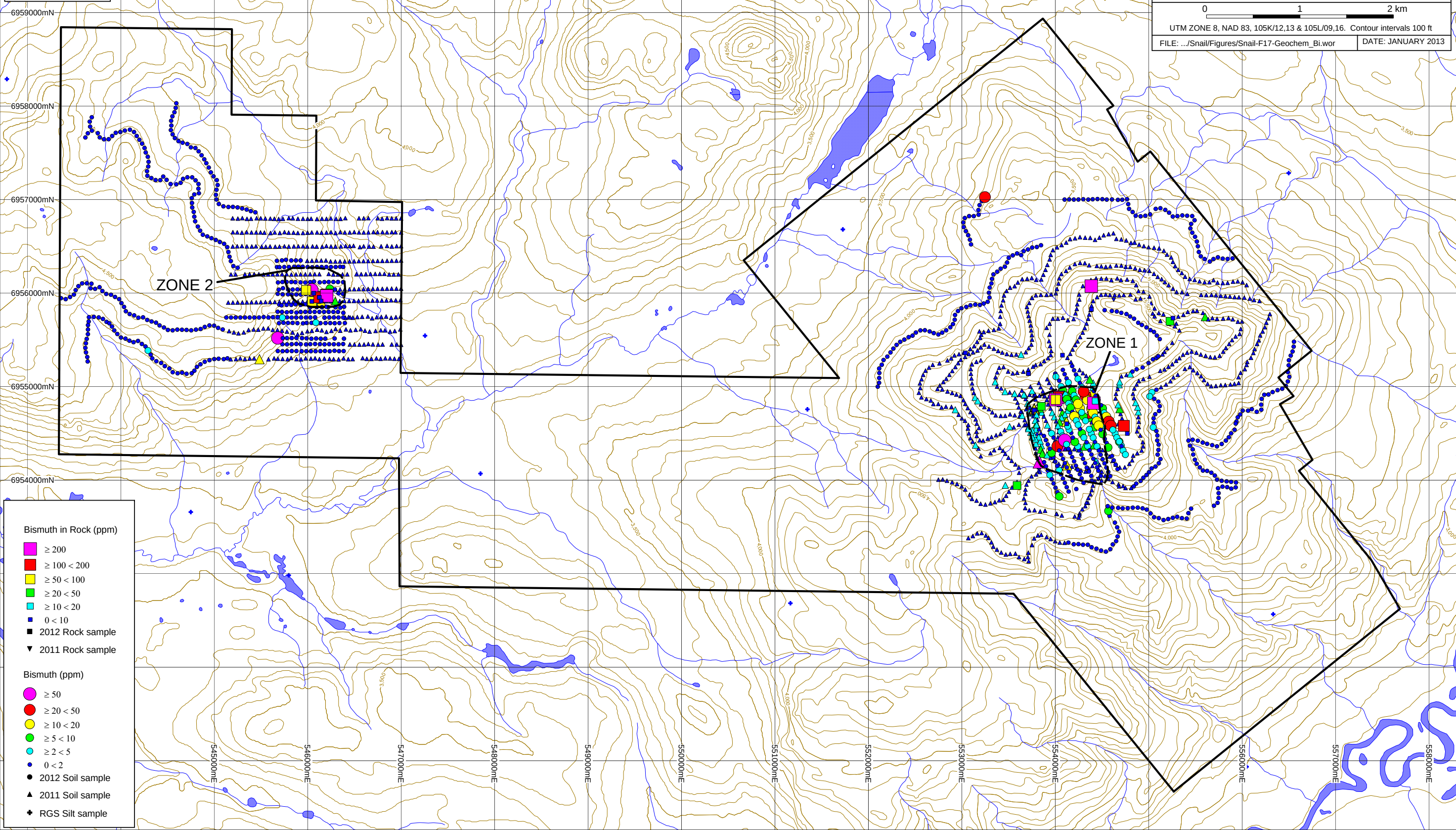
SNAIL PROPERTY

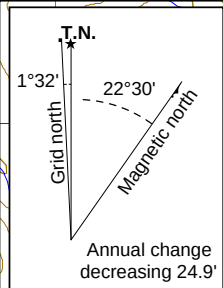
0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F17-Geochem_Bi.wor

DATE: JANUARY 2013





SILVER RANGE RESOURCES LTD.

FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TUNGSTEN GEOCHEMISTRY

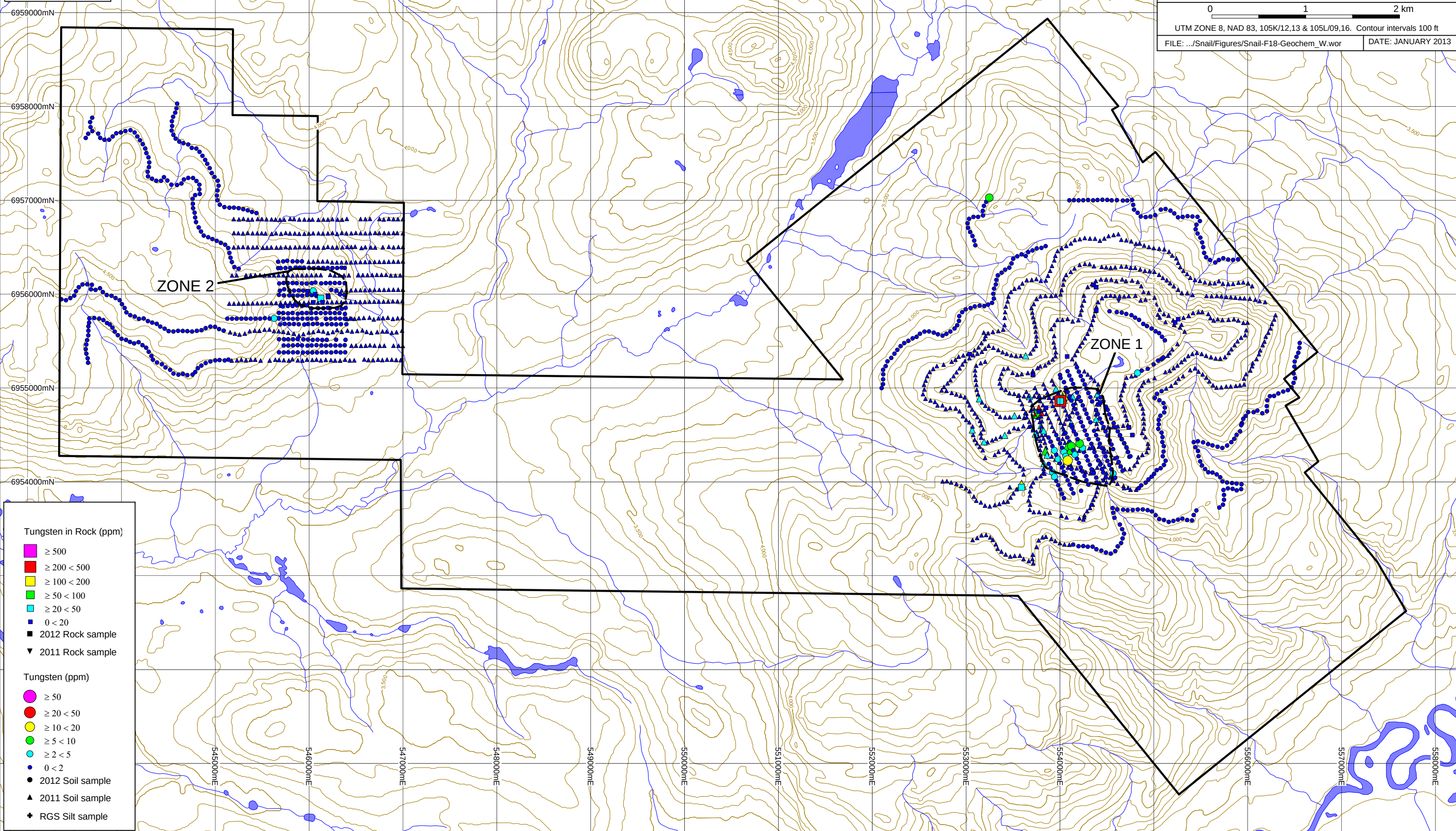
SNAIL PROPERTY

0 1 2 km

UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../Snail/Figures/Snail-F18-Geochem_W.wor

DATE: JANUARY 2013



Tungsten in Rock (ppm)

- ≥ 500
- ≥ 200 < 500
- ≥ 100 < 200
- ≥ 50 < 100
- ≥ 20 < 50
- 0 < 20
- 2012 Rock sample
- 2011 Rock sample

Tungsten (ppm)

- ≥ 50
- ≥ 20 < 50
- ≥ 10 < 20
- ≥ 5 < 10
- ≥ 2 < 5
- 0 < 2
- 2012 Soil sample
- 2011 Soil sample
- RGS Silt sample

Rock sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. All samples sent for shipment were double bagged with pre-numbered sample tags placed in the bag.

Samples were submitted to an ALS Minerals prep laboratory in Whitehorse, Yukon where they were dried and screened to -2 mm. A 250 g split was then pulverized to 75 micron and a portion of this material was sent to ALS Minerals in North Vancouver, British Columbia where it was digested in aqua regia before being analyzed for 48 elements by four acid digestion with inductively coupled plasma-atomic emission spectroscopy and inductively coupled plasma-mass spectrometry (ME-MS61). All rock samples were then analyzed for gold using fire assay technique (Au-AA23) with a gravimetric finish (Au-GRA21). Samples that exceeded the upper detection limits were silver, copper and zinc. Those samples were assayed using a four acid digestion inductively coupled plasma-atomic emission spectroscopy method (Ag/Cu/Zn-OG62). Samples from the northwest part of the property were also analyzed for tin using pressed pellet XRF (Sn-XRF05).

Samples collected from eastern portion of the property (Zone 1) comprise: Sulphide bearing granodiorite, green and maroon striped silicified rock containing finely disseminated sulphides and limonite-rich hornfels cross-cut by vuggy quartz veinlets. These samples returned up to 16.8 g/t gold, 260 g/t silver, 1.46% copper, 0.134% lead, 1890 ppm zinc, 305 ppm tungsten, 548 ppm tin, 8430 ppm bismuth, >1.0% arsenic, 548 ppm antimony, and 65.3 ppm molybdenum.

The best gold results were from samples were taken from quartz-sulphide veins that cross-cut rusty, weathered silicified and altered granodiorite. Sulphides include pyrite and arsenopyrite.

Samples from the western side of the property (Zone 2) comprise: grey-green calcareous siltstone that is extensively cross-cut by black calcite veins and variably mineralized altered granodiorite. Manganese oxide, limonite and jarosite are common in most samples. Sulphide minerals include galena and arsenopyrite. These samples returned up to 2.17 g/t gold, 1500 g/t silver, 0.177% copper, 8.96% lead, 8.27% zinc, 44 ppm tungsten, 2090 ppm tin, 186.5 ppm bismuth, >1.0% arsenic, >1.0% antimony and 15.2 ppm molybdenum.

The best gold result from Zone 2 is a sample collected from a 15 cm wide, rusty weathered, nearly completely oxidized vein with a dark grey, iridescent selvage that may be manganese.

SOIL GEOCHEMISTRY

A total of 779 soil samples were collected from the Snail property in 2012. Sampling was completed in the eastern and western parts of the property with 421 samples from the east and 358 from the west. Grid and contour sampling were performed in both areas. Sample locations are shown on Figure 6, while 2011 and 2012 results for gold, arsenic, silver, copper, lead, zinc, molybdenum, tin, indium, antimony, bismuth and tungsten are compiled on Figures 7 to 18, respectively. Certificates of Analysis are given in Appendix III.

Soil samples were collected from 30 to 60 cm deep holes dug by hand-held auger. All samples were placed into individually pre-numbered Kraft paper bags. Sample sites are marked by

aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Sample locations were recorded using hand-held GPS units.

Samples were sent to ALS Minerals in Whitehorse, Yukon where they were dried, screened to - 180 microns. The fine fractions were then sent to ALS Mineral's lab in North Vancouver, BC, where they were analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Anomalous thresholds and peak values for soil samples are listed in Table II.

Table II – Geochemical Data for Soil Samples

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50 < 100$	≥ 100	11,600
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	10,100
Silver (ppm)	$\geq 1 < 2$	$\geq 2 < 5$	$\geq 5 < 10$	≥ 10	212
Copper (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	4510
Lead (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	19900
Zinc (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500 < 1000$	≥ 1000	11050
Molybdenum (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20 < 50$		34.3
Tin (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10 < 20$	≥ 20	1820
Indium (ppm)	$\geq 0.5 < 1$	$\geq 1 < 2$	$\geq 2 < 5$	≥ 5	11.5
Antimony (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20 < 50$	≥ 50	2860
Bismuth (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10 < 20$	≥ 20	281
Tungsten (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10 < 20$		11.55

Grid soil samples collected from eastern portion of the property are dominantly underlain by Rabbitkettle Formation and the granodiorite. Adjacent contour soil samples taken to the north are underlain by Mississippian volcanics, Road River Group, Earn Group, and Tay Formation while to samples to the south are mostly underlain by Mount Christie Formation. The 2012 sampling better detailed a 650 by 750 m multi-element anomaly identified in 2011 (Zone 1), which returned weak to very strongly anomalous gold, tin, and bismuth; moderate to strongly anomalous arsenic, lead, zinc, antimony, and tungsten; weak to moderately anomalous silver, molybdenum and indium. One sample, taken within the area underlain by granodiorite, returned coincidently elevated values for arsenic (3410 ppm), silver (6.94 ppm), lead (538 ppm), molybdenum (12.7 ppm), tin (11.4 ppm), and antimony (273 ppm). Moderately elevated zinc, molybdenum, and antimony and weakly elevated silver and copper values were outlined northeast of Zone 1, within an area of about 800 m in diameter.

Samples taken from the western part of the property are underlain by Mount Christie Formation and Earn Group rocks. This sampling expanded the multi-element anomaly that was identified in 2011 (Zone 2) to approximately 480 by 650 m. The core of Zone 2 returned the highest values for gold, arsenic, silver, copper, lead, zinc, molybdenum, tin, indium, antimony, and bismuth. Moderately to strongly elevated values for arsenic, silver, lead, tin, and antimony extend southward from the core.

The geochemical results were received after the crew left the property, so no prospecting follow up has been done.

DISCUSSION AND CONCLUSIONS

The Snail property is located in the Anvil Range where Silver Range is exploring several silver-zinc-lead±copper bearing, bulk tonnage and vein prospects. The Snail property covers quartz vein showings with geochemical signatures that generally resemble those of other showings in the belt. The high silver to lead ratios of the veins are particularly noteworthy, as the presence of elevated gold in some samples.

Soil geochemical sampling in 2012 better defined and extended the multi-element anomalies that were partially outlined in 2011 (Zone 1 in the east and Zone 2 in the west) and identified a new anomalous area to the northeast of Zone 1. These areas are likely associated with veins, possibly related to buried porphyry-style mineralization. The size of the targets and the abundance of strongly anomalous values for several metals, including silver and gold, is highly encouraging.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



C.J. Chung, B.Sc. Geology, GIT

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Crystal J Chung, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Burnaby, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2005 with a B.Sc. majoring in Earth and Ocean Sciences (Geology).
2. From 2004 to present, I have been actively engaged in mineral exploration in British Columbia, Alaska and the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 138321).
4. I have personally reviewed and interpreted all data resulting from this work.



C.J. Chung, B.Sc. Geology, GIT

APPENDIX II

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions				Project: <u>Keg</u>		Zone:		Snail		Page ____ of ____			
Sample #: M676824	Grid East	E	Grid North	N	Type:	chip		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	554076	E	UTM:	6955337	N	Sample Width:	35	cm			Photo taken	no
	Sampler:Rosie	Elevation:	1625	m			Dimension:						
	Comments:												
	Date: Aug 5, 2012												
Rubble comprising very large boulders of grandiorite and green and maroon striped silicified rock with llight pinkish grey alteration and disseminated fine-grained sulphide.													
Sample #: M676825	Grid East	E	Grid North	N	Type:	grab		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	554387	E	UTM:	6955827	N	Sample Width:	10	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1683	m			Dimension:						
	Comments:												
	Date: Aug 5, 2012												
Fine-grained semi-massive sulphide vein (dominantly pyrite) about 10 cm wide cutting marroon chert.													
Sample #: M676826	Grid East	E	Grid North	N	Type:	grab		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	554412	E	UTM:	6954825	N	Sample Width:	230	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1625	m			Dimension:	5cmx20cm					
	Comments:												
	Date: Aug 6, 2012												
An apporoximately 5cm wide comprising quartz, arsenopyrite and pyrite. This vein cuts a rusty weathered silicified, altered granodiorite with abundant disseminated pyrite. Just up hill from soil sample ZZ08963.													
Sample #: M676827	Grid East	E	Grid North	N	Type:	chip		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	554427	E	UTM:	6954847	N	Sample Width:	35	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1699	m			Dimension:	10mx4m					
	Comments:												
	Date: Aug 6, 2012												
Very rusty weathered subcrop of grey, silicified rock with veins and disseminations of arsenopyrite, pyrite and trace chalcopyrite.													
Sample #: M676828	Grid East	E	Grid North	N	Type:	chip		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	555226	E	UTM:	6955700	N	Sample Width:	30	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1650	m			Dimension:	20mx10m					
	Comments:												
	Date: Aug 7, 2012												
Limonite rich hornfels cut bu vuggy quartz vein with local brecciation. Sulphides are minor and dominantly pyrite.													

Rock Sample Descriptions				Project: <u>Keg</u>		Zone:		Snail		Page ____ of ____	
Sample #: M676829	Grid East	E	Grid North	N	Type:	grab		Sample kept	no	Geochem Results	
	UTM:	555259	E	UTM:	6955734	N	Sample Width:	5	cm	Photo taken	no
	Sampler:Rosie	Elevation:	1622	m			Dimension:	30cmx10cm			Ag
		Comments:									ppm
	Date: Aug 7, 2012										ppm
Near source float of hornfels cut by semi-massive sulphide vein at least 5 cm wide, sulphides are dominantly pyrite and pyrrhotite.											ppm
Sample #: M676830	Grid East	E	Grid North	N	Type:	grab		Sample kept	yes	Geochem Results	
	UTM:	554358	E	UTM:	6956099	N	Sample Width:	5	cm	Photo taken	no
	Sampler:Rosie	Elevation:	1637	m			Dimension:	30cmx10cm			Ag
		Comments:									ppm
	Date: Aug 7, 2012										ppm
Pyrite and pyrrhotite massive sulphide lens or vein at least 5cm wide.											ppm
Sample #: M676831	Grid East	E	Grid North	N	Type:	composite grab		Sample kept	yes	Geochem Results	
	UTM:	554384	E	UTM:	6956076	N	Sample Width:	100	cm	Photo taken	no
	Sampler:Rosie	Elevation:	1653	m			Dimension:	50mx10m			Ag
		Comments:									ppm
	Date: Aug 7, 2012										ppm
Grey, completely altered (silicified?) rock with disseminated sulphides. This is the host rock to sample M676830.											ppm
Sample #: M676832	Grid East	E	Grid North	N	Type:	chip		Sample kept	yes	Geochem Results	
	UTM:	553712	E	UTM:	6955140	N	Sample Width:	30	cm	Photo taken	yes
	Sampler:Rosie	Elevation:	1589	m			Dimension:	20mx20m			Ag
		Comments:									ppm
	Date: Aug 8, 2012										ppm
Rusty weathered, grey, silicified rock with veinlets and disseminations of pyrite and pyrrhotite and possible some arsenopyrite.											ppm
Sample #: M676833	Grid East	E	Grid North	N	Type:	grab		Sample kept	yes	Geochem Results	
	UTM:	553712	E	UTM:	6955140	N	Sample Width:	10	cm	Photo taken	yes
	Sampler:Rosie	Elevation:	1589	m			Dimension:	20mx20m			Ag
		Comments:									ppm
	Date: Aug 8, 2012										ppm
Green, silicified rock with veinlets of pyrrhotite and pyrite and a dark grey fine-grained mineral.											ppm

Rock Sample Descriptions				Project: <u>Keg</u>		Zone:		Snail		Page ____ of ____				
Sample #: M676844	Grid East	E	Grid North	N	Type:	composite grab	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm					
	UTM:	554770	E	UTM:	6954500	N	Sample Width:	500				cm	Photo taken	no
	Sampler:Rosie	Elevation:	1645	m	Dimension:	50mx20m								
	Comments:													
	Date: Aug 9, 2012													
Rusty weathered granodiorite dike that has abundant disseminated sulphide.														
Sample #: M676845	Grid East	E	Grid North	N	Type:	grab	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm					
	UTM:	554733	E	UTM:	6954581	N	Sample Width:	10				cm	Photo taken	no
	Sampler:Rosie	Elevation:	1667	m	Dimension:	50mx20m								
	Comments:													
	Date: Aug 9, 2012													
Rusty weathered granodiorite dike that has abundant disseminated sulphide.														
Sample #: M676846	Grid East	E	Grid North	N	Type:	grab	Sample kept	no	Geochem Results Ag ppm ppm ppm ppm ppm					
	UTM:	546045	E	UTM:	6955913	N	Sample Width:	5				cm	Photo taken	no
	Sampler:Rosie	Elevation:	1180	m	Dimension:									
	Comments:													
	Date: Aug 11, 2012													
Dug out of soil sample DD00718. Small rusty chips with limonite and jarosite all throughout.														
Sample #: M676847	Grid East	E	Grid North	N	Type:	grab	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm					
	UTM:	546045	E	UTM:	6955913	N	Sample Width:	8				cm	Photo taken	no
	Sampler:Rosie	Elevation:	1180	m	Dimension:									
	Comments:													
	Date: Aug 11, 2012													
Dug out of soil sample DD00718. Small cobbles that contain mm-scale veins with quartz and trace galena. The host rock is a grey-green calcareous siltstone that is cut extensively by black calcite veins.														
Sample #: M676848	Grid East	E	Grid North	N	Type:	grab	Sample kept	no	Geochem Results Ag ppm ppm ppm ppm ppm					
	UTM:	546125	E	UTM:	6955956	N	Sample Width:	4cm				cm	Photo taken	yes
	Sampler:Rosie	Elevation:	1183	m	Dimension:	4cmx200cm								
	Comments:													
	Date: Aug 11, 2012													
4cm side section cut cut by several mm-scale veins of galena with trace malachite and azurite. Host rock is thin bedded, grey-green, calcareous, siliceous siltstone. Oriented 047 dipping 82 degrees to the northeast.														

Rock Sample Descriptions				Project: <u>Keg</u>		Zone:	Snail	Page ____ of ____		
Sample #: M676849	Grid East	E	Grid North	N	Type:	grab	Sample kept	no	Geochem Results Ag ppm ppm ppm ppm ppm	
	UTM:	546125 E	UTM:	6955956 N	Sample Width:	10 cm	Photo taken	yes		
	Sampler:Rosie	Elevation:	1183 m		Dimension:	10cmx50cm				
	Comments:									
	Date: Aug 11, 2012									
Crushed rock and soil from cliffy outcrop that has completely oxidized. Oriented 240 dipping 82 degrees to the southeast.										
Sample #: M676850	Grid East	E	Grid North	N	Type:	grab	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm	
	UTM:	546125 E	UTM:	6955956 N	Sample Width:	15 cm	Photo taken	yes		
	Sampler:Rosie	Elevation:	1183 m		Dimension:	15cmx100cm				
	Comments:									
	Date: Aug 11, 2012									
Rusty weathered, nearly completely oxidized (limonite and jarosite) vein with a dark grey, irredesant selvage that I think is manganese. The vein is about 15cm wide and the selvage is about 15cm wide on both sides.										
Sample #: M676851	Grid East	E	Grid North	N	Type:	composite grab	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm	
	UTM:	546201 E	UTM:	6955986 N	Sample Width:	200 cm	Photo taken	no		
	Sampler:Rosie	Elevation:	1134 m		Dimension:	200cm x 50cm				
	Comments:									
	Date: Aug 11, 2012									
Grab sample taken about every 50cm over 2m of arsenopyrite and pyrite veins (fracture fill) that are oriented in two cross cutting structures oriented 342 - dipping 38 degrees east and 065 - dipping 85 degrees southeast. The veins are cutting a variably mineralized altered granodiorite dike about 10m wide.										
Sample #: M676852	Grid East	E	Grid North	N	Type:	grab	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm	
	UTM:	546204 E	UTM:	6955971 N	Sample Width:	10 cm	Photo taken	no		
	Sampler:Rosie	Elevation:	1142 m		Dimension:	50mx20m				
	Comments:									
	Date: Aug 11, 2012									
Quartz-arsenopyrite vein with rare minor galena.										
Sample #: M676853	Grid East	E	Grid North	N	Type:	chip	Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm	
	UTM:	546204 E	UTM:	6955971 N	Sample Width:	25 cm	Photo taken	yes		
	Sampler:Rosie	Elevation:	1142 m		Dimension:	50mx20m				
	Comments:									
	Date: Aug 11, 2012									
vein comprising biege mineral that grows in small radial laths and a silvery mineral that looks like galena but grows in elongate wedge shapes. This vein is about 4cm wide in a rusty weathered section about 25cm wide.The entire 25cm section sampled, including the vein.										

Rock Sample Descriptions				Project: <u>Keg</u>		Zone:		Snail		Page ____ of ____			
Sample #: M676854	Grid East	E	Grid North	N	Type:	grab		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	554733	E	UTM:	6954581	N	Sample Width:	15	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1667	m			Dimension:	15cmx20cm					
	Comments:												
	Date: Aug 11, 2012												
Course-grained quartz-arsenopyrite vein with trace galena. This section is a blowout that gets up to 15-20cm wide. Host rock is a altered granodiorite dike.													
Sample #: M676855	Grid East	E	Grid North	N	Type:	chip		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	546125	E	UTM:	6955956	N	Sample Width:	20	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1183	m			Dimension:	20cmx100cm					
	Comments:												
	Date: Aug 12, 2012												
Dark grey-brown selvage to limonite vein (sample M676850). Pervasive manganese oxide.													
Sample #: M676856	Grid East	E	Grid North	N	Type:	chip		Sample kept	no	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	546065	E	UTM:	6956000	N	Sample Width:	15	cm			Photo taken	yes
	Sampler:Rosie	Elevation:	1192	m			Dimension:	15cmx100cm					
	Comments:												
	Date: Aug 12, 2012												
Calcite-quartz vein with blebs of limonite and a fine-grained silvery mineral.													
Sample #: M676857	Grid East	E	Grid North	N	Type:	grab		Sample kept	no	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	546144	E	UTM:	6955915	N	Sample Width:	5	cm			Photo taken	no
	Sampler:Rosie	Elevation:	1166	m			Dimension:	10cm					
	Comments:												
	Date: Aug 12, 2012												
Rusty weathered chips from bottom of soil sample DD00720.													
Sample #: M676858	Grid East	E	Grid North	N	Type:	grab		Sample kept	yes	Geochem Results Ag ppm ppm ppm ppm ppm			
	UTM:	545984	E	UTM:	6956032	N	Sample Width:	10	cm			Photo taken	no
	Sampler:Rosie	Elevation:	1211	m			Dimension:	10cmx20cm					
	Comments:												
	Date: Aug 13, 2012												
Very coarse-grained calcite vein with a core of galena and a dark yellow oxide. Vein cuts grey limestone and is oriented 050 dipping 71 degrees to the southeast.													

APPENDIX III
CERTIFICATES OF ANALYSES



ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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

Page: 1
Finalized Date: 5- SEP- 2012
Account: RANSIL

CERTIFICATE WH12193373

Project: SNAIL

P.O. No.:

This report is for 13 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17- AUG-2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
ME- MS61	48 element four acid ICP- MS	
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
Pb- OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn- OG62	Ore Grade Zn - Four Acid	VARIABLE
Ag- GRA21	Ag 30g FA- GRAV finish	WST- SIM
Sn- XRF05	Sn- Trace Level XRF Analysis	XRF

To: **SILVER RANGE RESOURCES LTD.**
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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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Page: 2 - A
 Total # Pages: 2 (A - D)
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CERTIFICATE OF ANALYSIS WH12193373

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 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	0.005	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
M676846		0.38	<0.005	5.69	2.17	3390	830	0.54	96.2	14.65	16.80	24.2	7.1	56	9.32	147.5
M676847		0.41	<0.005	14.95	1.34	665	380	0.23	2.06	20.4	6.91	13.55	1.6	18	12.20	30.4
M676848		0.46	<0.005	>100	1.50	4950	730	0.27	33.8	13.35	60.8	13.25	0.7	25	4.12	1270
M676849		0.49	0.015	46.8	1.22	>10000	260	0.23	150.5	7.73	673	14.25	6.9	39	11.10	769
M676850		0.70	2.17	>100	0.56	>10000	220	0.12	4.37	3.19	575	11.40	0.9	22	1.68	1775
M676851		0.95	0.038	38.3	4.03	>10000	440	0.69	138.5	2.74	43.7	40.8	6.6	23	7.18	174.0
M676852		0.88	0.137	>100	1.35	2440	710	0.28	186.5	3.42	111.5	15.65	1.5	35	2.68	435
M676853		0.73	0.281	>100	0.96	>10000	200	0.16	259	0.90	344	5.46	6.3	11	1.56	598
M676854		1.09	0.058	>100	0.77	>10000	180	0.12	126.5	0.88	275	11.85	0.9	13	1.65	783
M676855		0.93	0.011	8.78	1.84	2000	840	0.40	2.74	5.46	47.1	27.7	1.2	74	4.95	241
M676856		0.51	0.008	6.97	2.98	3450	1120	0.39	7.55	10.10	12.35	19.65	4.8	28	4.51	35.9
M676857		0.52	<0.005	12.45	3.55	2430	1630	1.16	4.48	6.05	8.77	53.2	8.9	59	4.81	50.0
M676858		0.66	<0.005	54.4	0.14	223	90	<0.05	66.7	28.0	6.91	31.0	0.6	<1	0.21	17.4



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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
M676846		3.18	6.05	0.19	1.4	1.560	1.38	15.8	24.7	1.22	892	1.87	0.03	4.6	34.9	3330
M676847		0.61	3.92	0.11	0.8	0.046	0.89	8.5	27.4	1.34	733	2.12	0.01	3.0	7.3	770
M676848		0.66	3.83	0.27	0.8	0.581	1.03	8.3	15.8	1.37	665	5.23	0.02	2.7	4.2	1320
M676849		10.00	5.42	0.33	0.6	11.85	0.54	10.1	17.4	1.54	1840	4.72	0.01	2.3	47.1	2480
M676850		12.55	2.83	1.33	0.3	0.217	0.29	11.8	16.5	0.13	1080	10.40	0.02	0.3	9.3	2200
M676851		5.73	11.20	0.67	1.8	2.93	1.97	21.5	25.9	1.18	398	8.39	0.24	6.2	7.1	450
M676852		2.22	4.00	0.27	0.9	2.05	0.63	11.7	13.7	0.50	554	15.20	0.04	2.5	4.6	2640
M676853		12.40	4.82	0.89	0.3	19.70	0.64	3.0	6.4	0.07	316	1.58	0.02	1.0	1.0	60
M676854		14.95	6.48	1.44	0.5	22.1	0.39	7.3	8.3	0.31	358	6.81	0.02	1.6	2.4	220
M676855		1.35	5.33	0.10	1.2	0.088	0.90	18.5	11.1	0.33	12650	12.10	0.01	3.7	27.8	4550
M676856		0.98	9.36	0.11	1.5	0.365	1.61	8.5	18.1	0.46	3070	8.45	0.03	6.0	8.7	640
M676857		2.48	9.86	0.18	2.2	0.596	1.96	31.4	15.7	2.88	530	13.50	0.41	7.3	59.6	1480
M676858		0.15	0.67	0.21	0.2	0.064	0.11	17.8	2.4	0.16	2910	1.47	<0.01	0.4	<0.2	60



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CERTIFICATE OF ANALYSIS WH12193373

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Pb	Pb	Fe	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02
M676846		349	120.0	0.002	0.30	192.0	3.8	18	72.2	272	0.34	0.47	3.2	0.144	2.45
M676847		1800	95.7	0.002	0.04	28.9	2.3	6	107.5	354	0.21	<0.05	2.0	0.091	1.61
M676848		>10000	71.6	0.004	0.20	266	2.1	64	>500	199.5	0.23	0.09	1.9	0.088	0.86
M676849		477	67.2	<0.002	0.08	337	2.2	50	40.1	138.0	0.16	0.80	1.5	0.068	1.11
M676850		>10000	22.9	0.004	2.17	>10000	2.1	360	>500	291	<0.05	0.07	0.9	0.022	4.08
M676851		1050	105.5	0.011	2.46	166.0	9.4	153	55.6	112.0	0.50	14.75	6.0	0.235	1.78
M676852		>10000	37.8	0.010	1.21	>10000	1.5	68	>500	116.5	0.17	0.41	2.1	0.124	1.00
M676853		>10000	37.7	<0.002	9.44	295	2.2	163	337	16.0	0.07	2.19	1.1	0.036	0.81
M676854		>10000	29.2	0.002	9.22	893	1.0	317	>500	25.7	0.12	2.93	1.2	0.054	0.59
M676855		1360	73.2	0.002	0.05	1315	3.8	5	174.5	72.6	0.28	<0.05	3.9	0.134	1.37
M676856		343	126.0	0.022	0.61	57.6	4.1	8	141.5	66.2	0.47	0.70	4.2	0.198	1.27
M676857		1265	96.6	0.062	0.45	67.5	9.5	11	61.7	186.0	0.58	0.09	6.5	0.227	1.31
M676858		>10000	6.5	<0.002	0.07	5940	3.5	43	29.7	169.5	<0.05	0.26	0.3	0.011	0.41



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 Total # Pages: 2 (A - D)
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CERTIFICATE OF ANALYSIS WH12193373

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	Ag- OG62 Ag ppm 1	Pb- OG62 Pb % 0.001	Zn- OG62 Zn % 0.001	Ag- GRA21 Ag ppm 5	Sn- XRF05 Sn ppm 5
M676846		49	1.5	19.2	2530	52.2					
M676847		30	1.0	10.2	211	28.7					
M676848		37	6.1	8.7	4030	27.8	305	4.38			1330
M676849		35	1.5	14.0	>10000	24.2			8.27		
M676850		15	0.4	7.7	>10000	12.6	>1500	8.96	1.390	1500	2090
M676851		73	4.5	17.4	3120	56.2					
M676852		15	2.4	10.2	4710	26.6	126	6.73			997
M676853		11	3.4	2.2	>10000	10.9	209	1.140	2.37		
M676854		30	3.3	3.2	>10000	14.6	309	3.35	2.09		1210
M676855		77	44.0	25.1	5240	42.9					
M676856		78	3.4	14.6	613	50.2					
M676857		113	2.7	34.8	946	77.4					
M676858		3	0.3	31.4	47	5.4		1.460			



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CERTIFICATE OF ANALYSIS WH12193373

Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. REE's may not be totally soluble in this method.



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Page: 1
Finalized Date: 2- SEP- 2012
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CERTIFICATE WH12190099

Project: SNAIL
P.O. No.: Snail
This report is for 22 Rock samples submitted to our lab in Whitehorse, YT, Canada on 14- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

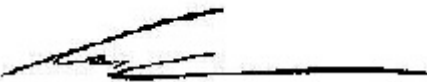
ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG62	Ore Grade Elements - Four Acid	ICP- AES
ME- MS61	48 element four acid ICP- MS	
Ag- OG62	Ore Grade Ag - Four Acid	VARIABLE
Cu- OG62	Ore Grade Cu - Four Acid	VARIABLE
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	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	ME- MS61 Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
M676824		0.87	2.08	7.28	79.9	2690	2.34	0.36	4.79	3.55	50.7	10.7	97	5.05	157.5	3.70
M676825		0.86	5.32	2.12	48.0	200	0.44	7.37	0.60	0.11	12.10	8.3	52	1.66	174.0	25.1
M676826		0.84	>100	1.95	>10000	170	0.16	2340	0.06	7.01	3.03	277	4	2.53	>10000	16.90
M676827		1.02	3.13	7.21	603	1120	0.88	17.35	3.64	0.49	43.2	10.9	28	8.29	476	4.17
M676828		1.08	1.85	4.94	1890	550	2.24	27.0	2.33	0.23	82.9	10.9	95	2.10	544	4.17
M676829		0.94	0.73	1.44	32.3	150	0.18	1.06	5.68	0.18	26.2	65.2	19	6.73	1075	17.05
M676830		0.46	6.32	3.34	33.7	240	1.02	7.75	3.48	1.00	33.6	26.1	52	3.13	1515	26.7
M676831		0.68	2.50	6.00	10.7	2220	2.13	0.30	4.70	1.20	46.0	7.8	78	7.14	337	3.03
M676832		0.98	0.69	9.64	58.9	1030	0.76	0.81	9.46	0.13	133.0	34.9	32	12.10	72.8	6.62
M676833		0.94	0.47	3.41	28	570	0.45	0.89	11.45	2.15	33.8	13.3	26	1.88	81.9	6.72
M676834		1.20	0.47	5.86	6.3	410	0.73	0.77	9.74	0.30	99.3	20.0	37	6.43	104.5	5.14
M676835		0.46	0.45	5.37	179.5	810	0.83	1.01	4.96	0.18	60.6	23.3	65	2.37	55.4	4.44
M676836		0.87	1.61	8.18	125.5	120	0.54	4.43	4.54	0.71	41.2	29.8	28	7.14	322	13.35
M676837		0.63	3.67	9.85	>10000	140	2.71	20.4	0.15	1.90	19.45	354	14	13.05	259	10.70
M676838		0.54	21.8	0.35	>10000	140	0.08	1545	0.02	0.96	9.91	85.6	11	0.24	113.5	19.45
M676839		0.55	>100	0.55	1040	90	0.15	8430	0.07	2.42	3.57	1.9	12	1.77	136.5	0.75
M676840		0.40	6.81	7.15	5620	1650	1.52	50.6	3.38	3.58	56.1	6.4	15	15.10	961	2.82
M676841		0.77	1.93	4.12	47	1360	1.51	23.9	10.15	27.8	55.4	5.4	41	11.35	202	4.07
M676842		0.98	0.66	4.49	109.0	2020	1.94	4.58	0.32	0.26	32.2	0.9	120	5.02	42.7	1.21
M676843		0.75	0.38	7.87	20.8	660	0.83	5.24	4.73	0.23	56.1	9.9	19	6.44	103.5	4.25
M676844		1.24	2.10	7.53	82.9	1960	2.13	1.47	1.88	1.13	74.2	5.9	11	7.06	58.3	3.18
M676845		0.67	3.27	7.49	10.8	1620	2.68	8.25	2.23	3.63	75.5	4.8	10	4.77	76.8	3.08



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CERTIFICATE OF ANALYSIS WH12190099

Sample Description	Method Analyte Units LOR	ME- MS61 Ga ppm 0.05	ME- MS61 Ge ppm 0.05	ME- MS61 Hf ppm 0.1	ME- MS61 In ppm 0.005	ME- MS61 K % 0.01	ME- MS61 La ppm 0.5	ME- MS61 Li ppm 0.2	ME- MS61 Mg % 0.01	ME- MS61 Mn ppm 5	ME- MS61 Mo ppm 0.05	ME- MS61 Na % 0.01	ME- MS61 Nb ppm 0.1	ME- MS61 Ni ppm 0.2	ME- MS61 P ppm 10	ME- MS61 Pb ppm 0.5
M676824		20.2	0.22	2.5	0.062	3.27	30.5	31.1	3.60	330	5.85	0.51	14.3	66.3	3820	20.7
M676825		5.27	0.62	1.6	0.011	1.27	6.4	10.3	0.58	55	65.3	0.15	6.6	79.5	200	74.6
M676826		3.22	0.94	0.6	5.77	1.62	0.9	3.7	0.04	12	47.2	0.19	2.0	2.3	90	151.0
M676827		16.60	0.14	3.1	0.899	1.75	20.9	36.1	1.05	286	0.97	1.56	9.3	2.2	430	25.7
M676828		20.6	0.29	1.9	0.123	2.59	46.9	14.4	1.39	101	5.55	0.21	16.8	50.7	5540	9.8
M676829		7.93	1.16	0.9	0.049	1.43	18.2	19.9	9.35	201	9.42	0.09	5.2	275	9710	4.4
M676830		7.61	0.91	1.7	0.029	1.73	18.3	7.8	1.70	101	14.70	0.04	11.4	121.0	5520	171.5
M676831		18.00	0.15	3.2	0.046	3.65	29.6	27.8	2.64	132	4.83	0.11	21.3	70.2	6540	17.0
M676832		28.3	0.39	3.7	0.031	1.32	69.0	38.1	2.82	490	7.61	0.16	60.9	44.7	4810	7.0
M676833		11.10	0.25	1.7	0.072	0.45	17.8	14.0	4.08	2050	3.92	0.11	13.1	18.3	1180	7.7
M676834		14.55	0.30	3.1	0.037	0.88	51.0	23.7	3.72	687	3.96	0.08	40.3	20.8	2950	4.7
M676835		20.8	0.21	3.2	0.063	0.94	27.9	9.4	1.83	385	4.06	0.06	27.9	32.2	1770	4.8
M676836		22.0	0.35	2.2	0.049	1.78	15.8	62.0	4.79	408	3.08	0.06	53.4	50.0	3080	11.2
M676837		26.8	0.46	1.1	0.350	4.28	5.9	15.3	0.62	65	0.65	0.13	6.8	11.3	450	42.6
M676838		1.28	1.92	0.1	0.715	0.08	6.4	3.1	0.05	14	6.89	0.01	1.3	149.5	1770	169.5
M676839		1.40	0.16	0.1	0.170	0.14	1.8	8.8	0.06	54	120.0	0.07	0.8	2.1	50	1340
M676840		17.25	0.22	1.5	1.210	1.90	26.2	20.3	0.83	274	0.84	1.23	9.4	6.8	440	36.8
M676841		12.20	0.18	2.2	0.699	1.65	30.9	15.8	11.00	583	12.95	0.03	8.8	25.1	5560	14.6
M676842		17.30	0.15	2.1	0.044	1.95	18.5	20.4	0.40	44	3.36	0.08	7.3	6.1	1430	11.0
M676843		19.70	0.16	2.2	0.085	1.55	25.3	23.9	1.37	492	6.24	1.21	10.9	2.5	500	6.9
M676844		19.45	0.23	2.5	0.066	4.08	35.0	23.3	0.76	135	0.92	0.95	12.3	2.0	780	233
M676845		19.90	0.23	2.5	0.415	3.27	35.6	25.3	0.61	145	0.62	1.62	12.4	2.0	760	74.5



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CERTIFICATE OF ANALYSIS WH12190099

Sample Description	Method Analyte Units LOR	ME- MS61 Fb 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	ME- MS61 V ppm 1
M676824		97.5	0.036	1.18	12.10	11.8	8	1.8	230	0.96	0.05	11.7	0.358	0.73	9.0	514
M676825		42.5	0.029	>10.0	25.8	2.6	76	0.6	69.2	0.45	0.75	4.4	0.116	1.19	9.9	131
M676826		61.9	0.061	8.97	135.0	3.1	186	106.0	38.2	0.17	53.5	2.2	0.060	1.03	0.7	13
M676827		83.0	<0.002	1.48	5.59	20.5	6	50.6	312	0.70	0.22	9.2	0.404	2.04	1.9	78
M676828		85.2	0.022	0.63	3.68	9.8	15	3.5	143.5	1.09	0.60	9.6	0.281	0.61	9.4	182
M676829		104.0	0.012	>10.0	5.64	2.8	70	0.4	48.9	0.25	0.43	2.8	0.082	0.90	7.4	204
M676830		60.6	0.010	>10.0	65.0	5.0	86	1.0	198.5	0.63	0.96	6.7	0.181	0.58	4.7	100
M676831		153.5	0.023	1.43	6.70	10.3	8	1.3	339	1.16	0.06	11.7	0.320	0.89	7.4	186
M676832		37.3	0.009	3.60	4.28	28.1	44	2.7	735	4.31	0.18	6.2	2.52	1.86	2.7	393
M676833		17.5	0.005	1.77	3.30	10.6	23	2.1	264	0.93	0.09	3.9	0.406	0.33	2.3	134
M676834		77.7	0.005	2.47	3.21	20.5	35	3.6	316	2.57	0.13	5.9	1.620	1.02	2.4	237
M676835		29.5	0.006	1.99	15.40	23.1	9	2.0	373	1.85	0.07	5.9	0.965	0.36	3.5	264
M676836		64.3	0.003	7.84	23.1	33.6	12	1.6	344	3.36	0.14	4.3	1.885	1.46	1.8	486
M676837		213	<0.002	6.46	125.0	20.0	49	393	50.1	0.50	13.75	5.4	0.307	4.10	1.8	72
M676838		6.6	0.007	6.28	548	2.1	462	45.3	6.9	0.05	12.70	1.4	0.020	0.11	0.9	93
M676839		16.4	0.018	0.15	248	1.4	34	24.0	15.2	0.05	347	1.2	0.026	0.91	0.7	9
M676840		97.1	<0.002	0.60	16.20	18.1	16	60.0	237	0.81	1.00	12.4	0.340	1.48	2.8	71
M676841		124.0	0.017	1.22	4.60	6.9	16	18.8	137.5	0.49	0.98	7.8	0.190	1.06	11.3	498
M676842		116.0	0.009	0.25	11.70	8.7	7	72.0	101.5	0.47	0.10	5.2	0.173	0.97	3.9	155
M676843		68.5	0.003	0.23	0.83	23.5	3	5.0	238	0.70	0.27	8.4	0.507	0.73	1.7	91
M676844		177.5	<0.002	1.43	46.3	15.3	6	32.6	253	1.07	0.05	13.3	0.328	1.93	3.3	70
M676845		152.5	<0.002	1.06	1.98	13.3	8	20.3	266	1.09	0.35	14.7	0.282	1.42	3.5	55



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Sample Description	Method Analyte Units LOR	ME- MS61 W ppm 0.1	ME- MS61 Y ppm 0.1	ME- MS61 Zn ppm 2	ME- MS61 Zr ppm 0.5	Ag- OG62 Ag ppm 1	Cu- OG62 Cu % 0.001	Au- AA23 Au ppm 0.005	Au- GRA21 Au ppm 0.05
M676824		1.1	22.2	493	95.2			0.014	
M676825		0.5	4.9	19	54.2			0.036	
M676826		4.4	5.5	302	17.4	103	1.465	2.16	
M676827		7.9	20.2	56	110.5			0.036	
M676828		0.7	60.4	40	70.7			0.038	
M676829		0.2	16.4	119	34.0			0.021	
M676830		0.7	26.3	289	63.8			0.191	
M676831		1.0	29.9	280	125.0			0.027	
M676832		2.4	43.1	101	141.0			<0.005	
M676833		0.5	18.1	1140	64.0			<0.005	
M676834		1.0	39.1	219	110.5			<0.005	
M676835		1.1	26.1	32	129.0			<0.005	
M676836		2.2	22.1	232	94.0			<0.005	
M676837		25.6	7.9	114	26.4			0.179	
M676838		2.3	0.7	38	6.4			0.407	
M676839		305	1.8	40	3.2	260		>10.0	16.80
M676840		21.5	22.8	190	44.0			0.036	
M676841		10.5	25.1	1890	85.7			0.060	
M676842		2.8	12.0	14	82.3			<0.005	
M676843		4.8	28.4	47	81.6			0.009	
M676844		2.7	25.7	92	75.3			<0.005	
M676845		2.3	24.5	216	78.2			0.005	



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Method	CERTIFICATE COMMENTS
ME- MS61 ME- MS61	Interference: Ca> 10%on ICP- MS As,ICP- AES results shown. REEs may not be totally soluble in this method.



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This report is for 159 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

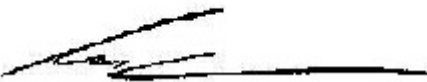
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE

To: **SILVER RANGE RESOURCES 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	Au- ICP21	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Au	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
		ppm	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.001	0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40152		0.013	0.33	0.35	0.80	51.6	<0.2	<10	440	0.38	0.86	0.30	1.27	29.7	6.5	19
ZZ40153		0.012	0.25	0.47	1.29	23.3	<0.2	<10	580	0.46	0.63	0.38	1.29	28.2	7.8	25
ZZ40154		0.014	0.20	0.33	0.81	192.0	<0.2	<10	410	0.44	0.58	0.48	2.07	20.5	6.8	14
ZZ40155		0.010	0.24	0.66	1.16	17.0	<0.2	<10	610	0.46	0.48	0.79	1.00	24.4	6.9	19
ZZ40156		0.004	0.28	0.28	1.03	17.9	<0.2	<10	510	0.35	0.32	0.58	0.39	23.6	6.7	19
ZZ40157		0.004	0.27	0.28	1.24	23.1	<0.2	<10	510	0.41	0.39	0.42	0.33	28.1	7.1	23
ZZ40158		0.005	0.34	0.32	1.19	23.5	<0.2	<10	510	0.45	0.39	0.41	0.49	28.7	7.5	24
ZZ40159		0.005	0.26	0.39	1.10	27.5	<0.2	<10	540	0.42	0.46	0.39	1.02	30.1	7.5	21
ZZ40160		0.003	0.19	0.39	1.00	16.3	<0.2	<10	450	0.41	0.27	0.45	1.10	23.7	6.4	17
ZZ40161		0.007	0.23	0.42	1.00	22.1	<0.2	<10	430	0.38	0.26	0.68	1.68	24.9	5.8	17
ZZ40162		0.010	0.25	0.34	0.86	24.5	<0.2	<10	350	0.37	0.21	0.72	0.85	21.7	4.4	13
ZZ40163		0.008	0.16	0.42	0.93	26.4	<0.2	<10	410	0.41	0.24	0.94	1.58	23.4	6.4	15
ZZ40164		0.011	0.15	0.32	0.84	20.9	<0.2	<10	410	0.38	0.19	1.12	1.69	20.2	6.0	13
ZZ40165		0.006	0.27	0.56	0.80	46.7	<0.2	<10	430	0.38	0.42	0.57	1.29	28.3	6.2	18
ZZ40166		0.050	0.23	0.70	1.06	42.9	<0.2	<10	400	0.38	0.51	1.06	0.76	28.9	6.4	21
ZZ40167		0.003	0.25	0.52	1.14	14.8	<0.2	<10	130	0.25	0.29	0.11	0.53	19.35	4.9	18
ZZ40168		0.013	0.25	0.28	0.97	26.1	<0.2	<10	130	0.26	0.31	0.10	0.61	23.0	5.4	18
ZZ40169		0.008	0.27	0.34	0.81	41.1	<0.2	<10	450	0.41	0.64	0.31	1.62	25.1	6.1	17
ZZ40170		0.004	0.22	1.10	1.23	22.7	<0.2	<10	280	0.39	0.24	0.07	0.33	16.10	4.3	32
ZZ40171		0.003	0.22	0.67	1.03	10.2	<0.2	<10	610	0.32	0.20	0.11	1.15	21.1	7.3	22
ZZ40172		0.003	0.28	0.14	1.00	36.2	<0.2	<10	250	0.31	0.54	0.09	0.54	22.8	4.8	21
ZZ40173		0.013	0.20	1.31	1.97	32.4	<0.2	<10	240	0.62	1.98	0.07	0.50	20.9	7.2	36
ZZ40174		0.004	0.24	0.22	0.96	46.3	<0.2	<10	340	0.44	0.53	0.16	0.53	28.7	6.1	20
ZZ40175		0.018	0.30	0.75	1.02	81.7	<0.2	<10	350	0.48	1.09	0.42	2.15	31.2	7.1	22
ZZ40176		0.013	0.20	0.57	1.02	60.6	<0.2	<10	360	0.42	0.51	1.18	1.55	20.4	5.9	18
ZZ40177		0.005	0.26	0.61	1.10	29.6	<0.2	<10	230	0.41	0.31	0.23	0.48	23.7	6.8	23
ZZ40178		0.004	0.31	0.18	0.80	80.2	<0.2	<10	220	0.36	2.01	0.13	0.44	25.6	5.2	16
ZZ40179		0.004	0.21	0.46	0.91	38.0	<0.2	<10	290	0.35	0.48	0.14	0.35	19.70	4.3	21
ZZ40180		0.016	0.21	0.25	1.37	24.1	<0.2	<10	410	0.50	0.32	0.17	0.38	24.6	7.7	28
ZZ40181		0.006	0.22	1.20	0.95	50.2	<0.2	<10	310	0.36	0.50	0.37	0.49	18.50	4.7	19
ZZ40182		0.017	0.27	1.06	1.24	27.4	<0.2	<10	880	0.44	0.50	0.36	0.83	23.0	5.0	19
ZZ40183		0.010	0.27	0.39	0.76	26.9	<0.2	<10	380	0.31	0.65	0.51	0.33	17.40	5.2	14
ZZ40184		0.077	0.22	0.24	0.90	58.1	<0.2	<10	420	0.38	0.87	0.20	0.35	23.8	5.0	20
ZZ40185		0.002	0.24	0.38	1.34	56.2	<0.2	<10	490	0.49	0.50	0.25	0.99	26.0	7.6	25
ZZ40186		0.022	0.29	0.32	1.20	61.0	<0.2	<10	600	0.57	0.49	0.32	0.34	32.8	7.8	26
ZZ40187		0.004	0.26	1.50	0.51	14.5	<0.2	<10	240	0.21	0.32	0.13	1.01	10.70	2.8	9
ZZ40188		0.002	0.29	0.29	1.52	14.3	<0.2	<10	360	0.65	0.24	0.14	0.29	22.4	7.9	23
ZZ40189		0.004	0.25	0.34	1.81	17.8	<0.2	<10	300	0.75	0.26	0.12	0.29	31.1	11.0	27
ZZ40190		0.003	0.22	0.56	1.71	16.4	<0.2	<10	160	0.58	0.27	0.12	0.39	24.7	10.5	29
ZZ40191		0.009	0.15	0.77	0.98	40.9	<0.2	<10	350	0.38	0.47	0.67	0.74	20.6	4.0	17



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40152		1.37	30.1	1.68	2.90	0.10	0.06	0.05	0.025	0.06	15.4	9.7	0.32	526	2.05
ZZ40153		1.41	28.3	1.98	4.27	0.09	0.05	0.12	0.030	0.06	14.8	14.4	0.33	224	1.53
ZZ40154		0.94	29.2	3.41	2.59	0.11	0.05	0.07	0.027	0.04	10.6	6.9	0.21	495	6.09
ZZ40155		1.17	28.6	1.52	3.70	0.08	0.04	0.11	0.029	0.08	12.9	12.7	0.32	146	1.77
ZZ40156		0.96	21.3	1.77	3.64	0.08	0.05	0.08	0.024	0.05	12.5	12.1	0.31	253	1.59
ZZ40157		1.21	22.1	2.09	4.15	0.09	0.06	0.09	0.029	0.06	14.9	14.1	0.35	315	1.66
ZZ40158		1.34	22.0	2.05	4.22	0.09	0.05	0.09	0.028	0.06	15.2	15.0	0.38	351	1.66
ZZ40159		1.24	30.1	1.99	3.63	0.09	0.05	0.11	0.028	0.07	15.9	12.7	0.32	420	1.83
ZZ40160		1.05	26.2	1.62	3.22	0.08	0.05	0.10	0.024	0.05	12.4	10.6	0.25	644	1.42
ZZ40161		1.06	24.6	2.09	3.14	0.09	0.05	0.11	0.026	0.06	13.6	13.0	0.27	378	0.94
ZZ40162		1.02	19.9	1.64	2.78	0.07	0.05	0.08	0.023	0.06	12.2	10.5	0.24	222	1.66
ZZ40163		1.23	24.9	1.77	2.86	0.09	0.06	0.09	0.026	0.07	12.8	11.7	0.27	465	2.16
ZZ40164		0.82	22.0	1.49	2.73	0.07	0.05	0.10	0.021	0.06	11.1	9.7	0.25	506	1.41
ZZ40165		1.45	30.8	1.89	2.86	0.10	0.07	0.11	0.028	0.08	15.1	10.8	0.33	271	1.97
ZZ40166		1.52	23.9	1.66	3.48	0.09	0.06	0.10	0.032	0.07	13.9	13.2	0.36	491	1.55
ZZ40167		1.03	12.8	2.15	5.12	0.07	0.02	0.02	0.019	0.07	10.6	12.0	0.25	191	1.38
ZZ40168		1.20	20.2	2.13	4.72	0.08	<0.02	0.02	0.021	0.07	12.3	10.2	0.23	153	1.66
ZZ40169		1.04	33.2	1.83	3.11	0.08	0.03	0.05	0.028	0.08	14.1	10.2	0.21	363	2.14
ZZ40170		2.75	25.2	2.41	4.65	0.08	0.05	0.03	0.027	0.10	9.6	21.7	0.39	116	2.10
ZZ40171		1.29	16.7	2.01	4.48	0.08	0.02	0.02	0.019	0.09	11.0	10.9	0.25	274	1.16
ZZ40172		0.94	17.1	1.85	3.87	0.08	0.04	0.07	0.025	0.07	12.6	12.8	0.31	131	1.86
ZZ40173		3.08	39.6	3.47	6.03	0.06	0.08	0.03	0.039	0.11	11.7	22.8	0.41	186	2.43
ZZ40174		0.95	23.3	1.79	3.11	0.08	0.02	0.06	0.025	0.07	15.5	12.1	0.35	198	1.89
ZZ40175		1.50	33.9	2.10	3.49	0.11	0.05	0.17	0.039	0.09	16.6	12.4	0.39	341	2.84
ZZ40176		1.10	31.1	1.65	3.45	0.08	0.07	0.10	0.028	0.08	11.4	11.7	0.29	288	1.07
ZZ40177		2.19	21.6	2.03	3.79	0.10	0.03	0.05	0.026	0.07	12.7	17.1	0.33	210	1.65
ZZ40178		1.05	21.5	1.58	2.75	0.08	0.03	0.04	0.028	0.05	14.1	10.4	0.23	141	2.14
ZZ40179		1.05	15.2	1.72	3.86	0.07	<0.02	0.02	0.022	0.07	10.8	11.6	0.24	133	1.68
ZZ40180		1.61	20.7	2.29	4.67	0.09	0.03	0.03	0.028	0.10	13.4	15.8	0.38	250	1.62
ZZ40181		1.03	17.3	1.69	3.45	0.07	<0.02	0.04	0.026	0.07	10.2	11.7	0.29	103	1.58
ZZ40182		2.12	35.4	1.77	4.48	0.09	0.03	0.05	0.031	0.10	12.2	13.2	0.24	194	1.27
ZZ40183		0.80	19.7	1.42	2.83	0.07	0.03	0.04	0.020	0.08	9.0	8.7	0.21	229	1.24
ZZ40184		0.95	19.8	1.65	3.20	0.08	0.02	0.03	0.028	0.07	12.5	13.8	0.30	171	1.75
ZZ40185		1.37	21.3	2.26	4.86	0.09	0.02	0.04	0.031	0.09	13.9	13.3	0.35	334	1.95
ZZ40186		1.10	40.0	2.19	4.18	0.12	0.04	0.09	0.033	0.10	18.8	14.2	0.41	301	2.67
ZZ40187		1.49	33.3	0.91	3.13	0.05	<0.02	0.03	0.011	0.04	5.7	2.4	0.06	152	0.83
ZZ40188		1.23	11.4	2.31	4.21	<0.05	0.03	0.03	0.022	0.05	11.7	13.0	0.32	191	1.63
ZZ40189		1.48	26.8	2.68	4.25	<0.05	0.04	0.05	0.031	0.06	15.7	14.3	0.37	233	2.21
ZZ40190		1.56	16.2	2.73	4.76	<0.05	0.04	0.03	0.029	0.07	12.1	18.8	0.45	239	1.59
ZZ40191		1.25	21.7	1.34	3.23	<0.05	0.03	0.15	0.022	0.05	10.7	9.8	0.27	82	0.87



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Project: SNAIL

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ40152		0.65	25.2	800	31.5	7.9	0.001	0.02	6.66	3.1	0.9	1.2	24.3	<0.01	0.03
ZZ40153		0.93	24.3	820	22.1	10.3	0.001	0.03	3.40	3.9	1.4	0.9	29.8	<0.01	0.04
ZZ40154		0.66	17.1	1110	27.7	5.9	0.002	0.04	7.43	2.6	1.4	0.6	32.8	<0.01	0.05
ZZ40155		0.63	23.7	720	25.0	9.4	0.002	0.07	3.88	3.2	1.7	0.8	53.3	<0.01	0.03
ZZ40156		0.77	18.4	710	17.7	8.5	0.001	0.02	2.14	3.1	1.0	0.6	39.6	<0.01	0.03
ZZ40157		0.84	19.5	750	21.4	10.2	0.001	0.02	2.22	3.7	1.2	0.8	31.7	<0.01	0.03
ZZ40158		0.88	22.8	750	21.7	10.4	0.001	0.01	2.38	3.8	1.1	0.8	28.6	<0.01	0.03
ZZ40159		0.72	24.4	910	23.6	8.9	0.001	0.02	3.26	4.0	1.3	0.8	32.4	<0.01	0.04
ZZ40160		0.62	20.6	750	14.8	8.1	0.002	0.04	2.36	3.1	1.7	0.5	27.8	<0.01	0.03
ZZ40161		0.62	21.6	830	16.7	9.8	0.005	0.06	2.17	3.1	2.0	0.6	36.4	<0.01	0.03
ZZ40162		0.48	17.6	840	17.2	10.8	0.002	0.05	2.77	2.2	1.4	0.4	41.7	<0.01	0.03
ZZ40163		0.47	22.4	980	20.2	10.6	0.004	0.05	3.42	2.6	1.7	0.5	48.1	0.01	0.03
ZZ40164		0.50	22.0	850	14.2	7.8	0.007	0.06	2.30	2.3	1.6	0.4	49.0	<0.01	0.03
ZZ40165		0.64	24.3	850	30.8	8.3	0.001	0.02	4.71	4.1	1.4	1.1	34.9	<0.01	0.03
ZZ40166		0.68	19.5	780	40.1	9.7	0.001	0.04	5.02	3.8	1.3	1.7	55.9	<0.01	0.04
ZZ40167		1.33	14.0	370	13.0	10.3	<0.001	0.01	1.20	2.0	0.4	0.8	11.0	<0.01	0.03
ZZ40168		1.07	17.9	390	15.2	10.6	<0.001	0.02	2.29	1.8	0.6	0.7	12.7	<0.01	0.04
ZZ40169		0.53	23.2	420	31.0	10.7	0.001	0.01	4.57	2.6	0.9	1.0	21.8	<0.01	0.04
ZZ40170		1.38	19.7	290	17.0	18.6	<0.001	0.05	1.70	2.8	1.3	0.8	16.3	<0.01	0.04
ZZ40171		1.14	15.7	260	10.8	16.1	<0.001	0.02	1.10	2.3	0.5	0.6	13.2	<0.01	0.03
ZZ40172		0.87	20.1	230	20.6	10.3	<0.001	0.01	4.16	2.5	0.6	0.8	11.7	<0.01	0.03
ZZ40173		1.29	27.3	370	20.6	18.7	<0.001	0.06	3.05	3.7	1.2	0.9	11.6	<0.01	0.22
ZZ40174		0.62	22.0	440	28.6	8.6	<0.001	0.01	4.96	3.0	0.9	1.2	17.8	<0.01	0.03
ZZ40175		0.77	31.0	770	53.1	9.2	0.001	0.02	10.60	3.8	1.3	1.3	34.3	<0.01	0.05
ZZ40176		0.70	21.9	750	29.9	9.9	0.002	0.06	5.13	3.5	1.5	1.2	49.5	<0.01	0.03
ZZ40177		0.95	25.6	850	19.7	12.0	0.001	0.02	2.86	2.5	0.9	0.8	25.0	<0.01	0.03
ZZ40178		0.61	20.1	450	52.2	8.7	0.001	0.01	8.60	2.1	0.8	1.6	20.0	<0.01	0.04
ZZ40179		0.92	16.1	260	25.6	12.5	<0.001	0.02	2.87	2.0	0.6	1.5	18.3	<0.01	0.03
ZZ40180		1.14	26.2	360	18.4	14.1	<0.001	0.02	2.17	3.4	0.8	0.9	17.5	<0.01	0.03
ZZ40181		0.67	17.2	300	28.7	10.8	<0.001	0.02	4.52	2.0	0.8	1.2	22.6	<0.01	0.03
ZZ40182		0.60	22.7	670	25.6	15.1	<0.001	0.04	3.02	2.5	1.0	1.2	33.0	<0.01	0.03
ZZ40183		0.54	15.7	530	18.5	8.3	<0.001	0.02	2.56	2.5	0.6	0.7	27.8	<0.01	0.02
ZZ40184		0.71	17.6	310	35.7	8.3	<0.001	0.02	5.17	2.9	0.9	1.5	16.4	<0.01	0.03
ZZ40185		1.05	23.4	400	38.3	20.6	<0.001	0.01	3.17	3.1	0.7	2.0	18.1	<0.01	0.03
ZZ40186		0.73	33.5	530	44.4	10.8	0.001	0.01	4.83	4.7	1.2	2.2	23.8	0.01	0.04
ZZ40187		0.19	9.9	340	13.1	11.6	<0.001	0.02	1.16	0.4	0.4	0.8	17.1	<0.01	0.02
ZZ40188		0.88	17.7	370	13.8	10.7	<0.001	<0.01	1.10	2.5	0.3	0.6	15.0	<0.01	0.04
ZZ40189		0.99	30.1	440	15.3	11.7	0.001	0.01	1.70	3.4	0.6	0.7	16.2	0.01	0.06
ZZ40190		1.24	24.0	590	12.5	12.3	<0.001	<0.01	1.24	3.2	0.4	0.7	11.4	<0.01	0.04
ZZ40191		0.56	15.0	880	24.2	9.5	0.001	0.05	2.84	2.1	0.6	1.1	34.0	<0.01	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	Pb- OG46
		Ti	Ti	U	V	W	Y	Zn	Zr	Ag	Pb
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
ZZ40152		0.037	0.17	1.04	38	0.18	9.25	104	2.9		
ZZ40153		0.025	0.19	2.05	46	0.20	9.41	108	1.3		
ZZ40154		0.019	0.13	1.47	46	0.22	8.65	93	1.5		
ZZ40155		0.016	0.17	1.57	45	0.15	9.43	127	0.8		
ZZ40156		0.021	0.13	1.41	41	0.18	6.97	77	1.1		
ZZ40157		0.017	0.16	1.31	44	0.18	8.70	87	1.4		
ZZ40158		0.022	0.17	1.24	45	0.22	8.87	94	1.2		
ZZ40159		0.020	0.18	1.12	43	0.18	10.90	117	1.3		
ZZ40160		0.019	0.14	2.23	35	0.13	9.65	98	1.3		
ZZ40161		0.016	0.15	1.23	37	0.12	10.30	143	1.3		
ZZ40162		0.014	0.14	1.17	33	0.17	8.48	132	1.3		
ZZ40163		0.014	0.17	1.14	37	0.15	10.60	159	1.3		
ZZ40164		0.014	0.12	1.06	32	0.11	8.43	133	1.4		
ZZ40165		0.021	0.22	0.84	38	0.28	11.25	135	2.6		
ZZ40166		0.016	0.18	0.88	40	0.13	9.41	109	1.6		
ZZ40167		0.034	0.12	0.48	48	0.35	2.56	85	0.7		
ZZ40168		0.038	0.13	0.53	49	0.27	3.21	81	<0.5		
ZZ40169		0.015	0.13	0.87	42	0.14	8.04	131	<0.5		
ZZ40170		0.057	0.17	0.94	52	0.18	3.35	83	3.1		
ZZ40171		0.042	0.11	0.61	45	0.31	4.06	95	0.7		
ZZ40172		0.032	0.12	0.61	47	0.31	4.23	85	1.8		
ZZ40173		0.039	0.19	0.85	66	0.32	3.45	130	3.7		
ZZ40174		0.022	0.15	0.90	42	0.15	6.55	97	0.5		
ZZ40175		0.031	0.22	1.00	51	0.16	10.55	259	2.1		
ZZ40176		0.018	0.15	1.57	38	0.55	9.56	139	2.1		
ZZ40177		0.033	0.18	0.84	42	0.31	6.09	105	0.6		
ZZ40178		0.017	0.14	0.74	41	0.12	4.87	93	1.1		
ZZ40179		0.030	0.11	0.62	44	0.26	3.66	68	<0.5		
ZZ40180		0.034	0.15	0.93	48	0.42	5.72	90	0.6		
ZZ40181		0.022	0.13	0.57	39	0.16	3.91	74	<0.5		
ZZ40182		0.021	0.15	1.21	44	0.14	8.22	122	0.5		
ZZ40183		0.025	0.10	0.58	34	0.78	5.85	61	0.7		
ZZ40184		0.021	0.11	0.68	40	0.13	4.84	78	0.5		
ZZ40185		0.030	0.18	0.82	51	0.72	6.39	118	<0.5		
ZZ40186		0.028	0.20	1.13	54	0.22	14.10	112	1.1		
ZZ40187		0.019	0.10	0.50	29	0.13	2.31	41	<0.5		
ZZ40188		0.029	0.13	0.59	48	0.32	3.58	73	1.2		
ZZ40189		0.030	0.22	0.84	50	0.24	5.08	85	1.3		
ZZ40190		0.044	0.16	0.66	48	0.35	3.78	91	1.9		
ZZ40191		0.020	0.15	1.02	34	0.24	6.34	92	0.8		



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Sample Description	Method Analyte Units LOR	Au- ICP21	WEI- 21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Au	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
		ppm	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.001	0.02	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40192		0.012	0.20	0.57	0.95	72.2	<0.2	<10	380	0.45	0.78	1.16	0.89	22.0	5.7	17
ZZ40193		0.009	0.21	0.47	0.92	38.2	<0.2	<10	340	0.36	0.44	1.56	3.06	15.75	4.0	15
ZZ40194		0.007	0.28	0.58	0.93	59.4	<0.2	<10	360	0.38	0.47	0.98	1.03	19.70	5.8	19
ZZ40195		0.002	0.29	0.50	0.88	50.8	<0.2	<10	310	0.44	0.40	0.94	0.74	22.1	5.8	20
ZZ40196		0.004	0.20	0.41	0.89	61.4	<0.2	<10	320	0.38	0.31	0.86	1.32	22.0	5.5	16
ZZ40197		0.005	0.23	1.07	1.11	120.0	<0.2	<10	460	0.47	0.64	0.89	1.33	22.8	7.8	24
ZZ40198		0.007	0.14	0.89	0.72	80.5	<0.2	<10	1120	0.36	0.40	3.01	5.03	13.05	6.1	12
ZZ40199		0.005	0.25	0.34	1.16	9.8	<0.2	<10	540	0.41	0.21	0.39	0.81	28.7	7.1	21
ZZ40200		0.004	0.24	0.34	1.13	8.4	<0.2	<10	670	0.49	0.21	0.67	1.25	28.0	8.0	22
ZZ40201		0.010	0.27	0.29	1.08	12.0	<0.2	<10	520	0.57	0.20	0.31	0.99	35.2	9.0	22
ZZ40202		0.003	0.22	0.29	1.20	15.8	<0.2	<10	490	0.58	0.25	0.48	0.77	34.4	7.1	23
ZZ40203		0.045	0.29	0.38	1.11	10.4	<0.2	<10	410	0.49	0.22	0.30	0.80	28.5	6.3	22
ZZ40204		0.004	0.30	0.49	1.14	11.2	<0.2	<10	460	0.51	0.22	0.52	1.22	31.0	7.8	22
ZZ40205		0.006	0.24	0.25	0.94	5.3	<0.2	<10	340	0.28	0.14	0.34	0.40	22.5	12.5	15
ZZ40206		0.026	0.31	0.36	1.15	10.7	<0.2	<10	520	0.49	0.21	0.48	0.66	29.1	7.3	21
ZZ40207		0.003	0.27	0.24	0.95	6.6	<0.2	<10	390	0.43	0.17	0.36	0.65	23.9	4.5	17
ZZ40208		0.004	0.18	0.36	0.98	10.5	<0.2	<10	340	0.44	0.14	0.97	0.93	24.2	6.0	18
ZZ40209		0.002	0.25	0.27	0.97	7.6	<0.2	<10	370	0.48	0.15	0.70	1.16	34.6	4.7	16
ZZ40210		0.004	0.21	0.32	1.28	16.8	<0.2	<10	470	0.63	0.24	0.40	0.58	33.8	10.7	27
ZZ40211		0.002	0.28	0.35	1.16	10.6	<0.2	<10	500	0.53	0.19	0.46	0.50	29.6	10.3	21
ZZ40212		0.005	0.22	0.52	1.27	11.4	<0.2	<10	440	0.42	0.27	0.35	0.42	24.9	4.8	25
ZZ40213		0.009	0.28	0.30	1.01	7.6	<0.2	<10	440	0.40	0.19	0.38	0.76	31.0	6.7	21
ZZ40214		0.013	0.23	0.43	1.59	11.1	<0.2	<10	500	0.49	0.26	0.29	0.29	29.9	7.3	31
ZZ40215		0.006	0.23	0.27	1.29	10.2	<0.2	<10	460	0.60	0.22	0.34	0.48	30.8	7.1	27
ZZ40216		0.005	0.24	0.30	1.35	9.4	<0.2	<10	410	0.52	0.22	0.34	0.31	31.3	7.3	29
ZZ40217		0.006	0.27	0.49	1.29	10.9	<0.2	<10	410	0.43	0.21	0.35	0.38	29.6	5.4	25
ZZ40218		0.003	0.24	0.34	1.11	7.0	<0.2	<10	340	0.45	0.19	0.33	0.35	33.5	6.9	25
ZZ40219		0.008	0.23	0.28	1.32	13.8	<0.2	<10	500	0.58	0.22	0.27	0.40	27.6	6.8	24
ZZ40220		0.004	0.22	0.31	1.24	9.9	<0.2	<10	510	0.45	0.22	0.35	0.41	27.0	6.4	25
ZZ40221		0.012	0.22	0.27	1.07	7.1	<0.2	<10	350	0.28	0.18	0.20	0.35	21.1	5.6	21
ZZ40222		0.010	0.16	0.41	0.39	1.4	<0.2	<10	150	0.13	0.04	0.23	0.18	8.17	2.0	6
ZZ40223		0.003	0.27	0.35	1.18	6.9	<0.2	<10	380	0.44	0.20	0.19	0.52	25.1	7.4	23
ZZ40224		0.004	0.25	0.59	1.40	11.7	<0.2	<10	530	0.51	0.22	0.49	0.56	35.0	8.6	32
ZZ40225		0.013	0.23	0.27	0.84	6.0	<0.2	<10	290	0.40	0.10	1.12	1.11	25.5	2.6	13
ZZ40226		0.003	0.21	0.25	0.85	3.0	<0.2	<10	330	0.34	0.09	0.64	1.67	26.2	2.7	14
ZZ40227		0.005	0.22	0.39	1.17	10.1	<0.2	<10	520	0.46	0.16	0.39	0.64	28.0	8.2	19
ZZ40228		0.007	0.30	0.34	1.27	10.5	<0.2	<10	550	0.53	0.22	0.39	0.92	36.4	7.7	26
ZZ40229		0.010	0.24	0.36	1.08	9.1	<0.2	<10	480	0.49	0.19	0.49	0.75	34.0	7.8	22
ZZ40230		0.004	0.25	0.22	1.11	9.7	<0.2	<10	450	0.46	0.20	0.32	0.51	32.8	6.7	22
ZZ40231		0.002	0.20	0.24	0.73	4.8	<0.2	<10	220	0.22	0.11	0.27	0.22	15.90	3.1	13



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40192		0.98	22.0	1.68	2.81	<0.05	0.05	0.12	0.026	0.07	10.8	10.7	0.31	330	1.41
ZZ40193		0.93	19.6	1.17	2.55	<0.05	0.04	0.11	0.020	0.06	8.1	9.2	0.29	255	0.63
ZZ40194		0.95	20.1	1.64	2.90	<0.05	0.04	0.09	0.023	0.07	10.4	11.1	0.36	341	1.37
ZZ40195		1.08	18.7	1.65	2.85	<0.05	0.03	0.08	0.022	0.06	10.6	11.3	0.39	406	1.53
ZZ40196		0.93	23.2	1.30	2.90	0.05	0.04	0.10	0.020	0.04	11.2	9.7	0.29	248	1.40
ZZ40197		1.30	28.2	1.86	3.35	0.05	0.04	0.07	0.031	0.06	12.1	12.7	0.44	758	2.22
ZZ40198		0.60	27.4	1.83	1.99	<0.05	0.05	0.08	0.018	0.04	6.3	5.4	0.23	574	0.87
ZZ40199		1.23	21.4	1.97	3.70	0.05	0.02	0.16	0.026	0.07	14.3	11.6	0.32	318	1.36
ZZ40200		1.11	25.2	1.86	3.83	<0.05	0.03	0.11	0.024	0.07	13.6	14.1	0.37	202	1.19
ZZ40201		1.25	30.1	2.28	3.55	0.05	0.02	0.12	0.024	0.07	17.6	12.5	0.35	252	2.42
ZZ40202		1.19	23.2	2.05	4.01	<0.05	0.02	0.11	0.026	0.07	17.9	14.7	0.37	403	1.73
ZZ40203		1.39	26.0	1.97	3.71	0.05	0.02	0.17	0.024	0.07	14.9	12.7	0.32	151	1.95
ZZ40204		1.36	28.6	2.41	3.62	<0.05	0.03	0.15	0.026	0.07	14.8	13.2	0.35	251	1.85
ZZ40205		1.05	14.0	1.48	2.96	<0.05	<0.02	0.08	0.018	0.05	10.0	9.8	0.24	300	1.06
ZZ40206		1.20	24.4	2.10	3.65	0.05	0.03	0.14	0.026	0.07	15.0	13.5	0.36	249	1.94
ZZ40207		0.92	19.9	1.24	3.03	<0.05	0.02	0.11	0.018	0.05	11.4	10.1	0.26	96	0.64
ZZ40208		1.08	19.3	1.14	3.01	0.05	0.05	0.09	0.023	0.05	12.6	11.3	0.37	92	0.63
ZZ40209		1.13	22.7	1.25	3.13	0.05	0.04	0.10	0.023	0.06	17.0	13.3	0.32	124	1.08
ZZ40210		1.52	20.5	2.59	4.26	0.05	0.02	0.11	0.028	0.07	17.4	15.7	0.40	257	2.62
ZZ40211		1.29	24.4	2.24	3.77	0.05	0.02	0.13	0.025	0.07	13.5	13.5	0.35	348	1.86
ZZ40212		1.64	18.0	2.18	4.67	<0.05	<0.02	0.13	0.021	0.07	12.9	12.2	0.32	145	1.74
ZZ40213		1.23	24.6	1.76	3.34	0.05	<0.02	0.12	0.022	0.07	15.0	12.4	0.36	266	1.32
ZZ40214		1.62	22.9	2.16	4.96	0.05	0.02	0.15	0.029	0.08	15.2	18.8	0.43	176	1.39
ZZ40215		1.23	27.2	2.09	4.30	0.05	0.02	0.10	0.023	0.07	16.1	14.5	0.41	147	0.99
ZZ40216		1.40	25.6	2.24	4.35	<0.05	0.03	0.11	0.028	0.09	17.0	17.3	0.47	193	1.11
ZZ40217		1.65	26.5	2.04	4.56	0.05	<0.02	0.11	0.023	0.08	15.5	16.2	0.36	154	0.91
ZZ40218		1.43	20.9	1.87	3.83	0.05	<0.02	0.09	0.024	0.07	16.5	14.3	0.41	143	0.89
ZZ40219		1.29	30.6	2.74	4.02	<0.05	0.02	0.12	0.028	0.06	14.6	13.7	0.31	191	1.93
ZZ40220		1.30	23.7	1.97	4.41	<0.05	0.02	0.10	0.024	0.06	14.4	12.7	0.31	207	1.26
ZZ40221		1.18	20.5	1.64	3.67	<0.05	<0.02	0.10	0.019	0.06	10.9	12.0	0.28	181	1.10
ZZ40222		0.36	10.3	0.55	1.18	<0.05	<0.02	0.06	0.006	0.03	3.6	1.5	0.05	200	0.35
ZZ40223		1.30	30.5	1.58	4.27	<0.05	0.02	0.10	0.022	0.07	12.2	13.6	0.25	274	1.29
ZZ40224		1.50	35.9	2.29	4.40	0.06	0.04	0.10	0.027	0.11	16.7	19.1	0.51	231	1.54
ZZ40225		0.78	22.4	1.01	2.89	<0.05	0.04	0.08	0.016	0.06	11.6	9.4	0.25	99	0.33
ZZ40226		0.83	16.7	0.74	2.80	<0.05	0.02	0.07	0.014	0.05	12.5	8.5	0.26	81	0.23
ZZ40227		1.32	23.5	1.91	3.59	<0.05	0.02	0.13	0.019	0.06	12.5	11.9	0.30	779	1.68
ZZ40228		1.23	28.6	2.05	4.17	<0.05	0.05	0.11	0.031	0.09	17.4	15.1	0.40	219	1.34
ZZ40229		1.26	29.0	1.91	3.66	<0.05	0.02	0.10	0.026	0.08	15.8	12.8	0.38	304	1.61
ZZ40230		1.20	20.9	1.89	3.59	<0.05	<0.02	0.10	0.025	0.07	15.5	13.1	0.36	199	1.48
ZZ40231		0.86	11.5	1.25	2.91	<0.05	<0.02	0.06	0.013	0.04	7.0	7.3	0.17	99	0.73



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40192		0.55	19.4	850	51.9	9.3	0.002	0.05	4.99	2.9	1.5	1.9	47.9	<0.01	0.04	1.4
ZZ40193		0.40	16.4	870	30.9	10.2	0.003	0.08	3.42	1.8	1.4	1.3	57.9	<0.01	0.03	0.7
ZZ40194		0.56	18.2	870	37.7	8.0	0.001	0.04	3.85	3.2	1.4	1.6	43.8	<0.01	0.03	1.2
ZZ40195		0.54	19.0	910	31.3	7.0	0.001	0.04	3.67	3.1	1.3	1.2	39.0	<0.01	0.04	1.7
ZZ40196		0.62	19.5	780	25.7	6.9	0.003	0.07	3.49	2.6	2.9	1.0	38.1	<0.01	0.03	1.2
ZZ40197		0.47	21.3	1010	86.9	9.3	0.001	0.03	5.56	3.9	1.4	2.4	41.6	<0.01	0.04	1.5
ZZ40198		0.35	19.6	900	39.0	4.5	0.001	0.14	4.21	1.8	3.4	1.3	94.1	<0.01	0.01	0.5
ZZ40199		0.64	23.2	1020	12.8	10.2	0.002	0.03	1.19	3.9	1.7	0.5	30.0	<0.01	0.04	2.8
ZZ40200		0.76	26.4	880	11.9	8.7	0.002	0.04	1.32	4.1	1.6	0.5	39.5	<0.01	0.02	2.8
ZZ40201		0.69	27.3	1000	12.5	8.4	0.001	0.01	1.67	4.5	1.8	0.5	26.8	<0.01	0.04	3.8
ZZ40202		0.86	24.4	800	16.4	9.2	0.002	0.02	1.31	4.3	0.9	0.7	31.7	<0.01	0.03	4.1
ZZ40203		0.66	23.2	890	12.6	10.2	0.001	0.02	1.43	3.9	1.5	0.5	26.7	<0.01	0.04	2.9
ZZ40204		0.73	26.4	970	14.9	10.2	0.003	0.03	1.77	4.4	1.5	0.5	31.2	<0.01	0.04	3.2
ZZ40205		0.48	13.6	770	8.0	10.4	<0.001	0.03	0.70	2.5	0.7	0.4	25.4	<0.01	0.01	1.5
ZZ40206		0.60	22.7	890	13.9	10.2	0.002	0.03	1.52	4.0	1.1	0.5	31.8	<0.01	0.03	3.0
ZZ40207		0.54	15.2	820	10.7	8.1	0.002	0.03	1.18	2.8	1.0	0.4	23.9	<0.01	0.05	2.2
ZZ40208		0.61	18.5	840	16.7	7.8	0.010	0.12	1.89	2.8	4.2	1.1	42.5	<0.01	0.04	2.0
ZZ40209		0.63	17.3	830	14.2	8.4	0.007	0.09	2.62	3.4	2.8	0.7	39.5	<0.01	0.03	3.4
ZZ40210		0.72	23.1	1020	15.8	10.9	0.002	0.02	1.60	4.2	1.5	0.7	29.5	<0.01	0.03	3.2
ZZ40211		0.58	24.1	810	12.8	10.2	0.002	0.02	1.23	3.7	1.1	0.5	32.6	<0.01	0.05	2.8
ZZ40212		0.68	17.5	1140	12.8	11.5	0.001	0.04	0.90	2.7	1.1	0.6	29.4	<0.01	0.04	1.0
ZZ40213		0.63	23.5	960	10.9	8.3	0.001	0.02	1.02	3.8	1.4	0.4	31.9	<0.01	0.03	2.6
ZZ40214		0.78	24.6	730	15.4	13.5	0.001	0.01	0.99	4.2	1.4	0.6	26.5	<0.01	0.05	3.2
ZZ40215		0.87	24.8	840	12.3	10.0	0.001	0.03	1.02	4.3	1.6	0.5	36.8	<0.01	0.04	2.9
ZZ40216		0.69	26.6	870	12.1	11.8	0.001	0.02	0.82	4.2	1.1	0.5	33.5	<0.01	0.05	3.3
ZZ40217		0.66	25.5	850	11.6	13.0	0.002	0.04	0.73	3.9	1.5	0.5	44.8	<0.01	0.02	1.8
ZZ40218		0.76	23.8	890	15.0	9.8	0.001	0.02	0.77	4.0	1.1	0.5	30.6	<0.01	0.03	2.9
ZZ40219		0.65	22.1	990	12.4	9.6	0.001	0.03	0.91	3.2	1.5	0.5	27.7	<0.01	0.05	1.7
ZZ40220		0.71	21.0	920	11.6	8.6	0.001	0.05	0.71	3.5	1.2	0.6	33.6	<0.01	0.04	1.7
ZZ40221		0.49	15.9	780	11.1	8.0	0.001	0.03	0.52	2.3	1.0	0.4	21.5	<0.01	0.03	1.5
ZZ40222		0.16	8.3	470	2.4	2.5	<0.001	0.03	0.22	0.5	0.5	0.3	23.8	<0.01	0.01	<0.2
ZZ40223		0.56	18.9	780	10.3	10.2	0.001	0.03	0.66	2.6	2.5	0.5	29.0	<0.01	0.02	1.0
ZZ40224		0.77	32.6	880	12.1	11.9	0.001	0.03	1.07	5.0	4.8	0.5	51.2	<0.01	0.03	3.3
ZZ40225		0.58	18.4	700	9.6	7.1	0.003	0.07	1.86	2.5	1.6	0.5	47.6	<0.01	0.02	1.5
ZZ40226		0.52	14.5	840	15.5	6.9	0.002	0.06	2.16	2.2	1.4	0.4	34.9	<0.01	0.01	1.8
ZZ40227		0.51	19.9	900	11.0	11.5	0.001	0.05	1.27	3.4	1.2	0.5	30.7	<0.01	0.03	1.7
ZZ40228		0.69	26.3	960	14.7	10.7	0.001	0.02	1.72	5.0	2.0	0.6	33.5	<0.01	0.03	3.9
ZZ40229		0.59	27.6	920	12.2	9.3	0.001	0.02	1.72	4.1	1.4	0.6	34.5	<0.01	0.04	3.2
ZZ40230		0.66	20.5	900	12.5	8.8	0.002	0.01	1.22	3.7	1.4	0.5	27.4	<0.01	0.04	3.3
ZZ40231		0.41	8.6	770	6.7	6.0	0.001	0.03	0.54	1.5	0.7	0.4	19.7	<0.01	0.01	0.5



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
ZZ40192		0.015	0.14	1.23	40	0.11	8.94	129	1.6		
ZZ40193		0.015	0.12	1.56	35	0.10	6.86	166	1.4		
ZZ40194		0.020	0.13	1.22	35	0.22	8.61	112	1.4		
ZZ40195		0.023	0.14	1.00	37	0.28	7.71	109	1.1		
ZZ40196		0.021	0.14	1.97	32	0.36	8.00	113	1.4		
ZZ40197		0.018	0.19	0.91	44	0.11	10.15	135	1.2		
ZZ40198		0.011	0.06	2.97	27	0.07	6.23	100	1.5		
ZZ40199		0.014	0.17	1.64	48	0.18	9.27	107	0.7		
ZZ40200		0.019	0.16	1.24	43	0.13	9.60	111	1.0		
ZZ40201		0.025	0.17	1.57	48	0.15	12.45	112	0.7		
ZZ40202		0.023	0.17	1.73	46	0.17	9.91	95	0.7		
ZZ40203		0.019	0.21	1.24	48	0.14	8.68	108	0.6		
ZZ40204		0.018	0.22	1.69	47	0.19	10.70	126	0.9		
ZZ40205		0.014	0.14	0.71	32	0.10	5.65	77	<0.5		
ZZ40206		0.014	0.18	1.11	48	0.19	9.83	111	0.8		
ZZ40207		0.017	0.13	1.14	38	0.16	7.79	82	0.7		
ZZ40208		0.020	0.16	2.00	38	0.09	8.85	114	1.4		
ZZ40209		0.017	0.15	2.16	35	0.13	10.65	104	1.3		
ZZ40210		0.019	0.18	2.02	51	0.14	10.30	105	0.6		
ZZ40211		0.018	0.18	1.15	48	0.25	9.84	105	0.6		
ZZ40212		0.016	0.21	1.10	50	0.25	6.04	72	<0.5		
ZZ40213		0.024	0.16	1.28	40	0.40	10.15	102	<0.5		
ZZ40214		0.019	0.23	1.06	57	0.39	7.84	111	0.6		
ZZ40215		0.026	0.16	1.51	47	0.45	10.95	89	0.7		
ZZ40216		0.024	0.17	1.26	49	0.16	10.60	101	0.7		
ZZ40217		0.017	0.19	1.10	41	0.13	9.24	80	<0.5		
ZZ40218		0.030	0.19	1.02	40	0.19	10.40	94	<0.5		
ZZ40219		0.013	0.16	1.22	54	0.22	9.90	81	<0.5		
ZZ40220		0.016	0.14	1.13	48	0.41	8.42	72	<0.5		
ZZ40221		0.014	0.17	0.78	42	0.18	4.76	72	<0.5		
ZZ40222		0.019	0.05	0.43	14	<0.05	4.04	11	<0.5		
ZZ40223		0.017	0.14	0.99	44	0.29	7.73	65	<0.5		
ZZ40224		0.026	0.16	1.89	52	0.19	14.45	107	1.1		
ZZ40225		0.020	0.10	1.57	28	0.25	7.88	114	1.3		
ZZ40226		0.020	0.09	1.09	25	0.10	7.06	124	0.9		
ZZ40227		0.014	0.19	1.13	40	0.09	9.87	94	0.8		
ZZ40228		0.018	0.18	1.28	49	0.21	12.15	118	1.5		
ZZ40229		0.023	0.17	1.25	46	0.33	10.90	112	0.8		
ZZ40230		0.022	0.16	1.21	43	0.14	9.13	98	0.5		
ZZ40231		0.025	0.10	0.65	38	0.12	3.63	42	<0.5		



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 21 Recvd Wt. kg 0.02	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
ZZ40232		<0.001	0.26	0.18	0.59	3.2	<0.2	<10	90	0.18	0.09	0.10	0.17	11.60	1.7	10
ZZ40233		0.005	0.18	0.39	1.44	11.4	<0.2	<10	520	0.57	0.24	0.30	0.28	39.0	8.6	28
ZZ40234		0.008	0.16	0.25	0.72	6.3	<0.2	<10	340	0.37	0.10	1.32	0.27	16.30	3.7	10
ZZ40235		0.018	0.22	0.64	1.14	19.1	<0.2	<10	400	0.55	0.18	1.08	0.66	29.7	7.4	21
ZZ40236		0.009	0.12	0.29	0.69	8.5	<0.2	<10	290	0.33	0.10	1.09	0.90	14.90	4.0	15
ZZ40237		0.019	0.13	0.48	0.76	15.9	<0.2	<10	250	0.31	0.12	1.27	0.55	17.20	4.0	16
ZZ40238		0.008	0.21	1.29	0.97	51.3	<0.2	<10	320	0.44	0.40	1.94	1.19	25.2	6.4	25
ZZ40239		0.004	0.17	0.64	1.18	70.2	<0.2	<10	450	0.64	0.44	1.30	0.60	30.3	8.2	25
ZZ40240		0.006	0.26	1.17	1.15	69.1	<0.2	<10	410	0.58	0.64	1.34	1.21	28.7	7.5	31
ZZ40241		0.012	0.14	0.79	0.84	48.6	<0.2	<10	340	0.38	0.36	1.59	1.14	19.75	5.3	20
ZZ40242		0.008	0.18	0.35	0.66	13.2	<0.2	<10	240	0.29	0.17	0.89	0.73	19.35	2.8	15
ZZ40243		0.010	0.15	0.45	0.79	16.3	<0.2	<10	290	0.35	0.19	1.19	1.05	19.55	3.7	16
ZZ40244		0.006	0.16	0.21	0.51	7.0	<0.2	<10	190	0.23	0.10	0.57	0.57	13.65	2.8	11
ZZ40245		0.037	0.16	0.70	0.92	22.3	<0.2	<10	370	0.44	0.21	1.39	2.01	19.35	4.7	20
ZZ40246		0.021	0.23	0.30	1.26	9.0	<0.2	<10	450	0.45	0.19	0.51	0.28	29.2	8.0	22
ZZ40247		0.004	0.23	0.21	1.95	15.1	<0.2	<10	270	0.65	0.22	0.15	0.41	28.2	11.3	29
ZZ40248		0.002	0.21	0.12	1.38	15.3	<0.2	<10	270	0.46	0.19	0.20	0.50	27.2	5.9	24
ZZ40249		0.005	0.19	0.10	0.69	8.3	<0.2	<10	280	0.25	0.16	0.21	0.32	26.0	2.3	12
ZZ40250		0.005	0.20	0.24	0.74	16.4	<0.2	<10	300	0.28	0.11	1.12	0.54	16.50	4.7	11
ZZ40251		0.003	0.31	0.35	0.92	13.5	<0.2	<10	460	0.43	0.15	0.98	0.55	22.8	6.0	14
ZZ40252		0.005	0.24	0.73	1.19	34.5	<0.2	<10	550	0.58	0.28	0.82	0.49	29.1	6.9	21
ZZ40253		0.010	0.20	0.50	0.93	37.6	<0.2	<10	370	0.35	0.30	0.75	0.55	22.7	4.6	17
ZZ40254		0.009	0.19	0.64	1.07	32.2	<0.2	<10	450	0.45	0.39	0.99	1.04	29.0	7.0	21
ZZ40255		0.006	0.15	0.31	0.70	11.6	<0.2	<10	330	0.30	0.13	1.18	0.76	14.30	3.8	10
ZZ40256		0.005	0.31	0.40	1.05	35.1	<0.2	<10	460	0.35	0.25	0.91	0.69	24.5	6.1	20
ZZ40257		0.003	0.31	0.31	1.52	58.2	<0.2	<10	460	0.60	0.44	0.44	0.28	32.2	8.2	28
ZZ40258		0.042	0.11	0.11	0.30	14.9	<0.2	<10	120	0.09	0.03	0.84	0.13	4.37	1.2	3
ZZ40259		0.009	0.16	0.38	0.78	39.6	<0.2	<10	290	0.28	0.19	1.22	0.58	16.30	4.1	14
ZZ40260		0.005	0.29	1.78	1.36	33.3	<0.2	<10	160	0.83	0.21	3.35	3.49	24.8	5.0	86
ZZ40261		0.006	0.16	5.45	1.12	1080	<0.2	<10	190	0.69	1.02	2.37	5.80	22.7	10.5	38
ZZ40262		0.005	0.24	1.78	1.52	209	<0.2	<10	250	0.96	0.70	6.39	4.14	16.50	5.3	104
ZZ40263		0.006	0.22	1.80	1.52	197.5	<0.2	<10	320	0.93	1.34	5.81	4.83	16.25	4.8	106
ZZ40264		0.008	0.21	1.15	0.99	78.3	<0.2	<10	150	0.47	0.97	3.41	1.30	11.30	3.4	49
ZZ40265		0.011	0.21	1.05	0.52	544	<0.2	<10	160	0.36	0.82	3.89	12.65	6.95	3.0	32
ZZ40266		0.008	0.25	0.79	1.01	20.6	<0.2	<10	270	0.39	0.12	1.42	0.42	14.15	4.0	12
ZZ40267		0.003	0.28	0.13	1.36	16.1	<0.2	<10	310	0.60	0.18	0.17	0.26	23.2	9.3	19
ZZ40268		0.004	0.30	0.12	0.95	11.6	<0.2	<10	230	0.23	0.19	0.20	0.23	29.3	3.4	17
ZZ40269		0.007	0.38	0.13	1.37	13.0	<0.2	<10	510	0.59	0.16	0.32	0.41	24.1	7.7	23
ZZ40270		0.015	0.32	0.21	1.31	10.0	<0.2	<10	550	0.37	0.17	0.37	0.60	25.8	6.9	18
ZZ40271		0.003	0.27	1.94	1.87	106.5	<0.2	<10	270	1.03	0.15	1.20	1.81	33.3	12.1	35



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40232		0.65	10.5	0.63	2.66	<0.05	<0.02	0.03	0.008	0.04	5.1	2.3	0.06	64	0.55
ZZ40233		1.23	30.1	2.03	4.52	0.05	<0.02	0.11	0.026	0.07	18.4	16.4	0.42	256	1.17
ZZ40234		0.73	21.2	1.11	2.22	<0.05	0.04	0.06	0.013	0.05	8.0	6.0	0.21	165	0.65
ZZ40235		1.97	25.6	1.90	3.60	<0.05	0.05	0.09	0.021	0.08	14.1	13.5	0.63	489	2.00
ZZ40236		0.75	17.5	1.06	2.24	<0.05	0.03	0.05	0.012	0.04	7.1	5.6	0.24	312	1.04
ZZ40237		0.85	16.4	1.09	2.45	<0.05	0.04	0.06	0.015	0.04	8.3	7.8	0.39	331	0.98
ZZ40238		1.27	20.7	1.56	3.13	0.05	0.06	0.09	0.033	0.06	12.7	14.6	0.70	393	0.94
ZZ40239		1.09	30.8	1.94	3.77	<0.05	0.03	0.09	0.033	0.05	14.9	12.7	0.45	422	1.43
ZZ40240		1.46	28.1	1.92	3.44	0.05	0.05	0.13	0.047	0.09	14.9	14.5	0.61	484	1.54
ZZ40241		0.98	23.0	1.27	2.71	<0.05	0.04	0.09	0.028	0.06	9.6	9.5	0.42	343	0.99
ZZ40242		0.87	14.7	0.78	2.39	<0.05	0.03	0.05	0.017	0.04	9.3	8.0	0.33	71	0.45
ZZ40243		1.05	25.9	1.03	2.61	<0.05	0.04	0.07	0.020	0.04	9.2	7.3	0.31	184	0.70
ZZ40244		0.66	15.8	0.65	1.85	<0.05	0.02	0.04	0.010	0.04	6.2	4.7	0.19	92	0.38
ZZ40245		1.29	35.9	1.91	2.81	<0.05	0.05	0.09	0.024	0.05	10.2	8.5	0.38	158	2.42
ZZ40246		1.19	15.9	1.98	4.00	<0.05	0.02	0.05	0.019	0.06	13.5	13.2	0.41	271	1.32
ZZ40247		1.48	17.1	2.66	5.01	<0.05	0.09	0.03	0.027	0.07	13.9	15.4	0.43	201	1.86
ZZ40248		1.15	13.0	2.45	4.65	<0.05	0.02	0.02	0.023	0.07	12.8	16.4	0.40	134	3.31
ZZ40249		0.79	8.4	1.14	3.82	<0.05	<0.02	0.02	0.012	0.04	12.3	7.0	0.17	77	1.46
ZZ40250		0.68	16.6	1.13	2.39	<0.05	0.03	0.05	0.014	0.04	7.6	6.2	0.19	471	0.93
ZZ40251		0.92	24.9	1.52	2.96	<0.05	0.04	0.07	0.017	0.05	10.6	9.1	0.26	467	1.28
ZZ40252		1.80	32.0	1.84	3.85	<0.05	0.04	0.11	0.029	0.08	14.3	14.0	0.41	321	2.89
ZZ40253		0.90	22.1	1.44	3.19	<0.05	0.03	0.07	0.023	0.06	10.8	9.4	0.30	220	1.39
ZZ40254		0.91	26.2	1.71	3.56	<0.05	0.03	0.11	0.030	0.07	13.8	12.6	0.36	353	1.22
ZZ40255		0.65	17.0	0.89	2.31	<0.05	0.02	0.07	0.013	0.03	6.5	5.6	0.22	191	0.49
ZZ40256		0.84	22.8	2.02	3.63	<0.05	0.03	0.08	0.024	0.06	11.4	10.7	0.36	225	1.64
ZZ40257		1.30	19.1	2.40	4.63	<0.05	0.03	0.06	0.032	0.06	15.0	15.6	0.50	298	1.93
ZZ40258		0.14	6.4	0.42	1.20	<0.05	0.02	0.01	<0.005	0.02	1.9	0.8	0.06	39	0.23
ZZ40259		0.63	16.6	1.20	2.44	<0.05	0.03	0.06	0.018	0.04	7.7	7.3	0.28	196	0.57
ZZ40260		3.88	32.1	1.52	4.64	0.09	0.10	0.05	0.074	0.09	16.5	20.0	1.67	236	2.91
ZZ40261		3.35	59.6	2.02	3.68	0.07	0.08	0.12	0.620	0.10	12.5	17.2	1.05	605	2.84
ZZ40262		5.10	53.3	1.34	4.78	0.11	0.14	0.04	0.141	0.26	10.9	17.4	1.78	235	1.99
ZZ40263		4.36	50.0	1.48	4.97	0.08	0.11	0.03	0.112	0.24	10.7	17.1	1.64	179	2.99
ZZ40264		3.76	23.8	0.88	3.14	0.07	0.05	0.04	0.054	0.08	6.6	12.2	0.97	254	1.33
ZZ40265		1.49	73.5	0.66	1.91	0.17	0.08	0.05	0.043	0.03	4.3	4.8	0.44	386	27.4
ZZ40266		0.95	18.5	1.27	3.11	<0.05	0.04	0.09	0.012	0.04	8.2	16.0	0.17	344	1.22
ZZ40267		1.18	13.9	2.07	3.32	<0.05	0.07	0.04	0.020	0.06	11.7	11.2	0.29	146	2.31
ZZ40268		0.91	6.2	1.79	4.44	<0.05	0.02	0.02	0.013	0.04	14.5	10.7	0.27	96	2.10
ZZ40269		0.76	15.7	2.21	4.11	<0.05	0.05	0.03	0.022	0.06	12.3	11.1	0.36	207	1.97
ZZ40270		0.59	17.5	2.03	4.89	<0.05	0.02	0.02	0.019	0.10	12.7	17.2	0.29	211	2.95
ZZ40271		7.94	60.4	3.17	5.95	0.09	0.20	0.09	0.044	0.11	13.9	26.3	1.41	377	27.4



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ40232		0.09	4.9	580	4.4	4.2	<0.001	0.01	0.21	0.1	0.2	0.4	11.6	<0.01	0.01
ZZ40233		0.81	26.9	770	12.0	10.2	0.001	0.01	0.78	4.6	1.5	0.9	30.2	<0.01	0.02
ZZ40234		0.42	15.7	640	6.8	5.4	0.001	0.05	1.78	2.0	1.5	0.4	43.4	<0.01	0.02
ZZ40235		0.51	23.1	800	12.7	11.0	0.003	0.04	2.88	3.8	2.8	0.6	40.7	<0.01	0.04
ZZ40236		0.40	13.2	850	8.0	6.5	0.001	0.06	1.31	1.5	1.9	0.4	46.6	<0.01	0.02
ZZ40237		0.39	12.0	860	12.8	6.2	0.003	0.07	2.03	1.6	2.9	2.0	46.0	<0.01	0.03
ZZ40238		0.50	18.9	1360	87.6	7.2	0.003	0.06	4.51	3.2	3.3	1.5	59.4	<0.01	0.07
ZZ40239		0.85	28.7	1050	39.6	8.1	0.002	0.04	3.44	3.2	1.6	1.5	46.8	<0.01	0.04
ZZ40240		0.61	29.5	1630	71.5	11.9	0.002	0.03	7.80	4.4	2.1	2.8	49.3	<0.01	0.05
ZZ40241		0.53	18.6	1110	43.2	7.6	0.002	0.04	4.65	2.7	1.7	1.5	56.8	<0.01	0.06
ZZ40242		0.37	11.0	920	20.3	6.9	0.002	0.05	2.39	1.8	1.3	1.5	35.6	<0.01	<0.01
ZZ40243		0.48	15.2	920	19.1	6.0	0.006	0.09	2.36	2.0	2.4	0.8	49.4	<0.01	0.02
ZZ40244		0.33	8.4	680	9.7	4.7	0.003	0.07	1.35	1.4	1.3	0.6	27.3	<0.01	0.01
ZZ40245		0.59	25.6	1120	26.8	6.9	0.004	0.10	4.70	2.7	4.3	1.0	58.3	<0.01	0.05
ZZ40246		0.86	19.4	790	10.0	9.1	<0.001	0.01	0.74	3.3	0.4	0.6	26.7	<0.01	0.03
ZZ40247		1.21	29.8	370	11.8	11.6	<0.001	<0.01	1.01	3.3	0.6	0.7	17.6	<0.01	0.03
ZZ40248		0.85	16.9	550	8.8	9.2	<0.001	<0.01	0.80	2.6	0.6	0.6	16.6	<0.01	0.04
ZZ40249		0.73	7.6	350	9.2	8.3	<0.001	<0.01	0.59	1.6	0.9	0.6	18.7	<0.01	0.02
ZZ40250		0.51	12.4	720	7.5	5.6	<0.001	0.04	1.00	1.7	0.8	0.4	41.3	<0.01	0.02
ZZ40251		0.62	19.9	720	10.2	7.3	0.001	0.03	1.51	2.9	1.2	0.6	41.0	<0.01	0.02
ZZ40252		0.63	23.4	810	45.8	10.8	0.002	0.03	4.71	3.8	1.4	1.4	42.9	<0.01	0.03
ZZ40253		0.64	15.3	870	30.7	8.1	0.002	0.05	4.30	2.4	1.2	1.8	34.7	<0.01	0.03
ZZ40254		0.75	22.9	870	29.5	9.3	0.001	0.05	2.94	3.7	2.4	1.2	46.9	<0.01	0.05
ZZ40255		0.41	11.6	640	11.4	5.1	0.001	0.09	1.39	1.6	0.8	0.6	54.6	<0.01	<0.01
ZZ40256		0.68	21.3	1200	33.0	7.1	0.001	0.03	3.82	2.8	1.1	1.8	47.2	<0.01	0.02
ZZ40257		0.90	24.8	730	32.6	8.3	0.001	0.01	3.66	3.6	1.0	2.1	26.0	<0.01	0.05
ZZ40258		0.25	2.4	480	2.4	1.2	0.002	0.04	0.67	0.3	1.0	0.2	33.6	<0.01	<0.01
ZZ40259		0.49	10.8	840	41.7	5.5	0.003	0.05	2.86	1.7	2.3	0.9	44.4	<0.01	0.02
ZZ40260		0.30	38.4	5430	78.6	15.2	0.003	0.04	10.45	5.1	4.0	2.9	90.6	<0.01	0.07
ZZ40261		0.40	47.8	1430	427	17.4	0.005	0.07	37.0	3.3	5.9	15.8	47.7	<0.01	0.20
ZZ40262		0.43	42.9	4980	93.5	29.0	0.009	0.09	14.05	3.4	5.3	4.9	114.0	<0.01	0.10
ZZ40263		0.55	44.0	4690	64.9	27.1	0.004	0.08	13.30	3.6	5.3	3.3	116.5	<0.01	0.10
ZZ40264		0.37	19.2	2230	46.1	12.3	0.005	0.09	10.60	1.7	3.6	2.7	59.8	<0.01	0.04
ZZ40265		0.24	27.3	1600	58.9	4.8	0.087	0.66	304	1.4	59.6	2.4	78.8	<0.01	0.07
ZZ40266		0.55	15.4	630	5.9	9.8	0.003	0.05	1.76	2.7	2.0	0.4	47.2	<0.01	0.02
ZZ40267		0.67	24.0	590	11.2	11.1	0.001	0.01	1.44	2.6	0.8	0.6	17.3	<0.01	0.04
ZZ40268		0.95	8.9	470	11.9	7.9	<0.001	<0.01	0.79	1.9	0.7	0.7	14.2	<0.01	0.04
ZZ40269		0.77	22.5	270	10.6	8.1	<0.001	0.01	1.13	3.6	0.8	0.6	22.0	<0.01	0.04
ZZ40270		0.55	18.4	670	10.6	9.7	<0.001	0.02	1.32	2.4	0.8	0.6	26.5	<0.01	0.04
ZZ40271		0.51	110.5	880	60.2	18.4	0.003	0.03	9.72	6.3	3.3	2.5	32.6	<0.01	0.14



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	Pb- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
ZZ40232		0.008	0.07	0.41	17	0.07	2.50	14	<0.5		
ZZ40233		0.027	0.14	1.47	44	0.42	14.40	79	0.5		
ZZ40234		0.017	0.09	0.97	25	0.28	7.49	38	1.6		
ZZ40235		0.019	0.23	1.20	43	0.11	11.65	86	1.7		
ZZ40236		0.016	0.11	0.96	28	0.06	6.15	54	1.0		
ZZ40237		0.014	0.14	1.13	28	<0.05	6.41	68	1.4		
ZZ40238		0.017	0.16	1.39	39	0.09	11.75	94	2.0		
ZZ40239		0.029	0.14	1.09	40	0.44	12.40	101	0.9		
ZZ40240		0.023	0.24	0.87	51	0.15	14.50	190	1.7		
ZZ40241		0.019	0.13	1.04	33	0.11	9.23	103	1.5		
ZZ40242		0.018	0.13	0.84	26	0.18	6.07	74	1.0		
ZZ40243		0.018	0.14	1.20	28	0.08	7.42	73	1.4		
ZZ40244		0.020	0.09	0.74	21	0.05	4.37	41	0.8		
ZZ40245		0.018	0.19	1.40	31	0.10	11.90	95	2.6		
ZZ40246		0.027	0.15	1.00	43	0.30	8.26	71	0.7		
ZZ40247		0.043	0.16	0.67	53	0.37	4.25	74	3.4		
ZZ40248		0.034	0.11	0.60	53	0.35	4.10	73	0.9		
ZZ40249		0.029	0.11	0.51	35	0.51	3.20	33	<0.5		
ZZ40250		0.022	0.09	0.83	26	0.11	4.97	53	1.2		
ZZ40251		0.021	0.10	1.14	33	0.14	9.40	66	1.3		
ZZ40252		0.020	0.18	1.72	45	0.18	10.40	101	1.1		
ZZ40253		0.023	0.12	1.09	35	0.16	7.06	78	0.8		
ZZ40254		0.022	0.13	1.72	40	0.36	11.10	103	0.9		
ZZ40255		0.018	0.09	0.99	23	0.06	5.56	58	1.0		
ZZ40256		0.022	0.14	1.01	45	0.18	6.28	83	1.0		
ZZ40257		0.030	0.17	1.00	53	0.34	7.49	91	0.8		
ZZ40258		0.021	0.02	0.18	12	<0.05	1.10	15	0.8		
ZZ40259		0.023	0.09	1.07	31	0.11	4.97	70	1.3		
ZZ40260		0.025	0.56	2.05	69	0.17	21.8	206	4.7		
ZZ40261		0.022	0.60	1.42	41	0.14	14.85	558	3.4		
ZZ40262		0.030	0.95	2.31	76	0.18	15.25	248	5.5		
ZZ40263		0.031	0.85	1.68	84	0.21	14.20	232	4.6		
ZZ40264		0.025	0.57	1.29	43	0.11	9.49	133	2.5		
ZZ40265		0.020	0.57	5.11	37	0.13	7.18	311	3.9		
ZZ40266		0.016	0.12	2.00	25	0.07	6.69	100	1.7		
ZZ40267		0.019	0.17	0.65	42	0.20	4.46	81	2.5		
ZZ40268		0.032	0.10	0.46	51	0.29	3.64	43	0.6		
ZZ40269		0.022	0.13	0.68	51	0.27	4.35	85	2.1		
ZZ40270		0.011	0.15	0.56	53	0.18	4.20	83	0.7		
ZZ40271		0.031	1.12	1.49	160	0.81	18.30	245	9.2		



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	Au- ICP21 Au ppm 0.001	WEI- 21 Recvd Wt. kg 0.02	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
ZZ40272		0.002	0.30	0.30	1.54	30.2	<0.2	<10	210	0.34	0.24	0.11	0.39	21.6	6.5	24
ZZ40273		0.007	0.19	0.57	1.16	33.3	<0.2	<10	700	0.53	0.24	0.79	0.96	24.1	8.8	20
ZZ40274		0.005	0.22	0.27	1.00	130.5	<0.2	<10	120	0.24	0.25	0.17	0.79	20.3	4.6	18
ZZ40275		0.002	0.24	2.45	0.91	629	<0.2	<10	160	0.43	0.28	5.82	5.69	18.05	5.0	44
ZZ40276		0.005	0.19	2.67	1.19	599	<0.2	<10	140	0.57	0.25	2.65	5.24	20.4	5.9	50
ZZ40277		0.003	0.26	5.00	1.13	496	<0.2	<10	110	0.53	0.15	2.49	6.82	15.60	5.4	68
ZZ40278		0.003	0.26	3.40	1.37	305	<0.2	<10	190	0.61	0.43	8.58	6.09	22.6	4.3	80
ZZ40279		0.007	0.22	2.12	0.88	229	<0.2	<10	310	0.42	1.21	1.56	2.34	19.60	4.9	25
ZZ40280		0.002	0.20	1.26	1.04	36.7	<0.2	<10	110	0.27	0.28	0.10	0.36	16.15	4.4	18
ZZ40281		0.002	0.24	0.78	1.43	18.1	<0.2	<10	130	0.40	0.22	0.10	0.21	21.7	5.7	22
ZZ40282		0.002	0.23	1.03	1.14	50.8	<0.2	<10	120	0.29	0.28	0.08	0.37	24.9	3.9	18
ZZ40283		0.001	0.23	0.41	1.14	23.5	<0.2	<10	340	0.45	0.18	0.40	0.57	20.0	5.8	20
ZZ40284		0.013	0.28	1.06	1.15	141.5	<0.2	<10	460	0.62	0.55	0.83	0.83	28.2	7.1	25
ZZ40285		0.021	0.20	0.71	1.00	182.0	<0.2	<10	380	0.55	0.75	0.47	0.96	26.5	6.3	22
ZZ40286		0.012	0.23	1.05	1.36	151.0	<0.2	<10	490	0.70	0.59	0.45	0.88	30.4	8.3	28
ZZ40287		0.002	0.25	0.27	1.14	30.4	<0.2	<10	290	0.43	0.21	0.37	0.43	21.9	7.1	22
ZZ40288		0.002	0.22	0.58	1.41	33.1	<0.2	<10	310	0.54	0.19	0.35	0.42	22.6	6.4	24
ZZ40289		0.003	0.23	1.10	1.35	20.0	<0.2	<10	320	0.43	0.25	0.14	0.55	25.2	12.3	24
ZZ40290		0.004	0.37	0.70	0.97	61.7	<0.2	<10	510	0.53	0.29	0.95	0.90	30.2	8.1	22
ZZ40291		0.003	0.32	3.14	0.93	661	<0.2	<10	290	0.36	1.59	1.25	1.77	17.20	5.1	34
ZZ40292		0.003	0.14	1.29	1.09	131	<0.2	<10	250	0.58	0.86	11.40	3.49	18.05	3.9	50
ZZ40481		0.004	0.38	0.54	1.30	17.5	<0.2	<10	720	0.64	0.25	0.80	0.34	27.7	7.9	22
ZZ40482		0.013	0.24	0.51	1.09	40.8	<0.2	<10	380	0.41	0.31	0.71	0.37	25.1	6.4	24
ZZ40483		0.004	0.30	1.23	1.50	353	<0.2	<10	380	0.57	1.81	0.29	0.69	25.3	6.5	33
ZZ40484		0.004	0.26	1.03	1.34	803	<0.2	<10	400	0.63	0.44	0.78	1.30	30.2	9.1	31
ZZ40485		0.013	0.24	0.53	1.46	48.4	<0.2	<10	350	0.62	0.40	0.62	0.55	28.4	9.2	30
ZZ40486		0.018	0.18	1.12	1.88	40.1	<0.2	<10	130	0.90	0.21	8.92	4.21	19.15	5.2	154
ZZ40487		0.140	0.20	1.96	0.09	>10000	<0.2	<10	120	0.06	1.44	6.14	1.38	12.35	168.5	1
ZZ40488		0.063	0.32	>100	1.00	>10000	<0.2	<10	370	0.60	76.0	5.93	127.5	18.60	12.2	17
ZZ40489		0.020	0.25	7.01	1.16	571	<0.2	<10	1200	0.52	6.17	2.78	12.65	20.0	3.3	34
ZZ40490		0.016	0.32	0.52	1.00	53.2	<0.2	<10	670	0.59	0.28	1.22	1.32	34.2	9.2	23
ZZ40491		0.003	0.24	0.12	1.19	60.7	<0.2	<10	170	0.26	0.20	0.19	0.23	20.4	6.6	22
ZZ40492		0.004	0.21	0.21	1.42	19.6	<0.2	<10	240	0.30	0.24	0.11	0.79	19.25	8.0	21
ZZ40493		0.003	0.19	0.60	1.38	306	<0.2	<10	390	0.51	0.25	0.64	0.80	28.7	9.8	27
ZZ40494		0.001	0.26	0.73	1.62	347	<0.2	<10	150	0.87	0.20	0.61	1.26	38.5	13.0	26
ZZ40495		0.003	0.22	2.68	1.87	576	<0.2	<10	100	0.61	0.05	8.09	5.29	21.9	6.1	94
ZZ40496		0.004	0.20	2.00	1.62	793	<0.2	<10	130	0.57	0.76	1.18	2.80	22.6	8.0	44
ZZ40497		0.003	0.20	2.60	1.70	882	<0.2	<10	180	0.61	0.66	2.69	3.54	23.0	7.7	67
ZZ40498		0.003	0.21	1.91	1.79	509	<0.2	<10	220	0.74	0.64	3.06	2.42	24.4	7.0	104



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40272		0.80	16.7	2.71	5.51	<0.05	0.04	0.03	0.023	0.08	11.4	18.7	0.36	152	2.64
ZZ40273		0.96	43.0	1.74	4.24	<0.05	0.02	0.08	0.025	0.10	12.2	9.0	0.26	1030	1.82
ZZ40274		0.73	9.4	2.14	4.72	<0.05	<0.02	0.02	0.015	0.07	10.4	12.8	0.23	126	3.18
ZZ40275		3.90	42.6	1.13	3.00	0.08	0.05	0.04	0.034	0.10	10.4	12.9	0.96	863	1.88
ZZ40276		4.33	111.5	1.64	3.91	0.08	0.06	0.06	0.049	0.10	11.5	17.0	1.12	267	1.00
ZZ40277		4.81	79.6	1.28	4.11	0.08	0.05	0.07	0.051	0.09	9.4	16.0	1.19	386	2.47
ZZ40278		4.70	38.6	1.37	4.34	0.08	0.07	0.05	0.043	0.12	12.7	21.2	1.51	430	1.39
ZZ40279		1.26	26.5	1.44	2.87	<0.05	0.04	0.09	0.044	0.07	10.4	11.0	0.47	346	1.07
ZZ40280		0.89	10.2	1.79	4.38	<0.05	<0.02	0.02	0.015	0.04	7.8	7.8	0.20	117	1.18
ZZ40281		0.74	10.6	2.26	5.72	<0.05	<0.02	0.03	0.017	0.03	11.4	11.8	0.27	150	1.44
ZZ40282		0.83	8.9	1.94	5.25	<0.05	<0.02	0.02	0.017	0.07	13.9	10.7	0.23	105	1.63
ZZ40283		0.87	15.2	2.04	3.91	<0.05	<0.02	0.05	0.018	0.08	10.0	11.6	0.29	167	1.96
ZZ40284		1.33	28.3	2.02	3.60	0.05	0.05	0.08	0.041	0.11	14.9	14.2	0.48	407	2.84
ZZ40285		1.10	27.2	1.92	3.27	<0.05	0.03	0.07	0.038	0.11	14.3	12.4	0.38	318	2.58
ZZ40286		1.91	34.9	2.29	4.26	0.05	0.02	0.08	0.037	0.12	15.1	16.3	0.51	417	2.09
ZZ40287		0.91	12.9	2.08	3.96	<0.05	<0.02	0.03	0.019	0.08	11.1	11.4	0.38	282	1.79
ZZ40288		1.00	12.1	2.28	4.56	<0.05	0.03	0.03	0.021	0.07	11.3	13.8	0.40	164	1.85
ZZ40289		1.08	18.0	2.53	5.17	<0.05	0.02	0.04	0.021	0.06	12.0	9.4	0.26	735	1.63
ZZ40290		0.78	26.3	2.03	3.10	0.05	0.05	0.09	0.024	0.07	14.4	11.2	0.37	470	1.61
ZZ40291		2.16	32.7	1.61	2.88	<0.05	0.05	0.06	0.044	0.11	8.6	13.8	0.54	476	2.20
ZZ40292		5.70	31.9	1.15	3.49	0.07	0.07	0.03	0.050	0.09	10.5	14.3	1.07	417	3.48
ZZ40481		0.96	31.2	2.06	3.77	<0.05	0.04	0.14	0.025	0.07	13.6	11.4	0.35	478	1.49
ZZ40482		1.08	16.8	1.69	3.49	<0.05	0.04	0.08	0.022	0.06	12.2	12.7	0.42	271	1.83
ZZ40483		1.80	25.2	2.20	4.23	<0.05	0.02	0.07	0.064	0.12	12.6	18.3	0.64	273	2.80
ZZ40484		1.41	41.2	2.23	4.52	0.09	0.05	0.07	0.039	0.06	14.9	14.8	0.58	448	1.19
ZZ40485		1.28	25.3	2.20	4.86	0.08	0.04	0.05	0.033	0.07	14.5	15.2	0.45	335	1.41
ZZ40486		5.85	31.2	1.55	6.97	0.15	0.15	0.04	0.029	0.38	12.4	21.1	2.21	160	6.58
ZZ40487		5.11	47.4	23.8	0.43	0.81	0.08	0.06	0.317	0.52	8.3	1.4	0.11	997	6.07
ZZ40488		7.07	884	11.05	4.33	0.33	0.09	0.34	4.14	0.14	9.5	14.8	0.90	1580	18.95
ZZ40489		4.14	107.0	1.14	3.44	0.11	0.08	0.09	0.330	0.06	12.2	22.8	0.98	158	0.62
ZZ40490		1.47	48.6	2.37	3.38	0.11	0.10	0.16	0.032	0.11	17.7	13.0	0.53	438	3.14
ZZ40491		0.83	10.1	2.12	4.45	0.07	0.03	0.01	0.019	0.06	10.2	15.6	0.37	167	1.85
ZZ40492		0.88	11.8	2.16	4.91	0.07	0.02	0.02	0.022	0.07	9.6	16.1	0.30	176	1.60
ZZ40493		1.21	41.1	2.24	4.52	0.09	0.03	0.04	0.031	0.07	14.1	14.5	0.41	355	5.73
ZZ40494		4.89	68.3	4.07	5.34	0.15	0.14	0.02	0.033	0.09	14.7	19.3	0.92	359	34.3
ZZ40495		22.2	158.5	1.60	7.09	0.15	0.14	0.08	0.027	0.38	10.7	35.3	2.61	811	5.82
ZZ40496		4.41	53.2	2.14	5.37	0.09	0.05	0.03	0.098	0.08	11.8	21.4	1.13	451	1.02
ZZ40497		7.22	97.8	1.94	5.63	0.11	0.06	0.05	0.062	0.12	12.4	28.3	1.86	662	1.11
ZZ40498		7.03	62.4	1.78	5.78	0.12	0.10	0.04	0.050	0.12	14.6	25.4	1.71	476	1.19



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ40272		1.12	20.6	300	13.7	9.0	<0.001	0.01	1.55	2.9	0.8	0.8	12.0	<0.01	0.04
ZZ40273		0.63	24.4	590	26.5	14.2	0.001	0.02	2.25	2.9	1.5	1.1	33.3	<0.01	0.04
ZZ40274		0.92	13.0	260	12.8	23.8	<0.001	0.01	1.63	1.8	1.1	1.0	9.6	<0.01	0.04
ZZ40275		0.28	20.5	2850	245	20.6	0.001	0.03	15.35	2.8	2.4	6.9	104.5	<0.01	0.05
ZZ40276		0.66	34.0	2140	212	41.2	0.004	0.07	31.4	2.8	5.4	17.3	60.9	<0.01	0.06
ZZ40277		0.36	34.6	2510	559	23.4	0.002	0.05	42.6	3.1	3.6	26.9	54.8	<0.01	0.05
ZZ40278		0.36	25.8	4840	254	23.9	0.001	0.04	16.10	3.6	2.5	10.6	169.0	<0.01	0.03
ZZ40279		0.45	16.9	1470	173.0	12.6	0.004	0.06	21.0	2.6	2.3	12.4	53.6	<0.01	0.04
ZZ40280		1.05	10.7	250	27.2	8.8	<0.001	0.01	3.68	1.5	0.8	2.1	11.7	<0.01	0.04
ZZ40281		1.24	13.4	270	16.3	6.7	<0.001	0.01	1.26	2.3	0.4	1.1	10.4	<0.01	0.04
ZZ40282		0.94	11.2	350	34.1	11.5	<0.001	0.02	4.63	1.8	0.7	2.1	10.6	<0.01	0.05
ZZ40283		0.79	18.3	420	17.2	16.9	0.001	0.01	1.72	2.4	0.7	1.0	19.5	<0.01	0.03
ZZ40284		0.52	24.3	930	107.5	13.1	0.002	0.02	8.91	4.1	1.6	6.3	36.8	<0.01	0.06
ZZ40285		0.42	21.0	800	107.5	11.1	0.001	0.02	8.84	3.4	1.1	7.4	25.9	<0.01	0.05
ZZ40286		0.64	26.5	780	86.6	18.2	0.001	0.02	6.06	4.2	1.3	5.3	25.9	<0.01	0.05
ZZ40287		0.96	18.1	480	15.0	13.3	<0.001	0.01	1.47	2.5	0.7	0.9	19.8	<0.01	0.04
ZZ40288		1.03	19.1	260	21.1	12.2	<0.001	0.01	1.87	3.0	0.9	1.2	18.0	<0.01	0.04
ZZ40289		1.23	16.2	510	24.3	10.4	<0.001	0.01	2.04	2.7	0.9	1.1	16.1	<0.01	0.05
ZZ40290		0.69	24.7	1000	48.8	8.2	0.002	0.04	6.75	4.0	1.7	2.4	39.6	<0.01	0.04
ZZ40291		0.37	15.6	1690	251	14.3	0.004	0.03	10.75	3.4	2.0	19.0	39.1	<0.01	0.03
ZZ40292		0.33	33.7	3870	66.7	15.4	0.001	0.02	6.34	3.1	2.7	4.0	228	<0.01	0.03
ZZ40481		0.61	22.3	920	17.1	9.1	0.001	0.03	1.95	3.8	1.3	0.8	42.1	<0.01	0.05
ZZ40482		0.59	16.4	1440	37.5	9.7	0.001	0.03	4.39	2.7	1.4	1.9	40.0	<0.01	0.03
ZZ40483		0.45	25.2	770	185.5	18.4	<0.001	0.01	14.75	3.7	1.2	14.3	20.2	<0.01	0.05
ZZ40484		0.90	32.1	670	128.0	10.8	0.001	0.02	25.0	4.5	1.8	2.9	31.0	<0.01	0.07
ZZ40485		1.17	25.4	450	45.7	18.2	0.001	0.01	4.01	4.6	1.1	1.5	23.7	<0.01	0.03
ZZ40486		1.22	42.9	7180	14.9	36.4	0.001	0.04	12.25	5.1	6.6	0.9	181.5	0.01	0.06
ZZ40487		0.38	43.4	130	42.0	180.5	0.021	0.46	203	1.2	127.5	4.4	446	<0.01	21.0
ZZ40488		0.29	54.0	510	>10000	26.9	0.068	0.43	1925	2.7	31.1	>500	171.5	0.01	3.47
ZZ40489		0.69	20.5	3280	658	12.2	0.003	0.09	33.5	2.8	5.9	30.1	139.5	0.01	0.15
ZZ40490		0.54	37.5	1280	24.7	9.9	0.001	0.02	3.89	5.7	1.5	2.7	59.7	<0.01	0.04
ZZ40491		1.12	17.0	270	11.5	10.7	<0.001	<0.01	0.99	2.8	0.5	0.7	13.2	<0.01	0.02
ZZ40492		1.29	16.7	390	13.8	12.3	<0.001	0.01	1.04	2.7	0.4	0.7	11.4	<0.01	0.02
ZZ40493		1.18	28.0	850	26.0	16.2	0.003	0.02	3.91	3.7	1.8	1.1	29.7	<0.01	0.03
ZZ40494		0.33	92.6	230	113.0	23.6	0.004	0.02	17.75	5.2	3.5	3.4	17.4	<0.01	0.08
ZZ40495		0.80	58.5	3600	249	78.0	0.003	0.04	63.6	5.8	3.4	14.1	117.0	0.01	0.03
ZZ40496		0.92	30.1	570	456	30.0	0.001	0.02	11.95	4.5	2.4	21.2	28.0	<0.01	0.07
ZZ40497		0.76	41.1	2580	234	50.0	0.002	0.04	15.75	3.6	2.6	14.4	60.7	<0.01	0.04
ZZ40498		0.80	37.6	5040	157.0	39.4	0.002	0.05	19.50	4.6	2.8	11.0	79.8	0.01	0.04



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CERTIFICATE OF ANALYSIS WH12196523

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Ag- OG46	Pb- OG46
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Pb %
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001
ZZ40272		0.027	0.15	0.48	63	0.21	2.73	75	1.8		
ZZ40273		0.021	0.16	1.15	50	0.20	9.06	138	0.6		
ZZ40274		0.022	0.12	0.36	56	0.29	1.73	100	<0.5		
ZZ40275		0.026	0.74	1.03	42	0.18	11.75	380	1.8		
ZZ40276		0.029	0.66	3.16	51	0.20	12.40	673	2.4		
ZZ40277		0.024	0.60	1.33	62	0.24	14.70	586	2.5		
ZZ40278		0.025	0.63	1.12	56	0.22	16.90	412	2.7		
ZZ40279		0.019	0.21	1.33	38	0.14	9.09	211	1.5		
ZZ40280		0.034	0.16	0.32	49	0.26	1.59	81	<0.5		
ZZ40281		0.038	0.11	0.36	60	0.37	1.91	46	0.9		
ZZ40282		0.032	0.18	0.39	52	0.28	1.97	87	<0.5		
ZZ40283		0.023	0.14	1.01	42	0.21	3.24	72	<0.5		
ZZ40284		0.016	0.20	1.18	49	0.14	9.96	152	1.3		
ZZ40285		0.014	0.18	0.86	48	0.19	6.98	144	0.8		
ZZ40286		0.023	0.24	1.80	50	0.22	10.55	161	0.8		
ZZ40287		0.035	0.13	0.77	43	0.49	3.81	73	<0.5		
ZZ40288		0.027	0.15	0.55	51	0.29	3.08	79	1.0		
ZZ40289		0.037	0.14	0.58	57	0.35	4.64	87	0.6		
ZZ40290		0.023	0.12	1.21	37	0.26	10.80	104	1.3		
ZZ40291		0.022	0.26	1.04	48	0.30	7.41	180	2.0		
ZZ40292		0.024	0.56	1.35	78	0.32	13.50	236	2.5		
ZZ40481		0.020	0.14	1.75	49	0.21	11.10	81	1.2		
ZZ40482		0.021	0.15	1.18	41	0.28	7.14	97	1.2		
ZZ40483		0.014	0.33	0.82	57	0.23	5.97	230	0.8		
ZZ40484		0.031	0.22	1.20	46	0.40	12.50	301	1.2		
ZZ40485		0.031	0.19	0.84	49	0.32	9.61	130	1.3		
ZZ40486		0.053	1.00	2.09	107	0.42	16.60	168	6.6		
ZZ40487		<0.005	1.00	7.99	5	0.15	16.00	413	5.2		
ZZ40488		0.011	1.26	8.23	45	3.66	18.05	6000	4.7	125	1.990
ZZ40489		0.028	0.21	2.14	35	0.50	15.25	827	3.1		
ZZ40490		0.023	0.25	1.07	53	0.15	13.65	182	4.5		
ZZ40491		0.036	0.12	0.43	49	0.27	2.70	79	1.1		
ZZ40492		0.033	0.14	0.44	55	0.47	2.46	88	0.9		
ZZ40493		0.039	0.14	1.88	43	0.25	7.44	180	0.8		
ZZ40494		0.016	0.99	2.23	66	0.64	10.55	247	7.0		
ZZ40495		0.045	2.26	2.33	86	0.49	22.6	987	6.1		
ZZ40496		0.043	0.66	0.92	58	0.55	11.70	419	1.5		
ZZ40497		0.039	1.09	1.59	68	0.25	13.95	562	1.9		
ZZ40498		0.036	0.98	1.41	75	0.30	17.05	298	3.4		



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CERTIFICATE OF ANALYSIS WH12196523

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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P.O. No.:

This report is for 199 Soil samples submitted to our lab in Whitehorse, YT, Canada on 21- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Sn- XRF05	Sn- Trace Level XRF Analysis	XRF
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38137		0.16	0.003	0.21	1.20	19.1	<0.2	<10	150	0.35	0.35	0.08	0.63	26.4	5.2	26
ZZ38138		0.11	0.009	0.20	0.88	15.8	<0.2	<10	190	0.36	0.15	0.10	0.51	23.7	6.2	15
ZZ38139		0.21	0.003	0.37	1.17	12.7	<0.2	<10	340	0.44	0.23	0.21	0.55	27.6	9.1	19
ZZ38140		0.27	0.007	0.48	1.53	18.0	<0.2	<10	440	0.71	0.27	0.33	0.39	42.7	8.9	26
ZZ38141		0.23	0.005	0.81	1.01	16.3	<0.2	<10	480	0.55	0.28	0.27	0.89	25.2	5.4	19
ZZ38142		0.17	0.003	0.62	0.98	11.9	<0.2	<10	470	0.61	0.22	0.42	0.72	21.3	9.0	14
ZZ38143		0.16	0.006	0.56	1.27	20.6	<0.2	<10	700	0.74	0.24	0.62	1.41	30.3	7.6	21
ZZ38144		0.20	0.002	0.34	1.22	13.0	<0.2	<10	590	0.50	0.19	0.76	1.38	23.7	6.3	18
ZZ38145		0.11	0.003	0.55	1.09	21.7	<0.2	<10	640	0.53	0.23	1.14	1.46	25.9	6.0	18
ZZ38146		0.14	0.008	0.10	1.16	11.8	<0.2	<10	540	0.53	0.16	0.40	0.57	26.1	6.5	15
ZZ38147		0.15	0.003	0.10	1.15	9.0	<0.2	<10	470	0.38	0.17	0.09	0.51	21.3	5.4	18
ZZ38148		0.14	0.008	0.40	1.06	18.8	<0.2	<10	710	0.63	0.20	0.87	1.04	31.8	8.2	16
ZZ38149		0.18	0.009	0.35	0.98	23.0	<0.2	<10	470	0.53	0.23	0.41	1.13	32.8	8.1	17
ZZ38150		0.17	0.005	0.27	0.93	8.2	<0.2	<10	490	0.42	0.14	0.71	1.44	18.90	5.0	11
ZZ38151		0.23	0.005	0.39	1.04	30.6	<0.2	<10	550	0.54	0.74	0.58	2.00	28.6	7.2	19
ZZ38152		0.19	0.003	0.41	0.87	18.5	<0.2	<10	550	0.40	0.20	1.13	0.65	21.0	5.4	13
ZZ38153		0.13	0.004	0.40	1.05	18.0	<0.2	<10	500	0.48	0.34	1.52	1.04	25.5	5.1	19
ZZ38154		0.12	0.003	0.23	0.64	8.5	<0.2	<10	300	0.35	0.13	1.13	0.64	14.75	3.3	9
ZZ38155		0.12	0.003	0.46	1.04	26.5	<0.2	<10	420	0.53	0.33	1.28	1.79	23.6	6.3	19
ZZ38156		0.13	0.003	0.44	1.07	24.6	<0.2	<10	500	0.58	0.33	1.39	2.05	24.7	7.1	20
ZZ38157		0.15	0.002	0.24	0.64	8.2	<0.2	<10	230	0.22	0.15	0.81	0.97	11.85	3.8	11
ZZ38158		0.30	0.004	0.15	1.13	25.1	<0.2	<10	290	0.55	0.34	0.35	0.79	25.5	6.2	22
ZZ38159		0.15	0.002	0.35	1.11	22.6	<0.2	<10	330	0.61	0.30	1.58	1.56	23.0	6.9	22
ZZ38160		0.26	0.005	0.56	1.25	57.1	<0.2	<10	550	0.57	0.48	0.75	0.58	29.4	7.9	24
ZZ38161		0.22	0.002	0.22	0.85	29.4	<0.2	<10	320	0.39	0.43	0.43	0.32	27.6	5.4	19
ZZ38162		0.15	0.003	0.58	0.98	69.6	<0.2	<10	420	0.50	0.68	0.97	1.62	20.3	6.1	15
ZZ38163		0.13	0.003	0.50	0.95	46.0	<0.2	<10	430	0.40	0.32	0.92	1.28	20.3	5.0	16
ZZ38164		0.18	0.003	0.40	0.87	27.0	<0.2	<10	350	0.34	0.28	0.88	0.63	16.45	4.2	13
ZZ38165		0.24	0.007	0.57	1.07	50.9	<0.2	<10	450	0.46	0.39	1.05	1.82	22.3	6.0	20
ZZ38166		0.23	0.003	0.37	0.87	19.4	<0.2	<10	410	0.29	0.30	0.83	0.75	15.70	4.4	14
ZZ38167		0.21	0.005	1.15	1.17	153.0	<0.2	<10	500	0.61	1.28	0.67	2.55	32.4	7.9	26
ZZ38168		0.26	0.004	0.46	0.98	46.3	<0.2	<10	440	0.46	0.35	0.67	0.79	25.3	6.4	20
ZZ38169		0.31	0.003	0.44	0.99	33.2	<0.2	<10	510	0.44	0.30	0.71	0.64	26.7	7.3	21
ZZ38170		0.23	0.002	0.49	0.94	24.6	<0.2	<10	400	0.36	0.30	0.63	1.24	17.35	3.5	14
ZZ38171		0.15	0.003	0.64	1.12	44.9	<0.2	<10	480	0.44	0.49	1.08	4.55	20.9	4.3	16
ZZ38172		0.24	0.002	0.56	1.07	54.3	<0.2	<10	460	0.45	0.49	1.05	4.67	21.6	5.3	14
ZZ38173		0.27	0.003	0.63	1.10	42.5	<0.2	<10	530	0.52	0.38	1.45	1.57	23.5	7.3	22
ZZ38174		0.15	0.003	0.41	0.90	27.6	<0.2	<10	390	0.38	0.28	1.25	0.72	19.70	5.5	16
ZZ38175		0.25	0.004	0.82	1.14	62.9	<0.2	<10	560	0.63	0.60	0.90	2.08	30.9	7.4	24
ZZ38176		0.17	0.001	0.34	0.49	27.0	<0.2	<10	290	0.21	0.19	1.08	2.43	10.55	4.1	7



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38137		1.27	19.0	2.61	5.10	<0.05	<0.02	0.03	0.036	0.08	14.5	15.7	0.33	157	2.42
ZZ38138		1.49	16.0	1.94	3.25	<0.05	<0.02	0.04	0.026	0.06	10.5	11.6	0.23	430	1.63
ZZ38139		1.26	16.7	2.19	4.70	<0.05	<0.02	0.04	0.023	0.09	14.7	15.9	0.30	521	1.86
ZZ38140		2.18	34.7	2.72	4.77	0.05	0.02	0.10	0.037	0.10	22.7	21.4	0.46	366	2.32
ZZ38141		1.41	38.7	1.84	3.84	<0.05	<0.02	0.11	0.029	0.08	13.5	9.5	0.22	290	2.21
ZZ38142		1.24	24.2	1.93	3.42	<0.05	0.03	0.10	0.025	0.06	10.5	8.2	0.18	998	1.84
ZZ38143		1.48	37.1	2.66	3.77	0.06	0.08	0.15	0.036	0.07	16.2	11.8	0.30	361	3.51
ZZ38144		1.18	20.5	1.83	3.81	<0.05	0.06	0.08	0.028	0.06	12.5	12.1	0.28	405	1.46
ZZ38145		1.35	31.3	1.85	3.37	<0.05	0.08	0.12	0.037	0.12	14.3	11.6	0.32	518	1.97
ZZ38146		0.88	19.3	2.04	3.72	<0.05	0.05	0.03	0.027	0.06	13.0	12.8	0.24	201	2.18
ZZ38147		1.16	18.7	2.07	4.25	<0.05	0.02	0.02	0.023	0.06	10.6	14.6	0.25	229	1.61
ZZ38148		0.87	29.7	2.24	3.21	0.05	0.09	0.10	0.030	0.09	17.1	13.5	0.33	477	2.46
ZZ38149		1.31	25.6	2.23	3.05	0.05	0.04	0.10	0.031	0.08	16.5	15.0	0.38	434	2.39
ZZ38150		0.80	28.9	1.40	3.24	<0.05	0.03	0.06	0.018	0.06	9.6	8.1	0.18	544	1.02
ZZ38151		1.09	25.5	2.00	3.39	<0.05	0.04	0.07	0.041	0.09	15.2	11.3	0.28	337	2.53
ZZ38152		0.97	20.8	1.39	2.84	<0.05	0.05	0.10	0.022	0.06	10.8	8.6	0.25	694	1.55
ZZ38153		1.03	23.4	1.73	3.36	<0.05	0.05	0.12	0.029	0.08	13.9	13.3	0.35	384	0.77
ZZ38154		0.73	17.6	1.01	2.30	<0.05	0.03	0.07	0.013	0.04	7.8	6.4	0.15	232	0.95
ZZ38155		1.13	28.4	1.99	3.32	<0.05	0.04	0.12	0.028	0.06	13.1	12.8	0.32	252	1.23
ZZ38156		1.32	31.3	1.87	3.48	<0.05	0.04	0.14	0.028	0.06	13.2	12.5	0.30	555	1.38
ZZ38157		0.73	15.9	0.95	2.50	<0.05	<0.02	0.04	0.012	0.04	6.1	5.6	0.15	194	0.75
ZZ38158		1.44	15.1	1.99	3.62	0.05	0.03	0.05	0.032	0.07	12.8	16.5	0.40	223	1.47
ZZ38159		1.14	26.2	1.80	3.63	<0.05	0.04	0.09	0.025	0.05	12.0	13.8	0.36	406	0.86
ZZ38160		1.38	28.5	2.32	3.93	0.05	0.07	0.14	0.036	0.08	16.5	14.7	0.39	300	1.61
ZZ38161		0.93	19.1	1.79	2.92	0.05	0.04	0.08	0.021	0.06	15.2	12.2	0.34	176	1.49
ZZ38162		0.96	33.7	1.73	3.09	<0.05	0.05	0.12	0.024	0.07	10.3	8.9	0.23	439	1.59
ZZ38163		0.93	23.0	1.59	3.12	<0.05	0.04	0.12	0.024	0.05	10.8	9.8	0.25	265	1.15
ZZ38164		0.88	19.1	1.25	2.53	<0.05	0.05	0.08	0.019	0.05	8.5	7.9	0.21	272	0.97
ZZ38165		1.19	32.4	1.78	3.49	<0.05	0.05	0.12	0.026	0.06	12.3	11.8	0.32	355	0.88
ZZ38166		0.97	18.9	1.37	3.05	<0.05	0.04	0.08	0.018	0.05	8.1	7.7	0.23	167	0.58
ZZ38167		1.46	37.1	2.37	3.56	0.06	0.08	0.12	0.051	0.09	18.2	13.8	0.40	380	2.57
ZZ38168		0.87	24.3	1.89	3.08	<0.05	0.04	0.08	0.024	0.06	14.0	11.0	0.33	283	1.42
ZZ38169		0.85	20.1	2.16	3.14	0.05	0.04	0.08	0.025	0.05	13.9	11.9	0.35	272	1.99
ZZ38170		1.06	20.8	1.40	2.91	<0.05	0.04	0.13	0.020	0.05	9.0	8.0	0.23	176	1.16
ZZ38171		1.74	26.8	1.34	2.95	<0.05	0.06	0.14	0.027	0.07	11.4	10.5	0.25	318	1.31
ZZ38172		1.30	21.6	1.48	2.95	<0.05	0.06	0.14	0.026	0.06	12.0	11.7	0.24	426	1.51
ZZ38173		1.05	34.9	1.98	3.41	0.05	0.05	0.15	0.029	0.06	13.4	12.9	0.35	433	1.58
ZZ38174		0.86	22.7	1.61	2.97	<0.05	0.04	0.09	0.022	0.04	10.3	9.3	0.27	325	1.18
ZZ38175		1.22	32.4	2.17	3.57	0.06	0.05	0.12	0.037	0.06	16.4	13.9	0.39	235	2.09
ZZ38176		0.48	15.5	0.91	1.78	<0.05	0.03	0.05	0.012	0.03	5.2	3.3	0.12	967	1.71



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38137		0.97	21.0	450	19.3	11.5	<0.001	0.02	3.91	2.4	1.1	0.8	11.5	<0.01	0.05	2.4
ZZ38138		0.38	16.9	540	18.6	10.1	0.001	0.02	1.60	1.4	0.9	0.5	13.0	<0.01	0.03	0.4
ZZ38139		0.73	16.6	480	12.7	14.8	<0.001	0.02	1.31	2.4	0.8	0.7	19.3	<0.01	0.03	1.5
ZZ38140		0.69	29.8	640	17.2	13.3	0.001	0.02	2.46	5.0	1.3	0.8	25.1	<0.01	0.04	3.6
ZZ38141		0.31	23.5	700	18.4	11.1	<0.001	0.03	2.46	1.3	1.4	0.7	23.2	<0.01	0.05	0.2
ZZ38142		0.47	17.6	820	14.8	10.4	0.001	0.04	1.97	3.1	1.5	0.5	28.1	<0.01	0.05	1.0
ZZ38143		0.54	26.0	1240	18.3	11.9	0.001	0.07	2.77	3.4	3.2	0.6	44.2	<0.01	0.06	1.7
ZZ38144		0.57	16.3	960	17.6	12.9	0.001	0.05	1.53	2.6	1.2	0.6	45.9	<0.01	0.04	1.5
ZZ38145		0.54	27.5	1060	27.9	13.7	0.002	0.06	3.65	3.4	1.6	0.8	69.5	<0.01	0.06	2.3
ZZ38146		0.51	16.3	330	14.0	7.8	<0.001	0.02	1.55	4.0	1.1	0.6	29.9	<0.01	0.03	3.5
ZZ38147		0.55	14.5	510	10.6	12.2	<0.001	0.02	0.93	1.8	0.6	0.6	13.0	<0.01	0.03	1.0
ZZ38148		0.45	27.5	700	24.1	9.9	0.001	0.04	2.80	4.5	1.5	0.5	42.3	<0.01	0.04	2.7
ZZ38149		0.48	22.8	960	25.6	9.1	0.001	0.04	3.30	4.1	1.5	0.5	36.9	<0.01	0.04	3.0
ZZ38150		0.41	16.1	590	8.3	10.9	<0.001	0.03	1.00	1.9	0.9	0.4	36.3	<0.01	0.04	0.7
ZZ38151		0.49	25.5	570	31.3	10.7	0.001	0.02	4.48	2.9	1.1	0.7	40.2	<0.01	0.05	2.1
ZZ38152		0.46	15.9	820	15.1	7.4	0.002	0.06	2.09	2.1	1.4	0.4	56.3	<0.01	0.04	1.0
ZZ38153		0.66	18.9	950	20.6	9.6	0.004	0.08	3.04	3.4	2.2	0.6	64.2	<0.01	0.05	1.8
ZZ38154		0.42	11.8	670	8.2	6.2	0.001	0.07	1.46	1.7	1.3	0.3	46.5	<0.01	0.03	0.7
ZZ38155		0.66	21.4	760	20.7	10.4	0.001	0.06	2.69	3.1	1.9	0.8	55.5	<0.01	0.04	1.5
ZZ38156		0.69	27.6	900	22.8	11.7	0.001	0.07	2.73	3.1	1.9	0.8	56.0	<0.01	0.04	1.2
ZZ38157		0.44	9.9	480	8.1	10.9	0.001	0.04	0.94	0.9	0.7	0.4	35.0	<0.01	0.02	0.2
ZZ38158		0.71	23.6	290	19.6	12.0	0.001	0.02	2.52	3.5	0.9	0.8	19.0	<0.01	0.03	3.6
ZZ38159		0.78	26.6	790	17.0	10.1	0.001	0.07	2.07	2.5	1.8	0.7	58.3	<0.01	0.04	1.1
ZZ38160		0.87	25.9	850	24.4	12.5	0.001	0.04	3.39	4.4	2.0	0.8	46.7	<0.01	0.04	2.8
ZZ38161		0.74	18.7	830	17.8	7.3	0.001	0.01	3.16	3.4	0.9	0.8	28.9	<0.01	0.03	3.6
ZZ38162		0.62	24.4	830	20.8	8.8	0.001	0.06	3.97	2.4	1.4	0.7	50.1	<0.01	0.04	1.1
ZZ38163		0.63	17.9	850	17.5	8.8	0.001	0.06	2.90	2.5	1.2	0.7	49.5	<0.01	0.03	1.1
ZZ38164		0.51	14.1	720	17.7	7.6	0.001	0.05	3.18	2.1	1.1	0.6	46.1	<0.01	0.03	1.1
ZZ38165		0.81	22.7	850	27.7	11.0	0.001	0.07	3.62	3.0	1.8	1.1	48.9	<0.01	0.03	1.3
ZZ38166		0.56	15.3	730	19.2	10.3	0.001	0.05	2.28	2.2	1.1	0.8	43.3	<0.01	0.02	1.0
ZZ38167		0.73	29.7	920	93.0	10.3	0.001	0.03	13.70	6.6	2.0	3.5	34.7	<0.01	0.04	3.8
ZZ38168		0.87	20.8	700	28.0	7.4	<0.001	0.03	4.54	3.6	1.2	1.1	35.7	<0.01	0.03	2.6
ZZ38169		0.83	21.4	830	19.2	7.0	0.001	0.03	2.86	3.0	1.5	0.9	40.6	<0.01	0.04	2.4
ZZ38170		0.53	13.2	840	19.1	10.5	0.001	0.05	2.12	2.1	1.3	1.1	38.7	<0.01	0.03	0.8
ZZ38171		0.53	21.1	1170	32.3	15.9	0.004	0.09	4.25	2.3	2.3	1.5	48.7	<0.01	0.04	0.9
ZZ38172		0.51	18.0	1220	26.9	14.9	0.002	0.08	3.87	1.9	2.5	1.0	45.7	<0.01	0.04	0.9
ZZ38173		0.75	28.1	910	25.2	10.7	0.002	0.08	3.14	2.8	2.4	1.3	57.0	<0.01	0.04	1.0
ZZ38174		0.64	15.3	710	19.7	7.4	0.002	0.06	2.30	2.3	1.6	0.9	53.7	<0.01	0.04	0.9
ZZ38175		0.76	25.6	1000	52.8	11.0	0.001	0.05	6.51	3.9	2.0	1.7	42.2	<0.01	0.04	2.2
ZZ38176		0.30	11.0	570	16.5	3.8	<0.001	0.05	3.58	1.3	1.0	0.5	44.9	<0.01	0.03	0.4



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Ag ppm	Pb %	Sn ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	1	0.001	5
ZZ38137		0.027	0.14	0.64	54	0.37	3.41	102	<0.5				
ZZ38138		0.015	0.15	0.62	41	0.13	4.15	73	<0.5				
ZZ38139		0.024	0.15	0.69	47	0.38	4.92	85	<0.5				
ZZ38140		0.019	0.20	1.10	49	0.22	12.35	107	<0.5				
ZZ38141		0.011	0.17	1.09	44	0.13	8.48	97	<0.5				
ZZ38142		0.015	0.14	1.19	39	0.12	9.29	79	0.8				
ZZ38143		0.012	0.17	1.60	53	0.18	13.50	110	2.1				
ZZ38144		0.014	0.14	1.26	42	0.36	6.76	114	1.6				
ZZ38145		0.013	0.19	1.18	41	0.12	10.70	166	2.4				
ZZ38146		0.008	0.16	0.95	47	0.20	7.12	76	1.6				
ZZ38147		0.013	0.12	0.48	45	0.23	3.12	67	0.6				
ZZ38148		0.010	0.20	1.07	43	0.14	15.50	111	2.7				
ZZ38149		0.014	0.20	1.23	48	0.11	11.40	118	1.1				
ZZ38150		0.018	0.09	0.86	33	0.13	7.75	67	0.8				
ZZ38151		0.013	0.13	1.16	47	0.18	8.13	145	1.2				
ZZ38152		0.016	0.12	0.98	33	0.08	7.58	82	1.7				
ZZ38153		0.016	0.13	1.95	39	0.13	9.96	130	1.5				
ZZ38154		0.017	0.09	1.10	25	0.07	6.21	55	1.2				
ZZ38155		0.016	0.14	2.47	42	0.21	10.50	185	1.2				
ZZ38156		0.018	0.15	2.04	41	0.12	10.65	144	1.2				
ZZ38157		0.018	0.08	0.62	22	0.14	2.81	54	<0.5				
ZZ38158		0.022	0.18	0.88	42	0.26	7.01	221	1.1				
ZZ38159		0.024	0.14	1.37	37	0.14	10.95	124	1.2				
ZZ38160		0.020	0.16	2.60	47	0.21	13.30	107	1.7				
ZZ38161		0.025	0.11	1.11	35	0.15	9.60	82	1.3				
ZZ38162		0.019	0.11	1.36	37	0.15	9.25	109	1.5				
ZZ38163		0.019	0.12	1.32	35	0.45	8.24	98	1.0				
ZZ38164		0.018	0.11	1.22	30	0.09	6.90	88	1.4				
ZZ38165		0.020	0.15	2.26	38	0.19	9.84	109	1.3				
ZZ38166		0.029	0.12	0.96	41	0.11	5.59	87	1.3				
ZZ38167		0.016	0.17	1.72	53	0.15	17.15	199	2.9				
ZZ38168		0.028	0.10	1.75	37	0.28	10.25	79	1.2				
ZZ38169		0.024	0.11	2.61	39	0.20	8.71	78	1.0				
ZZ38170		0.016	0.14	1.20	30	0.14	7.13	100	1.1				
ZZ38171		0.013	0.18	2.10	29	0.10	10.10	230	1.8				
ZZ38172		0.013	0.14	2.66	30	0.10	10.20	243	1.7				
ZZ38173		0.018	0.14	2.84	39	0.36	12.00	111	1.2				
ZZ38174		0.019	0.10	1.75	33	0.19	7.31	76	1.1				
ZZ38175		0.016	0.15	2.61	45	0.15	13.35	133	1.5				
ZZ38176		0.019	0.06	0.92	22	0.08	4.45	65	1.2				



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Project: SNAIL

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CERTIFICATE OF ANALYSIS WH12196522

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38177		0.21	0.003	0.64	0.85	64.4	<0.2	<10	520	0.42	0.43	1.35	1.60	21.6	5.5	19
ZZ38178		0.19	0.001	0.53	0.74	33.5	<0.2	<10	270	0.37	0.30	0.40	0.59	16.15	3.7	14
ZZ38179		0.20	0.004	0.43	1.00	142.5	<0.2	<10	410	0.47	1.52	0.70	0.83	31.2	7.4	22
ZZ38180		0.22	0.003	0.81	1.74	255	<0.2	<10	240	0.51	1.06	0.20	0.96	27.2	10.1	29
ZZ38181		0.27	0.003	0.48	1.20	38.2	<0.2	<10	490	0.56	0.46	0.25	0.76	37.6	7.4	23
ZZ38182		0.19	0.005	0.87	1.15	54.8	<0.2	<10	490	0.64	0.63	1.00	1.31	30.3	7.5	25
ZZ38183		0.23	0.005	0.78	1.24	43.9	<0.2	<10	520	0.55	0.30	0.93	0.68	27.5	7.7	28
ZZ38184		0.10	0.008	1.48	1.01	144.5	<0.2	<10	390	0.45	0.91	1.43	1.69	22.4	5.0	23
ZZ38185		0.15	0.003	0.98	0.87	61.7	<0.2	<10	370	0.40	0.42	1.22	1.18	20.5	5.0	18
ZZ38186		0.21	0.005	1.56	1.19	57.2	<0.2	<10	530	0.60	0.99	1.47	0.79	26.9	6.9	30
ZZ38187		0.16	0.002	0.41	0.88	56.4	<0.2	<10	350	0.29	0.24	0.90	0.49	17.05	4.2	16
ZZ38188		0.24	0.004	0.74	1.04	86.0	<0.2	<10	400	0.49	0.49	0.77	1.08	23.8	5.8	23
ZZ38189		0.20	0.004	0.10	1.20	14.1	<0.2	<10	410	0.62	0.25	0.26	0.20	40.9	7.8	22
ZZ38190		0.20	0.005	0.45	1.08	7.8	<0.2	<10	400	0.46	0.21	1.56	0.45	25.4	7.2	21
ZZ38191		0.19	0.005	0.32	0.78	55.5	<0.2	<10	330	0.35	0.19	1.13	0.66	21.4	5.4	16
ZZ38192		0.18	0.006	0.47	1.00	25.2	<0.2	<10	350	0.45	0.27	1.28	0.89	23.5	4.8	19
ZZ38193		0.22	0.004	0.40	1.13	26.6	<0.2	<10	440	0.55	0.21	1.51	0.92	24.5	7.9	24
ZZ38194		0.27	0.006	0.54	1.16	80.6	<0.2	<10	360	0.59	0.25	1.62	0.86	25.9	7.1	26
ZZ38195		0.23	0.003	0.33	1.03	28.5	<0.2	<10	380	0.42	0.20	1.40	0.63	24.0	6.9	22
ZZ38196		0.16	0.002	0.62	0.82	110.5	<0.2	<10	300	0.31	0.39	1.42	0.89	13.90	2.6	15
ZZ38197		0.19	0.001	0.24	1.03	13.4	<0.2	<10	340	0.36	0.19	0.45	0.26	22.1	5.6	18
ZZ38198		0.23	0.001	0.30	1.19	19.4	<0.2	<10	330	0.34	0.22	0.23	0.38	23.4	6.0	21
ZZ38199		0.27	0.004	0.18	1.12	11.2	<0.2	<10	370	0.39	0.21	0.33	0.45	24.2	5.0	20
ZZ38200		0.25	0.003	1.80	1.23	272	<0.2	<10	400	0.57	1.38	1.23	2.15	27.3	5.5	31
ZZ38201		0.12	0.004	1.24	1.03	124.0	<0.2	<10	340	0.42	0.69	1.60	0.88	17.65	4.7	25
ZZ38202		0.14	0.014	1.11	1.06	77.2	<0.2	<10	520	0.58	0.38	1.93	1.20	25.7	7.6	24
ZZ38203		0.26	0.006	1.27	1.18	117.5	<0.2	<10	410	0.58	0.82	0.67	0.92	30.9	6.8	27
ZZ38204		0.14	0.004	0.40	1.24	26.5	<0.2	<10	540	0.54	0.19	0.90	0.38	23.1	5.4	17
ZZ38205		0.18	0.002	0.32	0.93	41.7	<0.2	<10	330	0.28	0.36	0.41	0.48	22.0	4.2	18
ZZ38206		0.14	0.004	1.32	1.16	221	<0.2	<10	380	0.35	0.83	0.55	5.56	27.8	5.9	23
ZZ38207		0.17	0.007	2.01	1.49	348	<0.2	<10	300	0.45	1.80	0.30	1.65	30.9	6.2	27
ZZ38208		0.13	0.004	9.32	1.53	716	<0.2	<10	120	0.44	74.0	0.11	3.12	27.3	5.0	25
ZZ38209		0.19	0.002	0.82	1.66	98.0	<0.2	<10	250	0.46	0.61	0.12	1.71	28.6	6.7	29
ZZ38210		0.12	0.004	0.72	1.21	28.6	<0.2	<10	550	0.55	0.46	0.71	0.60	22.4	6.7	20
ZZ38211		0.11	0.008	0.36	1.02	25.3	<0.2	<10	360	0.36	0.31	0.59	0.40	21.7	5.6	21
ZZ38212		0.17	0.004	0.89	0.94	99.3	<0.2	<10	330	0.41	0.47	1.22	0.74	21.3	4.9	18
ZZ38213		0.16	0.003	1.91	1.81	567	<0.2	<10	220	0.80	0.18	1.04	1.63	25.0	7.0	48
ZZ38214		0.12	0.003	0.63	0.70	21.1	<0.2	<10	520	0.77	0.11	2.52	1.08	20.9	3.9	10
ZZ38215		0.21	0.005	0.90	1.09	585	<0.2	<10	340	0.56	0.23	1.45	2.05	27.2	6.4	34
ZZ38216		0.13	0.002	1.12	1.27	346	<0.2	<10	240	0.48	0.21	2.06	2.16	18.80	5.9	38



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Project: SNAIL

CERTIFICATE OF ANALYSIS WH12196522

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38177		1.15	25.7	1.65	2.63	<0.05	0.05	0.08	0.027	0.05	11.1	9.1	0.33	397	2.17
ZZ38178		0.97	22.5	1.20	2.64	<0.05	<0.02	0.07	0.017	0.04	8.5	5.5	0.16	185	1.09
ZZ38179		1.32	25.7	2.02	3.32	0.06	0.06	0.11	0.026	0.08	16.2	12.3	0.35	178	2.65
ZZ38180		1.97	16.2	3.00	6.18	0.05	0.02	0.05	0.032	0.09	14.9	17.7	0.40	498	2.22
ZZ38181		1.21	26.2	2.25	4.09	0.06	0.02	0.06	0.028	0.10	20.1	13.7	0.41	381	3.37
ZZ38182		1.64	40.8	2.40	3.64	0.07	0.09	0.14	0.036	0.13	17.1	12.9	0.49	291	3.81
ZZ38183		1.28	33.4	2.01	4.05	0.05	0.05	0.11	0.032	0.11	15.9	16.7	0.47	419	2.05
ZZ38184		1.51	35.6	1.66	3.03	0.06	0.07	0.09	0.050	0.10	12.7	11.6	0.41	252	2.00
ZZ38185		0.99	28.5	1.47	2.72	0.05	0.04	0.11	0.029	0.09	11.3	9.8	0.32	513	1.75
ZZ38186		1.17	38.2	2.11	3.92	0.06	0.06	0.12	0.053	0.09	14.9	16.5	0.60	265	1.79
ZZ38187		0.88	25.2	1.23	3.06	<0.05	0.03	0.05	0.019	0.05	8.5	11.9	0.27	107	0.89
ZZ38188		1.37	30.9	1.71	3.30	0.05	0.05	0.09	0.032	0.08	13.1	13.0	0.43	122	1.92
ZZ38189		0.98	33.3	2.30	4.08	0.06	0.03	0.07	0.026	0.08	20.8	13.6	0.39	251	2.77
ZZ38190		1.04	17.8	1.62	3.55	0.05	0.03	0.07	0.027	0.06	12.6	20.3	0.47	247	1.17
ZZ38191		1.01	28.0	1.51	2.59	<0.05	0.05	0.07	0.021	0.07	10.8	8.6	0.27	420	1.77
ZZ38192		1.37	29.6	1.45	3.18	0.05	0.06	0.10	0.028	0.11	12.6	12.4	0.38	92	1.31
ZZ38193		1.58	36.2	2.13	3.69	0.06	0.06	0.10	0.026	0.11	13.3	14.1	0.50	296	2.90
ZZ38194		1.67	41.3	2.13	3.83	0.06	0.07	0.11	0.029	0.10	14.2	15.8	0.50	254	2.49
ZZ38195		1.16	20.3	1.88	3.38	0.06	0.05	0.07	0.022	0.07	12.7	14.0	0.39	256	1.94
ZZ38196		0.98	23.5	1.15	2.59	<0.05	0.05	0.07	0.024	0.07	7.4	8.6	0.30	232	0.89
ZZ38197		0.76	24.0	1.62	3.85	<0.05	0.02	0.04	0.017	0.07	12.1	10.3	0.28	137	1.21
ZZ38198		0.87	12.4	2.00	4.35	<0.05	<0.02	0.03	0.023	0.07	12.8	12.5	0.30	237	1.48
ZZ38199		0.85	21.2	1.87	4.34	<0.05	<0.02	0.02	0.020	0.06	13.4	9.6	0.26	162	1.83
ZZ38200		1.84	44.8	2.09	3.86	0.06	0.06	0.12	0.065	0.11	15.5	14.3	0.58	298	1.83
ZZ38201		1.37	27.8	1.37	3.31	<0.05	0.06	0.09	0.039	0.07	9.4	13.1	0.48	206	1.08
ZZ38202		1.11	30.2	1.78	3.11	<0.05	0.04	0.12	0.034	0.08	14.3	15.3	0.42	424	1.68
ZZ38203		2.06	35.5	2.10	3.53	0.06	0.05	0.13	0.048	0.12	17.8	15.7	0.49	360	3.03
ZZ38204		0.93	21.9	1.71	3.85	0.05	0.04	0.08	0.025	0.10	14.2	12.0	0.25	202	2.00
ZZ38205		0.91	20.1	1.48	3.73	<0.05	<0.02	0.05	0.021	0.09	12.4	8.6	0.28	159	2.21
ZZ38206		0.93	34.9	1.88	4.27	0.05	0.02	0.10	0.032	0.08	15.4	12.4	0.35	188	1.43
ZZ38207		1.41	28.7	2.31	5.23	0.05	0.02	0.07	0.032	0.07	17.6	14.5	0.43	210	1.68
ZZ38208		1.55	13.2	2.71	5.59	0.05	<0.02	0.03	0.052	0.06	15.9	13.8	0.29	118	1.64
ZZ38209		1.19	18.5	2.20	5.21	0.05	0.02	0.03	0.030	0.08	16.5	17.1	0.46	118	2.97
ZZ38210		1.24	48.8	1.66	3.74	0.05	0.03	0.10	0.028	0.08	12.9	9.9	0.28	464	2.15
ZZ38211		0.97	17.9	1.64	3.05	0.05	0.05	0.08	0.025	0.09	12.7	9.7	0.35	179	1.76
ZZ38212		1.38	23.8	1.43	2.91	0.05	0.04	0.09	0.032	0.07	12.1	10.6	0.34	294	1.70
ZZ38213		9.80	43.2	2.19	6.48	0.09	0.09	0.06	0.047	0.14	12.2	32.4	1.85	554	2.04
ZZ38214		0.45	87.0	0.98	1.76	0.07	0.04	0.13	0.014	0.05	15.7	3.4	0.12	638	1.25
ZZ38215		2.90	39.2	1.94	3.73	0.08	0.06	0.11	0.042	0.14	15.9	15.6	0.70	292	4.73
ZZ38216		3.05	33.4	1.47	4.47	0.07	0.06	0.06	0.041	0.09	10.3	19.1	0.98	330	1.23



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38177		0.61	22.2	930	40.3	7.9	0.002	0.07	7.39	2.7	1.8	2.0	58.6	<0.01	0.05	1.3
ZZ38178		0.43	15.5	620	27.8	7.6	<0.001	0.03	2.24	1.1	1.1	1.2	24.5	<0.01	0.03	0.2
ZZ38179		1.05	28.9	780	23.0	10.5	0.001	0.04	8.52	3.7	1.9	1.1	38.4	<0.01	0.04	4.6
ZZ38180		1.29	19.0	790	46.5	14.6	<0.001	0.01	4.63	2.8	0.7	1.4	19.5	<0.01	0.04	3.0
ZZ38181		0.81	22.5	680	25.8	14.1	0.001	0.01	3.49	3.6	1.2	0.9	23.8	<0.01	0.04	3.0
ZZ38182		0.82	35.0	910	49.4	12.8	0.002	0.03	6.25	4.7	1.4	1.3	46.6	<0.01	0.06	4.3
ZZ38183		0.91	31.1	510	31.5	13.1	0.001	0.03	3.22	4.6	1.5	1.1	43.1	<0.01	0.04	3.0
ZZ38184		0.57	25.6	1160	132.0	14.6	0.004	0.07	11.00	3.2	3.0	7.6	53.0	<0.01	0.05	1.6
ZZ38185		0.57	19.5	840	60.3	8.3	0.005	0.07	7.60	2.6	3.6	2.8	49.8	<0.01	0.04	1.5
ZZ38186		0.86	26.2	1000	124.5	9.4	0.004	0.06	10.90	4.4	4.8	7.0	61.3	<0.01	0.05	2.7
ZZ38187		0.71	18.4	550	22.4	9.3	0.001	0.03	2.46	2.1	1.1	1.2	34.4	<0.01	0.03	1.3
ZZ38188		0.69	24.3	930	55.6	10.9	0.002	0.03	6.09	3.6	1.5	3.3	46.8	<0.01	0.04	2.9
ZZ38189		0.85	26.7	400	13.9	9.5	0.001	0.01	2.01	4.4	1.3	0.7	24.1	<0.01	0.04	5.2
ZZ38190		0.78	20.2	830	15.0	10.0	0.001	0.06	0.87	3.1	1.7	0.5	83.5	<0.01	0.03	1.7
ZZ38191		0.57	19.0	800	17.0	8.2	0.001	0.04	2.36	3.1	1.6	0.8	48.1	<0.01	0.03	1.8
ZZ38192		0.74	21.3	890	26.9	11.9	0.003	0.06	2.65	3.5	2.3	1.5	50.1	<0.01	0.03	2.3
ZZ38193		0.90	30.3	990	12.9	14.4	0.003	0.06	2.47	3.4	2.9	0.5	57.8	<0.01	0.05	2.6
ZZ38194		1.04	30.1	1010	29.6	15.8	0.005	0.07	5.37	3.5	4.3	0.9	59.5	<0.01	0.05	2.7
ZZ38195		1.08	18.5	850	16.6	10.6	0.003	0.07	2.16	2.8	3.7	0.5	55.9	<0.01	0.03	2.5
ZZ38196		0.46	13.5	720	38.0	9.7	0.008	0.10	3.87	2.1	2.2	3.4	52.3	<0.01	0.02	1.1
ZZ38197		0.89	19.2	410	10.0	10.4	<0.001	0.01	1.14	2.4	0.9	0.5	22.7	<0.01	0.03	2.5
ZZ38198		0.88	15.3	450	20.4	10.6	<0.001	0.01	0.88	2.4	0.7	0.8	16.7	<0.01	0.03	2.3
ZZ38199		0.86	17.6	350	12.8	10.7	<0.001	0.01	0.83	2.5	0.7	0.7	21.4	<0.01	0.03	2.9
ZZ38200		0.72	30.3	1250	139.5	14.9	0.002	0.04	12.40	4.3	2.7	10.3	51.6	<0.01	0.05	2.8
ZZ38201		0.56	20.7	980	90.1	10.5	0.007	0.08	7.15	2.9	3.3	5.2	60.1	<0.01	0.04	1.4
ZZ38202		0.58	24.4	750	60.9	9.9	0.002	0.06	4.80	3.9	2.3	2.5	66.8	<0.01	0.04	1.3
ZZ38203		0.57	29.7	1240	96.7	14.8	0.002	0.04	10.55	4.2	3.4	5.6	37.3	<0.01	0.06	2.6
ZZ38204		0.61	18.4	630	28.2	11.1	0.001	0.04	2.06	3.0	1.4	0.7	42.7	<0.01	0.04	1.4
ZZ38205		0.66	15.8	560	18.8	11.6	<0.001	0.02	1.67	2.3	1.2	0.9	29.9	<0.01	0.03	1.8
ZZ38206		1.07	19.9	640	43.7	9.5	0.001	0.02	2.03	3.4	2.2	1.2	34.2	<0.01	0.03	3.8
ZZ38207		1.18	22.1	540	55.5	11.3	<0.001	0.01	4.83	3.2	1.0	1.7	23.4	<0.01	0.04	4.2
ZZ38208		1.06	18.5	490	232	14.3	<0.001	0.02	9.92	2.2	1.0	3.7	12.2	<0.01	0.07	2.2
ZZ38209		0.87	26.9	510	25.7	11.1	<0.001	0.01	2.84	3.3	1.0	1.3	13.1	<0.01	0.04	3.3
ZZ38210		0.53	28.1	680	23.4	10.8	0.001	0.02	2.61	3.3	1.3	1.0	42.6	<0.01	0.06	1.9
ZZ38211		0.66	21.5	720	24.2	8.4	0.001	0.02	3.31	3.0	1.0	0.7	35.0	<0.01	0.03	3.0
ZZ38212		0.48	18.2	1060	67.4	11.1	0.005	0.05	8.60	2.4	2.9	4.1	47.7	<0.01	0.05	1.4
ZZ38213		0.85	41.4	770	134.0	31.9	0.002	0.03	25.7	5.0	3.2	6.0	36.5	<0.01	0.07	4.3
ZZ38214		0.34	29.3	580	10.1	6.5	0.005	0.08	3.14	2.3	7.3	0.3	97.4	0.01	0.03	0.6
ZZ38215		0.64	38.2	1580	59.3	26.2	0.003	0.05	15.25	4.0	4.4	2.8	49.6	<0.01	0.05	2.6
ZZ38216		0.79	25.4	1080	71.4	32.2	0.005	0.07	9.17	3.2	4.6	2.6	47.9	<0.01	0.05	1.5



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CERTIFICATE OF ANALYSIS WH12196522

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Zn-OG46	Ag-OG46	Pb-OG46	Sn-XRF05
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Ag ppm	Pb %	Sn ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	1	0.001	5
ZZ38177		0.019	0.14	1.09	37	0.11	9.73	127	1.6				
ZZ38178		0.016	0.10	0.93	29	0.10	6.87	54	<0.5				
ZZ38179		0.032	0.14	1.77	42	0.42	9.99	102	2.3				
ZZ38180		0.029	0.16	0.65	67	0.44	4.44	174	0.7				
ZZ38181		0.030	0.18	1.11	53	0.15	9.38	135	<0.5				
ZZ38182		0.025	0.24	1.22	57	0.17	14.60	173	3.1				
ZZ38183		0.026	0.22	1.56	53	0.17	13.50	102	1.8				
ZZ38184		0.016	0.19	1.26	41	0.14	10.60	183	2.2				
ZZ38185		0.018	0.14	1.69	40	0.13	8.52	128	1.4				
ZZ38186		0.021	0.17	1.69	51	0.14	12.90	164	2.2				
ZZ38187		0.023	0.11	0.80	32	0.18	4.88	81	0.9				
ZZ38188		0.023	0.22	1.09	47	0.15	10.50	148	1.9				
ZZ38189		0.034	0.14	1.62	56	0.19	12.60	81	1.1				
ZZ38190		0.020	0.11	1.84	49	0.12	7.56	99	1.0				
ZZ38191		0.024	0.13	1.07	36	0.24	8.27	95	1.8				
ZZ38192		0.020	0.18	1.11	38	0.13	8.97	130	1.9				
ZZ38193		0.029	0.22	2.69	60	0.14	11.05	109	2.0				
ZZ38194		0.031	0.23	2.54	59	0.29	11.80	112	2.3				
ZZ38195		0.032	0.14	3.16	44	0.20	8.47	80	1.6				
ZZ38196		0.018	0.14	1.14	28	0.07	4.81	100	1.7				
ZZ38197		0.033	0.12	0.79	41	0.24	4.70	59	0.5				
ZZ38198		0.028	0.12	0.51	49	0.22	4.00	91	<0.5				
ZZ38199		0.027	0.12	0.81	50	0.27	3.86	62	0.5				
ZZ38200		0.024	0.26	1.06	52	0.19	11.80	240	2.2				
ZZ38201		0.019	0.18	1.31	38	0.32	7.63	160	2.1				
ZZ38202		0.017	0.17	1.51	43	0.27	13.35	96	1.2				
ZZ38203		0.019	0.25	1.56	59	0.15	12.20	185	1.6				
ZZ38204		0.018	0.16	1.33	45	0.15	9.87	97	1.1				
ZZ38205		0.031	0.12	0.83	49	0.16	5.23	78	<0.5				
ZZ38206		0.039	0.12	1.40	44	0.27	6.92	233	0.8				
ZZ38207		0.037	0.17	1.01	56	0.36	6.10	222	0.6				
ZZ38208		0.032	0.19	0.74	54	0.37	2.89	246	<0.5				
ZZ38209		0.032	0.20	0.66	71	0.15	3.72	236	1.0				
ZZ38210		0.016	0.13	1.21	52	0.12	6.86	86	1.1				
ZZ38211		0.031	0.14	0.86	49	0.18	7.56	87	2.0				
ZZ38212		0.017	0.17	1.43	43	0.16	8.30	115	1.3				
ZZ38213		0.045	0.77	1.35	54	0.27	12.35	244	4.0				
ZZ38214		0.014	0.07	3.69	22	0.08	23.4	27	1.4				
ZZ38215		0.027	0.47	1.49	50	0.28	13.00	228	2.3				
ZZ38216		0.033	0.36	3.19	49	0.25	8.25	231	2.1				



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CERTIFICATE OF ANALYSIS WH12196522

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38217		0.21	0.004	0.64	1.14	439	<0.2	<10	200	0.47	0.22	1.80	1.80	23.9	7.7	33
ZZ38218		0.19	0.004	2.25	1.41	693	<0.2	<10	320	0.64	0.27	1.16	2.33	28.1	6.2	46
ZZ38219		0.14	0.004	2.98	0.79	497	<0.2	<10	230	0.34	1.72	1.45	2.00	21.0	5.7	32
ZZ38220		0.18	0.061	2.53	1.10	312	<0.2	<10	340	0.44	1.99	1.43	1.29	23.6	5.3	33
ZZ38221		0.12	0.008	2.17	1.22	302	<0.2	<10	280	0.62	0.89	1.20	3.17	26.0	6.9	43
ZZ38222		0.13	0.002	0.29	1.84	232	<0.2	<10	140	0.60	0.43	0.69	1.49	24.7	6.1	60
ZZ38223		0.22	0.002	1.70	1.08	57.6	<0.2	<10	100	0.26	0.40	0.08	0.49	26.7	3.5	19
ZZ38224		0.13	0.001	0.18	1.30	29.4	<0.2	<10	120	0.30	0.23	0.16	0.37	25.1	5.4	24
ZZ38225		0.19	0.010	0.56	1.20	49.2	<0.2	<10	360	0.47	0.31	0.25	0.57	23.7	6.2	21
ZZ38226		0.19	0.006	3.98	0.97	564	<0.2	<10	350	0.50	2.22	1.04	2.92	29.3	4.8	28
ZZ38227		0.20	0.007	1.98	1.29	254	<0.2	<10	550	0.65	1.06	1.03	1.56	32.2	8.0	29
ZZ38228		0.12	0.005	1.14	1.09	72.5	<0.2	<10	370	0.46	0.65	0.79	1.73	28.1	5.2	25
ZZ38229		0.18	0.002	1.29	0.57	33.1	<0.2	<10	170	0.25	0.22	0.58	0.32	16.65	2.2	10
ZZ38230		0.17	0.003	0.80	1.64	76.7	<0.2	<10	310	0.78	0.37	1.28	1.34	24.7	6.7	28
ZZ38231		0.22	0.002	0.83	0.68	42.3	<0.2	<10	150	0.31	0.67	0.21	2.53	15.40	3.0	12
ZZ38232		0.18	0.004	1.81	0.92	253	<0.2	<10	300	0.37	1.46	0.37	1.60	24.1	4.6	20
ZZ38233		0.14	0.003	0.57	1.18	52.3	<0.2	<10	400	0.35	0.47	0.36	0.69	21.8	5.4	20
ZZ38234		0.12	0.003	0.49	1.11	25.3	<0.2	<10	550	0.48	0.26	0.26	0.65	21.4	8.3	19
ZZ38235		0.17	0.002	1.14	1.67	180.0	<0.2	<10	300	0.57	0.60	0.18	4.25	29.9	5.4	27
ZZ38236		0.13	0.006	0.45	1.09	53.2	<0.2	<10	360	0.43	0.45	0.21	0.99	26.0	8.1	21
ZZ38237		0.18	0.013	1.50	1.16	144.5	<0.2	<10	610	0.59	1.32	0.69	1.47	26.4	5.8	21
ZZ38238		0.20	0.009	0.54	0.88	136.5	<0.2	<10	290	0.39	1.06	0.14	1.59	23.9	5.9	15
ZZ41139		0.27	0.009	0.85	1.72	23.0	<0.2	<10	1010	0.70	0.26	0.54	1.26	31.7	9.6	30
ZZ41140		0.28	0.004	0.38	1.17	7.8	<0.2	<10	590	0.39	0.17	0.38	0.63	28.3	6.5	23
ZZ41141		0.23	0.003	0.07	1.13	10.5	<0.2	<10	360	0.31	0.17	0.37	0.29	22.5	5.9	18
ZZ41142		0.39	0.004	0.14	1.49	13.3	<0.2	<10	490	0.62	0.15	0.29	0.79	27.8	9.8	21
ZZ41143		0.22	0.004	0.46	1.05	6.4	<0.2	<10	450	0.36	0.12	0.54	0.33	16.85	4.6	14
ZZ41144		0.22	0.002	0.36	0.88	8.7	<0.2	<10	390	0.34	0.11	0.54	0.45	17.40	6.5	12
ZZ41145		0.37	0.003	0.28	0.84	7.5	<0.2	<10	270	0.30	0.14	0.20	0.47	18.90	3.4	11
ZZ41146		0.32	0.003	0.06	1.16	9.9	<0.2	<10	180	0.36	0.16	0.29	0.28	26.3	7.0	18
ZZ41147		0.26	0.003	0.20	1.25	12.8	<0.2	<10	500	0.50	0.20	0.36	0.32	33.2	8.9	23
ZZ41148		0.13	0.005	0.48	0.91	10.3	<0.2	<10	450	0.44	0.14	1.17	0.76	25.0	6.8	22
ZZ41149		0.20	0.004	0.65	1.03	11.3	<0.2	<10	520	0.48	0.16	1.19	0.58	30.9	7.8	26
ZZ41150		0.18	0.004	0.28	0.81	6.2	<0.2	<10	360	0.33	0.12	0.75	0.31	20.3	5.0	13
ZZ41151		0.20	0.005	0.25	1.19	9.3	<0.2	<10	600	0.45	0.17	0.66	0.61	25.7	7.9	20
ZZ41152		0.23	0.005	0.38	1.29	9.4	<0.2	<10	600	0.59	0.18	0.83	0.83	24.3	8.8	20
ZZ41153		0.31	0.005	0.32	1.14	10.4	<0.2	<10	730	0.54	0.18	1.13	1.45	28.4	9.1	21
ZZ41154		0.24	0.004	0.42	1.18	6.4	<0.2	<10	620	0.56	0.15	0.78	0.73	25.2	6.3	16
ZZ41155		0.22	0.004	0.29	1.05	6.1	<0.2	<10	610	0.42	0.14	0.92	0.68	22.8	6.6	15
ZZ41156		0.27	0.004	0.25	1.11	7.1	<0.2	<10	580	0.46	0.15	0.89	0.54	25.0	7.0	16



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38217		1.58	34.6	1.94	3.93	0.06	0.04	0.05	0.033	0.10	12.9	16.8	0.65	436	1.52
ZZ38218		3.72	37.2	2.04	4.84	0.08	0.06	0.07	0.037	0.12	16.8	21.6	1.21	445	3.77
ZZ38219		2.17	30.0	1.67	2.88	0.06	0.05	0.05	0.077	0.10	11.5	12.0	0.53	530	3.06
ZZ38220		2.01	34.9	1.74	3.54	0.05	0.05	0.09	0.078	0.10	13.7	14.1	0.57	189	1.49
ZZ38221		2.45	47.8	1.83	4.06	0.07	0.06	0.09	0.078	0.10	14.8	14.9	0.80	385	2.95
ZZ38222		2.41	22.6	2.12	5.87	0.05	0.06	0.03	0.036	0.08	13.3	20.9	0.85	123	2.40
ZZ38223		1.45	9.4	1.92	5.00	<0.05	<0.02	0.03	0.024	0.06	15.2	8.9	0.20	95	2.23
ZZ38224		0.92	9.9	2.16	5.28	0.05	0.02	0.03	0.020	0.07	14.0	12.9	0.35	135	2.65
ZZ38225		1.01	16.9	2.41	3.98	0.05	<0.02	0.06	0.033	0.11	13.1	15.4	0.33	182	2.90
ZZ38226		2.32	37.0	1.87	3.28	0.07	0.08	0.12	0.098	0.10	16.9	12.3	0.54	356	4.79
ZZ38227		2.13	49.1	2.30	3.95	0.07	0.08	0.17	0.059	0.16	18.4	15.5	0.55	437	2.82
ZZ38228		2.04	28.0	1.74	3.24	0.06	0.05	0.12	0.043	0.11	16.8	13.0	0.42	258	2.28
ZZ38229		1.02	14.6	0.83	1.92	<0.05	<0.02	0.07	0.019	0.04	9.0	4.4	0.14	88	0.83
ZZ38230		2.41	34.8	2.36	4.13	0.06	0.06	0.07	0.039	0.08	13.8	20.3	0.80	357	1.13
ZZ38231		1.80	35.8	1.18	2.47	<0.05	<0.02	0.04	0.029	0.04	8.4	5.8	0.20	108	0.95
ZZ38232		1.54	23.7	1.61	3.27	0.07	<0.02	0.09	0.049	0.06	12.7	9.8	0.30	183	1.96
ZZ38233		1.15	19.3	1.68	4.15	0.06	<0.02	0.04	0.027	0.06	11.4	12.2	0.32	230	1.83
ZZ38234		1.20	24.4	2.60	3.64	0.08	0.02	0.04	0.032	0.08	10.5	13.6	0.32	492	2.68
ZZ38235		1.40	17.2	2.78	5.38	0.08	0.02	0.04	0.040	0.09	16.2	15.8	0.42	203	2.05
ZZ38236		1.50	23.9	2.36	3.95	0.08	<0.02	0.05	0.033	0.11	13.3	13.1	0.37	418	4.17
ZZ38237		1.69	35.0	2.24	3.73	0.08	0.05	0.13	0.050	0.11	14.8	12.7	0.43	317	3.21
ZZ38238		0.93	20.0	1.69	2.82	0.06	0.02	0.05	0.049	0.05	12.5	8.5	0.25	339	2.51
ZZ41139		1.36	45.6	3.30	5.49	0.10	0.06	0.21	0.037	0.10	16.2	19.7	0.45	256	3.35
ZZ41140		1.08	28.1	1.86	4.02	0.08	0.04	0.10	0.025	0.08	14.3	14.0	0.36	164	1.45
ZZ41141		1.11	17.9	2.08	4.59	0.06	0.02	0.03	0.020	0.05	11.4	13.3	0.28	371	2.41
ZZ41142		1.00	21.5	2.40	3.46	0.07	0.06	0.04	0.027	0.06	13.1	18.1	0.37	366	2.01
ZZ41143		0.88	21.1	1.47	3.28	0.05	<0.02	0.10	0.017	0.06	8.7	9.1	0.23	182	1.25
ZZ41144		0.83	19.9	1.87	3.36	0.06	<0.02	0.07	0.014	0.05	8.1	7.1	0.19	383	1.90
ZZ41145		0.66	13.4	1.31	3.43	0.05	<0.02	0.04	0.012	0.03	10.0	5.9	0.12	129	1.23
ZZ41146		0.96	14.8	1.92	3.60	0.07	0.03	0.05	0.022	0.05	13.0	12.5	0.31	201	1.53
ZZ41147		1.18	19.1	2.26	4.67	0.08	0.02	0.05	0.024	0.05	15.5	14.4	0.39	315	1.51
ZZ41148		0.76	22.1	1.91	3.29	0.08	0.05	0.10	0.021	0.07	13.6	12.4	0.30	234	1.51
ZZ41149		0.81	20.6	2.01	3.53	0.08	0.05	0.12	0.026	0.07	17.9	12.9	0.34	342	1.85
ZZ41150		0.67	15.1	1.50	2.94	0.06	0.04	0.11	0.016	0.05	10.3	9.7	0.25	261	1.21
ZZ41151		0.80	23.2	2.19	3.98	0.07	0.05	0.11	0.023	0.06	13.5	15.2	0.37	395	1.59
ZZ41152		0.94	31.4	2.13	3.99	0.08	0.06	0.15	0.026	0.08	12.8	15.3	0.34	577	1.91
ZZ41153		0.73	28.9	2.24	3.71	0.07	0.05	0.15	0.025	0.06	14.6	16.3	0.38	510	1.72
ZZ41154		0.87	30.9	1.63	3.82	0.07	0.06	0.12	0.022	0.08	13.1	11.4	0.28	330	1.35
ZZ41155		0.74	23.3	1.60	3.36	0.05	0.04	0.08	0.020	0.07	11.4	11.4	0.32	523	1.44
ZZ41156		0.76	20.6	1.81	3.54	0.06	0.05	0.09	0.019	0.06	12.3	12.6	0.35	347	1.51



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38217		0.93	28.0	1080	39.8	29.5	0.003	0.05	7.15	2.7	2.8	1.6	49.0	<0.01	0.04	1.4
ZZ38218		0.63	35.9	2190	223	21.0	0.002	0.02	15.35	4.3	2.9	3.9	42.0	<0.01	0.07	3.8
ZZ38219		0.34	22.8	2580	235	14.2	0.003	0.04	22.0	3.1	3.8	19.2	52.0	<0.01	0.05	1.7
ZZ38220		0.56	21.3	1800	232	16.0	0.003	0.05	14.30	3.6	2.8	19.1	52.5	<0.01	0.04	2.1
ZZ38221		0.44	37.6	1700	239	15.2	0.002	0.06	23.7	3.6	4.4	15.1	69.8	<0.01	0.06	2.4
ZZ38222		0.99	29.3	450	122.0	17.5	<0.001	0.02	10.55	3.9	2.1	7.7	28.2	<0.01	0.04	3.4
ZZ38223		0.81	12.1	690	30.7	11.0	<0.001	0.02	8.02	1.7	1.5	1.7	11.1	<0.01	0.06	1.4
ZZ38224		1.16	16.6	450	16.2	8.3	<0.001	0.01	1.65	2.6	0.6	1.0	14.0	<0.01	0.03	4.1
ZZ38225		0.73	21.9	380	29.2	17.5	<0.001	0.01	3.04	3.0	1.2	1.5	19.0	<0.01	0.04	2.4
ZZ38226		0.98	22.3	1460	406	11.8	0.001	0.05	39.0	3.6	3.6	20.4	46.8	<0.01	0.07	3.5
ZZ38227		0.69	35.7	1370	164.0	15.7	0.001	0.03	13.95	5.1	1.8	7.2	50.0	<0.01	0.06	4.1
ZZ38228		0.56	27.1	1670	68.5	14.0	0.007	0.04	7.78	3.7	3.6	4.6	41.7	<0.01	0.05	3.0
ZZ38229		0.36	8.8	520	37.4	6.4	<0.001	0.04	3.27	1.1	1.3	1.8	26.3	<0.01	0.03	0.4
ZZ38230		1.20	42.6	800	56.8	12.7	<0.001	0.05	8.13	3.5	1.5	3.3	47.9	<0.01	0.04	2.7
ZZ38231		0.24	14.9	450	48.3	7.3	<0.001	0.03	7.08	0.5	0.9	3.1	20.4	<0.01	0.02	<0.2
ZZ38232		0.43	17.2	980	113.5	9.6	<0.001	0.02	10.70	1.6	1.3	5.2	30.3	<0.01	0.04	0.5
ZZ38233		0.49	15.8	730	39.6	13.0	<0.001	0.01	4.22	2.0	0.7	2.4	27.8	<0.01	0.04	1.0
ZZ38234		0.54	23.1	760	18.6	15.0	0.001	0.01	2.46	2.5	1.2	0.8	25.8	<0.01	0.05	1.0
ZZ38235		0.66	22.1	530	352	13.4	<0.001	0.01	10.95	2.6	1.0	1.6	13.6	<0.01	0.05	1.3
ZZ38236		0.38	23.0	780	34.8	14.0	0.001	0.01	5.58	1.4	1.2	1.2	20.3	<0.01	0.05	0.4
ZZ38237		0.62	31.1	1040	83.0	12.7	0.001	0.04	16.50	3.4	1.8	2.4	39.8	<0.01	0.05	1.4
ZZ38238		0.43	17.7	540	97.1	6.4	0.001	0.01	18.40	1.7	1.3	2.3	16.7	<0.01	0.04	0.8
ZZ41139		0.89	38.8	1190	14.2	13.2	0.002	0.03	2.07	6.8	3.3	0.6	54.2	<0.01	0.05	4.4
ZZ41140		0.59	22.5	950	9.4	10.1	0.002	0.02	1.30	3.7	2.3	0.4	39.9	<0.01	0.04	2.6
ZZ41141		0.50	15.4	900	9.3	7.5	0.001	0.02	1.14	1.4	0.9	0.5	24.7	<0.01	0.04	0.5
ZZ41142		0.73	25.7	980	11.8	8.2	0.001	0.02	1.77	3.5	1.2	0.4	27.8	<0.01	0.04	3.2
ZZ41143		0.34	14.9	630	6.7	7.3	0.001	0.02	0.92	1.3	1.0	0.3	26.4	<0.01	0.03	0.2
ZZ41144		0.46	14.0	680	6.7	6.1	0.004	0.03	1.00	1.8	1.5	0.3	27.5	<0.01	0.03	0.5
ZZ41145		0.23	10.4	730	7.6	5.7	<0.001	0.01	0.76	0.6	0.7	0.8	16.3	<0.01	0.03	<0.2
ZZ41146		0.74	19.7	950	8.6	7.2	0.001	<0.01	1.11	2.4	0.9	0.4	24.0	<0.01	0.03	2.8
ZZ41147		0.78	24.3	910	10.6	8.8	0.001	0.01	1.04	3.2	0.9	0.6	28.9	<0.01	0.03	2.1
ZZ41148		0.54	18.4	1220	8.6	8.8	0.002	0.05	1.09	3.1	2.1	0.4	60.3	<0.01	0.04	2.0
ZZ41149		0.60	18.9	1650	9.6	9.1	0.002	0.05	1.02	3.2	2.6	0.4	65.7	<0.01	0.04	1.6
ZZ41150		0.50	11.0	810	7.2	6.5	0.001	0.04	0.73	2.2	1.4	0.3	38.3	<0.01	0.03	1.2
ZZ41151		0.62	19.0	920	10.7	8.6	0.002	0.05	1.00	3.5	2.0	0.4	42.5	<0.01	0.04	2.2
ZZ41152		0.73	23.6	790	10.1	9.8	0.001	0.05	1.27	3.9	2.4	0.4	53.2	<0.01	0.05	2.2
ZZ41153		0.77	26.3	870	11.7	8.2	0.003	0.05	1.46	4.0	2.7	0.4	61.8	<0.01	0.04	2.5
ZZ41154		0.56	21.4	870	9.1	8.4	0.001	0.04	1.15	3.6	1.4	0.4	48.7	<0.01	0.03	1.9
ZZ41155		0.54	17.5	810	9.9	8.2	0.001	0.05	0.98	2.8	1.5	0.3	51.5	<0.01	0.03	1.7
ZZ41156		0.60	17.0	740	9.7	8.5	0.002	0.05	0.95	2.7	1.8	0.4	45.9	<0.01	0.03	1.7



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	Zn- OG46	Ag- OG46	Pb- OG46	Sn- XRF05
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Ag ppm	Pb %	Sn ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	1	0.001	5
ZZ38217		0.037	0.28	1.54	43	0.26	8.79	135	1.2				
ZZ38218		0.036	0.46	1.49	64	0.24	13.80	287	2.7				
ZZ38219		0.029	0.27	1.39	49	0.20	9.27	279	1.9				
ZZ38220		0.019	0.28	1.42	47	0.20	10.75	240	1.8				
ZZ38221		0.019	0.34	1.54	53	0.22	11.30	397	2.3				
ZZ38222		0.034	0.55	0.71	71	0.39	6.60	194	2.5				
ZZ38223		0.031	0.23	0.47	47	0.36	2.18	79	<0.5				
ZZ38224		0.043	0.11	0.59	56	0.36	3.16	61	1.1				
ZZ38225		0.020	0.20	0.68	50	0.22	4.88	87	<0.5				
ZZ38226		0.027	0.33	1.43	55	0.31	10.20	272	3.5				
ZZ38227		0.021	0.32	1.68	59	0.19	14.30	198	2.9				
ZZ38228		0.019	0.26	1.68	52	2.18	11.05	171	1.6				
ZZ38229		0.016	0.10	0.75	22	0.09	4.55	40	<0.5				
ZZ38230		0.044	0.22	1.53	79	0.47	10.50	241	2.3				
ZZ38231		0.016	0.12	0.91	38	0.08	3.06	71	<0.5				
ZZ38232		0.015	0.17	1.01	40	0.14	7.97	118	<0.5				
ZZ38233		0.014	0.14	0.66	43	0.14	4.81	113	<0.5				
ZZ38234		0.011	0.17	0.68	40	0.23	5.25	97	0.5				
ZZ38235		0.011	0.21	0.89	60	0.16	10.75	864	<0.5				
ZZ38236		0.013	0.18	0.87	54	0.22	6.49	148	<0.5				
ZZ38237		0.014	0.19	1.45	49	0.16	14.30	169	1.1				
ZZ38238		0.013	0.10	0.83	38	0.11	6.26	163	0.5				
ZZ41139		0.014	0.21	1.67	64	0.20	17.15	167	1.7				
ZZ41140		0.018	0.15	1.11	45	0.11	10.65	102	1.1				
ZZ41141		0.017	0.13	0.62	48	0.14	5.06	72	<0.5				
ZZ41142		0.018	0.15	0.98	43	0.15	8.61	98	1.5				
ZZ41143		0.016	0.13	0.88	35	0.11	7.20	74	<0.5				
ZZ41144		0.019	0.11	1.00	36	0.10	5.45	54	<0.5				
ZZ41145		0.012	0.10	0.65	32	0.15	5.93	47	<0.5				
ZZ41146		0.022	0.13	0.87	37	0.19	6.07	76	0.7				
ZZ41147		0.025	0.13	1.14	42	0.57	9.89	85	<0.5				
ZZ41148		0.012	0.15	1.18	38	0.07	11.90	97	1.6				
ZZ41149		0.013	0.16	1.55	40	1.78	16.85	95	1.5				
ZZ41150		0.016	0.10	0.86	30	0.09	7.33	66	1.3				
ZZ41151		0.012	0.12	1.32	40	0.11	10.50	109	1.4				
ZZ41152		0.013	0.15	1.96	43	0.16	12.80	110	1.8				
ZZ41153		0.016	0.13	1.79	42	0.17	13.45	121	1.3				
ZZ41154		0.013	0.13	0.97	41	0.16	11.25	91	1.7				
ZZ41155		0.013	0.10	0.92	36	0.21	9.23	87	1.2				
ZZ41156		0.013	0.09	1.09	38	0.20	8.80	89	1.3				



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41157		0.23	0.005	0.28	1.06	10.2	<0.2	<10	560	0.49	0.17	1.30	0.98	25.1	7.7	20
ZZ41158		0.27	0.006	0.38	1.07	9.3	<0.2	<10	530	0.49	0.20	1.37	1.00	26.4	7.7	21
ZZ41159		0.29	0.004	0.50	1.08	9.4	<0.2	<10	570	0.46	0.18	1.58	1.12	23.2	6.9	20
ZZ41160		0.33	0.004	0.34	0.84	9.6	<0.2	<10	420	0.35	0.14	1.21	1.07	19.00	6.9	16
ZZ41161		0.33	0.009	0.52	1.16	14.0	<0.2	<10	570	0.50	0.22	1.03	1.18	30.9	9.7	25
ZZ41162		0.26	0.007	0.43	1.16	15.2	<0.2	<10	620	0.46	0.22	1.04	1.11	25.9	6.2	21
ZZ41163		0.52	0.004	0.42	1.18	12.0	<0.2	<10	360	0.49	0.20	0.72	1.44	30.9	8.7	27
ZZ41164		0.29	0.005	0.28	1.38	8.7	<0.2	<10	500	0.46	0.21	0.53	0.39	30.2	6.8	20
ZZ41165		0.20	0.003	0.19	0.68	3.9	<0.2	<10	340	0.30	0.08	1.03	0.33	14.65	4.3	10
ZZ41166		0.31	0.003	0.29	1.32	12.6	<0.2	<10	420	0.52	0.20	0.50	0.33	33.2	7.6	20
ZZ41167		0.44	0.006	0.79	1.60	23.6	<0.2	<10	600	0.94	0.20	0.73	2.61	45.2	11.0	16
ZZ41168		0.18	0.003	0.12	1.66	10.6	<0.2	<10	350	0.43	0.18	0.18	0.34	22.1	7.9	22
ZZ41169		0.38	0.005	0.60	0.96	10.1	<0.2	<10	440	0.38	0.18	0.56	0.85	31.6	7.1	17
ZZ41170		0.37	0.007	0.94	1.01	25.0	<0.2	<10	330	0.49	0.15	0.59	1.26	31.2	6.2	21
ZZ41171		0.26	0.006	0.84	1.17	18.5	<0.2	<10	370	0.49	0.14	0.89	0.91	26.5	5.7	17
ZZ41172		0.19	0.005	0.32	1.32	11.4	<0.2	<10	450	0.31	0.15	0.43	0.19	24.8	4.8	23
ZZ41173		0.33	0.004	0.25	0.99	8.8	<0.2	<10	460	0.40	0.14	0.39	0.56	30.2	7.0	21
ZZ41174		0.21	0.005	0.11	1.07	12.1	<0.2	<10	400	0.40	0.15	0.26	0.63	23.6	7.1	19
ZZ41175		0.20	0.005	0.37	1.31	12.2	<0.2	<10	440	0.48	0.19	0.43	0.66	33.9	8.8	31
ZZ41176		0.20	0.006	0.15	1.19	8.4	<0.2	<10	270	0.40	0.16	0.18	0.19	27.8	7.2	22
ZZ41177		0.23	0.003	0.14	1.61	11.1	<0.2	<10	380	0.38	0.21	0.31	0.32	25.9	7.3	25
ZZ41178		0.14	0.003	0.23	1.56	10.6	<0.2	<10	250	0.37	0.19	0.12	0.26	24.2	6.2	24
ZZ41179		0.16	0.003	0.27	1.12	12.9	<0.2	<10	210	0.27	0.19	0.10	0.23	23.2	4.6	19
ZZ41180		0.17	0.004	0.31	1.15	10.4	<0.2	<10	650	0.54	0.18	0.71	0.57	27.9	8.9	22
ZZ41181		0.17	0.005	0.28	1.14	7.6	<0.2	<10	400	0.41	0.18	0.72	0.80	26.2	7.7	25
ZZ41182		0.31	0.011	1.17	1.18	34.1	<0.2	<10	380	0.53	0.19	1.36	1.50	28.4	7.9	24
ZZ41183		0.24	0.004	0.28	0.94	10.9	<0.2	<10	350	0.29	0.11	0.91	0.56	23.9	4.9	17
ZZ41184		0.25	0.006	0.38	1.17	11.0	<0.2	<10	470	0.53	0.18	1.03	0.92	32.4	6.4	18
ZZ41185		0.20	0.004	0.32	1.04	7.6	<0.2	<10	480	0.41	0.17	1.14	0.60	27.5	6.0	18
ZZ41186		0.18	0.004	0.27	1.14	10.7	<0.2	<10	370	0.41	0.17	0.82	0.49	25.0	5.8	18
ZZ41187		0.22	0.004	0.61	1.12	24.0	<0.2	<10	550	0.35	0.11	1.37	3.69	13.95	3.6	12
ZZ41188		0.27	0.003	0.28	0.99	13.9	<0.2	<10	380	0.38	0.15	0.88	1.39	19.85	4.2	15
ZZ41189		0.23	0.005	0.34	1.12	11.3	<0.2	<10	390	0.36	0.15	0.57	0.62	23.3	6.5	17
ZZ41190		0.31	0.004	0.25	0.96	8.5	<0.2	<10	400	0.39	0.16	0.47	0.48	24.2	4.8	16
ZZ41191		0.21	0.004	0.45	1.32	20.5	<0.2	<10	460	0.48	0.22	0.39	0.57	28.9	6.4	27
ZZ41192		0.20	0.003	0.48	1.05	14.2	<0.2	<10	270	0.28	0.17	0.34	0.57	19.65	5.3	18
ZZ41193		0.15	0.004	0.54	0.98	83.8	<0.2	<10	310	0.29	0.19	0.30	0.34	22.5	3.9	17
ZZ41194		0.25	0.012	1.01	0.64	17.5	<0.2	<10	220	0.16	0.19	0.22	0.15	13.30	2.9	12
ZZ41195		0.15	0.005	0.55	0.91	12.2	<0.2	<10	200	0.25	0.21	0.09	0.37	19.80	3.2	16
ZZ41196		0.20	0.003	0.52	0.95	37.7	<0.2	<10	320	0.44	0.20	0.18	0.63	23.6	8.0	15



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41157		0.64	25.0	2.19	3.45	0.07	0.05	0.09	0.022	0.07	12.6	13.1	0.44	299	1.58
ZZ41158		0.72	28.7	2.00	3.45	0.07	0.05	0.09	0.025	0.07	13.6	13.6	0.44	234	1.57
ZZ41159		0.70	27.7	1.73	3.40	0.06	0.05	0.12	0.023	0.06	12.4	11.6	0.35	392	1.71
ZZ41160		0.62	20.8	1.57	2.92	0.06	0.05	0.08	0.019	0.05	10.2	8.4	0.27	405	1.56
ZZ41161		0.88	33.2	2.16	4.11	0.08	0.05	0.09	0.026	0.07	16.2	14.0	0.42	481	2.63
ZZ41162		0.81	32.9	2.07	3.57	0.06	0.05	0.12	0.026	0.07	13.8	12.9	0.36	602	2.30
ZZ41163		1.07	33.2	1.99	3.96	0.08	0.05	0.08	0.028	0.08	15.9	13.6	0.49	210	1.81
ZZ41164		1.33	20.2	1.95	4.62	0.07	0.06	0.12	0.025	0.06	15.7	17.4	0.36	288	1.35
ZZ41165		0.49	15.8	1.10	2.16	<0.05	0.04	0.05	0.010	0.04	7.3	6.5	0.17	430	0.83
ZZ41166		1.32	15.3	2.33	4.73	0.08	0.05	0.10	0.025	0.06	17.0	19.4	0.41	375	1.80
ZZ41167		1.18	32.1	2.66	2.71	0.10	0.08	0.20	0.033	0.08	20.7	14.1	0.25	737	3.46
ZZ41168		0.93	15.8	2.41	2.81	<0.05	0.08	0.06	0.025	0.05	9.7	18.6	0.28	289	1.29
ZZ41169		1.21	30.4	2.03	2.57	<0.05	0.02	0.19	0.021	0.09	14.7	11.6	0.31	470	1.99
ZZ41170		1.84	28.3	2.12	2.38	0.06	0.04	0.15	0.028	0.09	15.6	11.9	0.54	476	6.84
ZZ41171		1.66	24.2	2.03	3.11	0.05	0.04	0.15	0.027	0.08	13.3	12.2	0.38	430	3.41
ZZ41172		1.29	14.4	1.94	3.54	<0.05	0.04	0.11	0.019	0.08	11.8	13.5	0.43	393	1.61
ZZ41173		0.99	25.0	2.01	2.88	<0.05	0.03	0.13	0.020	0.07	13.5	12.8	0.30	323	1.88
ZZ41174		1.34	23.4	2.66	2.33	<0.05	0.04	0.14	0.024	0.06	11.2	13.3	0.19	361	2.48
ZZ41175		1.07	36.8	2.72	4.69	0.05	0.02	0.12	0.034	0.07	16.4	18.9	0.45	439	2.16
ZZ41176		1.08	18.5	2.03	3.43	<0.05	0.03	0.06	0.024	0.07	12.6	14.4	0.34	226	1.12
ZZ41177		1.28	16.7	2.50	4.75	<0.05	0.03	0.05	0.024	0.06	11.4	18.3	0.40	273	1.57
ZZ41178		1.23	13.7	2.48	3.76	<0.05	0.04	0.07	0.026	0.05	10.9	16.9	0.32	232	1.55
ZZ41179		0.98	19.3	2.65	3.55	<0.05	0.02	0.06	0.022	0.07	11.1	7.8	0.23	209	2.48
ZZ41180		0.72	24.2	2.75	3.34	0.05	0.04	0.12	0.025	0.06	12.6	14.9	0.37	635	1.87
ZZ41181		0.97	20.7	2.25	3.07	<0.05	0.05	0.09	0.023	0.09	12.1	13.0	0.43	259	1.29
ZZ41182		1.58	34.7	2.29	3.22	0.05	0.06	0.09	0.063	0.12	12.7	13.3	0.62	339	2.98
ZZ41183		0.89	9.2	2.02	2.64	<0.05	0.04	0.08	0.022	0.08	11.0	11.5	0.43	269	2.03
ZZ41184		1.18	24.2	2.30	3.24	0.05	0.05	0.13	0.027	0.07	14.8	13.0	0.32	315	1.23
ZZ41185		0.88	20.0	2.03	3.03	<0.05	0.03	0.11	0.022	0.06	12.5	10.9	0.30	287	1.23
ZZ41186		0.88	14.1	2.05	3.05	<0.05	0.02	0.09	0.021	0.07	11.8	12.6	0.36	359	0.97
ZZ41187		1.57	19.5	1.43	2.40	<0.05	0.05	0.12	0.017	0.06	7.4	7.0	0.22	347	0.94
ZZ41188		0.89	16.1	1.41	2.84	<0.05	0.04	0.07	0.021	0.04	9.2	6.8	0.23	173	0.61
ZZ41189		1.11	14.8	1.87	3.11	<0.05	0.04	0.06	0.016	0.06	10.3	10.7	0.31	470	1.42
ZZ41190		0.93	19.2	1.62	3.01	<0.05	0.03	0.09	0.019	0.07	11.2	11.5	0.30	220	1.25
ZZ41191		1.43	21.8	2.37	3.84	0.05	0.02	0.10	0.029	0.10	13.2	15.8	0.54	347	2.43
ZZ41192		1.04	10.4	1.19	3.25	<0.05	<0.02	0.09	0.020	0.05	8.9	9.9	0.28	160	1.34
ZZ41193		1.15	13.2	2.01	3.40	<0.05	0.02	0.11	0.026	0.06	10.4	11.2	0.26	123	3.54
ZZ41194		1.05	10.0	1.32	2.68	<0.05	<0.02	0.14	0.016	0.06	6.8	5.3	0.16	156	1.40
ZZ41195		0.96	15.8	1.70	3.88	<0.05	<0.02	0.04	0.023	0.05	9.5	6.9	0.17	150	1.57
ZZ41196		0.96	26.2	1.93	2.93	<0.05	<0.02	0.08	0.022	0.07	11.2	8.4	0.21	492	2.30



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ41157		0.79	22.5	860	10.1	8.1	0.002	0.07	1.27	3.3	1.8	0.4	54.9	<0.01	0.03
ZZ41158		0.80	24.5	820	14.7	8.2	0.003	0.06	1.47	3.3	3.4	0.5	60.1	<0.01	0.03
ZZ41159		0.68	22.5	950	10.6	8.5	0.002	0.06	1.39	2.9	2.6	0.4	67.7	<0.01	0.04
ZZ41160		0.63	17.4	940	9.3	7.2	0.002	0.05	1.36	2.1	2.5	0.4	60.7	<0.01	0.03
ZZ41161		0.94	28.9	1240	12.2	9.4	0.002	0.03	1.90	3.8	2.3	0.5	52.2	<0.01	0.04
ZZ41162		0.78	25.0	1020	11.6	8.6	0.002	0.03	1.98	3.2	2.6	0.4	56.0	<0.01	0.05
ZZ41163		0.91	29.6	1000	17.1	10.3	0.003	0.03	3.29	4.2	2.4	1.1	40.1	<0.01	0.03
ZZ41164		0.86	17.0	920	11.8	10.8	0.001	0.06	1.19	3.4	1.5	0.6	37.4	<0.01	0.03
ZZ41165		0.42	10.7	660	4.8	4.6	0.001	0.05	0.62	1.5	1.5	0.2	44.7	<0.01	0.02
ZZ41166		0.85	15.8	940	11.7	10.5	0.001	0.02	1.16	3.1	1.9	0.6	34.0	<0.01	0.04
ZZ41167		0.47	30.6	1560	18.6	7.8	0.002	0.03	2.27	5.1	2.3	0.3	42.4	0.01	0.05
ZZ41168		0.69	21.4	830	11.6	8.0	<0.001	0.01	1.11	2.6	1.1	0.5	17.4	0.01	0.01
ZZ41169		0.34	25.8	1050	10.1	7.3	0.002	0.01	1.51	3.9	1.4	0.5	36.2	<0.01	0.02
ZZ41170		0.26	31.4	1460	16.9	7.8	<0.001	0.01	4.24	4.1	2.1	1.3	33.7	<0.01	0.06
ZZ41171		0.42	23.0	1020	17.9	8.6	0.003	0.04	3.36	3.2	2.4	1.3	42.3	<0.01	0.03
ZZ41172		0.34	15.8	970	11.6	10.1	0.001	0.02	1.21	2.7	1.3	0.8	32.4	<0.01	0.02
ZZ41173		0.39	24.2	990	9.1	6.7	0.002	0.01	1.35	3.4	1.8	0.4	35.9	<0.01	0.03
ZZ41174		0.44	26.0	1220	11.4	7.4	<0.001	0.02	1.94	2.6	2.2	0.3	29.8	<0.01	0.06
ZZ41175		0.30	38.6	1050	11.2	6.7	0.001	0.01	1.32	4.0	2.5	0.4	50.6	<0.01	0.03
ZZ41176		0.55	23.0	670	7.8	8.5	<0.001	<0.01	0.81	2.9	0.7	0.4	31.1	<0.01	0.04
ZZ41177		0.76	18.4	770	12.0	8.1	<0.001	<0.01	0.64	2.9	1.4	0.6	23.5	<0.01	0.01
ZZ41178		0.80	17.6	490	10.3	8.0	<0.001	<0.01	0.96	2.7	1.2	0.4	12.6	<0.01	0.02
ZZ41179		0.47	19.0	810	10.2	10.1	<0.001	0.02	1.42	2.2	1.4	0.4	20.3	<0.01	0.04
ZZ41180		0.55	24.0	910	12.2	7.3	<0.001	0.02	1.16	4.3	2.2	0.4	39.7	<0.01	0.02
ZZ41181		0.63	26.6	870	10.3	7.6	0.003	0.03	1.05	3.4	2.3	0.4	35.6	<0.01	0.03
ZZ41182		0.57	33.9	960	79.5	10.9	0.002	0.04	12.10	3.5	2.5	9.0	47.9	<0.01	0.04
ZZ41183		0.49	12.9	910	10.1	8.6	0.003	0.03	1.32	2.7	1.9	0.8	38.3	<0.01	0.02
ZZ41184		0.73	20.6	810	15.0	8.2	0.001	0.05	1.57	3.9	3.4	0.6	52.1	<0.01	0.02
ZZ41185		0.65	18.6	830	11.8	7.8	0.002	0.06	1.46	3.1	2.7	0.5	51.5	<0.01	0.02
ZZ41186		0.61	13.6	860	11.4	8.1	0.003	0.05	1.78	2.9	2.4	0.6	39.0	<0.01	0.01
ZZ41187		0.35	23.2	1250	21.3	8.5	0.003	0.12	3.62	1.2	2.7	0.4	57.7	<0.01	0.03
ZZ41188		0.51	14.8	870	18.5	6.3	0.002	0.09	4.61	2.1	2.2	0.4	44.5	<0.01	0.03
ZZ41189		0.49	15.4	910	12.9	8.9	<0.001	0.05	2.08	2.5	1.5	0.5	35.6	<0.01	0.02
ZZ41190		0.48	17.5	800	9.7	7.1	0.001	0.03	1.36	2.9	1.6	0.4	34.4	<0.01	0.03
ZZ41191		0.45	20.8	1020	19.0	10.3	0.001	0.03	3.63	3.3	1.5	0.9	33.9	<0.01	0.03
ZZ41192		0.53	12.2	710	30.3	7.3	0.001	0.05	2.17	1.9	1.6	0.9	22.5	<0.01	<0.01
ZZ41193		0.54	11.9	770	38.6	8.9	0.002	0.02	4.74	2.4	1.6	2.8	26.2	<0.01	0.04
ZZ41194		0.34	9.6	450	46.8	6.4	<0.001	0.01	9.85	1.3	1.4	4.5	20.2	<0.01	0.07
ZZ41195		0.37	10.6	500	15.4	7.4	<0.001	0.01	4.09	0.9	1.0	1.1	11.0	<0.01	0.04
ZZ41196		0.23	17.6	860	18.2	7.7	0.001	0.01	4.14	0.9	1.0	1.6	17.6	<0.01	0.03



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Zn-OG46	Ag-OG46	Pb-OG46	Sn-XRF05
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Zn %	Ag ppm	Pb %	Sn ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	1	0.001	5
ZZ41157		0.017	0.10	1.37	37	0.43	9.63	113	1.5				
ZZ41158		0.018	0.11	1.78	41	0.18	10.75	118	1.6				
ZZ41159		0.013	0.14	1.38	45	0.09	10.65	118	1.5				
ZZ41160		0.016	0.11	1.17	35	0.11	8.26	95	1.5				
ZZ41161		0.027	0.16	1.62	52	0.22	13.15	136	1.5				
ZZ41162		0.018	0.14	1.70	50	0.13	10.70	122	1.5				
ZZ41163		0.035	0.17	2.72	50	0.14	12.15	145	1.7				
ZZ41164		0.017	0.16	1.56	44	0.18	8.57	100	1.4				
ZZ41165		0.018	0.06	0.69	22	0.06	5.83	45	1.2				
ZZ41166		0.021	0.15	1.51	43	0.17	8.37	108	1.2				
ZZ41167		0.011	0.21	1.97	38	0.18	21.7	141	2.0				
ZZ41168		0.016	0.12	0.72	38	0.15	5.67	92	2.3				
ZZ41169		0.019	0.22	0.88	41	0.11	13.05	152	0.5				
ZZ41170		0.013	0.36	1.18	51	0.10	14.95	173	1.8				
ZZ41171		0.020	0.22	1.69	44	0.12	12.10	153	1.3				
ZZ41172		0.012	0.16	0.70	48	0.11	7.18	108	1.3				
ZZ41173		0.019	0.12	0.93	41	0.10	10.35	114	0.8				
ZZ41174		0.011	0.22	0.86	42	0.12	8.06	142	1.4				
ZZ41175		0.013	0.13	1.07	48	0.09	14.20	142	0.7				
ZZ41176		0.023	0.12	0.78	37	0.18	6.16	84	1.0				
ZZ41177		0.022	0.14	0.82	55	0.19	5.41	81	0.6				
ZZ41178		0.023	0.14	0.70	46	0.28	5.31	77	2.0				
ZZ41179		0.013	0.12	0.57	53	0.13	4.03	104	0.6				
ZZ41180		0.014	0.13	0.97	43	0.11	10.85	98	1.1				
ZZ41181		0.029	0.13	0.95	42	0.18	8.87	128	1.4				
ZZ41182		0.025	0.27	1.18	50	0.19	11.35	207	1.9				
ZZ41183		0.024	0.19	0.83	38	0.12	6.85	127	1.2				
ZZ41184		0.018	0.14	2.05	39	0.14	13.10	95	1.4				
ZZ41185		0.019	0.10	1.99	35	0.26	10.40	78	1.0				
ZZ41186		0.023	0.11	1.73	37	0.14	8.11	97	0.9				
ZZ41187		0.012	0.11	1.89	29	0.06	7.07	441	1.5				
ZZ41188		0.014	0.09	2.11	36	0.09	6.57	169	1.3				
ZZ41189		0.017	0.11	1.17	38	0.10	8.24	111	1.0				
ZZ41190		0.016	0.10	0.94	34	0.14	8.56	87	1.5				
ZZ41191		0.015	0.16	1.08	54	0.13	8.58	128	1.0				
ZZ41192		0.019	0.12	0.96	38	0.20	4.82	79	<0.5				
ZZ41193		0.013	0.15	1.02	42	0.28	5.08	78	0.6				
ZZ41194		0.016	0.14	0.48	35	0.09	2.78	51	<0.5				
ZZ41195		0.015	0.14	0.58	41	0.20	3.84	47	<0.5				
ZZ41196		0.010	0.14	0.81	41	0.10	5.87	95	<0.5				



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41197		0.21	0.002	0.22	1.29	22.0	<0.2	<10	420	0.35	0.21	0.30	0.40	22.3	8.2	21
ZZ41198		0.25	0.003	0.34	0.97	22.7	<0.2	<10	370	0.31	0.24	0.48	0.47	23.0	6.1	15
ZZ41199		0.17	0.006	1.74	1.33	133.0	<0.2	<10	540	0.41	0.83	0.40	1.03	23.4	4.2	21
ZZ41200		0.27	0.004	1.17	1.43	23.0	<0.2	<10	420	0.64	0.21	0.61	1.71	26.5	5.7	23
ZZ41201		0.14	0.004	1.40	1.54	47.2	<0.2	<10	720	0.84	0.55	0.78	2.22	30.5	10.7	26
ZZ41202		0.23	0.004	1.08	1.36	69.7	<0.2	<10	530	0.51	0.48	0.78	1.10	26.0	7.9	27
ZZ41203		0.20	0.006	1.67	1.48	58.6	<0.2	<10	470	0.76	0.26	4.70	4.11	29.3	6.5	76
ZZ41204		0.18	0.004	0.75	1.59	78.2	<0.2	<10	400	0.54	0.26	0.58	0.37	29.1	8.1	44
ZZ41205		0.22	0.002	0.64	1.41	105.0	<0.2	<10	450	0.50	0.30	0.80	0.37	28.9	8.9	28
ZZ41206		0.22	0.004	1.40	1.32	151.5	<0.2	<10	440	0.51	0.78	0.98	1.04	28.3	8.4	31
ZZ41207		0.16	0.003	1.17	2.02	120	<0.2	<10	150	0.79	0.42	11.50	3.48	22.2	4.9	122
ZZ41208		0.13	0.002	0.40	1.70	144.5	<0.2	<10	220	0.63	0.93	0.45	0.45	32.5	9.1	37
ZZ41209		0.27	0.003	2.22	2.12	664	<0.2	<10	140	0.76	3.41	0.50	1.79	33.8	11.3	37
ZZ41210		0.26	0.211	>100	0.72	>10000	0.2	<10	280	0.38	281	4.22	219	14.05	12.4	17
ZZ41211		0.26	0.002	0.27	1.36	42.9	<0.2	<10	680	0.43	0.37	0.55	0.51	22.0	8.4	19
ZZ41212		0.17	0.011	0.42	0.87	9.8	<0.2	<10	490	0.38	0.16	0.94	0.46	20.0	4.2	13
ZZ41213		0.18	0.002	0.62	0.75	41.2	<0.2	<10	220	0.22	0.26	1.02	0.37	13.45	2.9	14
ZZ41214		0.29	0.004	1.20	0.97	121.5	<0.2	<10	320	0.32	0.65	1.44	0.72	17.00	4.6	21
ZZ41215		0.25	0.012	0.60	0.96	32.6	<0.2	<10	460	0.46	0.29	0.74	0.57	29.8	8.8	20
ZZ41216		0.35	0.011	1.07	0.99	187.0	<0.2	<10	430	0.42	0.82	1.12	1.44	24.4	6.6	25
ZZ41217		0.22	0.003	1.02	1.13	56.9	<0.2	<10	480	0.46	0.71	0.93	1.59	26.9	7.7	24
ZZ41218		0.27	0.004	0.88	1.07	155.0	<0.2	<10	420	0.43	0.81	1.14	0.85	25.1	6.5	23
ZZ41219		0.23	0.011	0.40	1.16	52.3	<0.2	<10	340	0.47	0.19	1.41	1.01	24.8	8.4	28
ZZ41220		0.28	0.009	0.49	1.72	139.0	<0.2	<10	340	0.64	0.27	1.44	0.90	25.9	13.1	33
ZZ41221		0.28	0.005	1.41	1.30	240	<0.2	<10	200	0.54	0.15	1.69	2.15	28.7	6.8	40
ZZ41222		0.24	0.005	1.02	1.12	357	<0.2	<10	180	0.44	0.14	1.36	1.78	22.4	6.2	34
ZZ41223		0.22	0.004	0.51	0.85	439	<0.2	<10	270	0.35	0.17	1.90	1.38	18.55	7.9	20
ZZ41224		0.24	0.005	0.57	0.97	177.0	<0.2	<10	360	0.45	0.17	1.86	1.93	26.7	7.7	36
ZZ41225		0.23	0.003	1.15	1.18	231	<0.2	<10	310	0.48	0.18	1.55	1.44	25.0	6.6	31
ZZ41226		0.23	0.006	1.26	1.06	259	<0.2	<10	360	0.53	0.49	1.69	2.24	23.1	7.4	26
ZZ41227		0.13	0.011	3.34	1.22	421	<0.2	<10	480	0.59	2.25	1.81	2.50	25.5	7.1	34
ZZ41228		0.20	0.003	0.30	0.89	130.0	<0.2	<10	290	0.23	0.35	0.43	0.31	25.8	5.0	18
ZZ41229		0.11	0.006	1.78	1.07	562	<0.2	<10	400	0.47	0.96	1.59	2.15	19.20	8.7	33
ZZ41230		0.16	0.003	1.50	1.02	116.5	<0.2	<10	330	0.33	0.29	0.72	1.35	15.95	6.7	21
ZZ41231		0.24	0.003	2.01	1.44	108.0	<0.2	<10	130	0.51	0.32	0.12	0.44	24.9	6.9	29
ZZ41232		0.28	0.003	0.38	1.23	137.0	<0.2	<10	300	0.41	0.42	0.25	0.52	28.6	7.2	24
ZZ41233		0.30	0.003	0.73	1.48	141.0	<0.2	<10	400	0.59	0.54	0.49	0.63	32.5	8.4	29
ZZ41234		0.22	0.012	2.89	1.24	404	<0.2	<10	620	0.57	1.43	3.69	13.15	27.9	8.5	33
ZZ41235		0.18	0.003	0.89	2.11	124.5	<0.2	<10	360	0.84	0.29	1.17	0.54	23.6	7.2	41



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CERTIFICATE OF ANALYSIS WH12196522

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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41197		1.18	19.0	2.28	3.54	<0.05	0.02	0.10	0.025	0.06	10.2	11.9	0.27	434	1.97
ZZ41198		0.89	13.3	1.97	2.62	<0.05	0.03	0.09	0.022	0.05	10.3	8.3	0.26	379	2.03
ZZ41199		1.80	16.8	2.24	3.65	<0.05	0.04	0.28	0.057	0.07	11.0	11.0	0.27	198	1.33
ZZ41200		2.26	20.4	1.91	3.58	<0.05	0.07	0.10	0.029	0.09	12.6	14.6	0.57	285	1.44
ZZ41201		1.87	43.9	2.20	4.92	0.06	0.02	0.12	0.038	0.08	14.2	12.1	0.33	633	2.39
ZZ41202		1.25	23.1	2.17	4.28	0.05	0.02	0.07	0.030	0.06	11.8	13.3	0.41	524	1.43
ZZ41203		2.42	38.7	1.88	4.15	0.08	0.04	0.09	0.031	0.09	19.0	17.4	0.88	480	3.83
ZZ41204		2.28	16.4	1.94	5.05	0.07	0.03	0.05	0.037	0.06	11.0	15.4	0.93	520	2.12
ZZ41205		0.96	27.8	2.37	4.91	0.08	0.03	0.06	0.025	0.06	14.4	13.4	0.47	335	1.40
ZZ41206		1.12	27.9	2.23	4.56	0.08	0.03	0.06	0.043	0.07	14.3	11.7	0.50	382	1.52
ZZ41207		8.40	32.4	1.53	6.25	0.11	0.11	0.04	0.038	0.12	13.3	25.0	2.04	297	3.52
ZZ41208		2.80	16.8	2.42	5.34	0.07	0.04	0.02	0.040	0.09	14.0	16.8	0.78	288	1.70
ZZ41209		3.39	121.0	3.49	6.57	0.11	0.12	0.04	0.132	0.08	17.0	19.5	0.93	249	12.70
ZZ41210		5.13	899	8.24	4.10	0.28	0.06	1.22	7.08	0.11	8.5	7.1	0.62	3360	6.52
ZZ41211		0.88	23.0	2.22	4.09	0.06	0.03	0.04	0.032	0.08	10.6	14.2	0.33	399	2.63
ZZ41212		0.43	32.5	1.32	3.46	0.05	0.02	0.08	0.013	0.06	12.4	8.1	0.19	177	1.19
ZZ41213		0.86	14.8	1.03	2.66	<0.05	0.03	0.07	0.015	0.05	6.6	6.3	0.27	140	0.93
ZZ41214		1.09	24.1	1.29	3.19	0.05	0.04	0.09	0.029	0.06	8.6	9.5	0.42	196	0.90
ZZ41215		0.93	33.5	2.23	3.17	0.08	0.05	0.16	0.024	0.10	13.9	10.5	0.33	247	3.36
ZZ41216		1.23	29.4	1.90	3.38	0.07	0.05	0.08	0.039	0.09	12.6	11.3	0.49	309	2.12
ZZ41217		1.42	38.0	1.92	3.66	0.07	0.05	0.13	0.038	0.12	13.2	11.7	0.48	179	2.33
ZZ41218		1.26	42.2	1.88	3.40	0.07	0.05	0.10	0.034	0.08	12.1	10.5	0.44	356	1.61
ZZ41219		1.04	23.6	1.97	3.90	0.07	0.04	0.05	0.019	0.08	12.3	13.2	0.49	294	1.94
ZZ41220		2.13	33.9	2.66	5.63	0.10	0.07	0.10	0.024	0.15	12.6	20.1	0.77	338	3.89
ZZ41221		3.05	37.3	1.69	4.70	0.10	0.08	0.05	0.026	0.09	14.6	21.2	1.13	250	1.57
ZZ41222		2.76	33.0	1.49	4.02	0.09	0.06	0.06	0.023	0.10	11.0	18.8	0.97	206	1.73
ZZ41223		1.30	31.6	1.63	2.83	0.06	0.04	0.07	0.019	0.08	8.9	9.1	0.41	926	2.45
ZZ41224		1.76	23.9	1.51	3.37	0.08	0.05	0.07	0.021	0.12	12.9	16.3	0.60	698	2.18
ZZ41225		2.29	36.0	1.80	3.80	0.07	0.05	0.09	0.025	0.12	12.8	15.0	0.71	292	2.25
ZZ41226		1.76	39.5	1.68	3.51	0.07	0.05	0.09	0.032	0.11	11.8	13.3	0.57	540	2.44
ZZ41227		1.97	60.1	2.01	3.76	0.08	0.06	0.11	0.077	0.12	14.2	13.5	0.61	424	2.52
ZZ41228		0.78	13.1	1.57	3.81	0.05	0.03	0.03	0.017	0.08	13.1	11.1	0.31	181	2.07
ZZ41229		1.63	31.7	1.91	3.65	0.07	0.05	0.08	0.047	0.07	9.8	12.3	0.67	633	1.49
ZZ41230		1.57	19.3	1.63	4.01	0.05	0.02	0.03	0.018	0.06	7.8	8.0	0.26	395	0.98
ZZ41231		1.34	24.2	2.15	4.38	0.06	0.04	0.03	0.027	0.09	12.6	13.0	0.47	137	2.96
ZZ41232		1.07	20.5	2.13	3.98	0.07	0.02	0.05	0.025	0.08	13.8	13.0	0.39	215	3.56
ZZ41233		1.10	29.4	2.43	4.48	0.07	0.04	0.09	0.036	0.09	16.3	13.9	0.47	286	2.19
ZZ41234		1.93	51.6	2.25	4.12	0.08	0.06	0.16	0.066	0.15	14.8	13.9	0.63	478	3.65
ZZ41235		2.43	21.3	2.23	6.13	0.08	0.09	0.07	0.035	0.12	11.6	18.4	0.96	290	1.67



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ41197		0.54	14.6	930	17.6	8.4	0.001	0.05	2.26	2.4	2.2	0.6	20.6	<0.01	0.04
ZZ41198		0.46	12.3	940	25.9	6.2	0.002	0.04	3.59	2.2	1.1	0.6	29.6	<0.01	0.03
ZZ41199		0.46	16.9	1090	140.0	10.9	0.002	0.04	7.71	2.9	2.0	2.0	36.5	<0.01	0.04
ZZ41200		0.76	26.2	860	85.4	9.3	<0.001	0.03	6.96	3.7	1.8	1.6	33.6	<0.01	0.02
ZZ41201		0.53	30.1	960	69.4	17.4	<0.001	0.03	5.63	2.8	2.1	4.7	40.8	<0.01	0.03
ZZ41202		0.63	21.8	950	51.4	10.5	0.001	0.02	4.50	3.3	1.6	5.3	40.9	<0.01	0.04
ZZ41203		0.39	44.9	4200	34.4	14.3	0.001	0.03	10.35	4.4	5.0	2.0	172.5	<0.01	0.04
ZZ41204		0.57	31.7	950	58.1	13.0	<0.001	0.01	11.90	4.4	1.8	2.8	24.8	<0.01	0.03
ZZ41205		1.23	24.6	720	37.2	12.5	0.001	0.02	4.34	3.8	1.2	1.4	31.2	<0.01	0.03
ZZ41206		0.96	24.7	830	87.0	12.9	0.001	0.02	6.11	3.5	2.1	3.3	32.3	<0.01	0.04
ZZ41207		0.64	36.8	6520	60.4	21.6	0.001	0.01	11.15	5.9	3.4	4.0	207	<0.01	0.04
ZZ41208		1.36	29.8	340	65.1	29.0	0.001	0.01	5.64	4.2	1.3	3.7	20.0	<0.01	0.04
ZZ41209		1.56	71.5	170	287	23.2	0.001	0.02	11.30	5.3	4.1	7.1	15.0	<0.01	0.05
ZZ41210		0.34	30.5	1460	>10000	19.8	0.006	0.15	2860	2.8	44.9	>500	162.5	<0.01	1.18
ZZ41211		0.55	23.5	480	22.8	9.1	<0.001	0.02	3.01	3.3	1.0	1.0	29.2	<0.01	0.04
ZZ41212		0.57	14.3	370	8.1	6.2	0.001	0.02	1.05	2.4	1.3	0.5	40.0	<0.01	0.03
ZZ41213		0.53	10.5	730	34.6	7.9	0.001	0.05	2.95	1.8	1.5	2.4	38.3	<0.01	0.02
ZZ41214		0.62	18.9	910	90.8	9.1	0.004	0.06	7.41	2.4	3.2	5.0	54.7	<0.01	0.03
ZZ41215		0.58	25.8	860	28.4	7.8	0.001	0.02	3.60	4.2	1.5	1.0	42.6	<0.01	0.04
ZZ41216		0.56	23.4	1330	116.0	10.1	0.002	0.04	10.25	3.6	1.9	7.9	45.3	<0.01	0.04
ZZ41217		0.71	30.0	1060	91.1	11.2	0.003	0.04	8.60	4.2	1.9	4.9	46.9	<0.01	0.04
ZZ41218		0.64	20.9	1150	88.2	9.3	0.002	0.04	6.87	3.6	2.0	7.4	51.0	<0.01	0.04
ZZ41219		1.08	26.0	1140	14.0	8.7	0.002	0.04	3.72	3.3	2.2	0.6	52.1	<0.01	0.03
ZZ41220		1.29	36.2	1060	17.2	19.9	0.005	0.06	4.03	4.9	5.4	0.6	58.0	<0.01	0.05
ZZ41221		0.69	30.3	1410	121.5	21.8	0.005	0.04	13.95	3.9	4.4	1.7	45.5	<0.01	0.06
ZZ41222		0.72	25.6	1210	79.8	27.3	0.004	0.04	17.35	3.4	4.5	1.6	39.2	<0.01	0.06
ZZ41223		0.68	21.3	810	26.3	19.1	0.005	0.06	6.48	2.2	4.0	1.2	48.4	<0.01	0.03
ZZ41224		0.67	25.5	2400	23.4	19.4	0.003	0.04	7.34	3.5	3.5	0.6	55.7	<0.01	0.04
ZZ41225		0.75	27.7	1390	76.1	19.1	0.003	0.04	9.93	3.8	2.9	2.4	46.3	<0.01	0.05
ZZ41226		0.66	30.3	1280	101.0	14.5	0.004	0.05	9.45	3.5	2.8	4.4	56.9	<0.01	0.04
ZZ41227		0.56	30.2	1680	289	16.5	0.004	0.05	15.40	4.6	3.7	17.9	60.9	<0.01	0.05
ZZ41228		0.79	16.7	370	23.1	13.4	0.001	0.01	2.23	2.4	0.8	1.5	21.9	<0.01	0.03
ZZ41229		0.57	24.5	1360	169.5	12.4	0.002	0.06	13.70	3.1	3.0	9.1	61.0	<0.01	0.04
ZZ41230		0.86	15.4	670	56.9	12.0	0.001	0.01	4.91	2.3	1.4	1.9	26.7	<0.01	0.03
ZZ41231		0.85	28.8	520	76.5	14.1	<0.001	0.01	7.44	3.2	1.3	8.1	11.1	<0.01	0.03
ZZ41232		0.81	22.3	780	98.6	10.1	<0.001	0.01	7.66	3.0	1.1	3.8	19.8	<0.01	0.04
ZZ41233		0.95	27.4	650	86.9	10.2	0.001	0.01	6.69	4.8	1.4	4.5	24.5	<0.01	0.04
ZZ41234		0.60	36.3	2320	319	14.6	0.001	0.02	22.7	5.1	2.5	14.5	96.0	<0.01	0.05
ZZ41235		1.18	29.4	750	96.0	17.6	0.001	0.02	6.84	5.4	1.1	4.3	87.1	<0.01	0.04



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001	1	0.001	5
ZZ41197		0.011	0.15	1.06	46	0.16	5.77	101	0.6				
ZZ41198		0.016	0.11	0.79	34	0.11	6.45	99	1.0				
ZZ41199		0.011	0.21	1.40	50	0.18	7.88	152	1.4				
ZZ41200		0.021	0.26	1.57	53	0.10	11.90	207	3.1				
ZZ41201		0.013	0.21	2.23	54	0.24	14.20	180	0.7				
ZZ41202		0.024	0.12	1.28	48	0.28	8.29	126	0.6				
ZZ41203		0.020	0.33	1.76	78	0.23	24.6	210	1.6				
ZZ41204		0.018	0.40	1.03	57	0.25	8.80	162	1.2				
ZZ41205		0.034	0.14	1.52	48	0.33	8.66	102	1.0				
ZZ41206		0.034	0.15	1.53	49	0.25	11.00	157	0.8				
ZZ41207		0.033	1.00	2.13	89	0.32	22.0	169	5.5				
ZZ41208		0.045	0.46	0.99	54	0.43	7.61	149	1.6				
ZZ41209		0.059	0.59	2.28	103	0.67	14.80	330	5.6				
ZZ41210		0.011	1.17	3.44	25	1.78	15.00	>10000	2.9	1.105	212	1.460	1820
ZZ41211		0.009	0.19	0.96	52	0.12	4.88	106	0.9				
ZZ41212		0.012	0.09	1.79	34	0.11	10.05	40	0.8				
ZZ41213		0.021	0.12	0.92	28	0.19	3.99	68	0.9				
ZZ41214		0.018	0.16	1.00	35	0.11	7.32	170	1.6				
ZZ41215		0.016	0.18	0.94	45	0.26	9.68	124	2.1				
ZZ41216		0.022	0.20	1.07	47	0.14	9.99	191	1.7				
ZZ41217		0.019	0.22	1.04	47	0.13	10.60	171	2.3				
ZZ41218		0.019	0.20	1.06	50	0.13	9.25	152	1.7				
ZZ41219		0.036	0.14	1.26	45	0.21	9.63	80	1.5				
ZZ41220		0.048	0.29	2.48	73	0.33	10.85	135	3.1				
ZZ41221		0.028	0.49	1.45	46	0.49	14.60	167	3.5				
ZZ41222		0.031	0.43	1.63	42	0.28	11.65	174	2.4				
ZZ41223		0.025	0.25	1.21	33	0.16	8.24	118	1.2				
ZZ41224		0.025	0.38	1.43	41	0.18	13.45	162	2.0				
ZZ41225		0.027	0.32	1.28	47	0.17	11.55	208	1.8				
ZZ41226		0.022	0.30	1.45	49	0.18	10.85	188	2.1				
ZZ41227		0.015	0.30	1.83	51	0.15	15.60	284	2.1				
ZZ41228		0.024	0.15	0.66	46	0.19	4.07	92	1.1				
ZZ41229		0.018	0.24	1.10	42	0.12	9.17	265	2.0				
ZZ41230		0.030	0.18	0.60	47	0.19	3.27	201	0.7				
ZZ41231		0.030	0.19	0.85	52	0.22	4.86	137	2.0				
ZZ41232		0.024	0.17	0.88	50	0.24	6.32	115	0.8				
ZZ41233		0.023	0.18	1.12	52	0.28	11.00	125	1.0				
ZZ41234		0.017	0.35	1.56	60	0.33	15.50	396	2.7				
ZZ41235		0.037	0.30	0.89	116	0.16	11.30	126	3.8				



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CERTIFICATE OF ANALYSIS WH12196522

Method	CERTIFICATE COMMENTS
ME- MS41 ME- MS41	Interference: Samples with Ca> 10%on ICP- MS As. ICP- AES As results reported (2 ppm DL) Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE WH12189038

Project: SNAIL

P.O. No.:

This report is for 133 Soil samples submitted to our lab in Whitehorse, YT, Canada on 14- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

To: **SILVER RANGE RESOURCES LTD.**

ATTN: JOAN MARIACHER

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38001		0.28	0.002	0.36	0.99	14.0	<0.2	<10	250	0.51	0.33	0.32	0.96	37.9	7.4	16
ZZ38002		0.27	0.002	0.26	1.10	12.5	<0.2	<10	260	0.57	0.24	0.34	0.53	39.0	7.0	19
ZZ38003		0.14	0.007	0.35	1.06	14.7	<0.2	<10	290	0.55	0.45	0.29	1.11	41.1	6.5	18
ZZ38004		0.22	0.002	0.23	1.12	18.7	<0.2	<10	270	0.48	2.03	0.22	0.59	36.7	3.7	16
ZZ38005		0.14	0.004	0.70	1.55	41.9	<0.2	<10	250	0.60	1.67	0.30	0.70	17.45	4.5	18
ZZ38006		0.10	0.010	0.53	1.22	50.8	<0.2	<10	190	0.52	2.62	0.15	0.82	28.4	5.5	21
ZZ38007		0.17	0.043	5.18	2.05	1075	<0.2	<10	210	0.71	49.8	0.45	1.81	41.1	7.7	19
ZZ38008		0.15	0.032	6.06	1.85	482	<0.2	<10	300	0.70	21.2	0.29	1.36	39.2	8.5	27
ZZ38009		0.14	0.031	2.91	1.92	285	<0.2	<10	230	0.62	17.50	0.30	1.82	33.3	9.8	30
ZZ38010		0.10	0.012	1.41	1.37	172.0	<0.2	<10	120	0.41	14.55	0.13	1.00	17.95	4.5	15
ZZ38011		0.17	0.020	4.19	1.77	574	<0.2	<10	140	0.61	19.40	0.23	2.70	41.7	10.0	21
ZZ38012		0.15	0.011	0.78	1.99	163.0	<0.2	<10	250	0.72	4.65	0.36	1.80	29.9	7.6	37
ZZ38013		0.20	0.022	1.88	1.86	1050	<0.2	<10	160	0.65	13.45	0.19	1.23	34.9	13.3	26
ZZ38014		0.22	0.028	2.84	2.11	676	<0.2	<10	290	0.84	12.10	0.22	2.91	29.3	11.4	33
ZZ38015		0.16	0.007	0.54	1.05	48.2	<0.2	<10	140	0.40	0.70	0.10	0.60	16.25	3.9	13
ZZ38016		0.26	0.025	2.28	2.00	211	<0.2	<10	270	0.89	9.75	0.44	2.68	29.8	11.0	31
ZZ38017		0.13	0.006	0.31	2.25	9.4	<0.2	<10	140	0.80	0.16	1.68	1.32	20.8	9.3	24
ZZ38018		0.24	0.003	0.31	1.72	24.7	<0.2	<10	240	0.49	0.21	0.60	1.52	22.3	9.3	30
ZZ38019		0.21	0.006	0.89	1.44	17.7	<0.2	<10	250	0.44	0.23	0.51	0.82	31.6	6.2	28
ZZ38020		0.09	0.003	0.28	1.37	5.1	<0.2	<10	130	0.37	0.08	1.60	2.22	11.55	6.7	15
ZZ38021		0.20	0.003	0.50	0.78	17.4	<0.2	<10	170	0.25	0.20	0.45	0.84	17.05	5.1	12
ZZ38022		0.12	0.006	0.90	1.63	23.8	<0.2	<10	340	0.44	0.20	0.53	0.98	26.0	12.3	25
ZZ38023		0.21	0.005	0.84	1.49	13.2	<0.2	<10	300	0.65	0.17	0.45	3.24	24.6	5.2	20
ZZ38024		0.24	0.003	0.75	1.02	16.6	<0.2	<10	200	0.39	0.13	0.30	1.56	15.40	11.1	13
ZZ38025		0.22	0.003	0.67	1.02	17.2	<0.2	<10	160	0.51	0.10	0.47	2.73	17.35	5.4	13
ZZ38026		0.13	0.014	0.77	1.46	33.8	<0.2	<10	290	0.73	0.19	0.91	6.29	27.3	8.4	24
ZZ38027		0.13	0.011	6.97	1.78	68.4	<0.2	<10	380	0.81	0.27	0.65	6.47	26.3	8.7	24
ZZ38028		0.16	0.005	0.33	1.18	18.6	<0.2	<10	200	0.74	0.17	0.15	1.02	35.7	11.7	17
ZZ38029		0.11	0.009	0.73	1.11	17.0	<0.2	<10	120	0.47	0.16	0.35	0.62	15.65	7.8	17
ZZ38030		0.11	0.003	0.20	0.95	12.1	<0.2	<10	90	0.31	0.08	0.19	0.07	12.95	4.3	12
ZZ38032		0.12	0.003	0.20	1.67	77.9	<0.2	<10	190	0.49	0.30	0.17	0.32	26.0	8.3	30
ZZ38033		0.15	0.002	0.37	1.56	113.0	<0.2	<10	110	0.49	0.16	0.25	0.96	16.70	7.1	19
ZZ38034		0.12	0.001	1.55	1.57	126.0	<0.2	<10	110	0.54	0.21	0.49	0.37	17.10	7.7	17
ZZ38035		0.17	0.004	0.50	2.56	112.0	<0.2	<10	210	0.91	0.30	0.74	0.42	25.1	11.2	31
ZZ38036		0.11	0.002	0.23	1.71	94.4	<0.2	<10	140	0.63	0.41	0.73	0.25	18.15	6.4	19
ZZ38037		0.15	0.003	0.41	1.27	31.4	<0.2	<10	140	0.49	0.20	1.35	0.44	16.25	6.1	16
ZZ38038		0.21	0.003	0.62	1.07	15.2	<0.2	<10	230	0.49	0.29	0.33	0.41	24.8	4.5	14
ZZ38039		0.10	0.010	2.09	1.35	184.0	<0.2	<10	320	0.63	0.28	0.43	2.84	31.4	9.0	23
ZZ38040		0.14	0.014	0.42	1.09	23.9	<0.2	<10	340	0.67	0.18	0.47	1.28	35.5	8.4	17
ZZ38041		0.21	0.004	1.10	0.85	18.5	<0.2	<10	160	0.37	0.10	0.42	1.09	11.05	3.4	9



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38001		1.41	22.6	1.86	3.01	0.05	0.04	0.07	0.019	0.07	17.7	11.0	0.35	142	2.12
ZZ38002		1.40	20.6	2.13	3.79	0.06	0.04	0.08	0.024	0.07	19.3	14.0	0.45	159	2.26
ZZ38003		1.30	28.7	1.70	3.63	0.05	0.03	0.09	0.031	0.06	19.5	13.2	0.40	144	2.42
ZZ38004		1.65	30.3	1.39	4.03	0.06	0.03	0.09	0.044	0.06	18.7	13.9	0.40	92	0.94
ZZ38005		2.36	25.4	2.54	4.97	<0.05	<0.02	0.11	0.027	0.06	8.9	10.8	0.27	263	2.91
ZZ38006		1.94	28.7	2.25	5.23	0.05	<0.02	0.07	0.046	0.06	14.1	11.3	0.28	199	2.52
ZZ38007		4.97	550	3.27	5.43	0.06	0.02	0.14	0.440	0.08	21.7	12.4	0.46	262	4.05
ZZ38008		4.77	225	2.94	6.20	0.06	<0.02	0.18	0.455	0.08	21.3	15.8	0.49	312	4.50
ZZ38009		4.64	171.0	2.80	6.80	0.05	<0.02	0.12	0.301	0.10	17.1	18.8	0.61	309	4.37
ZZ38010		3.26	140.0	2.11	4.96	<0.05	<0.02	0.07	0.129	0.05	8.8	10.4	0.25	140	2.02
ZZ38011		3.98	268	4.61	6.06	0.06	0.03	0.10	1.575	0.11	22.6	15.4	0.47	429	3.91
ZZ38012		3.50	93.4	3.06	8.09	0.06	<0.02	0.07	0.142	0.09	15.2	22.9	0.72	271	3.78
ZZ38013		3.70	187.0	3.12	5.81	0.08	0.03	0.10	0.257	0.09	18.0	17.3	0.52	463	4.44
ZZ38014		4.80	189.5	4.00	6.84	0.08	0.03	0.07	0.493	0.10	16.2	20.7	0.69	377	4.61
ZZ38015		1.31	46.0	1.50	3.68	<0.05	<0.02	0.04	0.045	0.04	8.3	7.6	0.21	135	1.58
ZZ38016		4.31	134.5	3.32	6.57	0.08	0.03	0.06	0.507	0.10	16.5	21.2	0.80	524	3.84
ZZ38017		2.19	45.4	1.91	6.64	0.07	0.05	0.05	0.022	0.13	11.2	18.7	0.79	500	0.92
ZZ38018		2.17	37.8	2.29	6.38	0.05	0.02	0.05	0.025	0.10	11.9	22.0	0.62	205	3.31
ZZ38019		2.34	32.4	1.99	5.18	0.07	0.06	0.09	0.023	0.12	17.7	17.7	0.71	114	4.77
ZZ38020		1.58	38.0	1.18	4.16	0.05	0.03	0.05	0.011	0.07	6.1	9.9	0.51	477	0.90
ZZ38021		1.31	17.1	1.13	2.97	<0.05	0.02	0.09	0.014	0.07	9.6	8.9	0.29	200	3.53
ZZ38022		2.07	25.7	2.36	5.00	0.06	0.04	0.13	0.029	0.10	14.8	17.6	0.59	533	10.40
ZZ38023		1.59	53.3	1.38	4.51	0.05	0.06	0.13	0.024	0.07	13.8	15.3	0.45	189	2.63
ZZ38024		1.40	25.4	1.78	3.38	<0.05	0.02	0.09	0.022	0.05	8.3	8.6	0.24	535	5.28
ZZ38025		1.42	43.2	1.29	3.26	<0.05	0.02	0.06	0.025	0.06	9.9	9.1	0.30	156	3.69
ZZ38026		2.25	56.0	2.21	4.36	0.07	0.04	0.12	0.045	0.14	15.9	16.2	0.64	227	8.52
ZZ38027		3.95	74.9	2.25	5.09	0.08	0.06	0.63	0.067	0.12	14.7	18.2	0.65	448	21.2
ZZ38028		1.24	50.0	2.33	3.78	0.05	0.03	0.03	0.024	0.12	19.3	12.6	0.38	419	4.19
ZZ38029		4.14	62.0	1.46	4.15	<0.05	<0.02	0.03	0.018	0.08	8.5	10.7	0.37	71	2.82
ZZ38030		1.17	22.7	0.96	3.63	<0.05	<0.02	0.03	0.009	0.05	7.1	7.0	0.19	39	0.85
ZZ38032		2.58	29.8	2.50	8.30	0.06	0.03	0.04	0.021	0.11	14.8	20.0	0.61	221	4.59
ZZ38033		1.92	26.3	1.92	6.04	<0.05	0.02	0.01	0.015	0.10	9.0	11.6	0.33	156	1.01
ZZ38034		1.61	30.1	1.66	5.33	<0.05	0.02	0.05	0.021	0.06	9.3	11.3	0.26	241	1.40
ZZ38035		3.17	39.3	2.39	8.09	0.07	0.03	0.05	0.027	0.11	13.8	22.8	0.76	325	1.41
ZZ38036		2.51	21.8	1.66	6.26	0.05	0.03	0.02	0.014	0.08	10.3	12.9	0.43	150	0.60
ZZ38037		1.69	44.8	1.33	4.23	0.05	0.03	0.04	0.011	0.05	10.2	11.1	0.36	254	0.76
ZZ38038		1.29	47.2	1.44	3.59	0.05	0.02	0.08	0.035	0.04	13.5	7.9	0.24	227	1.62
ZZ38039		1.99	68.4	2.61	4.30	0.07	0.04	0.07	0.087	0.11	16.7	14.0	0.47	312	4.00
ZZ38040		1.99	37.8	2.26	3.51	0.07	0.06	0.08	0.026	0.13	17.9	14.5	0.54	376	3.36
ZZ38041		1.00	38.4	0.99	2.67	<0.05	0.02	0.05	0.012	0.05	6.0	4.2	0.13	110	1.43



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ38001		0.57	24.0	990	15.2	7.6	0.001	0.02	2.85	3.8	0.9	0.5	27.4	<0.01	0.03
ZZ38002		0.60	22.4	900	17.1	8.3	0.002	0.02	3.18	3.3	1.0	0.7	28.5	<0.01	0.01
ZZ38003		0.50	19.7	800	27.5	8.9	0.001	0.02	4.56	4.3	1.3	1.4	23.4	<0.01	0.03
ZZ38004		0.58	14.9	580	29.3	9.1	0.001	0.02	3.79	3.5	0.7	1.1	19.6	<0.01	0.07
ZZ38005		0.40	16.6	1010	25.3	9.6	0.001	0.09	2.77	1.4	0.9	0.7	20.4	<0.01	0.07
ZZ38006		0.64	19.6	760	39.2	11.0	<0.001	0.04	3.95	1.6	1.3	1.2	16.8	<0.01	0.12
ZZ38007		0.77	18.4	1660	96.5	14.5	0.001	0.18	5.81	2.0	3.6	3.2	40.4	<0.01	1.08
ZZ38008		0.71	26.6	1490	161.0	17.9	<0.001	0.11	6.19	2.4	2.5	3.7	36.9	<0.01	0.68
ZZ38009		0.88	24.5	1370	67.7	19.6	<0.001	0.09	4.89	2.8	2.1	3.1	32.7	<0.01	0.72
ZZ38010		0.56	11.9	670	41.9	10.7	<0.001	0.08	3.99	1.2	1.0	1.7	18.4	<0.01	0.27
ZZ38011		0.74	18.5	1350	559	14.8	<0.001	0.14	21.3	3.4	3.1	7.3	35.5	<0.01	0.30
ZZ38012		1.09	31.1	1490	87.5	13.8	<0.001	0.07	5.60	3.0	1.8	4.3	35.2	<0.01	0.21
ZZ38013		0.78	28.3	1100	57.9	15.9	0.001	0.08	4.68	2.1	2.1	8.5	23.0	0.01	0.46
ZZ38014		0.94	40.2	1080	129.5	17.0	<0.001	0.15	14.50	3.2	3.0	11.5	40.5	0.01	0.42
ZZ38015		0.31	12.0	670	23.1	7.6	<0.001	0.05	2.53	0.6	0.9	1.2	12.8	<0.01	0.04
ZZ38016		0.90	38.7	1520	178.0	19.5	0.001	0.08	10.85	2.9	2.0	9.4	37.1	0.01	0.30
ZZ38017		1.88	23.9	820	11.7	21.1	0.001	0.08	2.36	3.4	1.9	0.7	79.2	0.01	0.02
ZZ38018		1.61	37.5	720	18.7	17.9	0.001	0.03	4.68	3.1	1.1	1.2	33.0	<0.01	0.04
ZZ38019		1.21	33.5	1680	26.9	15.4	0.003	0.05	5.50	3.3	2.4	1.2	52.0	<0.01	0.06
ZZ38020		1.23	18.0	820	5.5	13.0	0.001	0.10	1.78	1.7	1.6	0.4	63.8	<0.01	0.02
ZZ38021		0.44	13.5	790	24.5	12.2	0.003	0.04	5.36	1.5	1.6	1.1	28.4	<0.01	0.03
ZZ38022		1.04	30.0	1200	45.4	15.3	0.005	0.06	7.41	2.8	2.7	1.0	43.5	<0.01	0.06
ZZ38023		0.78	38.3	950	32.0	13.8	0.012	0.06	5.19	2.5	3.4	1.2	34.9	<0.01	0.05
ZZ38024		0.56	24.8	810	33.5	8.9	0.005	0.05	11.80	1.4	1.8	1.5	25.1	<0.01	0.04
ZZ38025		0.59	32.9	890	29.2	9.0	0.004	0.04	9.03	1.3	2.3	1.1	30.6	<0.01	0.03
ZZ38026		1.06	55.9	1350	50.9	18.1	0.007	0.11	15.45	2.7	4.7	1.6	55.3	0.01	0.06
ZZ38027		0.56	69.8	2050	643	21.2	0.006	0.13	101.5	1.6	8.0	13.7	51.9	0.01	0.10
ZZ38028		0.62	25.2	800	15.6	21.7	0.001	0.03	3.65	1.8	1.2	0.5	24.6	<0.01	0.04
ZZ38029		0.62	24.1	1380	7.2	15.4	0.001	0.08	1.85	0.7	1.9	0.4	32.9	<0.01	0.03
ZZ38030		0.71	11.6	370	12.3	11.1	<0.001	0.04	0.78	0.9	0.8	0.4	18.4	<0.01	0.02
ZZ38032		1.53	23.0	620	25.4	23.0	<0.001	0.03	4.24	3.3	1.2	1.2	22.0	<0.01	0.06
ZZ38033		1.35	18.0	410	46.8	20.1	<0.001	0.02	1.30	2.2	0.5	1.0	22.2	<0.01	0.03
ZZ38034		1.19	15.4	380	133.0	14.2	<0.001	0.04	1.50	2.0	1.1	1.4	27.0	<0.01	0.04
ZZ38035		2.05	26.9	730	71.5	23.2	<0.001	0.05	2.40	3.7	1.3	1.1	51.0	0.01	0.04
ZZ38036		1.86	13.8	400	11.7	15.9	<0.001	0.02	1.47	3.2	0.9	0.7	53.8	0.01	0.03
ZZ38037		1.11	17.3	720	14.9	12.8	0.002	0.09	1.71	2.1	2.4	0.7	52.3	<0.01	0.03
ZZ38038		0.61	16.0	910	29.6	6.1	0.001	0.04	2.44	1.8	1.7	0.9	29.0	<0.01	0.03
ZZ38039		0.92	41.3	1460	151.5	14.4	0.001	0.06	8.06	3.1	1.9	5.5	52.1	0.01	0.05
ZZ38040		0.58	29.9	1100	20.8	11.8	0.001	0.02	3.33	4.2	1.4	1.0	43.5	<0.01	0.04
ZZ38041		0.40	15.4	520	25.9	7.8	0.002	0.04	2.39	1.4	1.4	0.9	25.2	<0.01	0.02



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ38001		0.028	0.21	1.35	44	0.11	10.95	125	1.8
ZZ38002		0.022	0.18	1.06	51	0.12	8.31	123	1.4
ZZ38003		0.015	0.20	1.23	50	0.14	10.65	131	1.7
ZZ38004		0.022	0.23	0.99	46	0.24	7.15	105	1.2
ZZ38005		0.019	0.20	1.98	48	0.28	5.58	126	<0.5
ZZ38006		0.034	0.21	1.16	64	0.34	5.54	103	<0.5
ZZ38007		0.031	0.28	4.72	65	0.80	12.20	167	0.6
ZZ38008		0.028	0.35	3.63	88	0.57	11.70	228	<0.5
ZZ38009		0.045	0.34	2.32	90	0.68	8.34	185	<0.5
ZZ38010		0.034	0.17	1.25	47	0.66	3.16	77	<0.5
ZZ38011		0.039	0.30	3.93	75	0.49	9.59	373	0.8
ZZ38012		0.057	0.35	3.09	150	0.56	8.35	180	<0.5
ZZ38013		0.035	0.27	3.08	76	0.81	8.15	249	0.5
ZZ38014		0.043	0.35	2.72	96	0.71	7.17	312	0.5
ZZ38015		0.017	0.16	1.19	45	0.19	3.70	63	<0.5
ZZ38016		0.040	0.35	2.32	94	1.05	8.48	457	<0.5
ZZ38017		0.066	0.12	1.47	37	0.18	9.70	133	1.8
ZZ38018		0.042	0.23	1.20	101	0.29	5.53	257	0.6
ZZ38019		0.034	0.27	2.68	108	0.81	9.06	252	2.3
ZZ38020		0.041	0.11	1.01	23	0.09	5.01	132	1.2
ZZ38021		0.015	0.14	1.02	52	0.09	3.78	134	0.5
ZZ38022		0.018	0.23	2.16	121	0.16	6.90	261	1.2
ZZ38023		0.013	0.24	3.44	102	0.12	10.20	338	1.8
ZZ38024		0.018	0.16	1.52	64	0.12	4.69	177	<0.5
ZZ38025		0.026	0.15	2.29	69	0.10	8.90	252	<0.5
ZZ38026		0.024	0.27	3.03	133	0.18	12.65	495	1.0
ZZ38027		0.012	0.51	4.93	128	0.17	14.00	806	1.6
ZZ38028		0.010	0.16	1.36	62	0.15	5.52	158	0.5
ZZ38029		0.018	0.18	2.37	49	0.16	4.37	99	<0.5
ZZ38030		0.022	0.10	0.57	22	0.10	2.61	26	<0.5
ZZ38032		0.049	0.31	1.14	104	0.24	4.88	86	1.2
ZZ38033		0.050	0.13	0.54	35	0.19	2.86	83	0.5
ZZ38034		0.039	0.14	0.64	34	0.16	3.90	89	0.5
ZZ38035		0.066	0.24	1.47	53	0.20	8.12	179	0.8
ZZ38036		0.061	0.12	0.72	29	0.18	5.23	53	1.5
ZZ38037		0.036	0.14	1.71	32	0.12	7.89	65	0.8
ZZ38038		0.029	0.17	2.27	45	0.15	11.15	98	<0.5
ZZ38039		0.037	0.20	2.49	68	0.35	10.60	348	0.8
ZZ38040		0.025	0.22	1.32	53	0.17	11.45	156	2.5
ZZ38041		0.020	0.11	1.37	28	0.19	5.29	85	0.5



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38042		0.16	0.003	1.08	1.24	48.7	<0.2	<10	250	0.44	0.23	0.53	0.68	19.60	7.1	18
ZZ38043		0.17	0.006	0.56	1.34	45.9	<0.2	<10	280	0.34	0.19	0.63	0.51	20.1	5.3	22
ZZ38044		0.13	0.004	0.80	0.31	15.1	<0.2	<10	50	0.09	0.07	0.09	0.15	9.30	1.0	6
ZZ38045		0.23	0.003	0.35	1.30	13.5	<0.2	<10	300	0.51	0.26	0.31	0.46	35.8	7.2	22
ZZ38046		0.17	0.004	0.23	0.65	11.9	<0.2	<10	200	0.19	0.14	0.84	0.50	16.80	3.4	11
ZZ38047		0.20	0.001	0.13	0.27	2.1	<0.2	<10	70	0.06	0.05	0.21	0.09	6.00	1.3	6
ZZ38048		0.15	0.003	0.21	0.55	8.2	<0.2	<10	310	0.24	0.04	2.10	2.06	6.09	4.3	5
ZZ38049		0.20	0.004	0.21	0.73	6.5	<0.2	<10	200	0.26	0.17	0.32	2.00	39.1	3.0	13
ZZ38050		0.11	0.005	0.10	0.49	10.0	<0.2	<10	160	0.17	0.07	2.18	0.71	7.13	1.9	5
ZZ38051		0.25	0.002	0.35	0.59	12.5	<0.2	<10	180	0.24	0.12	0.21	0.85	16.05	2.9	8
ZZ38052		0.12	0.003	0.23	0.99	28.2	<0.2	<10	150	0.31	0.38	0.07	0.44	19.15	3.5	15
ZZ38053		0.24	0.004	0.48	1.78	15.9	<0.2	<10	260	0.59	0.27	0.13	0.30	28.0	6.3	24
ZZ38054		0.28	0.004	0.41	1.56	21.5	<0.2	<10	180	0.65	0.38	0.22	0.19	29.1	7.5	23
ZZ38055		0.12	0.004	0.62	2.12	34.8	<0.2	<10	220	0.70	0.27	0.08	0.94	20.8	6.9	30
ZZ38056		0.24	0.003	0.40	1.15	12.6	<0.2	<10	130	0.32	0.28	0.09	0.30	19.00	2.5	16
ZZ38057		0.20	0.003	0.38	1.85	34.0	<0.2	<10	270	0.86	0.42	0.11	0.67	30.2	8.0	24
ZZ38058		0.21	0.002	0.36	0.75	18.7	<0.2	<10	210	0.22	0.17	0.59	1.76	16.90	2.8	11
ZZ38059		0.17	0.003	1.74	1.22	606	<0.2	<10	290	0.36	0.33	0.36	2.46	24.4	3.7	20
ZZ38060		0.24	0.001	0.26	0.52	43.1	<0.2	<10	100	0.15	0.11	0.49	0.88	8.09	1.8	5
ZZ38061		0.14	0.006	0.28	0.27	6.0	<0.2	<10	40	0.06	0.10	0.15	0.67	4.15	1.0	3
ZZ38062		0.16	0.002	0.65	1.00	40.1	<0.2	<10	190	0.26	0.46	0.42	0.67	17.85	2.5	14
ZZ38063		0.09	0.003	0.43	0.63	25.9	<0.2	<10	130	0.16	0.58	0.71	0.38	9.94	1.4	11
ZZ38064		0.26	0.006	0.72	1.55	33.9	<0.2	<10	300	0.65	0.21	0.64	3.87	26.5	9.0	24
ZZ38065		0.18	0.006	1.15	1.70	28.7	<0.2	<10	370	0.91	0.19	0.31	8.73	25.9	6.2	28
ZZ38066		0.18	0.006	1.63	1.71	24.8	<0.2	<10	350	0.73	0.20	0.47	4.81	24.3	6.6	23
ZZ38067		0.20	0.007	2.90	1.32	40.7	<0.2	<10	220	0.65	0.18	0.85	6.69	22.4	5.2	18
ZZ38068		0.15	0.005	1.06	1.02	16.8	<0.2	<10	150	0.29	0.09	0.95	3.39	14.55	3.5	14
ZZ38069		0.20	0.008	2.58	1.35	99.0	<0.2	<10	190	0.41	0.11	0.80	6.34	17.45	8.7	15
ZZ38070		0.26	0.004	0.27	1.28	11.8	<0.2	<10	310	0.51	0.17	0.31	0.65	31.4	5.8	17
ZZ38071		0.19	0.004	0.43	0.87	6.6	<0.2	<10	150	0.50	0.08	1.23	3.07	11.85	2.9	7
ZZ38072		0.15	0.002	0.14	0.47	4.1	<0.2	<10	170	0.20	0.05	0.67	0.44	9.46	3.4	5
ZZ38073		0.29	0.006	0.13	1.27	15.3	<0.2	<10	280	0.55	0.26	0.40	0.56	38.4	5.9	19
ZZ38074		0.18	0.002	0.15	0.83	5.1	<0.2	<10	160	0.35	0.17	0.17	0.64	13.20	4.1	11
ZZ38075		0.11	0.003	0.08	1.21	9.5	<0.2	<10	150	0.53	0.16	0.12	0.30	19.85	3.6	16
ZZ38076		0.13	0.001	0.05	0.76	5.3	<0.2	<10	120	0.24	0.11	0.11	0.24	15.35	3.4	8
ZZ38077		0.13	0.006	0.07	0.41	1.2	<0.2	<10	60	0.20	0.04	0.29	0.11	6.25	0.8	3
ZZ38078		0.28	0.006	0.28	1.07	10.2	<0.2	<10	280	0.48	0.18	0.57	0.73	32.7	6.1	17
ZZ38079		0.17	0.003	0.31	1.26	11.6	<0.2	<10	300	0.47	0.17	0.43	0.63	24.1	6.4	15
ZZ38080		0.16	0.003	0.05	0.84	16.4	<0.2	<10	150	0.35	0.10	0.11	0.15	33.6	3.4	9
ZZ38081		0.16	0.014	0.17	1.44	18.8	<0.2	<10	300	0.64	0.20	0.25	0.24	32.3	7.4	18



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38042		1.63	42.2	1.64	4.68	0.05	0.03	0.07	0.036	0.04	10.3	11.0	0.34	278	2.39
ZZ38043		1.90	26.4	1.66	5.35	0.06	0.02	0.06	0.031	0.05	11.0	12.4	0.47	94	3.63
ZZ38044		1.00	8.2	0.50	2.10	<0.05	<0.02	0.05	0.007	0.03	5.1	1.2	0.04	20	3.50
ZZ38045		1.43	25.9	1.81	4.49	0.08	0.03	0.15	0.027	0.07	18.9	16.2	0.38	173	2.83
ZZ38046		0.72	11.5	1.05	2.88	<0.05	0.03	0.07	0.010	0.04	8.9	5.1	0.14	104	0.50
ZZ38047		0.55	6.0	0.62	1.78	<0.05	<0.02	0.03	<0.005	0.02	3.2	1.4	0.05	25	0.85
ZZ38048		0.28	33.5	0.90	1.20	0.09	0.06	0.06	<0.005	0.02	2.9	0.3	0.04	69	10.60
ZZ38049		1.69	55.8	0.93	3.32	0.08	0.02	0.08	0.011	0.04	18.1	5.1	0.13	37	1.17
ZZ38050		0.59	13.6	0.59	1.27	<0.05	0.04	0.06	0.005	0.02	3.7	1.3	0.06	226	0.35
ZZ38051		1.03	20.1	1.01	1.98	<0.05	<0.02	0.04	0.012	0.03	7.6	4.4	0.12	87	2.30
ZZ38052		1.07	9.0	1.94	4.49	<0.05	0.02	0.02	0.017	0.04	9.6	8.8	0.16	114	2.81
ZZ38053		1.30	15.9	2.41	4.65	0.05	0.06	0.07	0.024	0.04	15.2	14.2	0.35	189	2.70
ZZ38054		1.65	25.9	2.43	4.19	0.06	0.07	0.08	0.027	0.05	15.7	15.5	0.42	209	5.55
ZZ38055		2.32	17.4	3.14	6.71	<0.05	0.09	0.04	0.035	0.06	10.6	24.1	0.31	161	2.59
ZZ38056		1.29	7.7	1.89	4.97	<0.05	0.06	0.05	0.014	0.03	9.3	9.3	0.18	106	1.52
ZZ38057		1.65	17.4	2.48	4.29	0.05	0.07	0.06	0.029	0.06	15.8	16.2	0.35	207	2.00
ZZ38058		1.30	18.9	1.15	3.19	<0.05	0.02	0.04	0.016	0.04	8.4	7.5	0.14	88	0.84
ZZ38059		1.66	31.9	2.10	5.27	<0.05	<0.02	0.06	0.040	0.05	13.4	10.8	0.28	184	2.30
ZZ38060		0.96	17.7	0.73	2.27	<0.05	0.04	0.05	0.008	0.02	4.2	2.7	0.08	54	2.00
ZZ38061		0.20	5.8	0.58	1.08	<0.05	<0.02	0.04	0.008	0.02	2.1	0.6	0.03	20	0.98
ZZ38062		1.37	13.4	1.68	3.34	<0.05	<0.02	0.09	0.025	0.06	8.9	7.8	0.22	60	2.82
ZZ38063		0.65	19.2	0.86	2.50	<0.05	0.02	0.06	0.024	0.03	5.4	3.5	0.13	37	0.78
ZZ38064		2.20	46.8	2.33	4.57	0.08	0.02	0.10	0.056	0.12	14.4	15.2	0.62	258	7.68
ZZ38065		3.62	115.5	2.35	4.80	0.06	0.02	0.09	0.054	0.11	15.8	16.2	0.59	233	7.59
ZZ38066		3.02	68.8	2.09	4.74	0.07	0.06	0.21	0.038	0.09	13.0	17.6	0.64	337	7.24
ZZ38067		2.43	64.9	1.67	3.59	0.06	0.07	0.64	0.032	0.08	12.4	9.2	0.64	402	9.71
ZZ38068		1.66	19.4	1.25	2.86	0.05	0.05	0.29	0.016	0.07	7.5	6.8	0.54	171	2.37
ZZ38069		1.98	41.6	2.45	3.61	0.07	0.05	0.70	0.035	0.07	9.1	8.3	0.62	493	11.85
ZZ38070		1.56	20.9	2.12	3.95	<0.05	0.04	0.07	0.022	0.06	16.0	15.7	0.33	261	1.54
ZZ38071		1.37	32.6	0.97	2.22	<0.05	0.03	0.09	0.010	0.05	8.5	5.4	0.15	511	1.22
ZZ38072		0.44	10.9	0.94	1.51	<0.05	0.03	0.04	0.008	0.03	4.8	3.6	0.12	348	0.57
ZZ38073		1.27	23.7	2.12	3.60	0.05	0.04	0.09	0.022	0.06	20.6	19.8	0.53	264	2.06
ZZ38074		0.80	13.6	1.45	3.73	<0.05	<0.02	0.02	0.012	0.04	6.5	5.2	0.12	312	0.90
ZZ38075		2.16	9.5	2.01	3.93	<0.05	0.02	0.04	0.015	0.05	9.7	14.0	0.22	155	1.38
ZZ38076		1.54	7.5	1.21	2.69	<0.05	<0.02	0.03	0.013	0.03	7.7	8.0	0.12	238	0.73
ZZ38077		1.42	5.8	0.44	1.56	<0.05	<0.02	0.03	0.007	0.03	3.4	2.8	0.03	32	0.38
ZZ38078		1.14	19.0	1.95	3.48	0.07	0.06	0.08	0.021	0.06	18.3	16.6	0.50	676	2.17
ZZ38079		1.56	14.9	1.81	3.82	<0.05	0.06	0.09	0.018	0.05	13.1	16.4	0.39	684	1.71
ZZ38080		1.58	11.3	1.83	2.94	0.06	0.04	0.04	0.015	0.05	18.6	13.3	0.25	260	1.38
ZZ38081		3.46	13.1	2.43	4.97	0.05	0.05	0.05	0.028	0.08	18.4	23.8	0.42	423	1.43



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38042		0.78	17.2	1090	80.0	10.3	0.002	0.07	3.19	1.8	2.0	2.2	35.8	<0.01	0.04	0.9
ZZ38043		0.98	22.6	1000	49.7	9.4	0.003	0.05	1.97	2.4	2.2	1.4	41.1	<0.01	0.03	1.6
ZZ38044		0.14	3.0	580	11.4	4.8	0.001	0.04	0.97	0.2	5.7	1.2	15.0	<0.01	0.03	<0.2
ZZ38045		1.13	18.9	860	18.6	11.7	0.004	0.02	3.43	3.9	8.2	1.0	27.4	<0.01	0.04	4.5
ZZ38046		0.67	8.7	680	10.0	7.3	0.001	0.07	1.01	1.7	1.7	0.6	35.0	<0.01	0.02	1.4
ZZ38047		0.25	3.1	270	2.2	3.3	0.001	0.03	0.68	0.5	1.7	0.3	13.9	<0.01	0.01	<0.2
ZZ38048		0.31	18.4	630	2.2	1.8	0.009	0.22	3.98	1.4	23.0	0.8	72.9	<0.01	0.02	0.6
ZZ38049		0.82	17.3	590	7.6	9.8	0.003	0.06	0.94	1.8	10.0	0.6	18.9	0.01	0.02	0.6
ZZ38050		0.37	6.0	720	4.4	2.2	0.002	0.16	1.31	0.7	3.9	0.3	54.1	<0.01	<0.01	0.3
ZZ38051		0.44	10.6	470	12.4	6.0	<0.001	0.02	2.03	1.1	1.4	0.5	16.7	<0.01	<0.01	0.5
ZZ38052		1.28	13.0	470	18.9	7.1	0.001	0.01	2.84	1.4	0.6	1.1	11.9	<0.01	0.03	2.4
ZZ38053		1.38	16.3	440	14.3	7.5	<0.001	0.01	2.61	2.7	1.2	1.0	11.7	<0.01	0.01	4.3
ZZ38054		1.45	22.7	840	14.3	8.6	0.001	0.01	3.86	3.1	1.3	0.9	22.9	<0.01	0.03	4.5
ZZ38055		1.49	27.6	360	26.6	14.2	<0.001	0.02	3.26	2.8	0.7	1.5	11.6	<0.01	0.05	3.5
ZZ38056		1.27	7.4	210	11.3	9.3	<0.001	<0.01	0.66	1.7	0.5	0.8	11.8	<0.01	0.01	2.8
ZZ38057		1.03	27.4	430	26.6	10.8	<0.001	0.02	3.01	3.1	0.9	1.4	15.1	<0.01	0.03	4.8
ZZ38058		0.69	12.0	530	20.3	8.0	0.001	0.04	1.56	1.3	0.8	1.3	37.3	<0.01	0.02	1.3
ZZ38059		0.93	13.5	400	178.5	10.8	<0.001	0.02	4.05	1.9	1.3	5.8	23.1	<0.01	0.05	1.7
ZZ38060		0.39	16.4	830	9.6	2.7	0.007	0.06	2.32	0.6	4.3	0.5	25.0	<0.01	<0.01	0.4
ZZ38061		0.25	2.9	470	17.9	1.5	0.003	0.03	0.48	0.3	3.9	0.4	10.6	<0.01	<0.01	<0.2
ZZ38062		0.63	11.9	770	29.5	9.0	0.001	0.04	2.17	0.8	1.7	1.1	24.1	<0.01	0.01	0.5
ZZ38063		0.59	7.6	670	13.8	5.8	0.001	0.06	0.76	1.0	1.9	0.7	32.4	<0.01	<0.01	0.6
ZZ38064		0.84	49.7	1220	54.3	15.7	0.003	0.08	19.40	2.0	3.3	1.7	52.3	<0.01	0.04	0.7
ZZ38065		0.54	53.4	2080	58.3	16.6	0.002	0.12	9.51	0.5	2.7	1.8	65.1	<0.01	0.07	0.2
ZZ38066		0.61	51.0	1900	114.0	16.5	0.006	0.08	17.40	1.6	2.3	2.3	44.5	<0.01	0.04	0.8
ZZ38067		0.54	62.8	1390	173.0	15.1	0.008	0.08	66.9	1.4	5.8	9.4	35.0	<0.01	0.04	0.8
ZZ38068		0.48	31.7	920	48.6	11.9	0.009	0.07	24.7	1.1	3.6	4.3	29.9	<0.01	0.03	0.8
ZZ38069		0.54	43.7	1200	134.5	12.1	0.017	0.09	85.3	1.3	6.8	10.7	33.7	<0.01	0.04	0.7
ZZ38070		0.83	16.7	520	14.4	9.2	<0.001	0.01	1.51	2.9	0.5	0.8	16.7	<0.01	0.02	3.0
ZZ38071		0.40	19.0	640	11.1	6.8	0.001	0.06	1.35	1.4	1.4	0.3	35.7	<0.01	0.01	0.5
ZZ38072		0.28	6.1	450	5.2	2.6	<0.001	0.04	0.84	1.0	0.5	0.3	31.1	<0.01	0.01	0.6
ZZ38073		0.63	19.0	750	22.8	6.7	0.001	0.01	1.89	3.2	1.2	0.7	26.1	<0.01	0.02	4.4
ZZ38074		0.81	6.3	270	10.2	5.8	<0.001	0.01	0.41	1.1	<0.2	0.7	14.7	<0.01	<0.01	0.8
ZZ38075		1.01	11.6	460	21.3	10.2	<0.001	0.02	0.81	1.5	<0.2	0.7	11.5	<0.01	0.02	1.3
ZZ38076		0.52	5.7	370	19.6	7.1	<0.001	0.01	0.59	1.0	<0.2	0.4	8.8	<0.01	<0.01	1.1
ZZ38077		0.26	2.1	450	4.2	4.1	0.001	0.03	0.22	0.2	<0.2	0.4	15.5	<0.01	0.02	<0.2
ZZ38078		0.70	16.0	980	24.5	6.1	0.002	0.02	1.99	3.1	0.7	0.7	31.3	<0.01	0.06	3.3
ZZ38079		0.56	12.7	750	24.1	11.1	0.001	0.04	1.25	2.1	0.8	0.5	26.7	<0.01	0.01	1.7
ZZ38080		0.49	8.5	490	24.1	7.2	<0.001	0.01	2.34	1.4	0.2	0.6	12.4	<0.01	0.02	4.3
ZZ38081		0.90	14.4	440	34.6	12.8	<0.001	0.01	1.85	2.8	0.6	1.2	30.0	<0.01	0.01	4.4



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ38042		0.021	0.19	1.95	66	0.19	6.10	139	0.7
ZZ38043		0.027	0.21	1.53	64	0.29	5.27	167	0.6
ZZ38044		<0.005	0.15	0.83	12	0.09	1.26	12	<0.5
ZZ38045		0.026	0.18	2.01	49	0.30	8.99	101	0.7
ZZ38046		0.020	0.09	1.12	24	0.14	3.98	54	1.0
ZZ38047		0.024	0.06	0.41	18	<0.05	1.19	12	<0.5
ZZ38048		0.016	0.03	1.39	10	0.06	3.12	49	2.5
ZZ38049		0.021	0.18	1.91	14	0.51	9.20	51	<0.5
ZZ38050		0.016	0.04	2.13	10	<0.05	2.98	33	1.3
ZZ38051		0.024	0.16	1.34	27	0.08	4.87	56	<0.5
ZZ38052		0.041	0.11	0.58	56	0.24	2.23	86	0.7
ZZ38053		0.030	0.13	1.12	46	0.34	5.24	78	1.8
ZZ38054		0.045	0.16	1.47	50	0.33	6.40	81	1.7
ZZ38055		0.027	0.20	0.70	102	0.27	3.50	181	3.4
ZZ38056		0.024	0.12	0.44	52	0.26	2.04	46	1.6
ZZ38057		0.022	0.18	0.92	60	0.28	5.69	142	2.2
ZZ38058		0.025	0.08	0.77	31	0.34	3.02	90	0.8
ZZ38059		0.025	0.21	1.06	55	0.18	4.18	551	<0.5
ZZ38060		0.028	0.07	1.77	25	0.07	2.29	83	1.2
ZZ38061		0.020	0.04	0.23	12	<0.05	0.97	10	<0.5
ZZ38062		0.015	0.15	0.76	38	0.15	3.30	76	<0.5
ZZ38063		0.023	0.08	0.75	25	0.13	2.59	43	0.9
ZZ38064		0.028	0.25	2.76	125	0.14	10.25	420	0.6
ZZ38065		0.012	0.32	4.91	150	0.16	9.17	465	<0.5
ZZ38066		0.017	0.34	4.17	133	0.16	11.00	581	1.5
ZZ38067		0.019	0.36	6.90	105	0.12	13.25	784	1.8
ZZ38068		0.028	0.20	1.72	73	0.06	5.20	504	1.2
ZZ38069		0.023	0.33	4.37	121	0.08	8.15	632	1.6
ZZ38070		0.016	0.09	1.35	34	0.20	7.96	89	0.9
ZZ38071		0.016	0.08	1.98	19	0.07	10.05	143	0.9
ZZ38072		0.020	0.04	0.42	20	<0.05	3.42	40	0.8
ZZ38073		0.015	0.08	1.55	39	0.10	9.47	124	1.3
ZZ38074		0.023	0.07	0.39	34	0.25	2.30	50	<0.5
ZZ38075		0.022	0.09	0.66	39	0.46	3.50	65	<0.5
ZZ38076		0.011	0.08	0.74	23	0.09	3.09	68	<0.5
ZZ38077		0.011	0.03	0.90	9	<0.05	1.75	16	<0.5
ZZ38078		0.020	0.07	1.80	35	0.11	8.78	119	2.3
ZZ38079		0.011	0.12	1.38	33	0.08	5.62	132	1.4
ZZ38080		0.008	0.08	0.65	24	0.10	5.37	73	1.2
ZZ38081		0.015	0.13	0.70	37	0.19	6.24	97	1.4



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38082		0.17	0.002	0.29	1.20	7.2	<0.2	<10	200	0.40	0.14	0.38	0.37	23.5	4.4	13
ZZ38083		0.16	0.001	0.05	0.13	0.3	<0.2	<10	10	<0.05	0.01	0.03	0.03	0.50	0.9	2
ZZ38084		0.19	0.021	6.94	1.59	3410	<0.2	<10	230	0.48	40.0	0.23	0.78	33.6	5.3	19
ZZ38085		0.18	0.006	1.06	0.94	229	<0.2	<10	80	0.29	1.47	0.21	0.35	21.3	3.4	15
ZZ38086		0.15	0.009	0.08	0.82	29.6	<0.2	<10	60	0.19	0.54	0.07	0.16	11.55	2.3	8
ZZ38087		0.21	0.003	0.34	1.39	87.2	<0.2	<10	110	0.39	1.01	0.14	0.33	26.1	5.4	17
ZZ38088		0.11	0.009	0.51	2.85	138.5	<0.2	<10	100	0.73	4.39	0.20	0.66	26.5	7.6	25
ZZ38089		0.17	0.005	1.79	1.46	70.6	<0.2	<10	180	0.53	0.55	0.13	1.27	22.7	4.3	20
ZZ38090		0.23	0.003	0.70	1.25	73.4	<0.2	<10	160	0.46	1.13	0.15	0.76	21.4	5.9	18
ZZ38091		0.16	0.003	0.17	0.71	14.2	<0.2	<10	180	0.26	0.32	0.13	1.01	19.60	2.4	13
ZZ38092		0.18	0.003	0.29	1.15	45.7	<0.2	<10	210	0.33	0.52	0.14	0.74	17.80	2.8	20
ZZ38093		0.12	0.017	3.65	2.33	1345	<0.2	<10	300	1.09	5.51	0.26	1.17	29.8	9.8	38
ZZ38094		0.15	0.003	0.43	1.26	44.1	<0.2	<10	210	0.45	0.30	0.20	0.45	17.35	3.9	18
ZZ38095		0.11	0.010	0.21	0.86	18.5	<0.2	<10	80	0.29	0.25	0.06	0.20	8.07	1.8	9
ZZ38096		0.23	0.008	0.80	1.61	140.5	<0.2	<10	530	0.93	0.69	0.40	1.35	34.5	6.0	23
ZZ38097		0.18	0.003	0.11	0.93	21.5	<0.2	<10	120	0.30	0.31	0.08	0.27	18.75	3.1	16
ZZ38098		0.24	0.005	0.76	1.68	266	<0.2	<10	150	0.49	0.33	0.12	1.50	22.5	3.9	22
ZZ38099		0.21	0.007	0.52	1.69	740	<0.2	<10	190	0.61	4.38	0.13	0.48	20.4	5.7	27
ZZ38100		0.18	0.003	0.11	1.07	32.0	<0.2	<10	100	0.23	0.34	0.09	0.24	22.6	3.2	17
ZZ38101		0.18	0.005	0.11	0.74	54.8	<0.2	<10	70	0.21	0.52	0.08	0.15	17.35	1.5	9
ZZ38102		0.19	0.003	0.11	1.86	32.5	<0.2	<10	160	0.56	0.40	0.10	0.28	24.1	4.5	21
ZZ38103		0.17	0.004	1.39	1.24	1270	<0.2	<10	170	0.43	7.33	0.11	0.69	21.6	3.6	16
ZZ38104		0.17	0.003	0.54	1.04	154.0	<0.2	<10	90	0.27	1.14	0.14	0.12	14.55	2.4	10
ZZ38105		0.10	0.003	0.14	1.42	50.6	<0.2	<10	100	0.52	0.61	0.13	0.31	19.15	3.3	15
ZZ38106		0.14	0.002	0.10	0.58	30.1	<0.2	<10	50	0.14	0.23	0.11	0.04	9.04	1.3	4
ZZ38107		0.17	0.004	0.33	1.24	220	<0.2	<10	100	0.35	1.97	0.17	0.18	23.5	5.9	16
ZZ38108		0.17	0.009	0.17	0.96	214	<0.2	<10	100	0.25	3.17	0.13	0.65	20.3	3.1	13
ZZ38109		0.11	0.002	0.19	0.52	3.4	<0.2	<10	40	0.11	0.09	0.07	0.06	3.03	0.8	2
ZZ38110		0.15	0.006	0.33	1.84	72.7	<0.2	<10	140	0.66	1.78	0.11	0.82	27.9	6.2	24
ZZ38111		0.12	0.018	3.17	1.61	3280	<0.2	<10	200	0.47	47.5	0.21	0.64	37.5	4.8	13
ZZ38112		0.16	0.002	0.14	1.03	42.3	<0.2	<10	80	0.28	1.06	0.09	0.24	16.20	2.8	11
ZZ38113		0.14	0.006	0.26	1.65	106.5	<0.2	<10	110	0.85	1.02	0.27	0.32	36.8	5.9	22
ZZ38114		0.14	0.004	0.22	1.64	131.5	<0.2	<10	120	0.44	0.87	0.16	0.32	26.6	5.7	20
ZZ38115		0.13	0.003	0.10	1.74	26.2	<0.2	<10	130	0.59	0.34	0.10	1.20	21.2	4.6	28
ZZ38116		0.14	0.002	0.12	1.21	39.9	<0.2	<10	120	0.36	0.39	0.13	0.73	22.9	4.1	20
ZZ38117		0.14	0.003	0.30	0.97	131.0	<0.2	<10	70	0.36	0.75	0.17	0.42	21.1	4.6	12
ZZ38118		0.11	0.002	0.24	0.97	36.6	<0.2	<10	150	0.33	0.25	0.11	0.71	17.60	3.0	14
ZZ38119		0.16	0.005	1.36	1.29	87.0	<0.2	<10	280	0.40	0.28	0.15	1.63	12.20	2.7	11
ZZ38121		0.13	0.002	0.49	0.91	17.0	<0.2	<10	110	0.30	0.14	0.11	0.73	7.74	1.5	7
ZZ38122		0.23	0.008	1.47	1.63	259	<0.2	<10	420	0.78	4.65	0.36	0.30	31.2	7.5	23



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CERTIFICATE OF ANALYSIS WH12189038

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38082		2.40	11.4	1.49	3.73	<0.05	0.02	0.10	0.021	0.06	12.1	12.4	0.22	203	0.79
ZZ38083		<0.05	2.0	0.46	0.79	<0.05	<0.02	0.03	<0.005	0.01	0.3	0.2	0.01	19	0.11
ZZ38084		2.85	192.0	3.36	5.16	0.06	0.02	0.10	0.227	0.13	19.1	12.3	0.36	233	12.70
ZZ38085		2.53	77.7	1.64	4.82	0.08	<0.02	0.04	0.072	0.05	10.7	11.2	0.24	100	5.95
ZZ38086		1.93	12.7	1.75	5.08	<0.05	<0.02	0.04	0.010	0.03	5.6	6.1	0.10	104	2.35
ZZ38087		2.27	51.0	2.18	4.79	<0.05	0.02	0.07	0.026	0.04	13.9	10.8	0.28	182	1.73
ZZ38088		2.59	51.2	3.05	6.47	<0.05	0.10	0.19	0.044	0.08	13.3	20.0	0.41	249	2.54
ZZ38089		1.99	31.5	2.17	5.18	<0.05	<0.02	0.10	0.044	0.05	12.3	13.0	0.23	147	6.90
ZZ38090		1.91	50.9	2.06	4.37	<0.05	0.02	0.09	0.044	0.05	11.6	11.2	0.27	159	3.05
ZZ38091		1.09	12.5	1.35	5.47	<0.05	<0.02	0.08	0.016	0.04	10.9	3.5	0.11	76	1.75
ZZ38092		1.70	19.7	2.06	6.27	<0.05	<0.02	0.06	0.033	0.06	10.1	13.3	0.24	95	1.97
ZZ38093		2.77	52.4	2.79	6.89	<0.05	0.03	0.08	0.113	0.06	15.0	25.8	0.60	309	2.60
ZZ38094		1.54	31.0	1.34	3.98	<0.05	<0.02	0.04	0.028	0.05	9.5	12.0	0.42	119	1.19
ZZ38095		1.07	19.5	1.13	2.81	<0.05	<0.02	0.06	0.018	0.03	4.5	4.2	0.12	48	1.77
ZZ38096		2.11	46.9	2.47	4.38	0.07	0.07	0.13	0.087	0.12	20.1	13.9	0.47	267	3.04
ZZ38097		1.25	9.4	2.03	5.74	<0.05	<0.02	0.07	0.017	0.05	10.4	9.0	0.16	106	1.88
ZZ38098		2.21	99.9	2.49	5.13	<0.05	<0.02	0.09	0.029	0.05	11.6	15.5	0.28	133	5.81
ZZ38099		2.07	34.2	2.90	5.89	<0.05	0.03	0.08	0.037	0.05	10.7	20.5	0.47	173	3.10
ZZ38100		1.48	12.9	1.75	5.56	<0.05	<0.02	0.05	0.016	0.03	11.6	6.5	0.18	114	1.48
ZZ38101		1.31	22.8	1.15	4.86	<0.05	<0.02	0.03	0.009	0.03	9.7	2.4	0.07	49	3.33
ZZ38102		2.75	19.2	2.55	6.61	<0.05	0.02	0.08	0.026	0.05	12.8	14.3	0.26	118	6.79
ZZ38103		1.65	61.3	2.26	4.38	<0.05	<0.02	0.04	0.090	0.07	11.2	9.9	0.24	132	3.11
ZZ38104		1.32	17.8	1.51	4.24	<0.05	<0.02	0.04	0.014	0.04	7.1	6.2	0.13	81	4.65
ZZ38105		1.74	26.4	1.82	4.85	<0.05	<0.02	0.05	0.019	0.04	10.2	9.4	0.16	124	3.03
ZZ38106		0.38	20.6	0.53	1.48	<0.05	0.02	0.02	<0.005	0.06	4.2	1.3	0.04	41	0.45
ZZ38107		2.03	64.1	2.26	4.83	<0.05	<0.02	0.06	0.034	0.04	12.7	9.2	0.27	323	2.67
ZZ38108		2.21	32.1	1.76	5.03	<0.05	<0.02	0.05	0.028	0.05	10.7	4.8	0.19	149	3.48
ZZ38109		0.11	9.9	0.36	1.18	<0.05	0.02	0.03	<0.005	0.04	1.6	0.5	0.02	18	0.18
ZZ38110		3.68	50.0	2.82	6.29	<0.05	<0.02	0.06	0.040	0.07	15.7	14.4	0.34	251	5.04
ZZ38111		2.93	291	3.19	5.06	0.05	0.03	0.11	0.196	0.09	21.0	9.1	0.33	277	5.09
ZZ38112		1.48	16.4	1.48	4.01	<0.05	<0.02	0.06	0.017	0.04	8.3	7.6	0.15	89	2.64
ZZ38113		4.00	56.5	2.43	6.44	0.05	<0.02	0.05	0.029	0.05	25.5	18.3	0.37	229	10.55
ZZ38114		3.00	37.5	2.42	6.18	<0.05	<0.02	0.05	0.033	0.05	14.7	16.2	0.37	204	8.11
ZZ38115		2.19	16.6	2.85	6.09	<0.05	0.11	0.05	0.026	0.05	11.5	20.9	0.31	165	1.81
ZZ38116		2.61	25.5	2.48	7.35	0.05	<0.02	0.02	0.022	0.04	12.0	13.7	0.29	140	2.90
ZZ38117		2.00	47.3	1.39	4.19	<0.05	<0.02	0.03	0.022	0.02	7.7	6.6	0.15	122	3.82
ZZ38118		1.21	19.6	1.47	4.50	<0.05	<0.02	0.03	0.016	0.04	9.3	6.9	0.14	87	1.61
ZZ38119		1.95	44.1	1.67	3.82	<0.05	0.02	0.18	0.035	0.05	6.7	5.8	0.16	77	4.77
ZZ38121		1.05	28.0	0.92	2.76	<0.05	0.02	0.06	0.015	0.03	4.0	2.7	0.07	48	1.22
ZZ38122		2.38	46.5	2.74	5.21	0.05	0.05	0.15	0.132	0.09	18.3	15.5	0.44	379	5.02



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38082		0.62	9.3	560	25.0	12.3	0.001	0.02	0.77	1.7	0.5	0.6	18.5	<0.01	<0.01	1.2
ZZ38083		0.17	0.9	110	0.5	0.4	<0.001	0.01	<0.05	0.1	<0.2	0.2	6.3	<0.01	<0.01	<0.2
ZZ38084		0.81	16.2	1020	538	16.6	<0.001	0.24	273	2.3	4.0	11.4	34.3	<0.01	0.11	1.1
ZZ38085		0.67	10.0	620	50.0	13.9	0.001	0.04	5.84	1.3	0.8	2.6	14.4	<0.01	0.04	0.3
ZZ38086		0.90	6.2	310	8.4	6.9	<0.001	0.02	0.81	1.2	0.5	3.6	8.3	<0.01	0.02	1.0
ZZ38087		0.77	14.5	530	19.3	7.8	<0.001	0.02	2.49	2.1	0.7	1.9	14.1	<0.01	0.02	1.4
ZZ38088		1.46	31.0	830	25.2	14.8	<0.001	0.07	3.80	3.4	1.9	1.0	25.9	<0.01	0.12	3.2
ZZ38089		0.31	13.8	980	80.1	7.7	0.001	0.05	4.69	0.5	3.3	2.0	22.3	<0.01	0.08	0.2
ZZ38090		0.49	27.6	1010	56.0	8.6	<0.001	0.04	15.45	1.3	2.1	1.3	20.5	<0.01	0.05	0.6
ZZ38091		0.51	9.9	280	16.4	8.8	<0.001	0.02	1.26	0.8	0.9	1.1	13.7	<0.01	0.03	0.2
ZZ38092		0.74	14.3	370	41.2	10.4	<0.001	0.02	2.43	1.5	1.3	1.2	16.1	<0.01	0.06	0.7
ZZ38093		0.65	41.8	710	134.5	12.6	0.001	0.04	5.92	2.9	3.4	3.0	19.5	<0.01	0.25	2.1
ZZ38094		0.36	19.9	650	41.1	7.0	<0.001	0.02	2.80	1.0	1.1	1.0	27.6	<0.01	0.04	0.4
ZZ38095		0.15	7.7	610	19.8	4.5	<0.001	0.05	1.48	0.2	0.8	0.8	8.8	<0.01	0.03	<0.2
ZZ38096		0.41	36.9	1370	112.5	10.8	0.001	0.03	8.89	4.0	1.9	2.3	40.3	<0.01	0.07	5.6
ZZ38097		0.83	11.2	350	17.4	9.9	<0.001	0.02	1.51	1.4	0.7	1.0	9.9	<0.01	0.04	1.0
ZZ38098		0.75	27.0	560	36.3	7.6	0.001	0.03	11.00	1.6	2.8	0.8	14.1	<0.01	0.04	0.6
ZZ38099		1.10	25.3	470	27.0	8.0	0.001	0.03	4.90	2.5	1.0	2.5	23.3	<0.01	0.05	2.7
ZZ38100		0.57	9.9	440	10.7	6.5	<0.001	0.02	0.96	1.0	0.6	0.9	10.0	<0.01	0.03	0.4
ZZ38101		0.45	4.4	310	6.6	5.8	<0.001	0.02	0.52	0.7	<0.2	2.0	8.8	<0.01	0.03	0.2
ZZ38102		1.30	13.1	310	12.0	9.4	<0.001	0.02	1.12	2.9	0.6	2.4	10.3	<0.01	0.02	2.8
ZZ38103		0.41	15.2	750	78.5	10.2	<0.001	0.07	35.6	0.8	1.4	5.8	21.1	<0.01	0.06	0.3
ZZ38104		0.56	6.1	420	17.5	7.7	<0.001	0.02	1.78	0.9	<0.2	1.0	12.9	<0.01	0.02	0.3
ZZ38105		0.59	9.3	650	19.8	7.1	<0.001	0.04	1.11	0.9	0.7	1.5	11.1	<0.01	0.03	0.3
ZZ38106		0.22	2.2	370	2.2	2.3	<0.001	0.02	0.37	0.4	<0.2	0.4	11.9	<0.01	<0.01	<0.2
ZZ38107		0.30	11.2	840	15.1	9.5	<0.001	0.04	3.52	1.2	0.8	1.5	15.5	<0.01	0.03	0.3
ZZ38108		0.55	8.4	640	13.8	9.7	<0.001	0.04	3.57	1.0	0.7	2.6	14.9	<0.01	0.05	0.3
ZZ38109		0.10	1.6	300	1.1	1.1	<0.001	0.02	0.13	0.1	<0.2	0.2	9.5	<0.01	<0.01	<0.2
ZZ38110		0.91	19.3	550	17.1	16.3	<0.001	0.05	1.76	1.8	1.0	3.3	12.6	<0.01	0.11	0.6
ZZ38111		0.47	11.7	1010	104.0	13.6	0.001	0.15	117.0	1.7	2.4	53.4	32.4	<0.01	0.07	1.0
ZZ38112		0.40	7.7	360	9.0	5.1	<0.001	0.03	1.19	0.8	0.5	1.4	9.0	<0.01	0.05	<0.2
ZZ38113		0.97	13.8	410	12.0	12.3	<0.001	0.03	1.06	3.1	1.2	1.4	15.4	<0.01	0.07	1.3
ZZ38114		0.97	13.5	400	11.6	10.2	<0.001	0.03	0.87	2.9	0.7	1.1	12.6	<0.01	0.04	1.8
ZZ38115		1.58	18.7	400	12.8	11.5	<0.001	0.02	1.14	2.8	0.9	1.0	8.8	<0.01	0.03	3.5
ZZ38116		1.21	16.9	230	10.9	10.8	<0.001	0.01	1.48	2.1	1.2	1.2	12.3	<0.01	0.05	2.5
ZZ38117		0.23	10.8	790	28.7	5.0	0.003	0.07	3.71	0.7	1.3	0.6	13.8	<0.01	<0.01	0.2
ZZ38118		0.61	11.7	590	14.9	5.5	<0.001	0.02	1.32	1.2	0.6	1.0	12.2	<0.01	0.03	0.8
ZZ38119		0.35	36.0	720	40.5	7.2	0.007	0.04	4.69	1.7	2.4	1.3	20.3	<0.01	0.04	0.8
ZZ38121		0.11	7.1	1230	11.1	4.6	<0.001	0.07	0.89	0.3	1.1	0.6	12.4	<0.01	0.01	<0.2
ZZ38122		0.61	25.0	1230	100.0	15.4	<0.001	0.06	15.25	3.4	1.4	8.5	31.7	<0.01	0.11	2.9



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ38082		0.011	0.11	1.27	24	0.21	7.11	75	<0.5
ZZ38083		0.023	<0.02	0.08	15	<0.05	0.13	11	<0.5
ZZ38084		0.029	0.26	2.48	44	8.47	6.69	107	<0.5
ZZ38085		0.037	0.16	1.05	40	0.94	3.80	57	<0.5
ZZ38086		0.053	0.11	0.42	44	1.72	1.54	28	<0.5
ZZ38087		0.035	0.19	0.92	44	4.83	4.75	66	<0.5
ZZ38088		0.055	0.19	1.47	49	3.40	4.93	164	3.0
ZZ38089		0.014	0.20	2.24	58	0.24	4.53	87	<0.5
ZZ38090		0.025	0.15	1.46	45	0.33	4.60	109	<0.5
ZZ38091		0.038	0.12	0.56	54	0.31	2.32	32	<0.5
ZZ38092		0.032	0.16	0.57	60	0.28	2.64	73	<0.5
ZZ38093		0.025	0.29	1.77	75	0.40	8.28	309	0.8
ZZ38094		0.026	0.12	0.69	38	0.13	3.98	82	<0.5
ZZ38095		0.011	0.11	0.90	27	0.13	1.77	38	<0.5
ZZ38096		0.030	0.24	1.93	72	0.21	14.05	240	3.6
ZZ38097		0.039	0.14	0.56	58	0.54	2.41	50	<0.5
ZZ38098		0.032	0.20	2.65	53	0.42	3.87	148	<0.5
ZZ38099		0.035	0.18	1.10	59	0.39	3.82	100	0.9
ZZ38100		0.032	0.15	0.59	47	0.34	2.81	37	<0.5
ZZ38101		0.034	0.15	0.81	37	1.68	1.98	17	<0.5
ZZ38102		0.046	0.23	1.00	57	4.60	3.62	44	0.6
ZZ38103		0.018	0.23	1.06	57	1.99	3.93	82	<0.5
ZZ38104		0.033	0.13	0.69	37	2.31	2.02	24	<0.5
ZZ38105		0.026	0.17	0.83	41	0.34	3.26	33	<0.5
ZZ38106		0.019	0.05	0.48	11	0.08	1.83	8	0.6
ZZ38107		0.035	0.19	1.44	51	0.45	4.11	64	<0.5
ZZ38108		0.037	0.19	1.03	38	0.54	2.80	49	<0.5
ZZ38109		0.011	0.04	0.32	8	<0.05	0.77	5	<0.5
ZZ38110		0.040	0.26	2.29	60	1.65	4.87	85	<0.5
ZZ38111		0.022	0.31	1.83	33	1.53	6.54	73	0.7
ZZ38112		0.026	0.15	0.74	35	2.29	2.38	30	<0.5
ZZ38113		0.042	0.19	8.41	52	4.87	9.56	58	<0.5
ZZ38114		0.043	0.22	2.37	46	11.55	4.31	60	<0.5
ZZ38115		0.043	0.18	0.59	64	0.59	3.28	113	2.2
ZZ38116		0.043	0.21	0.77	66	0.60	3.43	82	<0.5
ZZ38117		0.036	0.32	1.59	45	0.15	4.31	73	<0.5
ZZ38118		0.032	0.15	0.78	55	0.25	3.63	53	<0.5
ZZ38119		0.016	0.22	1.66	44	0.16	6.21	205	0.6
ZZ38121		0.009	0.10	1.35	21	0.09	2.64	34	0.7
ZZ38122		0.014	0.37	1.74	102	0.43	8.16	143	1.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ38123		0.18	0.009	0.93	1.36	291	<0.2	<10	390	0.71	2.23	0.44	0.57	30.2	8.3	22
ZZ38124		0.14	0.008	6.10	0.87	731	<0.2	<10	110	0.19	60.5	0.08	0.17	13.55	2.7	7
ZZ38125		0.14	0.006	0.31	1.70	277	<0.2	<10	160	0.47	3.24	0.11	0.77	28.2	5.7	21
ZZ38126		0.10	0.008	0.14	0.29	3.5	<0.2	<10	20	0.08	0.12	0.10	0.11	2.04	0.8	2
ZZ38127		0.09	0.007	0.25	2.02	33.8	<0.2	<10	160	0.61	0.54	0.16	0.49	27.0	6.3	21
ZZ38128		0.12	0.006	0.25	1.46	189.0	<0.2	<10	150	0.56	0.71	0.21	0.24	28.5	6.6	22
ZZ38129		0.20	0.003	0.20	0.89	13.9	<0.2	<10	60	0.15	0.73	0.04	0.40	23.7	3.1	16
ZZ38130		0.14	0.004	0.25	1.21	106.5	<0.2	<10	140	0.40	0.50	0.27	0.71	17.00	7.3	19
ZZ38131		0.14	0.003	0.54	1.35	75.0	<0.2	<10	160	0.47	0.71	0.27	2.02	19.70	2.8	17
ZZ38132		0.23	0.004	0.22	1.38	58.0	<0.2	<10	130	0.38	0.27	0.20	0.74	25.3	5.0	23
ZZ38133		0.20	0.005	0.20	0.98	13.6	<0.2	<10	120	0.24	0.29	0.08	0.40	26.5	2.3	16
ZZ38134		0.17	0.002	0.39	0.99	17.8	<0.2	<10	120	0.19	0.26	0.07	0.49	19.10	4.4	19
ZZ38031		0.13	0.004	0.26	1.56	43.4	<0.2	<10	160	0.58	0.22	0.20	0.34	26.6	7.4	26



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ38123		1.89	39.4	2.20	4.56	0.05	0.06	0.15	0.054	0.08	16.3	12.8	0.43	451	5.75
ZZ38124		1.59	51.6	1.74	3.93	<0.05	<0.02	0.12	0.125	0.06	6.9	4.0	0.15	124	2.23
ZZ38125		3.26	49.4	2.64	6.36	<0.05	<0.02	0.10	0.026	0.06	13.9	12.8	0.28	272	2.24
ZZ38126		0.23	6.7	0.33	0.82	<0.05	<0.02	<0.01	0.006	0.02	1.1	0.4	0.03	17	0.36
ZZ38127		3.60	30.3	2.80	6.86	0.05	0.03	0.09	0.042	0.07	13.9	18.6	0.42	225	2.70
ZZ38128		3.45	135.0	2.18	5.27	0.05	0.02	0.05	0.023	0.05	14.3	13.9	0.36	174	2.82
ZZ38129		2.06	11.8	2.04	7.60	<0.05	<0.02	0.05	0.010	0.04	12.1	5.7	0.14	125	2.88
ZZ38130		3.50	86.7	1.83	4.25	<0.05	<0.02	0.06	0.028	0.04	8.6	12.0	0.35	291	3.40
ZZ38131		2.03	41.5	1.69	5.63	<0.05	<0.02	0.07	0.020	0.04	10.0	9.5	0.19	125	2.27
ZZ38132		1.55	24.7	2.11	5.43	0.05	<0.02	0.06	0.019	0.05	12.6	12.7	0.32	191	2.91
ZZ38133		1.47	11.5	1.47	5.94	0.05	<0.02	0.05	0.015	0.04	13.3	5.3	0.13	97	1.99
ZZ38134		1.37	8.7	2.08	5.65	<0.05	<0.02	0.05	0.017	0.04	9.5	9.6	0.24	234	2.83
ZZ38031		1.82	31.3	2.22	5.94	<0.05	0.02	0.04	0.020	0.10	14.8	15.6	0.47	174	3.20



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ38123		0.64	22.7	1080	55.2	12.3	0.001	0.07	12.10	3.3	1.9	2.6	37.0	<0.01	0.09	2.6
ZZ38124		0.52	5.7	420	375	9.4	<0.001	0.07	345	1.1	1.2	208	17.1	<0.01	0.07	0.4
ZZ38125		0.82	15.3	550	15.9	14.8	<0.001	0.05	3.42	1.4	0.9	2.7	10.6	<0.01	0.08	0.4
ZZ38126		0.17	1.5	360	1.7	1.4	<0.001	0.03	0.37	0.1	<0.2	0.4	8.0	<0.01	0.01	<0.2
ZZ38127		1.42	15.8	550	25.6	12.8	<0.001	0.05	1.04	3.4	1.4	2.4	20.8	0.01	0.03	2.3
ZZ38128		0.88	32.4	800	16.5	10.1	0.001	0.03	1.37	2.4	1.5	1.3	23.0	<0.01	0.07	1.5
ZZ38129		1.60	9.2	170	12.8	8.9	<0.001	0.01	0.97	1.6	0.4	1.2	6.2	<0.01	0.05	3.1
ZZ38130		0.50	26.7	690	10.1	12.7	0.001	0.04	1.60	1.2	0.9	2.3	24.5	<0.01	0.03	0.4
ZZ38131		0.35	11.2	740	17.2	13.0	<0.001	0.05	2.52	0.4	1.4	0.8	21.1	<0.01	0.04	<0.2
ZZ38132		0.58	23.4	920	22.6	7.9	0.001	0.03	1.59	0.9	2.0	0.8	15.8	<0.01	0.03	0.3
ZZ38133		0.42	7.8	580	13.8	12.4	0.001	0.02	0.71	0.6	0.9	1.0	11.6	<0.01	0.04	0.2
ZZ38134		0.58	10.5	320	12.0	11.0	<0.001	0.02	0.85	1.2	0.5	0.9	8.1	<0.01	0.02	0.4
ZZ38031		1.05	24.7	560	28.4	16.5	0.001	0.03	3.27	2.6	0.9	1.0	19.3	<0.01	0.04	2.5



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ38123		0.018	0.29	2.25	93	0.26	9.29	143	1.7
ZZ38124		0.034	0.14	0.78	32	0.39	1.93	37	<0.5
ZZ38125		0.038	0.19	1.41	50	8.11	3.49	78	<0.5
ZZ38126		0.011	0.02	0.29	8	0.10	0.50	7	<0.5
ZZ38127		0.048	0.25	1.32	49	3.36	4.75	80	0.7
ZZ38128		0.037	0.21	2.42	49	0.43	6.39	82	<0.5
ZZ38129		0.056	0.20	0.53	73	0.42	1.85	64	0.6
ZZ38130		0.028	0.18	2.62	44	0.20	4.54	152	<0.5
ZZ38131		0.015	0.18	1.42	41	0.25	3.17	59	<0.5
ZZ38132		0.024	0.18	1.39	52	0.29	4.66	104	<0.5
ZZ38133		0.023	0.17	0.75	45	0.27	2.38	39	<0.5
ZZ38134		0.035	0.15	0.48	55	0.28	1.90	71	<0.5
ZZ38031		0.040	0.24	1.13	78	0.18	4.71	78	0.6



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Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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P.O. No.:

This report is for 138 Soil samples submitted to our lab in Whitehorse, YT, Canada on 14- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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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 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41001		0.15	0.006	0.95	1.63	22.7	<0.2	<10	510	0.55	0.66	0.77	0.50	23.1	7.2	23
ZZ41002		0.06	0.008	0.36	0.98	11.1	<0.2	<10	270	0.54	0.18	0.31	3.01	15.60	2.5	11
ZZ41003		0.25	0.002	0.29	1.20	12.9	<0.2	<10	200	0.45	0.39	0.30	0.50	25.1	4.6	20
ZZ41004		0.31	0.005	0.59	1.14	33.0	<0.2	<10	280	0.72	0.69	0.29	1.73	31.5	7.2	19
ZZ41005		0.17	0.006	0.94	1.53	42.8	<0.2	<10	150	0.51	5.03	0.15	0.42	22.2	5.0	14
ZZ41006		0.32	0.013	1.14	1.69	45.5	<0.2	<10	230	0.70	4.43	0.23	0.85	33.5	7.8	23
ZZ41007		0.14	0.030	6.63	1.83	181.5	<0.2	<10	180	0.74	19.90	0.54	2.22	37.2	7.5	22
ZZ41008		0.35	0.039	4.13	2.22	243	<0.2	<10	240	0.81	20.2	0.44	2.34	36.9	9.8	32
ZZ41009		0.24	0.055	3.93	1.85	513	<0.2	<10	220	0.66	27.9	0.32	3.02	34.1	8.0	23
ZZ41010		0.11	0.006	0.62	1.28	59.5	<0.2	<10	130	0.42	2.21	0.12	0.40	22.2	4.3	28
ZZ41011		0.24	0.006	1.18	1.46	33.9	<0.2	<10	210	0.76	0.29	0.25	1.05	40.0	8.4	21
ZZ41012		0.21	0.004	0.94	1.40	34.2	<0.2	<10	270	0.81	0.32	0.39	1.98	39.2	7.8	22
ZZ41013		0.10	0.015	2.23	2.09	161.0	<0.2	<10	260	0.92	7.78	0.24	2.08	33.8	6.5	35
ZZ41014		0.19	0.011	3.22	2.10	138.5	<0.2	<10	300	0.92	4.47	0.58	3.85	29.8	8.4	33
ZZ41015		0.14	0.006	1.10	2.24	38.5	<0.2	<10	320	1.10	4.53	0.51	2.36	33.6	9.1	30
ZZ41016		0.21	0.010	1.55	1.88	78.5	<0.2	<10	290	0.92	2.61	0.33	2.31	31.0	8.9	29
ZZ41017		0.14	0.006	4.69	2.41	133.0	<0.2	<10	370	1.15	2.70	0.44	6.08	34.9	9.2	35
ZZ41018		0.14	0.007	2.18	1.74	191.5	<0.2	<10	190	0.73	3.66	0.35	2.99	25.2	8.9	30
ZZ41019		0.16	0.005	1.80	1.73	140.0	<0.2	<10	300	0.71	2.39	0.44	2.94	25.0	4.2	35
ZZ41020		0.15	0.003	0.40	1.80	22.8	<0.2	<10	150	0.57	0.33	0.12	0.59	27.2	5.7	27
ZZ41021		0.20	0.002	0.20	0.40	10.6	<0.2	<10	60	0.05	0.18	0.05	0.16	20.5	0.8	8
ZZ41022		0.25	0.005	0.51	1.48	37.1	<0.2	<10	280	0.68	0.24	0.28	0.97	31.2	6.2	24
ZZ41023		0.18	0.005	0.63	1.45	18.9	<0.2	<10	520	0.57	0.32	0.16	0.24	22.0	4.5	23
ZZ41024		0.19	0.003	1.02	1.59	35.9	<0.2	<10	590	0.59	0.62	0.17	0.29	24.5	4.8	26
ZZ41025		0.16	0.002	0.47	1.30	30.4	<0.2	<10	480	0.42	0.43	0.09	0.20	19.70	4.0	21
ZZ41026		0.28	0.006	1.05	1.65	45.3	<0.2	<10	600	0.71	0.44	0.23	0.46	32.5	6.0	25
ZZ41027		0.23	0.011	1.37	1.42	43.7	<0.2	<10	430	0.39	0.45	0.31	0.47	22.6	7.2	18
ZZ41028		0.19	0.005	0.41	1.36	88.3	<0.2	<10	350	0.53	0.47	0.28	0.66	22.4	5.4	21
ZZ41029		0.25	0.002	0.66	1.71	34.4	<0.2	<10	200	0.39	0.31	0.09	0.50	22.2	5.6	28
ZZ41030		0.22	0.007	0.40	1.46	71.2	<0.2	<10	530	0.45	0.73	0.23	0.36	24.6	6.2	27
ZZ41031		0.17	0.002	0.69	1.97	71.8	<0.2	<10	210	0.59	0.55	0.20	1.04	21.9	6.4	28
ZZ41032		0.21	0.004	1.50	1.78	85.6	<0.2	<10	750	0.88	0.54	0.23	1.15	26.0	6.1	26
ZZ41033		0.27	0.004	1.31	1.27	22.1	<0.2	<10	230	0.57	0.23	0.36	0.80	25.5	5.9	18
ZZ41034		0.32	0.005	0.19	1.60	13.8	<0.2	<10	240	0.54	0.26	0.16	0.46	32.2	6.6	24
ZZ41035		0.21	0.002	0.23	1.13	9.7	<0.2	<10	110	0.39	0.17	0.18	0.42	16.20	3.6	20
ZZ41036		0.19	0.004	0.82	2.20	45.1	<0.2	<10	190	0.67	0.42	0.12	1.39	22.5	7.1	31
ZZ41037		0.13	0.003	0.38	1.10	19.1	<0.2	<10	130	0.45	0.20	0.36	1.48	16.75	6.3	16
ZZ41038		0.11	0.005	0.94	1.00	158.0	<0.2	<10	110	0.41	0.93	1.17	2.07	14.85	7.0	14
ZZ41039		0.14	0.004	0.30	1.45	59.2	<0.2	<10	210	0.50	0.39	0.33	1.06	20.3	7.8	24
ZZ41040		0.20	0.005	2.73	1.59	264	<0.2	<10	220	0.70	7.48	0.92	3.07	14.10	11.1	25



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CERTIFICATE OF ANALYSIS WH12189037

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41001		1.74	16.8	2.99	5.16	<0.05	0.08	0.24	0.036	0.11	12.8	16.3	0.42	632	2.46
ZZ41002		0.66	54.8	0.90	2.95	<0.05	0.06	0.09	0.005	0.03	8.1	3.0	0.08	58	1.45
ZZ41003		1.44	15.3	1.77	3.94	<0.05	0.03	0.06	0.018	0.05	13.2	12.3	0.39	241	1.46
ZZ41004		1.94	24.8	2.45	3.39	<0.05	<0.02	0.05	0.022	0.08	15.9	11.5	0.40	495	3.43
ZZ41005		2.36	41.1	2.08	4.53	<0.05	<0.02	0.10	0.025	0.06	12.0	9.0	0.31	257	3.74
ZZ41006		2.37	51.6	2.94	5.13	0.06	0.03	0.10	0.050	0.07	18.4	13.9	0.45	404	5.07
ZZ41007		3.05	169.5	3.81	5.18	0.07	0.02	0.07	0.513	0.11	21.2	14.0	0.49	314	5.84
ZZ41008		4.45	196.0	3.89	6.76	0.07	<0.02	0.13	0.886	0.16	20.3	21.9	0.87	350	5.69
ZZ41009		2.99	162.0	3.49	5.34	0.07	0.02	0.08	0.935	0.11	19.2	15.0	0.58	287	7.58
ZZ41010		2.00	23.4	2.30	6.04	<0.05	<0.02	0.08	0.060	0.07	12.1	11.2	0.34	163	2.70
ZZ41011		1.62	35.8	2.66	3.86	0.07	0.06	0.12	0.034	0.10	20.9	14.5	0.45	372	4.74
ZZ41012		1.58	41.3	2.58	3.96	0.08	0.04	0.08	0.037	0.09	21.0	14.5	0.53	311	4.20
ZZ41013		2.98	216	3.42	6.92	0.06	<0.02	0.10	0.244	0.10	20.6	20.9	0.69	299	4.23
ZZ41014		3.78	133.5	3.20	6.49	0.07	0.02	0.06	0.385	0.08	18.0	21.8	0.95	791	4.94
ZZ41015		3.69	84.2	2.98	6.67	0.07	0.02	0.04	0.264	0.11	15.4	24.0	1.37	765	3.61
ZZ41016		3.46	79.0	2.87	5.88	0.06	0.02	0.09	0.359	0.11	16.8	18.4	0.66	449	5.19
ZZ41017		5.12	79.6	3.28	7.47	0.05	0.02	0.07	0.532	0.12	19.6	22.9	0.85	438	5.88
ZZ41018		4.03	70.4	2.66	6.72	0.06	<0.02	0.05	0.309	0.08	14.1	18.2	0.70	656	4.34
ZZ41019		3.90	125.5	2.42	6.29	0.05	<0.02	0.11	0.164	0.08	14.8	15.8	0.61	240	3.03
ZZ41020		1.68	16.1	3.01	5.71	0.05	0.05	0.05	0.030	0.07	14.7	17.5	0.40	229	2.68
ZZ41021		1.14	5.0	0.55	4.46	<0.05	<0.02	0.01	0.006	0.03	11.5	0.9	0.03	20	1.23
ZZ41022		1.60	29.1	2.71	4.63	0.06	<0.02	0.09	0.030	0.09	17.0	16.6	0.40	237	4.66
ZZ41023		2.21	50.0	1.93	4.94	0.05	<0.02	0.09	0.023	0.11	11.9	14.0	0.37	219	1.82
ZZ41024		2.33	43.6	2.23	5.05	0.05	<0.02	0.07	0.030	0.11	13.2	13.3	0.46	227	2.28
ZZ41025		2.05	25.5	2.07	5.50	<0.05	0.02	0.03	0.024	0.09	11.0	11.8	0.36	182	1.94
ZZ41026		1.76	48.9	2.51	5.24	0.05	<0.02	0.13	0.032	0.11	17.3	15.4	0.41	235	2.79
ZZ41027		2.35	40.6	1.96	4.37	0.06	<0.02	0.19	0.031	0.07	12.2	11.8	0.28	193	3.31
ZZ41028		1.87	30.9	2.36	4.41	0.05	0.02	0.04	0.043	0.07	12.7	14.8	0.39	183	3.59
ZZ41029		2.12	15.7	3.05	6.58	<0.05	0.13	0.01	0.022	0.09	12.1	21.7	0.48	199	3.51
ZZ41030		1.96	25.9	2.55	5.01	0.05	0.03	0.05	0.044	0.09	12.6	16.0	0.47	269	2.81
ZZ41031		1.97	21.1	2.54	6.96	0.05	0.04	0.06	0.031	0.07	12.0	17.8	0.62	181	2.74
ZZ41032		2.21	28.5	2.58	6.10	0.06	0.03	0.05	0.045	0.07	15.2	16.8	0.40	240	3.28
ZZ41033		1.35	52.5	1.71	3.63	0.05	0.02	0.13	0.019	0.05	14.8	11.3	0.33	257	2.09
ZZ41034		1.68	74.0	2.36	4.69	0.06	0.03	0.08	0.022	0.06	17.2	16.7	0.40	176	1.47
ZZ41035		3.01	24.1	1.88	4.75	0.05	<0.02	0.02	0.013	0.06	8.2	12.1	0.33	134	10.00
ZZ41036		2.42	30.0	3.40	6.68	<0.05	0.05	0.04	0.031	0.07	12.7	25.7	0.46	161	2.87
ZZ41037		1.62	29.1	1.82	4.07	<0.05	<0.02	0.02	0.026	0.05	8.7	13.0	0.22	226	3.17
ZZ41038		1.66	34.8	1.49	3.00	<0.05	<0.02	0.04	0.027	0.05	7.1	10.7	0.30	432	1.46
ZZ41039		2.50	40.2	2.55	5.44	0.05	0.02	0.02	0.029	0.06	11.2	17.9	0.40	210	3.22
ZZ41040		2.78	50.9	2.13	5.53	0.05	<0.02	0.06	0.213	0.06	7.5	19.0	0.57	418	2.63



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ41001		0.67	18.2	890	22.8	13.6	<0.001	0.10	2.85	5.0	1.4	0.9	40.7	<0.01	0.06
ZZ41002		0.38	10.3	1440	5.8	2.6	<0.001	0.29	2.30	1.4	1.2	0.3	20.8	<0.01	0.04
ZZ41003		0.68	17.3	1050	21.1	7.6	<0.001	0.05	2.61	2.2	0.8	0.7	20.7	<0.01	0.02
ZZ41004		0.31	25.1	1360	61.5	10.4	<0.001	0.06	7.31	1.6	1.2	0.7	24.8	<0.01	0.06
ZZ41005		0.57	13.3	840	43.6	11.2	<0.001	0.08	4.07	1.9	1.2	1.0	16.3	<0.01	0.13
ZZ41006		0.82	23.4	1040	62.8	13.0	<0.001	0.07	5.35	3.3	1.5	1.7	24.2	<0.01	0.19
ZZ41007		0.86	22.2	1180	494	13.3	<0.001	0.07	6.63	3.8	3.2	5.8	95.4	<0.01	1.02
ZZ41008		0.94	27.1	1570	88.1	24.3	<0.001	0.08	6.08	4.2	2.8	5.7	40.3	<0.01	1.30
ZZ41009		0.72	20.2	960	90.0	12.9	<0.001	0.07	5.97	3.7	2.3	5.3	67.4	<0.01	1.84
ZZ41010		0.76	14.6	700	33.6	10.0	<0.001	0.05	1.86	1.3	1.3	1.3	11.3	<0.01	0.19
ZZ41011		0.67	32.2	1210	138.0	10.0	<0.001	0.04	9.41	3.4	2.0	1.3	22.6	<0.01	0.04
ZZ41012		0.69	34.3	1630	103.5	9.8	0.002	0.03	7.31	3.5	1.7	1.1	30.3	<0.01	0.04
ZZ41013		0.86	30.2	1090	98.1	18.3	0.001	0.07	6.26	2.5	2.3	4.8	26.1	<0.01	0.42
ZZ41014		0.80	48.7	1590	179.0	16.5	0.001	0.06	13.05	2.9	2.0	12.7	48.3	<0.01	0.23
ZZ41015		0.63	47.6	1410	53.8	14.2	<0.001	0.04	5.58	3.4	1.6	7.6	40.7	<0.01	0.15
ZZ41016		0.76	34.4	1270	88.5	17.7	0.001	0.06	9.05	2.4	1.9	3.8	29.2	<0.01	0.09
ZZ41017		0.83	49.3	1770	591	27.9	<0.001	0.07	7.89	2.8	2.0	4.7	40.1	<0.01	0.09
ZZ41018		0.73	26.1	1250	208	20.0	0.002	0.08	4.57	1.8	3.4	8.7	27.6	<0.01	0.09
ZZ41019		0.88	29.0	1370	101.0	18.7	0.002	0.09	7.03	2.1	2.1	5.3	24.5	<0.01	0.06
ZZ41020		1.11	19.1	550	62.0	11.2	<0.001	0.02	1.97	2.4	1.0	0.9	10.5	<0.01	0.04
ZZ41021		0.14	3.1	270	11.9	4.8	<0.001	0.01	1.10	0.2	0.3	1.1	5.8	<0.01	0.03
ZZ41022		0.80	24.3	1570	32.4	10.4	0.001	0.06	4.85	1.9	1.5	1.1	32.5	<0.01	0.07
ZZ41023		0.64	19.8	700	15.7	19.1	<0.001	0.02	1.23	1.8	1.0	0.8	16.6	<0.01	0.04
ZZ41024		0.62	20.0	790	38.6	16.4	<0.001	0.03	2.05	1.8	1.0	1.1	19.3	0.01	0.03
ZZ41025		0.95	16.5	360	24.7	13.8	<0.001	0.01	1.86	2.8	0.8	1.1	12.7	<0.01	0.05
ZZ41026		0.84	23.9	700	33.4	14.1	<0.001	0.01	2.30	3.5	2.1	1.1	20.8	<0.01	0.04
ZZ41027		0.51	20.1	1010	39.9	13.4	0.002	0.05	1.78	2.0	3.1	0.9	22.5	<0.01	0.04
ZZ41028		0.68	24.3	900	52.6	12.6	<0.001	0.04	4.54	2.2	1.3	1.1	30.1	<0.01	0.05
ZZ41029		1.28	19.5	340	17.2	19.4	0.001	0.02	1.77	3.5	1.0	1.0	12.8	<0.01	0.03
ZZ41030		0.90	24.2	730	51.8	11.8	<0.001	0.02	3.82	3.4	1.3	1.2	25.3	<0.01	0.06
ZZ41031		1.33	23.7	760	39.9	13.0	<0.001	0.03	2.99	3.1	1.4	1.8	18.2	<0.01	0.04
ZZ41032		1.18	24.5	810	72.7	13.3	<0.001	0.04	3.56	2.8	1.6	1.8	24.6	<0.01	0.06
ZZ41033		0.68	16.9	980	21.1	9.9	0.003	0.03	1.47	2.4	1.3	0.6	21.5	<0.01	0.04
ZZ41034		1.12	22.3	510	14.3	9.9	<0.001	0.01	1.10	3.1	1.5	0.7	13.6	<0.01	0.05
ZZ41035		1.00	13.4	420	7.9	12.5	<0.001	0.05	0.98	1.8	2.3	0.5	22.0	<0.01	0.03
ZZ41036		1.48	36.1	300	21.4	12.7	0.001	0.02	1.88	3.3	2.0	0.9	16.8	<0.01	0.05
ZZ41037		0.63	17.5	630	13.7	7.9	<0.001	0.03	1.56	1.4	2.7	0.5	30.1	0.01	0.05
ZZ41038		0.51	22.6	650	41.3	8.7	0.001	0.06	1.51	1.4	3.5	0.7	40.3	<0.01	0.08
ZZ41039		0.77	30.0	650	16.7	11.1	0.001	0.02	3.18	2.2	1.7	0.7	35.9	<0.01	0.06
ZZ41040		0.62	32.6	710	60.8	11.9	0.001	0.07	14.80	1.8	2.9	2.4	36.8	<0.01	0.13



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41001		0.012	0.26	1.32	64	0.13	6.94	132	2.1
ZZ41002		0.019	0.18	1.62	29	0.09	8.77	29	2.0
ZZ41003		0.027	0.21	1.12	39	0.16	6.35	88	0.6
ZZ41004		0.020	0.27	1.71	58	0.19	9.78	174	<0.5
ZZ41005		0.027	0.22	1.72	48	0.24	5.84	92	<0.5
ZZ41006		0.032	0.27	2.37	69	1.00	8.84	143	0.7
ZZ41007		0.047	0.22	2.33	71	0.75	11.15	260	0.5
ZZ41008		0.052	0.44	3.01	105	0.53	11.45	330	0.5
ZZ41009		0.050	0.28	2.08	70	0.61	9.93	351	0.5
ZZ41010		0.041	0.25	1.22	86	0.52	3.50	69	<0.5
ZZ41011		0.025	0.31	1.67	83	0.18	9.85	190	1.7
ZZ41012		0.031	0.25	2.03	89	0.16	11.55	202	1.4
ZZ41013		0.035	0.35	3.39	118	0.43	8.88	230	<0.5
ZZ41014		0.044	0.33	4.12	120	0.45	12.75	516	<0.5
ZZ41015		0.031	0.38	2.49	91	0.40	9.57	302	0.6
ZZ41016		0.028	0.30	3.55	94	0.29	8.83	418	<0.5
ZZ41017		0.026	0.47	2.89	143	0.27	11.60	747	0.7
ZZ41018		0.032	0.36	2.58	92	0.29	6.06	348	<0.5
ZZ41019		0.028	0.39	2.29	98	0.29	7.00	598	<0.5
ZZ41020		0.036	0.23	0.90	75	0.41	4.21	117	0.5
ZZ41021		0.014	0.14	0.36	28	0.14	1.43	18	<0.5
ZZ41022		0.026	0.26	1.62	89	0.23	7.38	133	0.5
ZZ41023		0.031	0.23	1.11	50	0.20	5.83	80	<0.5
ZZ41024		0.030	0.23	1.17	63	0.18	6.07	96	<0.5
ZZ41025		0.041	0.19	0.66	63	0.28	4.87	79	1.1
ZZ41026		0.027	0.23	1.56	62	0.21	11.95	121	<0.5
ZZ41027		0.021	0.26	1.52	57	0.15	7.94	115	<0.5
ZZ41028		0.026	0.20	1.28	65	0.29	5.80	159	0.5
ZZ41029		0.047	0.26	0.74	74	0.31	3.70	102	5.4
ZZ41030		0.040	0.20	1.01	66	0.39	6.43	123	1.4
ZZ41031		0.048	0.27	0.95	79	0.22	5.02	146	1.7
ZZ41032		0.043	0.26	1.51	76	0.27	8.01	172	0.9
ZZ41033		0.032	0.23	1.95	39	0.38	9.06	100	0.6
ZZ41034		0.038	0.25	1.18	44	0.33	6.34	84	0.8
ZZ41035		0.050	0.32	1.08	49	0.31	3.57	56	<0.5
ZZ41036		0.041	0.21	0.68	68	0.29	3.66	134	2.1
ZZ41037		0.026	0.08	0.83	36	0.21	3.62	231	<0.5
ZZ41038		0.024	0.15	2.16	27	0.25	4.82	182	<0.5
ZZ41039		0.037	0.15	1.04	58	0.31	4.43	187	0.5
ZZ41040		0.034	0.19	1.46	51	0.16	5.67	369	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41041		0.14	0.005	0.90	1.93	68.9	<0.2	<10	480	0.54	0.66	0.41	1.04	27.7	6.7	35
ZZ41042		0.19	0.005	1.04	2.05	170.0	<0.2	<10	300	0.68	0.60	0.23	0.41	30.2	6.7	27
ZZ41043		0.19	0.006	1.06	1.41	276	<0.2	<10	260	0.48	0.69	0.76	2.68	26.3	9.3	20
ZZ41044		0.24	NSS	0.99	1.77	104.0	<0.2	<10	330	0.71	0.61	0.97	1.73	25.1	8.0	25
ZZ41045		0.12	0.002	0.44	1.54	70.4	<0.2	<10	200	0.61	0.45	0.92	0.65	17.20	8.1	18
ZZ41046		0.20	0.006	0.78	1.45	61.5	<0.2	<10	260	0.58	0.29	1.88	2.12	18.70	8.2	14
ZZ41047		0.10	0.006	0.74	1.50	185.5	<0.2	<10	220	0.74	0.72	0.68	1.80	20.7	7.3	15
ZZ41048		0.17	0.003	0.61	1.69	101.0	<0.2	<10	280	0.80	0.58	0.37	1.72	25.4	7.0	20
ZZ41049		0.15	0.004	0.65	1.92	95.1	<0.2	<10	340	0.80	0.55	0.26	0.94	27.0	9.8	20
ZZ41050		0.15	0.005	1.13	1.50	59.7	<0.2	<10	310	0.45	0.40	0.81	0.42	20.3	5.0	23
ZZ41051		0.18	0.005	1.05	1.06	40.6	<0.2	<10	240	0.47	0.20	0.57	0.38	16.30	4.3	14
ZZ41052		0.28	0.002	0.67	1.48	17.3	<0.2	<10	210	0.64	0.27	0.46	0.29	22.9	5.9	23
ZZ41053		0.19	0.002	0.33	1.90	40.1	<0.2	<10	200	0.73	0.35	0.51	0.41	23.2	8.1	32
ZZ41054		0.12	0.002	0.28	1.44	44.7	<0.2	<10	170	0.39	0.40	0.29	0.59	18.45	5.6	23
ZZ41055		0.14	0.003	1.10	2.55	71.4	<0.2	<10	580	0.75	0.68	0.17	1.34	25.9	11.0	42
ZZ41056		0.25	0.003	1.27	1.56	114.0	<0.2	<10	230	0.45	0.51	0.21	1.02	26.5	8.2	25
ZZ41057		0.20	0.002	1.78	1.42	75.0	<0.2	<10	260	0.50	1.11	0.14	1.60	21.3	5.5	20
ZZ41058		0.20	0.005	1.26	1.49	103.5	<0.2	<10	260	0.64	0.87	0.15	0.97	27.3	8.0	24
ZZ41059		0.16	0.003	0.77	1.18	37.1	<0.2	<10	170	0.43	0.27	0.21	1.66	16.85	5.2	17
ZZ41060		0.28	0.003	2.22	2.33	55.9	<0.2	<10	560	0.87	0.33	0.63	1.36	20.9	8.2	40
ZZ41061		0.13	0.002	0.21	0.64	13.5	<0.2	<10	150	0.23	0.10	0.60	0.27	15.15	3.9	9
ZZ41062		0.23	0.006	0.70	1.05	26.6	<0.2	<10	220	0.60	0.28	0.76	4.28	37.4	6.0	20
ZZ41063		0.11	0.004	0.44	0.93	27.7	<0.2	<10	150	0.39	0.31	0.28	2.71	25.9	6.8	17
ZZ41064		0.19	0.005	0.22	0.92	45.0	<0.2	<10	310	0.49	0.33	0.29	0.91	44.1	10.1	15
ZZ41065		0.32	0.004	0.28	1.02	33.5	<0.2	<10	190	0.37	0.26	0.20	1.39	27.6	11.2	17
ZZ41066		0.29	0.005	0.65	0.97	42.6	<0.2	<10	310	0.35	0.23	0.42	3.65	28.5	5.1	15
ZZ41067		0.15	0.002	0.13	0.80	17.7	<0.2	<10	70	0.16	0.27	0.04	0.35	19.10	3.3	15
ZZ41068		0.16	0.002	0.17	1.01	14.6	<0.2	<10	190	0.26	0.16	0.15	0.67	17.00	6.3	14
ZZ41069		0.14	0.003	0.30	1.35	12.2	<0.2	<10	320	0.51	0.22	1.53	0.66	36.7	12.5	22
ZZ41070		0.15	0.004	0.28	1.26	5.1	<0.2	<10	310	0.42	0.34	1.37	0.84	33.5	16.1	19
ZZ41071		0.26	0.002	0.38	1.24	9.2	<0.2	<10	340	0.47	0.27	0.58	0.75	39.6	12.0	21
ZZ41072		0.19	0.001	0.20	0.97	5.9	<0.2	<10	290	0.32	0.13	1.06	0.28	22.5	5.2	11
ZZ41073		0.28	0.004	0.39	1.49	22.3	<0.2	<10	220	0.49	0.31	0.56	0.68	38.5	15.5	24
ZZ41074		0.20	0.002	0.13	0.78	70.0	<0.2	<10	170	0.27	0.45	0.28	0.59	15.15	7.5	12
ZZ41075		0.21	0.003	0.33	1.18	12.9	<0.2	<10	380	0.60	0.21	0.98	2.14	30.6	8.5	19
ZZ41076		0.19	0.001	0.08	1.61	18.7	<0.2	<10	120	0.29	0.27	0.09	0.17	24.1	4.2	18
ZZ41077		0.19	0.001	0.10	1.15	5.4	<0.2	<10	160	0.25	0.20	0.44	0.33	19.90	3.3	12
ZZ41078		0.17	0.001	0.08	0.85	13.6	<0.2	<10	90	0.27	0.26	0.09	0.23	34.8	16.3	14
ZZ41079		0.19	0.007	0.09	0.96	11.0	<0.2	<10	160	0.35	0.97	0.34	0.61	27.0	9.7	18
ZZ41080		0.19	0.015	0.29	0.86	19.3	<0.2	<10	160	0.31	0.41	0.46	0.44	36.1	12.7	15



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CERTIFICATE OF ANALYSIS WH12189037

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41041		3.24	41.7	2.72	6.85	0.05	<0.02	0.11	0.045	0.09	15.3	23.6	0.63	197	7.02
ZZ41042		1.77	26.2	2.46	6.22	0.05	0.03	0.06	0.047	0.08	17.2	16.9	0.46	175	1.99
ZZ41043		3.17	90.1	2.00	3.88	0.06	0.06	0.12	0.054	0.08	14.9	17.1	0.38	246	3.88
ZZ41044		2.33	36.0	2.36	4.33	0.05	0.11	0.07	0.054	0.11	13.3	15.0	0.56	229	2.24
ZZ41045		3.09	28.6	2.19	4.05	<0.05	0.04	0.03	0.034	0.07	8.9	17.8	0.43	196	1.55
ZZ41046		1.96	57.4	1.75	3.09	<0.05	0.05	0.07	0.032	0.06	10.8	11.0	0.33	323	0.76
ZZ41047		2.05	32.9	2.31	3.75	<0.05	0.05	0.05	0.074	0.09	10.6	10.3	0.34	210	1.96
ZZ41048		2.78	77.3	2.36	4.32	0.06	0.04	0.05	0.062	0.09	12.8	13.9	0.47	161	3.72
ZZ41049		3.05	57.8	2.70	4.77	0.05	0.05	0.09	0.058	0.10	13.9	17.1	0.47	240	3.26
ZZ41050		2.59	24.9	1.70	4.50	0.05	0.05	0.04	0.047	0.09	10.9	13.5	0.55	160	1.95
ZZ41051		1.62	39.5	1.44	3.08	<0.05	0.03	0.02	0.027	0.06	8.3	7.5	0.27	179	1.26
ZZ41052		2.08	23.2	2.09	4.68	<0.05	<0.02	0.06	0.021	0.06	10.8	12.9	0.34	180	1.58
ZZ41053		3.02	18.8	2.43	5.53	<0.05	0.03	0.02	0.028	0.07	11.5	16.5	0.53	267	1.11
ZZ41054		2.01	14.4	1.98	5.59	<0.05	<0.02	0.02	0.021	0.07	9.6	13.8	0.38	153	1.29
ZZ41055		2.43	46.1	2.76	7.08	0.06	0.10	0.02	0.043	0.06	13.4	21.0	0.65	177	2.06
ZZ41056		1.74	25.9	3.07	4.20	<0.05	0.02	0.02	0.056	0.10	14.0	14.4	0.48	296	3.59
ZZ41057		1.31	31.5	2.31	5.15	<0.05	0.02	0.02	0.037	0.06	11.5	9.6	0.26	170	1.76
ZZ41058		1.89	37.5	2.74	4.15	<0.05	0.05	0.06	0.057	0.07	13.8	14.7	0.44	181	2.70
ZZ41059		1.53	18.6	1.96	4.29	<0.05	<0.02	0.02	0.026	0.05	8.8	9.9	0.25	160	2.66
ZZ41060		3.29	88.9	2.79	8.63	0.07	0.03	0.03	0.057	0.12	11.3	18.9	1.04	209	3.72
ZZ41061		0.96	12.6	1.18	2.21	<0.05	0.02	0.03	0.010	0.05	7.3	6.7	0.22	446	0.72
ZZ41062		2.74	56.7	1.72	3.34	0.07	0.05	0.25	0.027	0.08	22.8	8.1	0.55	287	10.10
ZZ41063		2.15	26.7	1.64	3.50	<0.05	<0.02	0.14	0.014	0.05	16.0	5.8	0.39	472	6.66
ZZ41064		1.02	32.1	3.04	2.65	0.08	0.04	0.09	0.023	0.08	24.7	11.6	0.41	526	1.62
ZZ41065		2.58	21.3	2.25	3.74	<0.05	<0.02	0.10	0.030	0.06	15.7	11.5	0.36	546	5.03
ZZ41066		2.15	39.7	1.70	2.89	0.06	0.03	0.36	0.019	0.05	17.1	6.3	0.35	416	11.15
ZZ41067		2.47	10.4	2.09	5.65	<0.05	<0.02	0.04	0.015	0.04	9.9	4.4	0.14	139	3.75
ZZ41068		2.05	14.9	2.11	3.33	<0.05	<0.02	0.10	0.018	0.04	9.1	12.8	0.29	328	13.10
ZZ41069		2.16	28.3	2.85	4.23	0.06	0.05	0.13	0.037	0.06	20.7	25.5	0.52	596	1.33
ZZ41070		3.76	28.9	2.00	3.75	0.05	0.04	0.07	0.024	0.06	19.1	25.7	0.45	1370	0.80
ZZ41071		1.64	30.0	2.65	4.05	0.06	0.04	0.15	0.040	0.06	21.3	21.1	0.44	455	1.58
ZZ41072		2.50	18.7	1.57	2.73	<0.05	0.02	0.06	0.018	0.05	13.2	13.4	0.23	270	0.73
ZZ41073		1.97	38.4	3.71	4.63	0.06	0.03	0.10	0.043	0.06	20.4	29.9	0.72	561	3.67
ZZ41074		1.57	32.4	1.61	3.01	<0.05	<0.02	0.03	0.030	0.04	8.0	8.7	0.18	284	2.37
ZZ41075		1.05	55.5	2.05	3.91	0.05	0.03	0.18	0.024	0.05	17.0	14.0	0.34	560	1.68
ZZ41076		1.42	16.3	2.66	7.88	<0.05	0.03	0.02	0.020	0.04	12.6	17.5	0.22	108	1.97
ZZ41077		1.89	12.7	1.24	4.77	<0.05	<0.02	0.01	0.013	0.04	9.9	11.9	0.15	92	0.95
ZZ41078		3.38	14.4	2.50	5.59	0.06	<0.02	0.02	0.060	0.06	16.9	11.9	0.14	680	1.75
ZZ41079		1.80	25.8	2.02	3.95	<0.05	<0.02	0.03	0.041	0.06	13.0	17.5	0.30	303	2.53
ZZ41080		1.76	32.3	1.61	2.59	0.05	0.04	0.11	0.077	0.06	14.8	13.5	0.20	536	2.27



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CERTIFICATE OF ANALYSIS WH12189037

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ41041		0.87	27.5	890	43.3	18.6	0.001	0.05	6.51	3.0	2.5	1.7	30.1	<0.01	0.07
ZZ41042		1.16	21.1	570	64.1	11.4	<0.001	0.01	2.67	3.7	1.3	1.4	20.6	<0.01	0.05
ZZ41043		0.65	107.5	1310	66.8	13.2	0.006	0.06	11.50	2.9	5.4	1.3	60.6	<0.01	0.05
ZZ41044		0.73	44.2	1210	76.9	12.3	<0.001	0.04	6.54	3.6	1.7	1.2	63.2	<0.01	0.05
ZZ41045		0.82	28.2	520	41.3	13.4	0.002	0.05	3.15	2.3	1.4	0.7	57.9	<0.01	0.06
ZZ41046		0.53	32.5	820	31.2	7.7	<0.001	0.07	3.63	2.1	1.8	0.6	65.5	<0.01	0.03
ZZ41047		0.53	34.8	980	101.0	11.2	<0.001	0.06	11.70	1.9	0.8	1.3	46.2	<0.01	0.06
ZZ41048		0.52	39.0	950	90.2	12.7	0.002	0.04	6.11	2.2	1.5	1.8	43.6	<0.01	0.09
ZZ41049		0.53	40.3	790	86.2	14.6	<0.001	0.05	6.28	2.7	1.3	1.5	36.4	<0.01	0.05
ZZ41050		0.57	26.0	1040	81.3	14.3	<0.001	0.04	3.25	2.6	1.2	1.3	43.2	<0.01	0.04
ZZ41051		0.45	18.2	790	56.1	11.6	<0.001	0.04	2.30	1.6	0.8	0.7	35.3	<0.01	0.04
ZZ41052		0.92	15.4	410	22.2	13.0	<0.001	0.02	1.16	2.3	0.7	0.7	25.9	<0.01	0.03
ZZ41053		1.00	27.4	490	38.6	17.5	<0.001	0.03	1.33	2.7	0.5	0.7	25.7	<0.01	0.06
ZZ41054		1.08	17.6	350	30.3	20.0	<0.001	0.01	1.26	2.3	0.2	0.9	24.1	<0.01	0.05
ZZ41055		1.57	48.2	570	66.1	10.5	<0.001	0.02	3.00	4.6	1.2	1.1	16.7	<0.01	0.07
ZZ41056		0.86	26.1	920	52.8	13.0	<0.001	0.02	4.80	2.9	1.3	1.1	22.3	<0.01	0.06
ZZ41057		0.91	14.9	690	84.8	13.2	<0.001	0.01	2.44	1.8	0.8	1.3	16.6	<0.01	0.06
ZZ41058		0.80	31.1	590	72.8	11.7	<0.001	0.02	4.59	3.4	1.0	1.4	19.0	<0.01	0.04
ZZ41059		0.75	14.0	340	86.9	13.5	<0.001	0.01	3.07	1.7	0.8	1.4	18.3	<0.01	0.02
ZZ41060		1.41	36.4	2620	74.9	36.3	<0.001	0.03	3.48	3.4	1.4	2.1	108.5	<0.01	0.06
ZZ41061		0.24	6.5	590	9.0	4.1	0.001	0.07	2.30	2.0	0.7	0.3	16.7	<0.01	0.04
ZZ41062		0.41	42.2	1330	16.0	8.6	0.009	0.07	7.08	2.2	6.3	0.5	49.6	<0.01	0.07
ZZ41063		0.39	19.1	1090	15.1	7.4	0.002	0.04	4.86	1.2	3.5	0.5	29.9	<0.01	0.06
ZZ41064		0.19	22.5	820	20.1	4.1	<0.001	0.01	7.54	5.4	1.2	0.4	21.7	<0.01	0.04
ZZ41065		0.44	20.4	880	16.6	8.4	0.001	0.02	5.92	2.8	2.0	0.4	25.0	<0.01	0.06
ZZ41066		0.22	20.2	1320	20.6	6.7	0.006	0.07	8.35	1.8	5.5	0.4	45.0	<0.01	0.06
ZZ41067		0.73	10.8	400	10.6	6.2	<0.001	0.02	3.00	1.2	0.4	0.7	8.5	<0.01	0.03
ZZ41068		0.39	12.1	750	14.1	7.1	0.001	0.02	3.13	2.4	0.9	0.4	12.5	<0.01	0.03
ZZ41069		0.85	24.1	720	17.7	8.2	0.001	0.07	2.51	7.1	2.0	0.5	42.4	<0.01	0.04
ZZ41070		0.48	16.9	670	13.8	9.2	<0.001	0.06	1.10	6.2	1.4	0.4	38.3	<0.01	0.04
ZZ41071		0.59	24.5	600	45.4	7.9	0.001	0.02	2.36	6.9	1.6	0.5	24.7	<0.01	0.04
ZZ41072		0.38	11.0	570	7.1	6.2	<0.001	0.03	0.98	3.8	1.1	0.3	30.5	<0.01	0.04
ZZ41073		0.57	30.8	950	49.4	7.9	<0.001	0.02	6.73	7.2	2.2	0.5	29.8	<0.01	0.06
ZZ41074		0.38	8.0	500	21.7	8.1	<0.001	0.02	5.34	1.6	0.7	0.4	15.1	<0.01	0.12
ZZ41075		0.82	25.9	630	13.5	7.8	<0.001	0.03	3.35	5.1	1.1	0.5	29.4	<0.01	0.02
ZZ41076		1.34	11.4	240	12.4	9.8	<0.001	0.01	1.30	2.5	0.2	0.9	12.5	<0.01	0.05
ZZ41077		0.79	6.1	340	10.5	7.6	<0.001	0.02	0.69	2.2	<0.2	0.7	21.4	0.01	0.02
ZZ41078		0.73	12.2	430	37.2	10.5	<0.001	0.01	9.31	4.7	<0.2	0.7	9.3	<0.01	0.05
ZZ41079		0.64	14.1	430	20.2	9.4	0.001	0.01	4.36	2.9	0.3	0.6	18.8	<0.01	0.04
ZZ41080		0.25	28.5	580	67.1	5.8	0.001	0.01	2.01	4.5	0.4	0.9	15.9	<0.01	0.02



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41041		0.040	0.49	1.47	89	0.21	5.65	231	<0.5
ZZ41042		0.032	0.24	1.89	66	0.35	7.43	126	1.1
ZZ41043		0.025	0.18	9.44	52	0.20	12.90	483	1.8
ZZ41044		0.027	0.17	2.34	80	0.14	12.90	560	3.4
ZZ41045		0.029	0.16	1.95	54	0.16	5.36	183	1.4
ZZ41046		0.024	0.10	2.37	39	0.10	14.90	320	1.6
ZZ41047		0.019	0.15	1.74	50	0.33	7.68	487	1.7
ZZ41048		0.019	0.18	2.45	69	0.14	8.63	283	1.1
ZZ41049		0.015	0.20	2.77	68	0.15	8.54	287	1.4
ZZ41050		0.022	0.19	1.91	77	0.14	5.46	195	1.6
ZZ41051		0.023	0.12	1.59	45	0.19	6.33	77	0.8
ZZ41052		0.036	0.20	1.51	60	0.27	5.01	74	<0.5
ZZ41053		0.042	0.21	1.42	97	0.26	6.31	108	0.5
ZZ41054		0.041	0.16	0.79	83	0.34	3.60	115	0.5
ZZ41055		0.057	0.27	1.86	159	0.27	10.15	299	3.0
ZZ41056		0.039	0.15	1.27	58	0.48	5.44	202	0.7
ZZ41057		0.030	0.14	1.15	62	0.37	3.60	134	0.5
ZZ41058		0.027	0.21	1.26	61	0.25	5.97	131	1.7
ZZ41059		0.027	0.12	0.74	51	0.21	3.07	160	<0.5
ZZ41060		0.058	0.42	2.17	112	0.54	8.02	266	1.4
ZZ41061		0.011	0.05	0.60	19	0.07	3.46	51	0.6
ZZ41062		0.013	0.52	4.89	182	0.14	16.50	277	1.2
ZZ41063		0.015	0.34	2.57	137	0.18	8.00	162	<0.5
ZZ41064		0.009	0.09	0.89	34	0.08	12.30	144	2.2
ZZ41065		0.015	0.22	1.67	91	0.16	6.59	166	<0.5
ZZ41066		0.008	0.74	4.04	118	0.15	10.05	158	1.0
ZZ41067		0.025	0.16	0.58	63	0.30	2.73	81	<0.5
ZZ41068		0.013	0.17	1.32	44	0.15	4.68	106	<0.5
ZZ41069		0.017	0.12	1.55	42	0.14	17.85	94	1.2
ZZ41070		0.014	0.12	1.23	38	0.14	15.75	78	0.9
ZZ41071		0.015	0.20	1.48	40	0.19	15.15	153	1.0
ZZ41072		0.015	0.06	0.69	25	0.07	10.50	53	0.8
ZZ41073		0.020	0.24	1.43	68	0.17	12.50	310	1.1
ZZ41074		0.016	0.10	1.15	29	0.11	3.55	72	<0.5
ZZ41075		0.027	0.10	2.38	36	0.16	14.15	1280	0.9
ZZ41076		0.021	0.12	0.55	64	0.28	2.51	49	1.1
ZZ41077		0.022	0.08	0.99	37	0.31	4.03	38	<0.5
ZZ41078		0.016	0.18	0.77	44	0.25	5.21	81	<0.5
ZZ41079		0.018	0.14	0.81	40	0.26	4.58	263	0.6
ZZ41080		<0.005	0.18	0.68	26	0.07	8.68	454	1.5



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CERTIFICATE OF ANALYSIS WH12189037

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41081		0.20	0.001	0.09	0.75	11.5	<0.2	<10	90	0.23	0.15	0.17	0.33	16.20	5.8	12
ZZ41082		0.18	0.005	1.65	1.15	16.9	<0.2	<10	280	0.67	0.20	0.79	13.70	35.6	6.0	21
ZZ41083		0.20	<0.001	0.04	0.51	4.5	<0.2	<10	50	0.12	0.10	0.04	0.10	8.13	1.6	6
ZZ41084		0.16	0.003	0.19	0.72	24.0	<0.2	<10	160	0.22	0.33	0.55	0.33	17.25	5.7	9
ZZ41085		0.25	0.003	0.13	0.90	41.3	<0.2	<10	140	0.33	0.42	0.20	0.45	28.7	8.4	13
ZZ41086		0.26	0.006	0.63	1.32	14.9	<0.2	<10	340	0.65	0.33	0.75	2.52	35.6	11.6	24
ZZ41087		0.41	0.013	0.77	1.35	40.9	<0.2	<10	580	0.68	0.74	0.51	2.81	54.0	16.8	21
ZZ41088		0.11	0.002	0.31	0.86	15.9	<0.2	<10	320	0.34	0.29	1.24	1.32	23.0	7.7	12
ZZ41089		0.31	0.011	1.03	1.51	216	<0.2	<10	340	1.03	0.29	0.45	9.98	34.9	22.1	26
ZZ41090		0.37	0.002	0.16	1.22	19.3	<0.2	<10	290	0.39	0.25	0.13	0.47	29.1	7.2	17
ZZ41091		0.30	0.001	0.21	0.52	6.0	<0.2	<10	100	0.29	0.09	0.10	0.37	13.40	3.7	6
ZZ41092		0.25	0.005	0.13	1.34	18.4	<0.2	<10	270	0.52	0.26	0.24	0.57	35.5	9.2	21
ZZ41093		0.35	0.012	0.19	1.52	16.2	<0.2	<10	300	0.90	0.28	0.26	0.64	52.6	12.1	23
ZZ41094		0.41	0.007	0.64	0.83	28.0	<0.2	<10	180	0.38	0.16	0.34	3.22	23.0	9.8	14
ZZ41095		0.37	0.007	0.55	1.42	13.0	<0.2	<10	230	0.52	0.26	0.23	0.70	36.1	6.9	22
ZZ41096		0.33	0.002	0.15	1.18	11.7	<0.2	<10	100	0.33	0.20	0.06	0.24	22.4	3.2	16
ZZ41097		0.19	0.001	0.03	1.33	10.9	<0.2	<10	150	0.36	0.22	0.10	0.24	22.9	4.7	19
ZZ41098		0.33	0.006	0.45	1.47	24.8	<0.2	<10	480	0.78	0.24	0.23	1.55	40.7	12.2	23
ZZ41099		0.19	0.004	0.25	1.93	14.3	<0.2	<10	130	0.52	0.25	0.10	0.54	26.2	6.6	30
ZZ41100		0.25	0.003	0.46	1.21	5.2	<0.2	<10	250	0.38	0.23	0.17	0.95	25.3	3.4	20
ZZ41101		0.52	0.005	0.40	1.25	16.4	<0.2	<10	340	0.49	0.29	0.35	2.53	35.0	9.0	24
ZZ41102		0.38	0.002	0.88	1.14	41.2	<0.2	<10	200	0.55	0.39	0.40	2.88	26.8	6.7	15
ZZ41103		0.19	0.001	0.33	1.31	12.3	<0.2	<10	450	0.52	0.24	0.73	0.51	24.7	8.5	19
ZZ41104		0.28	0.003	0.25	1.28	10.4	<0.2	<10	430	0.64	0.20	0.46	0.40	30.1	5.8	20
ZZ41105		0.30	0.001	0.13	1.77	26.5	<0.2	<10	260	0.59	0.35	0.14	0.23	31.6	8.6	24
ZZ41106		0.23	0.002	0.10	1.51	11.5	<0.2	<10	250	0.46	0.22	0.19	0.15	25.9	6.0	23
ZZ41107		0.29	0.003	0.41	1.27	25.9	<0.2	<10	1150	0.62	0.60	0.59	10.15	36.0	55.2	20
ZZ41108		0.27	0.006	0.29	1.16	29.2	<0.2	<10	270	0.64	1.36	0.27	0.64	44.9	7.0	18
ZZ41109		0.43	0.011	0.38	1.63	21.9	<0.2	<10	310	0.77	1.58	0.54	1.26	34.9	7.6	24
ZZ41110		0.15	0.007	0.52	1.93	44.5	<0.2	<10	450	0.89	2.06	0.35	3.80	45.6	8.8	29
ZZ41111		0.25	0.010	0.56	1.45	40.8	<0.2	<10	390	0.62	1.64	0.44	1.44	31.8	7.9	24
ZZ41112		0.29	0.011	0.68	1.44	242	<0.2	<10	270	0.63	5.98	0.28	0.81	33.5	8.4	18
ZZ41113		0.23	0.009	1.31	1.60	82.5	<0.2	<10	210	0.59	4.15	0.20	0.64	22.7	4.8	17
ZZ41114		0.28	0.012	1.59	1.76	186.5	<0.2	<10	220	0.67	8.61	0.27	0.97	28.3	7.5	24
ZZ41115		0.14	0.019	2.62	1.91	192.5	<0.2	<10	230	0.60	11.60	0.32	0.76	31.9	8.5	27
ZZ41116		0.18	0.016	1.52	1.89	93.6	<0.2	<10	180	0.68	10.10	0.34	1.08	27.5	8.6	23
ZZ41117		0.25	0.031	1.31	1.73	57.7	<0.2	<10	70	0.67	7.26	0.15	0.47	33.4	6.2	19
ZZ41118		0.25	0.006	0.71	1.59	109.5	<0.2	<10	170	0.59	3.20	0.22	0.78	29.5	7.6	24
ZZ41119		0.18	0.001	0.30	1.08	20.3	<0.2	<10	150	0.30	0.43	0.32	0.45	17.10	2.3	18
ZZ41120		0.19	0.004	0.90	1.43	76.1	<0.2	<10	260	0.63	0.99	0.23	1.06	31.7	7.2	21



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CERTIFICATE OF ANALYSIS WH12189037

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41081		0.90	15.8	1.58	3.01	<0.05	<0.02	0.05	0.017	0.04	7.6	8.2	0.16	219	2.11
ZZ41082		1.72	137.5	1.37	3.14	0.08	0.03	0.86	0.022	0.05	21.5	11.3	0.27	318	7.35
ZZ41083		0.63	12.0	0.83	2.76	<0.05	<0.02	0.01	<0.005	0.02	4.1	3.8	0.06	82	0.75
ZZ41084		0.78	43.5	1.53	2.55	<0.05	<0.02	0.04	0.014	0.04	8.4	7.7	0.16	249	1.93
ZZ41085		1.13	26.1	2.59	3.34	<0.05	<0.02	0.08	0.022	0.05	13.3	11.2	0.25	381	3.99
ZZ41086		1.21	94.2	2.33	3.98	0.06	0.03	0.20	0.032	0.05	18.5	20.1	0.43	701	1.75
ZZ41087		1.07	97.5	3.40	4.05	0.06	0.08	0.09	0.056	0.08	29.4	22.4	0.71	548	4.68
ZZ41088		0.64	26.3	1.65	2.61	<0.05	0.03	0.08	0.020	0.05	10.7	11.3	0.31	444	1.98
ZZ41089		3.50	86.2	3.49	4.21	0.09	0.03	0.19	0.043	0.14	18.0	16.8	0.79	1040	33.9
ZZ41090		0.92	27.7	2.68	4.14	<0.05	0.02	0.05	0.027	0.06	15.3	18.0	0.35	251	3.51
ZZ41091		1.60	13.1	0.91	2.56	<0.05	<0.02	0.04	0.011	0.04	5.6	4.6	0.09	357	0.69
ZZ41092		1.13	31.2	2.80	3.68	<0.05	<0.02	0.08	0.028	0.05	17.7	14.8	0.36	351	2.45
ZZ41093		1.09	36.4	3.08	3.78	0.07	0.06	0.07	0.035	0.07	23.1	16.1	0.42	557	1.59
ZZ41094		1.26	35.5	2.16	3.50	0.05	0.02	0.17	0.022	0.05	11.0	11.8	0.41	330	5.58
ZZ41095		1.46	42.5	2.18	4.33	<0.05	0.02	0.11	0.029	0.06	17.9	27.4	0.48	171	2.59
ZZ41096		0.97	18.3	2.06	4.67	<0.05	<0.02	0.04	0.015	0.04	10.6	10.7	0.19	135	2.04
ZZ41097		1.10	16.2	2.15	4.50	<0.05	<0.02	0.02	0.019	0.04	11.4	12.9	0.27	156	1.50
ZZ41098		1.37	62.4	3.00	3.83	0.06	0.04	0.09	0.033	0.08	19.1	20.2	0.52	405	5.94
ZZ41099		1.80	19.0	3.22	5.24	<0.05	0.06	0.05	0.033	0.06	12.6	22.8	0.40	310	1.97
ZZ41100		1.77	20.8	1.31	4.12	<0.05	<0.02	0.08	0.018	0.05	12.9	14.4	0.30	84	0.62
ZZ41101		2.31	43.5	2.20	4.11	0.05	0.03	0.05	0.025	0.06	17.7	23.0	0.57	275	2.12
ZZ41102		3.02	23.6	1.90	3.46	<0.05	0.02	0.09	0.026	0.06	14.0	14.3	0.25	479	1.46
ZZ41103		2.51	33.4	2.02	4.86	<0.05	<0.02	0.04	0.021	0.05	12.7	11.5	0.21	1340	2.55
ZZ41104		1.22	28.6	1.94	3.91	<0.05	0.02	0.05	0.023	0.04	14.9	14.1	0.34	260	1.56
ZZ41105		3.21	16.6	3.06	5.48	0.05	0.04	0.03	0.036	0.06	16.4	31.4	0.49	308	1.95
ZZ41106		1.30	21.7	2.34	4.98	<0.05	0.02	0.02	0.023	0.05	13.1	15.4	0.35	225	1.51
ZZ41107		1.27	32.6	3.66	3.95	0.05	0.07	0.15	0.025	0.09	17.2	12.9	0.43	7940	5.39
ZZ41108		1.44	37.4	2.49	3.85	0.05	0.03	0.10	0.039	0.08	22.5	14.9	0.48	146	2.92
ZZ41109		1.39	45.4	2.25	4.77	0.06	0.03	0.08	0.028	0.07	19.1	11.0	0.35	392	2.02
ZZ41110		1.96	58.1	2.85	5.21	0.07	0.02	0.05	0.064	0.08	22.0	14.6	0.44	400	1.96
ZZ41111		1.61	43.5	2.59	4.27	0.05	0.02	0.07	0.045	0.08	16.2	13.9	0.41	402	2.95
ZZ41112		1.71	106.0	2.57	3.85	0.06	0.02	0.07	0.090	0.06	16.6	11.3	0.37	295	3.44
ZZ41113		2.18	102.5	2.19	4.62	<0.05	<0.02	0.08	0.111	0.07	11.7	9.7	0.31	166	2.81
ZZ41114		3.45	151.0	2.73	5.69	0.05	<0.02	0.07	0.155	0.09	14.4	15.0	0.50	357	3.30
ZZ41115		4.85	150.0	2.73	6.52	0.05	<0.02	0.14	0.222	0.09	16.6	17.5	0.56	379	4.60
ZZ41116		4.75	253	2.46	6.31	0.06	0.02	0.10	0.135	0.08	14.3	15.0	0.49	401	3.69
ZZ41117		4.58	252	2.33	5.32	0.05	<0.02	0.12	0.094	0.04	17.1	11.0	0.22	256	3.46
ZZ41118		2.66	128.5	2.43	5.67	0.06	<0.02	0.07	0.117	0.06	14.6	13.3	0.43	298	3.15
ZZ41119		1.54	28.6	1.54	5.54	<0.05	<0.02	0.08	0.033	0.03	8.6	9.2	0.19	87	1.38
ZZ41120		2.06	33.7	2.68	4.75	0.05	0.02	0.09	0.101	0.07	14.8	13.7	0.35	322	3.37



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ41081		0.55	9.3	540	12.5	5.7	<0.001	0.02	1.56	1.4	0.5	0.4	13.6	<0.01	<0.01
ZZ41082		0.77	59.1	1310	29.4	9.1	0.005	0.08	6.41	1.9	5.8	0.3	54.6	<0.01	0.05
ZZ41083		0.35	3.9	230	4.0	2.8	<0.001	0.01	0.32	0.4	<0.2	0.3	8.1	<0.01	<0.01
ZZ41084		0.36	11.4	480	17.5	4.1	0.001	0.02	2.61	1.8	0.4	0.3	22.4	<0.01	<0.01
ZZ41085		0.37	13.0	680	24.9	6.2	<0.001	0.02	4.17	2.7	0.6	0.4	14.9	<0.01	0.04
ZZ41086		0.88	25.6	790	32.6	7.6	0.002	0.04	2.04	6.2	2.9	0.5	35.5	<0.01	0.02
ZZ41087		0.23	33.4	1070	46.7	5.1	0.002	0.04	5.96	5.3	2.2	0.3	30.3	<0.01	0.09
ZZ41088		0.40	13.6	760	25.2	5.7	0.001	0.05	2.34	2.6	1.3	0.3	51.4	<0.01	<0.01
ZZ41089		0.56	85.9	1740	63.3	14.4	0.010	0.12	63.2	2.3	6.4	1.1	58.3	<0.01	0.08
ZZ41090		0.53	18.6	670	16.2	8.1	0.001	0.01	3.11	2.4	0.5	0.5	16.8	<0.01	0.02
ZZ41091		0.18	4.5	430	7.1	5.6	<0.001	0.02	0.27	0.5	<0.2	0.3	9.2	<0.01	<0.01
ZZ41092		0.72	22.2	760	16.0	6.6	0.001	0.01	2.83	3.3	1.5	0.5	19.8	<0.01	0.02
ZZ41093		0.69	29.3	920	16.7	8.6	<0.001	0.01	1.88	6.4	1.1	0.5	28.6	<0.01	<0.01
ZZ41094		0.25	21.1	1070	22.2	5.3	0.011	0.03	6.75	1.5	2.8	0.5	22.8	<0.01	<0.01
ZZ41095		0.55	18.4	990	17.7	9.4	0.001	0.02	1.61	3.1	1.2	0.5	19.3	<0.01	0.03
ZZ41096		0.94	8.7	410	14.2	8.3	<0.001	0.02	1.19	1.4	0.6	0.6	7.4	<0.01	0.01
ZZ41097		1.01	11.8	400	10.9	7.3	<0.001	0.01	1.06	1.9	0.6	0.6	11.7	<0.01	<0.01
ZZ41098		0.60	36.4	890	19.5	8.2	0.003	0.02	6.46	4.0	1.9	0.5	25.6	<0.01	0.03
ZZ41099		1.67	16.2	570	15.8	12.2	0.001	0.02	1.68	2.7	0.5	0.6	11.8	0.01	0.01
ZZ41100		0.68	9.2	660	11.7	7.8	0.001	0.03	0.68	1.4	0.6	0.7	15.0	<0.01	<0.01
ZZ41101		0.87	23.7	940	20.0	8.9	0.001	0.02	3.02	3.3	0.9	0.7	26.2	<0.01	0.02
ZZ41102		0.47	10.9	740	38.4	10.6	<0.001	0.03	3.40	1.9	0.8	0.5	19.6	<0.01	0.01
ZZ41103		0.44	10.6	1020	17.1	13.4	<0.001	0.04	1.18	1.3	0.6	0.6	34.8	<0.01	0.01
ZZ41104		0.59	15.7	900	19.9	6.7	<0.001	0.03	1.22	1.9	0.6	0.5	27.3	<0.01	<0.01
ZZ41105		0.88	17.8	410	26.1	15.3	<0.001	0.01	1.82	2.7	0.4	0.7	11.9	<0.01	0.02
ZZ41106		1.07	15.3	440	13.6	9.0	<0.001	<0.01	0.93	2.5	0.7	0.6	15.3	<0.01	0.03
ZZ41107		0.51	57.3	850	15.3	9.3	0.002	0.06	3.51	3.8	1.0	0.6	33.8	<0.01	0.03
ZZ41108		0.68	20.9	740	19.8	9.0	0.002	0.01	3.78	3.8	0.9	1.1	22.3	<0.01	0.05
ZZ41109		0.88	36.6	1050	27.5	7.9	<0.001	0.02	3.29	3.6	1.0	1.0	34.0	<0.01	0.12
ZZ41110		0.93	30.2	1040	42.4	11.7	0.001	0.03	2.53	3.7	0.6	2.4	25.2	<0.01	0.08
ZZ41111		0.71	28.5	990	34.1	9.7	<0.001	0.04	3.52	3.2	0.9	1.3	26.0	<0.01	0.08
ZZ41112		0.66	23.3	1190	46.9	8.5	0.001	0.04	8.43	2.4	1.3	2.3	34.1	<0.01	0.14
ZZ41113		0.55	18.9	960	55.1	10.1	<0.001	0.07	6.33	1.3	0.8	2.9	27.1	<0.01	0.18
ZZ41114		0.64	23.0	1200	61.8	14.8	0.001	0.07	6.09	1.9	1.5	3.4	26.3	<0.01	0.26
ZZ41115		0.70	22.9	1240	77.6	20.4	<0.001	0.06	5.37	2.7	1.8	3.0	28.4	<0.01	0.45
ZZ41116		0.63	21.0	1260	67.8	15.2	<0.001	0.08	4.56	2.1	2.0	3.1	32.8	<0.01	0.42
ZZ41117		0.88	11.0	790	29.8	9.3	<0.001	0.06	2.46	1.7	1.9	2.4	14.8	0.01	0.25
ZZ41118		0.47	21.5	1250	58.5	12.5	0.001	0.06	6.32	1.5	1.1	2.8	24.1	<0.01	0.11
ZZ41119		0.45	10.0	720	23.2	7.1	<0.001	0.05	1.62	0.5	0.8	0.9	18.9	<0.01	0.02
ZZ41120		0.69	32.3	770	122.0	10.6	<0.001	0.03	11.90	2.3	1.6	1.7	23.1	<0.01	0.08



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41081		0.016	0.09	0.54	32	0.12	2.67	70	<0.5
ZZ41082		0.013	0.51	9.06	179	0.14	25.4	496	1.1
ZZ41083		0.021	0.04	0.22	31	0.09	0.84	24	<0.5
ZZ41084		0.021	0.11	0.77	28	0.11	4.50	71	<0.5
ZZ41085		0.011	0.14	0.74	43	0.12	5.19	101	<0.5
ZZ41086		0.025	0.16	2.75	44	0.30	20.5	201	1.0
ZZ41087		0.007	0.11	1.27	62	0.07	11.90	281	3.9
ZZ41088		0.014	0.08	0.89	34	0.08	5.81	124	1.2
ZZ41089		0.022	0.46	8.06	185	0.24	14.50	951	0.6
ZZ41090		0.011	0.11	0.68	62	0.14	5.37	132	0.7
ZZ41091		0.014	0.05	0.57	22	0.07	3.56	33	<0.5
ZZ41092		0.025	0.13	1.07	46	0.23	9.21	119	0.5
ZZ41093		0.018	0.16	0.99	39	0.14	15.90	103	2.0
ZZ41094		0.046	0.12	1.59	77	0.06	6.65	293	0.5
ZZ41095		0.014	0.17	1.95	48	0.21	8.68	169	0.7
ZZ41096		0.021	0.11	0.85	52	0.25	3.79	55	<0.5
ZZ41097		0.028	0.13	0.59	46	0.43	3.34	56	<0.5
ZZ41098		0.017	0.20	1.65	62	0.15	10.95	189	1.4
ZZ41099		0.038	0.14	0.73	60	0.38	3.33	101	2.2
ZZ41100		0.021	0.14	1.13	30	0.37	4.66	114	<0.5
ZZ41101		0.040	0.15	1.51	43	0.59	9.52	239	0.8
ZZ41102		0.014	0.14	2.36	30	0.20	8.60	544	<0.5
ZZ41103		0.015	0.12	3.02	44	0.44	6.74	71	<0.5
ZZ41104		0.019	0.10	1.92	36	0.19	7.32	72	<0.5
ZZ41105		0.014	0.13	0.63	45	0.19	4.00	135	1.8
ZZ41106		0.031	0.12	0.69	47	0.33	4.52	60	0.5
ZZ41107		0.014	0.20	1.73	58	0.32	13.90	205	2.2
ZZ41108		0.022	0.18	1.22	50	0.31	9.20	146	1.5
ZZ41109		0.037	0.16	2.17	60	0.35	13.25	184	0.9
ZZ41110		0.036	0.19	1.68	69	0.60	14.05	223	0.7
ZZ41111		0.029	0.18	1.31	65	0.93	9.51	185	0.9
ZZ41112		0.035	0.20	1.53	62	1.48	7.97	217	0.6
ZZ41113		0.025	0.27	1.92	63	0.55	6.31	132	<0.5
ZZ41114		0.036	0.28	2.49	84	1.26	8.26	177	<0.5
ZZ41115		0.029	0.39	2.49	86	0.51	7.40	197	<0.5
ZZ41116		0.034	0.28	3.64	78	0.75	7.35	182	<0.5
ZZ41117		0.031	0.23	5.41	47	0.64	5.81	70	<0.5
ZZ41118		0.029	0.26	2.90	68	0.60	6.59	137	<0.5
ZZ41119		0.021	0.18	0.94	47	0.28	2.95	62	<0.5
ZZ41120		0.025	0.20	1.45	75	0.30	7.41	170	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ41121		0.32	0.010	2.93	2.25	64.2	<0.2	<10	350	1.06	7.97	0.45	5.50	34.2	8.0	39
ZZ41122		0.22	0.003	0.47	1.57	41.2	<0.2	<10	180	0.56	0.40	0.10	1.82	26.5	5.8	26
ZZ41123		0.22	0.004	0.85	1.49	49.0	<0.2	<10	290	0.62	0.36	0.25	1.44	28.2	5.5	24
ZZ41124		0.31	0.008	0.38	1.79	118.5	<0.2	<10	270	0.87	0.49	0.11	0.58	35.3	8.8	31
ZZ41125		0.23	0.005	0.20	1.47	84.7	<0.2	<10	230	0.58	0.41	0.18	0.53	24.1	6.1	25
ZZ41126		0.25	0.013	1.20	1.35	85.6	<0.2	<10	100	0.53	3.58	0.25	1.10	31.7	4.8	18
ZZ41127		0.22	0.004	2.14	1.45	224	<0.2	<10	180	0.63	4.85	0.18	1.41	31.8	5.2	21
ZZ41128		0.28	0.005	1.97	1.36	264	<0.2	<10	230	0.55	3.69	0.15	1.41	31.9	4.5	21
ZZ41129		0.24	0.007	2.23	1.78	188.5	<0.2	<10	280	0.90	2.18	0.23	1.32	40.8	6.5	25
ZZ41130		0.15	0.004	1.04	1.29	64.1	<0.2	<10	200	0.52	1.20	0.41	1.58	24.3	5.4	18
ZZ41131		0.29	0.006	1.09	2.26	258	<0.2	<10	360	0.99	4.13	0.33	2.92	31.4	10.0	32
ZZ41132		0.30	0.007	0.64	1.11	99.4	<0.2	<10	220	0.56	0.75	0.31	1.57	37.2	8.0	21
ZZ41133		0.31	0.004	0.53	1.77	56.7	<0.2	<10	230	0.86	0.38	0.24	0.70	25.8	6.6	26
ZZ41134		0.24	0.005	0.49	1.51	77.6	<0.2	<10	240	0.79	0.37	0.24	2.29	26.4	7.3	22
ZZ41135		0.14	0.002	0.88	1.27	40.4	<0.2	<10	160	0.53	0.31	0.17	2.40	21.7	10.7	22
ZZ41136		0.20	0.004	0.31	1.57	122.5	<0.2	<10	270	0.66	0.45	0.30	0.44	24.4	6.0	24
ZZ41137		0.15	0.008	1.31	1.79	653	<0.2	<10	250	0.72	1.06	0.46	0.75	25.8	7.9	27
ZZ41138		0.30	0.001	0.42	1.53	200	<0.2	<10	190	0.53	0.59	0.17	0.39	20.0	4.8	19



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ41121		5.40	69.1	3.64	8.04	0.06	0.03	0.13	0.682	0.07	17.6	21.1	0.76	870	2.25
ZZ41122		2.19	31.1	2.63	6.38	<0.05	<0.02	0.06	0.028	0.06	13.2	15.2	0.35	232	3.50
ZZ41123		2.17	67.4	2.42	5.71	0.05	<0.02	0.11	0.041	0.07	14.0	15.5	0.35	200	8.43
ZZ41124		2.09	38.3	2.85	5.07	0.06	0.05	0.10	0.042	0.10	18.2	14.4	0.51	325	6.02
ZZ41125		2.67	15.9	2.47	6.20	<0.05	<0.02	0.06	0.025	0.10	12.2	16.4	0.50	250	3.15
ZZ41126		3.00	248	2.18	5.01	0.06	<0.02	0.10	0.127	0.05	16.7	11.4	0.29	165	3.20
ZZ41127		2.57	124.0	2.17	4.72	0.05	<0.02	0.11	0.156	0.06	17.1	9.4	0.31	204	2.60
ZZ41128		2.66	66.4	2.15	5.50	<0.05	<0.02	0.09	0.195	0.06	16.3	9.5	0.34	151	3.28
ZZ41129		2.43	98.0	2.88	5.17	0.06	0.03	0.14	0.196	0.09	19.3	14.8	0.45	289	5.46
ZZ41130		2.55	74.2	1.95	4.48	<0.05	<0.02	0.07	0.072	0.06	12.1	9.9	0.26	215	3.18
ZZ41131		6.26	124.0	3.18	6.81	0.05	0.04	0.08	0.176	0.12	15.8	21.3	0.58	626	4.84
ZZ41132		1.68	40.4	2.58	4.17	0.06	<0.02	0.05	0.062	0.10	18.8	13.2	0.40	392	8.33
ZZ41133		2.28	41.8	2.41	5.44	<0.05	0.02	0.07	0.037	0.07	13.3	16.3	0.39	308	5.18
ZZ41134		2.81	76.8	2.45	4.84	0.05	0.03	0.06	0.048	0.07	14.6	17.3	0.42	207	6.14
ZZ41135		2.59	83.4	1.91	5.12	<0.05	<0.02	0.08	0.032	0.07	10.8	11.4	0.31	487	6.50
ZZ41136		2.62	25.7	2.51	6.00	<0.05	<0.02	0.06	0.041	0.08	12.2	18.3	0.46	197	3.75
ZZ41137		6.11	29.1	2.29	6.57	0.05	0.02	0.06	0.057	0.09	12.6	20.0	1.09	338	2.36
ZZ41138		2.21	21.6	2.24	6.04	<0.05	<0.02	0.05	0.048	0.08	10.6	15.6	0.35	146	2.59



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Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ41121		1.17	40.8	960	132.5	12.7	<0.001	0.07	10.90	3.5	2.4	13.2	29.2	<0.01	0.32	2.1
ZZ41122		0.79	28.2	820	19.7	12.7	<0.001	0.04	2.35	1.4	1.5	0.9	15.1	<0.01	0.06	0.5
ZZ41123		0.55	30.8	1040	57.6	13.2	0.001	0.06	9.07	1.3	2.6	1.4	32.4	<0.01	0.05	0.4
ZZ41124		0.66	43.7	800	62.3	13.4	0.001	0.05	11.10	3.2	1.4	1.5	26.9	<0.01	0.05	3.8
ZZ41125		0.49	25.8	730	25.9	27.0	<0.001	0.04	3.26	1.0	0.6	1.0	21.4	<0.01	0.03	0.3
ZZ41126		0.67	13.4	800	57.1	11.2	<0.001	0.05	3.68	1.7	1.4	2.3	20.4	<0.01	0.17	0.5
ZZ41127		0.61	17.9	1110	141.0	12.6	0.001	0.09	16.50	1.1	1.4	6.6	19.1	<0.01	0.08	0.4
ZZ41128		0.51	18.2	920	139.5	12.5	<0.001	0.08	11.65	1.0	1.5	7.0	21.3	<0.01	0.07	0.3
ZZ41129		0.65	33.2	1260	221	13.2	<0.001	0.06	26.7	2.8	1.9	5.2	24.8	<0.01	0.09	2.1
ZZ41130		0.51	21.5	820	58.7	11.6	<0.001	0.05	5.77	1.4	1.4	2.2	24.7	<0.01	0.05	0.4
ZZ41131		0.52	46.1	1400	110.0	31.7	0.001	0.06	10.10	2.7	1.8	7.8	28.0	<0.01	0.09	1.1
ZZ41132		0.49	34.9	1500	84.2	11.5	0.001	0.05	13.80	2.3	2.5	1.9	38.9	<0.01	0.11	2.6
ZZ41133		0.48	29.4	1180	44.6	13.8	0.001	0.06	6.44	1.0	1.6	1.3	30.5	<0.01	0.05	0.4
ZZ41134		0.57	75.2	1280	57.9	12.7	0.002	0.06	9.73	1.6	1.8	1.7	39.1	<0.01	0.04	1.1
ZZ41135		0.36	35.6	1180	36.1	13.5	0.001	0.07	5.24	0.8	2.1	1.5	24.4	<0.01	0.03	0.2
ZZ41136		0.67	31.7	810	64.5	18.4	0.001	0.04	6.14	1.3	0.9	1.5	31.1	<0.01	0.04	0.5
ZZ41137		0.72	29.2	590	174.5	30.3	<0.001	0.03	3.75	2.5	0.7	3.7	29.0	<0.01	0.09	2.1
ZZ41138		0.78	21.4	510	68.5	20.3	<0.001	0.04	4.85	1.6	0.7	1.5	22.8	<0.01	0.05	0.8



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Sample Description	Method Analyte Units LOR	ME-MS41 Ti %	ME-MS41 Ti ppm	ME-MS41 U ppm	ME-MS41 V ppm	ME-MS41 W ppm	ME-MS41 Y ppm	ME-MS41 Zn ppm	ME-MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ41121		0.041	0.47	2.59	108	0.55	14.70	1230	0.8
ZZ41122		0.028	0.23	1.74	73	0.30	4.43	472	<0.5
ZZ41123		0.020	0.25	1.97	79	0.28	6.66	205	<0.5
ZZ41124		0.021	0.32	1.95	93	0.29	7.59	186	1.5
ZZ41125		0.025	0.24	0.91	70	0.25	3.94	141	<0.5
ZZ41126		0.033	0.20	3.69	51	0.69	6.88	119	<0.5
ZZ41127		0.023	0.26	2.77	56	0.29	6.62	130	<0.5
ZZ41128		0.020	0.33	2.16	68	0.38	7.31	152	<0.5
ZZ41129		0.018	0.35	2.86	99	0.30	11.00	235	0.8
ZZ41130		0.019	0.21	2.07	60	0.24	6.90	216	<0.5
ZZ41131		0.014	0.49	2.74	101	0.28	8.78	409	0.9
ZZ41132		0.025	0.30	2.24	119	0.39	8.44	290	<0.5
ZZ41133		0.018	0.28	2.73	89	0.27	6.61	205	0.5
ZZ41134		0.021	0.23	3.56	67	0.18	7.58	608	0.9
ZZ41135		0.019	0.23	3.02	56	0.18	5.16	333	<0.5
ZZ41136		0.023	0.23	1.32	72	0.23	4.75	158	<0.5
ZZ41137		0.029	0.53	1.57	60	2.08	6.71	192	0.5
ZZ41138		0.025	0.18	0.93	62	0.28	3.22	132	<0.5



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CERTIFICATE OF ANALYSIS WH12189037

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41	NSS is non- sufficient sample. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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P.O. No.:

This report is for 151 Soil samples submitted to our lab in Whitehorse, YT, Canada on 14- AUG- 2012.

The following have access to data associated with this certificate:

MATT DUMALA

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	51 anal. aqua regia ICPMS	

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40001		0.21	0.003	0.33	1.43	22.9	<0.2	<10	190	0.47	0.46	0.22	0.75	23.6	5.3	24
ZZ40002		0.27	0.008	1.33	1.66	206	<0.2	<10	140	0.82	2.00	0.47	39.4	35.4	11.6	35
ZZ40003		0.34	0.008	0.94	1.14	43.9	<0.2	<10	230	0.57	2.20	0.45	2.58	28.5	8.0	23
ZZ40004		0.22	0.005	0.79	1.32	19.1	<0.2	<10	250	0.53	0.33	0.42	1.71	25.0	5.3	20
ZZ40005		0.28	0.004	0.70	1.30	18.9	<0.2	<10	290	0.59	0.29	0.53	0.79	26.8	5.8	18
ZZ40006		0.23	0.001	0.12	0.77	14.8	<0.2	<10	130	0.26	0.21	0.09	0.54	18.30	2.8	12
ZZ40007		0.19	0.002	0.49	1.71	14.6	<0.2	<10	270	0.73	0.89	0.30	1.26	23.6	4.7	22
ZZ40008		0.21	<0.001	0.35	1.11	14.5	<0.2	<10	220	0.35	0.29	0.15	1.41	20.2	6.5	16
ZZ40009		0.24	0.003	1.14	1.70	31.7	<0.2	<10	280	0.87	0.78	0.53	3.86	29.5	6.6	25
ZZ40010		0.19	0.003	0.39	1.79	29.5	<0.2	<10	230	0.73	0.29	0.28	4.79	29.6	7.3	29
ZZ40011		0.19	0.003	2.74	1.02	493	<0.2	<10	150	0.43	3.13	0.39	3.55	15.50	8.4	18
ZZ40012		0.18	0.010	2.16	2.04	419	<0.2	<10	340	0.97	1.27	0.90	2.20	30.0	16.3	30
ZZ40013		0.22	0.003	0.65	1.09	52.5	<0.2	<10	140	0.34	0.28	0.15	1.48	11.50	3.0	17
ZZ40014		0.24	0.003	2.33	1.22	262	<0.2	<10	190	0.44	0.41	0.36	2.47	16.70	4.8	23
ZZ40015		0.24	0.005	1.38	2.10	59.9	<0.2	<10	260	1.16	0.24	0.20	1.79	25.7	12.5	28
ZZ40016		0.23	0.004	1.39	2.12	134.0	<0.2	<10	210	0.89	0.27	0.09	1.28	28.1	7.6	31
ZZ40017		0.17	0.004	0.70	1.43	81.6	<0.2	<10	180	0.59	0.20	0.56	1.90	19.15	6.5	12
ZZ40018		0.24	0.002	0.24	1.35	32.4	<0.2	<10	190	0.55	0.17	0.08	0.76	23.3	4.5	18
ZZ40019		0.23	0.007	1.36	1.70	155.0	<0.2	<10	190	0.74	0.60	1.04	4.72	20.5	7.8	23
ZZ40020		0.14	0.006	0.48	1.48	90.6	<0.2	<10	160	0.56	0.32	1.57	1.50	13.85	5.8	18
ZZ40021		0.13	0.003	0.36	1.24	42.8	<0.2	<10	150	0.45	0.25	1.76	1.48	12.20	4.7	15
ZZ40022		0.16	0.002	0.32	2.17	44.3	<0.2	<10	150	0.68	0.13	2.30	0.73	10.05	5.2	26
ZZ40023		0.31	0.003	0.41	1.73	20.3	<0.2	<10	230	0.71	0.22	1.16	0.86	22.2	7.1	22
ZZ40024		0.20	0.002	0.32	1.85	13.3	<0.2	<10	240	0.65	0.22	1.20	0.82	17.95	7.8	24
ZZ40025		0.21	0.002	0.27	1.49	10.3	<0.2	<10	180	0.53	0.17	1.03	0.35	18.35	6.0	17
ZZ40026		0.19	0.002	0.54	1.55	21.0	<0.2	<10	150	0.55	0.19	1.89	1.22	14.05	6.3	25
ZZ40027		0.17	0.001	0.41	1.66	11.7	<0.2	<10	180	0.52	0.16	1.14	0.83	14.75	6.4	20
ZZ40028		0.29	0.002	0.17	3.03	5.9	<0.2	<10	190	1.02	0.12	1.92	0.40	13.75	5.0	28
ZZ40029		0.22	0.003	0.46	1.60	18.9	<0.2	<10	190	0.56	0.20	1.49	0.70	15.35	5.8	20
ZZ40030		0.24	0.003	0.43	1.93	36.2	<0.2	<10	180	0.58	0.18	1.58	0.80	15.30	5.8	20
ZZ40031		0.17	0.001	0.32	1.88	7.8	<0.2	<10	210	0.71	0.14	1.15	0.69	17.10	5.6	18
ZZ40032		0.16	0.003	0.22	1.49	9.7	<0.2	<10	210	0.46	0.14	0.94	0.68	15.90	5.4	17
ZZ40033		0.19	0.003	0.43	2.41	14.6	<0.2	<10	210	0.84	0.20	1.74	1.34	16.45	5.4	24
ZZ40034		0.24	0.002	0.20	0.97	9.3	<0.2	<10	150	0.33	0.13	0.53	0.40	14.25	3.2	14
ZZ40035		0.35	0.002	0.26	1.27	12.6	<0.2	<10	200	0.60	0.15	0.44	0.51	20.8	7.5	20
ZZ40036		0.27	0.004	1.17	1.65	25.0	<0.2	<10	270	0.70	0.28	0.98	2.04	24.0	7.0	22
ZZ40037		0.21	0.002	0.21	1.33	9.0	<0.2	<10	160	0.44	0.12	0.70	0.33	13.90	5.7	15
ZZ40038		0.18	0.003	0.30	1.35	8.7	<0.2	<10	270	0.57	0.17	0.57	0.96	21.2	5.5	20
ZZ40039		0.37	0.006	0.59	2.17	53.7	<0.2	<10	340	0.78	0.44	0.56	2.70	33.5	12.0	32
ZZ40040		0.13	0.004	0.45	1.18	10.4	<0.2	<10	270	0.47	0.19	0.56	0.84	19.80	10.1	19



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40001		1.44	21.1	2.20	4.60	0.05	0.03	0.04	0.039	0.05	12.9	12.2	0.48	156	2.49
ZZ40002		2.49	156.0	2.67	4.80	0.08	0.02	0.06	0.712	0.07	22.1	13.7	0.60	1180	12.15
ZZ40003		2.15	39.5	3.14	3.68	0.06	0.05	0.03	0.187	0.05	13.9	11.6	0.45	313	2.26
ZZ40004		1.68	26.8	1.98	4.24	0.05	<0.02	0.10	0.036	0.07	13.6	12.5	0.39	250	2.61
ZZ40005		1.99	26.2	2.00	4.60	0.05	<0.02	0.08	0.029	0.08	14.5	11.8	0.34	307	3.03
ZZ40006		1.23	10.0	1.55	4.95	<0.05	<0.02	0.03	0.011	0.05	9.5	5.0	0.14	234	2.18
ZZ40007		1.72	35.7	2.19	5.44	<0.05	0.02	0.06	0.094	0.05	13.3	12.8	0.34	205	1.89
ZZ40008		1.49	15.6	1.75	5.07	<0.05	<0.02	0.02	0.019	0.06	10.7	6.8	0.20	438	2.65
ZZ40009		1.65	28.0	2.22	4.35	0.07	0.07	0.03	0.056	0.07	14.9	12.0	0.43	543	2.04
ZZ40010		1.50	25.2	2.72	5.76	<0.05	<0.02	0.04	0.040	0.07	14.3	17.2	0.40	343	2.87
ZZ40011		3.75	42.5	2.26	5.35	0.06	<0.02	0.04	0.335	0.08	9.4	10.9	0.50	310	4.19
ZZ40012		3.85	78.5	3.54	6.87	0.07	0.02	0.07	0.071	0.14	15.9	20.4	0.79	420	4.14
ZZ40013		1.90	32.8	1.66	3.73	<0.05	<0.02	0.05	0.025	0.09	5.9	7.3	0.29	97	2.58
ZZ40014		2.08	48.7	2.07	4.92	<0.05	<0.02	0.14	0.094	0.05	9.0	7.5	0.27	266	5.01
ZZ40015		2.43	224	3.52	6.37	0.05	0.03	0.07	0.046	0.11	14.2	21.2	0.57	320	5.82
ZZ40016		2.46	41.1	3.01	7.53	0.06	0.02	0.05	0.058	0.11	13.5	23.6	0.62	257	3.85
ZZ40017		1.19	21.2	2.04	4.03	0.05	0.04	0.05	0.030	0.04	10.3	7.2	0.24	284	1.11
ZZ40018		1.51	21.7	2.22	4.65	<0.05	<0.02	0.04	0.027	0.05	12.7	12.9	0.27	143	2.10
ZZ40019		2.45	34.6	1.81	5.32	0.08	0.04	0.07	0.046	0.08	10.4	14.1	0.84	530	1.87
ZZ40020		1.68	22.3	1.42	4.54	0.05	0.03	0.05	0.021	0.06	6.7	11.1	0.65	336	1.04
ZZ40021		1.41	31.5	1.27	3.79	<0.05	0.04	0.06	0.016	0.05	6.0	9.2	0.51	230	0.82
ZZ40022		1.97	22.4	1.22	6.19	0.05	0.04	0.04	0.016	0.10	5.0	13.7	1.29	262	0.54
ZZ40023		1.95	25.9	1.86	5.23	0.05	0.07	0.06	0.021	0.10	11.2	14.9	0.73	274	2.17
ZZ40024		2.40	22.3	1.93	5.75	0.05	0.03	0.06	0.025	0.11	9.5	17.6	0.81	354	1.13
ZZ40025		1.80	19.9	1.69	4.52	<0.05	0.03	0.04	0.013	0.07	9.5	13.1	0.49	296	1.11
ZZ40026		2.04	24.0	1.61	4.25	0.05	0.05	0.06	0.021	0.07	7.4	14.9	0.70	309	0.66
ZZ40027		1.39	21.5	1.50	5.18	<0.05	0.04	0.05	0.023	0.07	7.3	12.4	0.99	291	0.56
ZZ40028		2.08	15.9	1.66	7.46	0.08	0.07	0.03	0.019	0.20	6.6	11.1	2.56	316	0.35
ZZ40029		2.06	23.2	1.66	4.53	0.07	0.05	0.06	0.019	0.14	7.6	11.6	1.16	349	0.72
ZZ40030		1.94	27.1	1.75	5.11	0.06	0.04	0.07	0.024	0.15	7.3	12.2	1.47	319	0.52
ZZ40031		1.56	21.2	1.56	5.14	0.07	0.06	0.05	0.019	0.12	8.7	10.6	1.45	282	0.62
ZZ40032		1.51	18.7	1.51	4.15	0.05	0.04	0.05	0.016	0.09	7.9	9.6	0.96	279	0.83
ZZ40033		1.83	34.3	1.79	6.04	0.07	0.06	0.04	0.022	0.13	8.5	11.3	1.91	293	0.99
ZZ40034		1.13	21.7	1.39	3.06	<0.05	0.04	0.15	0.012	0.06	6.8	7.1	0.36	80	1.22
ZZ40035		1.97	22.1	1.98	4.18	0.07	0.03	0.05	0.020	0.12	12.0	12.8	0.56	387	2.04
ZZ40036		1.51	46.3	1.96	4.81	0.06	0.05	0.10	0.026	0.07	13.1	18.8	0.54	316	2.43
ZZ40037		2.17	26.7	1.69	4.02	<0.05	0.02	0.05	0.014	0.12	7.1	9.7	0.61	271	1.12
ZZ40038		1.49	26.6	1.71	4.51	0.05	0.04	0.08	0.020	0.07	11.3	12.8	0.48	160	1.13
ZZ40039		2.30	49.4	3.05	6.25	0.08	0.07	0.10	0.036	0.12	17.8	22.0	0.87	380	5.68
ZZ40040		1.40	22.1	1.76	4.13	<0.05	0.03	0.12	0.024	0.06	10.8	10.8	0.36	385	2.93



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ40001		0.84	24.9	560	21.3	7.0	0.002	0.01	2.39	2.6	0.6	0.9	20.3	<0.01	0.02
ZZ40002		0.81	284	1150	113.5	8.7	0.004	0.03	14.25	3.7	2.2	5.7	29.4	<0.01	0.05
ZZ40003		0.43	40.2	1240	253	5.9	0.002	0.02	7.00	2.9	1.6	2.6	38.0	<0.01	0.10
ZZ40004		0.41	22.8	1170	63.4	10.3	0.002	0.04	4.88	1.8	1.4	1.0	31.2	<0.01	0.04
ZZ40005		0.47	23.4	1210	51.8	10.2	0.002	0.04	5.17	1.7	1.2	0.9	33.6	<0.01	0.02
ZZ40006		0.53	8.6	460	25.7	12.8	0.001	0.02	2.25	1.0	0.3	0.7	10.3	<0.01	0.03
ZZ40007		0.60	21.1	740	75.1	9.1	0.002	0.04	1.95	1.6	1.2	0.7	22.1	<0.01	0.04
ZZ40008		0.27	13.1	680	32.4	19.4	0.001	0.04	2.32	0.4	0.6	0.8	21.7	<0.01	0.04
ZZ40009		0.77	54.8	1050	115.0	8.4	0.001	0.03	6.00	2.8	1.6	4.9	59.8	<0.01	0.05
ZZ40010		0.69	28.7	930	95.1	10.7	0.002	0.04	4.20	1.8	1.0	0.9	23.3	<0.01	0.03
ZZ40011		0.37	26.6	1410	355	16.8	0.002	0.10	9.33	0.9	2.1	15.9	42.7	<0.01	0.06
ZZ40012		0.77	51.7	1700	138.0	20.7	0.003	0.17	6.45	3.2	3.4	16.7	76.7	<0.01	0.05
ZZ40013		0.34	9.6	1140	41.8	10.1	0.002	0.11	1.23	0.5	1.6	1.8	60.4	<0.01	0.02
ZZ40014		0.26	20.7	1760	275	13.3	0.002	0.11	17.35	0.3	1.5	16.5	28.3	<0.01	0.05
ZZ40015		1.00	80.7	1150	93.7	17.4	0.002	0.06	8.75	2.9	2.9	3.6	41.9	<0.01	0.07
ZZ40016		1.06	30.5	660	156.0	19.1	0.001	0.05	12.75	2.5	2.2	5.7	19.1	<0.01	0.04
ZZ40017		0.58	41.7	970	94.6	6.1	0.001	0.05	9.20	1.6	0.8	7.6	28.4	<0.01	0.03
ZZ40018		0.50	19.9	640	26.4	9.3	0.001	0.02	3.54	1.3	0.7	0.8	16.0	<0.01	0.03
ZZ40019		0.78	26.6	920	97.3	18.1	0.003	0.06	11.15	2.5	2.2	3.6	42.4	<0.01	0.05
ZZ40020		0.73	18.2	710	33.9	11.7	0.002	0.09	5.58	1.7	1.4	1.7	47.6	<0.01	0.04
ZZ40021		0.64	20.0	720	21.9	10.5	0.002	0.09	12.25	1.6	1.7	0.8	52.7	<0.01	0.04
ZZ40022		0.62	17.3	610	15.1	18.1	0.002	0.07	5.91	2.4	1.0	0.8	70.8	<0.01	0.02
ZZ40023		0.96	23.7	800	20.6	15.5	0.003	0.05	4.65	3.3	1.3	0.7	50.1	<0.01	0.04
ZZ40024		1.00	23.7	780	19.4	17.1	0.002	0.07	2.72	3.0	1.4	0.6	51.1	<0.01	0.02
ZZ40025		0.71	16.6	770	12.8	11.7	0.002	0.06	2.27	2.2	0.7	0.5	42.1	<0.01	0.02
ZZ40026		0.67	27.0	750	20.2	17.7	0.003	0.10	4.62	1.8	1.3	0.8	58.4	<0.01	0.02
ZZ40027		0.76	22.7	710	23.4	15.0	0.002	0.06	13.40	2.3	1.1	1.0	38.9	<0.01	0.01
ZZ40028		1.07	16.9	490	7.5	23.0	0.001	0.04	2.69	3.4	0.5	0.5	54.9	<0.01	0.03
ZZ40029		0.95	20.0	620	16.8	19.1	<0.001	0.06	4.14	2.7	1.0	0.7	37.4	<0.01	0.03
ZZ40030		1.01	18.9	590	18.8	22.3	<0.001	0.06	5.26	2.8	1.0	0.6	36.9	<0.01	0.03
ZZ40031		0.99	17.2	660	18.4	17.2	0.001	0.06	4.62	2.5	1.0	0.6	36.5	<0.01	0.02
ZZ40032		0.87	14.7	630	12.7	14.4	0.001	0.06	2.79	2.2	1.1	0.6	32.6	<0.01	0.01
ZZ40033		1.02	24.6	730	16.5	22.3	0.001	0.07	4.88	2.9	2.0	0.9	54.6	<0.01	0.03
ZZ40034		0.64	10.5	870	13.0	8.3	0.005	0.06	5.27	1.7	2.1	0.4	28.1	<0.01	0.02
ZZ40035		1.01	18.5	860	13.9	12.2	0.001	0.02	2.82	2.8	0.9	0.6	28.6	<0.01	0.02
ZZ40036		0.77	28.1	1130	40.5	14.9	0.009	0.07	7.84	2.7	4.2	1.4	42.9	<0.01	0.05
ZZ40037		1.00	14.0	560	9.9	13.7	0.001	0.04	1.97	2.1	0.9	0.5	34.4	<0.01	0.01
ZZ40038		0.97	18.0	850	15.6	11.5	0.001	0.05	2.91	2.8	1.0	0.6	33.9	<0.01	0.02
ZZ40039		1.12	38.9	1440	33.1	21.6	0.008	0.04	6.92	4.6	2.9	1.1	45.3	<0.01	0.06
ZZ40040		0.85	14.7	900	20.0	10.3	0.003	0.07	2.93	2.5	1.6	0.8	32.0	<0.01	0.01



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40001		0.047	0.14	0.98	59	0.33	4.89	146	0.7
ZZ40002		0.051	0.18	16.05	258	0.48	19.65	5180	0.6
ZZ40003		0.037	0.12	1.79	64	0.54	9.83	515	2.2
ZZ40004		0.022	0.22	1.41	66	0.14	7.17	193	<0.5
ZZ40005		0.022	0.23	1.23	63	0.13	7.19	164	<0.5
ZZ40006		0.031	0.15	0.71	58	0.19	2.51	65	<0.5
ZZ40007		0.020	0.19	1.71	67	0.21	6.20	612	0.5
ZZ40008		0.016	0.19	0.80	64	0.32	3.76	110	<0.5
ZZ40009		0.035	0.13	1.48	91	0.13	9.48	619	1.5
ZZ40010		0.022	0.21	1.74	95	0.21	5.80	350	<0.5
ZZ40011		0.024	0.25	1.81	73	0.18	4.49	416	<0.5
ZZ40012		0.040	0.43	3.11	98	0.37	10.80	399	0.5
ZZ40013		0.024	0.16	1.50	55	0.10	2.42	70	<0.5
ZZ40014		0.009	0.34	2.66	63	0.25	3.48	390	<0.5
ZZ40015		0.034	0.28	3.05	96	0.34	6.94	820	0.9
ZZ40016		0.040	0.24	1.40	68	0.27	5.06	207	0.5
ZZ40017		0.024	0.09	1.28	41	0.13	9.18	880	1.2
ZZ40018		0.017	0.16	0.86	54	0.18	3.62	134	<0.5
ZZ40019		0.037	0.26	1.96	54	0.11	8.53	265	1.4
ZZ40020		0.033	0.17	1.15	42	0.10	5.15	128	1.3
ZZ40021		0.031	0.15	1.23	39	0.06	5.05	119	1.5
ZZ40022		0.046	0.23	1.11	39	0.07	4.24	94	1.6
ZZ40023		0.045	0.19	1.37	58	0.11	7.87	131	2.3
ZZ40024		0.048	0.18	1.30	56	0.18	6.75	147	1.4
ZZ40025		0.034	0.14	1.34	46	0.17	5.82	96	0.9
ZZ40026		0.031	0.19	1.81	67	0.12	7.42	247	1.5
ZZ40027		0.041	0.14	1.46	47	0.10	5.23	188	1.4
ZZ40028		0.073	0.20	0.96	56	0.13	6.92	47	2.5
ZZ40029		0.046	0.19	1.16	49	0.11	6.35	86	1.8
ZZ40030		0.050	0.19	1.27	47	0.11	5.85	101	1.7
ZZ40031		0.050	0.16	1.31	41	0.10	6.14	91	2.2
ZZ40032		0.038	0.15	1.16	41	0.10	5.36	97	1.5
ZZ40033		0.054	0.22	1.88	59	0.10	7.83	128	2.2
ZZ40034		0.038	0.13	1.19	45	0.07	4.02	77	1.3
ZZ40035		0.048	0.14	0.90	46	0.14	6.12	102	1.1
ZZ40036		0.024	0.20	2.90	61	0.15	10.15	260	1.8
ZZ40037		0.043	0.11	0.90	35	0.11	4.72	83	0.8
ZZ40038		0.034	0.15	1.36	50	0.16	6.70	118	1.3
ZZ40039		0.037	0.25	4.90	99	0.16	12.30	361	2.0
ZZ40040		0.021	0.17	1.87	50	0.11	5.86	105	1.0



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40041		0.18	0.003	0.38	1.38	16.8	<0.2	<10	240	0.49	0.22	0.92	0.74	20.3	7.4	23
ZZ40042		0.24	0.003	0.53	2.06	38.5	<0.2	<10	310	0.71	0.38	0.91	1.90	22.8	8.8	29
ZZ40043		0.11	0.003	0.49	1.70	13.7	<0.2	<10	280	0.66	0.36	1.07	2.39	20.0	6.5	25
ZZ40044		0.16	0.004	0.47	1.04	14.4	<0.2	<10	150	0.29	0.19	0.25	0.63	16.40	2.7	19
ZZ40045		0.22	0.003	0.39	1.83	33.2	<0.2	<10	370	0.74	0.25	0.55	2.62	32.6	11.3	29
ZZ40046		0.23	0.003	0.54	1.45	17.9	<0.2	<10	250	0.51	0.19	0.68	1.40	24.1	8.7	22
ZZ40047		0.31	0.003	0.52	1.11	16.0	<0.2	<10	200	0.44	0.17	0.46	1.55	20.9	10.0	16
ZZ40048		0.37	0.004	0.27	3.13	15.1	<0.2	<10	230	1.27	0.21	1.12	0.74	25.7	13.7	45
ZZ40049		0.27	0.004	0.69	2.50	38.2	<0.2	<10	210	0.99	0.41	0.96	1.63	25.8	13.6	34
ZZ40050		0.19	0.004	0.74	1.56	20.2	<0.2	<10	240	0.72	0.21	0.73	2.52	22.7	10.4	22
ZZ40051		0.17	0.004	0.43	1.80	20.1	<0.2	<10	300	0.57	0.52	0.51	1.32	24.7	6.5	23
ZZ40052		0.22	0.002	0.37	1.45	26.4	<0.2	<10	240	0.54	0.75	0.64	3.11	22.6	7.0	16
ZZ40053		0.28	0.004	0.80	2.51	23.9	<0.2	<10	280	1.00	0.36	0.62	1.90	31.1	10.4	38
ZZ40054		0.16	0.002	0.22	1.15	18.6	<0.2	<10	110	0.36	0.14	0.70	0.86	13.05	6.8	16
ZZ40055		0.26	0.002	0.28	1.55	12.0	<0.2	<10	160	0.55	0.15	0.48	1.19	17.70	7.7	22
ZZ40056		0.16	<0.001	0.27	1.46	8.8	<0.2	<10	120	0.58	0.11	1.28	1.02	14.90	5.7	19
ZZ40057		0.22	0.002	0.50	0.94	10.3	<0.2	<10	410	0.63	0.11	1.04	2.26	27.9	6.2	14
ZZ40058		0.26	0.002	0.28	1.04	13.0	<0.2	<10	290	0.54	0.15	1.04	0.78	30.1	6.3	14
ZZ40059		0.12	0.003	0.22	0.81	8.2	<0.2	<10	270	0.45	0.11	1.21	0.39	20.9	5.2	10
ZZ40060		0.27	0.003	0.22	0.91	8.3	<0.2	<10	250	0.57	0.13	0.90	1.09	26.0	3.5	12
ZZ40061		0.20	0.005	0.19	1.00	5.5	<0.2	<10	220	0.45	0.11	1.04	0.40	21.2	4.2	11
ZZ40062		0.28	0.009	0.26	1.15	12.9	<0.2	<10	350	0.63	0.18	0.58	0.85	36.2	7.2	16
ZZ40063		0.31	0.003	0.31	0.87	15.7	<0.2	<10	390	0.57	0.20	0.46	0.55	36.1	6.7	12
ZZ40064		0.27	0.007	0.27	1.40	15.4	<0.2	<10	180	0.66	0.25	0.45	0.43	50.6	7.6	30
ZZ40065		0.18	0.002	0.13	1.40	8.9	<0.2	<10	170	0.61	0.18	0.22	0.68	17.50	6.1	18
ZZ40066		0.26	0.002	0.16	1.41	6.8	<0.2	<10	220	0.59	0.14	0.28	0.55	33.0	6.3	18
ZZ40067		0.28	0.001	0.06	1.12	11.5	<0.2	<10	140	0.33	0.16	0.13	0.40	25.7	4.6	17
ZZ40068		0.24	0.002	0.32	1.26	7.3	<0.2	<10	160	0.57	0.09	1.11	2.21	18.15	4.6	20
ZZ40069		0.23	0.004	0.73	1.15	11.7	<0.2	<10	430	0.64	0.13	0.48	0.42	25.1	5.5	17
ZZ40070		0.31	0.002	0.37	1.43	13.1	<0.2	<10	230	0.87	0.17	0.53	1.80	31.1	7.2	20
ZZ40071		0.26	0.013	0.99	1.00	44.1	<0.2	<10	340	0.72	0.72	0.34	1.52	32.4	6.1	23
ZZ40072		0.24	0.002	0.55	0.98	10.4	<0.2	<10	190	0.42	0.20	0.21	1.67	22.7	3.6	18
ZZ40073		0.27	0.006	1.51	1.35	10.1	<0.2	<10	230	0.68	0.22	0.91	1.17	22.2	4.5	23
ZZ40074		0.25	0.009	0.41	1.68	15.4	<0.2	<10	170	0.82	0.19	0.24	0.58	23.2	5.8	36
ZZ40075		0.29	0.001	0.63	1.57	19.8	0.3	<10	180	0.66	0.22	0.10	0.59	24.0	6.0	28
ZZ40076		0.29	0.006	1.54	1.58	26.0	<0.2	<10	380	0.55	0.30	1.39	2.71	35.3	4.5	92
ZZ40077		0.19	0.003	0.30	1.41	19.6	<0.2	<10	190	0.51	0.22	0.16	0.50	27.1	5.4	22
ZZ40078		0.31	0.012	1.65	1.39	43.0	<0.2	<10	260	0.81	0.26	0.52	2.98	37.8	14.1	24
ZZ40079		0.21	0.005	0.42	1.01	9.4	<0.2	<10	130	0.51	0.18	0.50	0.69	18.05	6.3	18
ZZ40080		0.21	0.005	0.53	1.10	7.5	<0.2	<10	130	0.50	0.13	0.18	0.51	21.2	4.3	20



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40041		1.64	20.3	1.99	4.70	0.05	0.03	0.07	0.021	0.08	10.8	13.4	0.51	377	3.19
ZZ40042		2.55	41.7	2.78	6.50	0.07	0.03	0.06	0.027	0.10	12.6	18.0	0.72	366	4.21
ZZ40043		1.80	41.9	1.67	5.26	0.06	0.04	0.09	0.022	0.07	11.3	15.0	0.56	268	1.75
ZZ40044		1.54	25.1	1.25	4.12	<0.05	<0.02	0.08	0.012	0.05	8.5	9.3	0.37	72	1.12
ZZ40045		2.18	68.9	2.76	5.92	0.08	0.03	0.07	0.035	0.13	18.3	22.5	0.79	599	5.63
ZZ40046		1.73	28.5	1.97	4.79	0.06	<0.02	0.08	0.022	0.13	13.3	15.8	0.61	428	4.05
ZZ40047		1.34	25.1	1.76	3.87	0.05	0.02	0.08	0.018	0.07	11.2	12.0	0.43	781	4.13
ZZ40048		3.81	28.1	3.11	10.50	0.07	0.12	0.06	0.026	0.62	14.8	30.9	1.61	341	2.54
ZZ40049		3.05	29.7	2.55	8.50	0.07	0.04	0.08	0.086	0.26	14.1	26.4	1.01	579	1.78
ZZ40050		1.98	41.8	2.07	4.97	0.07	0.02	0.11	0.025	0.08	12.4	14.4	0.56	847	4.24
ZZ40051		1.94	36.7	2.01	5.11	0.07	0.03	0.09	0.059	0.06	14.1	14.0	0.55	347	2.10
ZZ40052		1.49	33.3	1.88	4.57	0.06	0.02	0.04	0.072	0.05	12.4	10.0	0.42	423	1.47
ZZ40053		2.95	50.5	2.76	7.77	0.08	0.04	0.13	0.043	0.13	17.4	24.3	0.92	188	2.00
ZZ40054		1.37	18.1	1.60	3.84	<0.05	<0.02	0.05	0.012	0.06	6.4	9.3	0.34	260	1.34
ZZ40055		1.73	31.2	1.87	5.55	0.05	<0.02	0.05	0.021	0.12	8.6	12.8	0.54	384	2.75
ZZ40056		1.69	23.7	1.54	4.67	0.06	0.03	0.06	0.015	0.14	7.9	12.2	0.52	204	1.24
ZZ40057		1.51	34.5	1.82	3.12	0.05	0.06	0.12	0.018	0.05	16.1	7.6	0.28	487	2.47
ZZ40058		1.25	22.8	1.98	3.32	0.06	0.06	0.11	0.023	0.07	16.5	9.9	0.45	297	1.66
ZZ40059		0.83	18.1	1.49	2.53	<0.05	0.05	0.08	0.013	0.05	11.1	6.6	0.27	542	1.53
ZZ40060		0.94	28.1	1.34	2.92	0.05	0.06	0.08	0.014	0.07	14.0	7.6	0.46	103	0.68
ZZ40061		1.14	17.8	1.30	3.23	<0.05	0.04	0.05	0.014	0.06	12.1	6.9	0.40	223	0.89
ZZ40062		1.24	21.2	2.14	3.87	0.07	0.05	0.10	0.023	0.09	19.6	10.9	0.42	365	3.72
ZZ40063		1.01	28.8	2.06	2.88	0.07	0.05	0.10	0.019	0.08	19.1	8.6	0.28	396	2.84
ZZ40064		0.76	17.2	2.31	4.83	0.07	0.06	0.06	0.039	0.03	22.2	14.7	1.04	376	2.18
ZZ40065		1.68	14.9	1.98	5.09	<0.05	<0.02	0.03	0.019	0.06	9.1	10.5	0.31	248	1.52
ZZ40066		1.84	15.0	1.66	3.99	0.05	0.02	0.03	0.018	0.08	17.0	12.3	0.80	255	1.58
ZZ40067		1.02	10.5	2.05	4.82	0.05	0.02	0.11	0.016	0.07	14.0	13.9	0.37	121	2.20
ZZ40068		1.35	26.9	1.26	3.80	0.06	0.03	0.07	0.013	0.06	9.2	9.2	0.74	289	4.31
ZZ40069		1.30	24.2	1.74	3.69	<0.05	<0.02	0.08	0.021	0.06	13.4	9.3	0.31	243	5.14
ZZ40070		1.27	26.7	2.16	4.81	0.06	<0.02	0.04	0.024	0.09	17.4	12.6	0.81	316	5.76
ZZ40071		1.84	58.3	2.10	3.84	0.06	<0.02	0.06	0.051	0.09	18.1	11.7	0.45	154	12.30
ZZ40072		1.25	36.3	1.87	5.56	0.05	<0.02	0.02	0.018	0.09	12.1	9.3	0.26	89	5.27
ZZ40073		2.91	147.0	2.04	6.92	0.07	<0.02	0.03	0.027	0.10	13.2	12.9	0.63	98	4.86
ZZ40074		2.73	123.5	2.54	6.73	0.07	0.05	0.03	0.031	0.14	12.5	23.9	0.70	172	3.17
ZZ40075		1.50	28.2	2.62	6.57	<0.05	<0.02	0.02	0.026	0.08	12.7	19.1	0.46	137	7.47
ZZ40076		1.52	73.7	2.73	7.14	0.08	0.03	0.26	0.029	0.11	25.9	12.8	0.34	108	14.25
ZZ40077		1.42	33.9	2.62	4.95	<0.05	<0.02	0.18	0.028	0.07	14.6	16.5	0.37	148	8.22
ZZ40078		2.52	96.0	2.79	5.17	0.07	<0.02	0.44	0.033	0.12	22.3	16.0	0.48	406	9.82
ZZ40079		1.78	83.6	2.04	4.20	0.05	<0.02	0.04	0.016	0.09	9.9	11.2	0.44	81	4.17
ZZ40080		1.86	91.9	1.49	4.53	<0.05	<0.02	0.05	0.018	0.08	10.8	10.2	0.35	67	3.19



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Project: SNAIL

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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40041		0.96	17.3	1090	17.6	14.0	0.002	0.06	3.19	2.4	0.9	0.7	42.9	<0.01	0.03	1.5
ZZ40042		1.16	30.5	1270	21.2	14.8	0.005	0.08	6.85	2.9	4.0	0.8	79.2	<0.01	0.04	1.3
ZZ40043		1.13	24.2	1120	14.4	14.4	0.012	0.10	4.05	2.3	1.7	0.6	45.4	<0.01	0.02	0.9
ZZ40044		0.73	13.9	700	11.7	11.5	0.003	0.04	1.93	1.5	1.5	0.6	23.0	<0.01	0.01	0.6
ZZ40045		1.15	45.5	1210	33.4	14.6	0.003	0.03	9.91	4.0	1.8	1.3	45.4	<0.01	0.06	3.7
ZZ40046		0.85	26.4	1060	28.0	12.7	0.002	0.03	6.98	2.5	1.4	0.9	44.7	<0.01	0.03	1.7
ZZ40047		0.70	17.1	790	27.6	10.2	0.002	0.03	4.33	2.2	1.9	0.7	27.8	<0.01	0.04	1.4
ZZ40048		1.87	40.6	970	20.2	45.5	0.001	0.04	6.04	5.5	0.7	1.2	85.3	<0.01	0.03	7.2
ZZ40049		1.60	32.6	1010	44.2	27.1	0.002	0.04	4.08	4.3	1.2	0.9	80.2	<0.01	0.05	3.1
ZZ40050		1.02	32.2	1030	36.0	11.5	0.002	0.06	6.35	2.9	2.5	0.8	40.5	<0.01	0.03	1.2
ZZ40051		0.91	27.0	1160	26.7	10.5	0.004	0.06	3.61	2.5	1.9	1.8	40.5	<0.01	0.04	1.3
ZZ40052		0.80	21.4	880	37.1	10.0	0.002	0.03	3.54	2.4	1.2	1.7	44.2	<0.01	0.05	1.3
ZZ40053		1.88	41.2	1240	33.0	23.9	0.002	0.06	5.40	4.6	2.3	1.2	38.6	<0.01	0.06	2.6
ZZ40054		0.78	15.3	650	8.4	11.1	<0.001	0.05	1.89	1.4	0.5	0.4	29.3	<0.01	0.03	0.7
ZZ40055		1.10	22.6	680	16.2	15.9	0.001	0.03	3.44	2.2	0.9	0.7	35.6	<0.01	0.02	1.1
ZZ40056		1.16	20.6	560	11.2	14.8	0.001	0.04	3.19	2.5	0.8	0.5	46.1	<0.01	0.03	1.5
ZZ40057		0.46	33.4	780	12.6	6.1	0.001	0.05	2.86	2.8	1.6	0.4	38.1	<0.01	0.03	1.4
ZZ40058		0.45	18.6	730	11.7	7.7	0.001	0.04	2.44	2.9	0.9	0.4	40.1	<0.01	0.04	1.8
ZZ40059		0.43	13.2	630	7.7	5.9	0.001	0.06	1.97	2.0	0.9	0.3	40.3	<0.01	0.02	1.1
ZZ40060		0.51	16.9	560	10.6	7.3	0.002	0.05	2.22	2.5	1.3	0.4	30.7	<0.01	0.02	1.8
ZZ40061		0.60	12.8	480	7.4	8.2	0.001	0.04	1.07	1.9	0.9	0.3	33.5	<0.01	<0.01	0.9
ZZ40062		0.51	21.3	800	17.1	9.3	0.002	0.04	2.43	3.3	1.3	0.5	32.6	<0.01	0.04	2.5
ZZ40063		0.40	20.7	880	13.0	6.1	0.001	0.01	2.53	3.4	0.9	0.5	30.3	<0.01	0.04	4.2
ZZ40064		0.25	30.6	460	20.0	4.3	0.001	0.02	2.69	4.9	1.2	0.6	22.9	<0.01	0.02	5.0
ZZ40065		0.94	12.9	400	8.5	12.6	<0.001	0.03	0.53	1.5	0.5	0.6	19.4	<0.01	0.05	0.8
ZZ40066		0.77	18.4	380	7.9	12.7	<0.001	0.02	0.76	2.7	0.6	0.6	14.0	<0.01	0.02	3.0
ZZ40067		0.99	13.5	190	9.0	15.2	<0.001	0.02	0.99	2.2	0.5	0.7	10.7	<0.01	0.02	2.9
ZZ40068		0.59	31.5	740	6.7	13.0	0.008	0.06	1.44	1.7	2.3	0.8	36.6	<0.01	0.01	0.9
ZZ40069		0.51	23.5	520	12.0	9.2	0.001	0.04	2.07	1.7	1.1	0.6	24.7	<0.01	0.03	0.8
ZZ40070		0.80	41.7	450	12.6	12.6	0.001	0.02	1.95	2.7	1.4	0.7	26.5	<0.01	0.04	1.7
ZZ40071		0.60	43.0	1270	106.0	10.4	0.001	0.05	7.23	1.9	2.2	1.3	35.1	<0.01	0.05	0.9
ZZ40072		1.25	14.1	1460	11.7	18.5	0.001	0.05	1.49	1.8	1.4	0.7	39.2	<0.01	0.03	1.2
ZZ40073		0.83	28.3	3860	12.4	22.7	<0.001	0.07	1.86	1.3	2.4	0.9	52.0	<0.01	0.08	0.5
ZZ40074		2.98	35.0	1660	12.5	24.6	<0.001	0.07	1.33	2.8	1.8	0.8	52.4	<0.01	0.05	3.3
ZZ40075		1.44	28.0	360	12.2	12.1	<0.001	0.04	2.77	2.7	1.5	1.0	17.1	<0.01	0.04	1.8
ZZ40076		0.95	39.5	7900	16.6	12.8	0.001	0.06	16.85	4.4	6.7	1.6	44.4	<0.01	0.19	4.3
ZZ40077		0.88	22.8	1300	14.6	11.5	0.001	0.04	4.62	2.5	2.0	0.8	16.5	<0.01	0.05	2.0
ZZ40078		0.32	43.5	1940	163.5	15.8	0.004	0.11	15.15	1.3	4.4	2.7	43.1	<0.01	0.11	0.3
ZZ40079		0.58	20.6	960	6.1	13.1	0.001	0.10	2.16	1.2	3.1	0.4	29.9	0.01	0.04	0.2
ZZ40080		0.64	17.6	630	7.6	15.5	0.001	0.05	1.47	1.1	1.6	0.5	17.1	<0.01	0.03	0.3



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40041		0.033	0.17	1.67	79	0.14	5.77	159	1.1
ZZ40042		0.047	0.22	2.03	95	0.18	7.04	236	0.9
ZZ40043		0.036	0.21	2.17	63	0.13	8.10	187	1.3
ZZ40044		0.029	0.17	1.30	45	0.24	3.29	107	<0.5
ZZ40045		0.045	0.23	1.77	101	0.28	10.00	375	1.3
ZZ40046		0.036	0.19	1.27	77	0.15	6.49	224	<0.5
ZZ40047		0.027	0.15	1.81	52	0.10	6.64	134	0.6
ZZ40048		0.101	0.36	1.14	66	0.18	6.89	190	4.6
ZZ40049		0.069	0.22	1.81	62	0.17	7.62	291	1.4
ZZ40050		0.042	0.22	2.36	71	0.13	10.05	261	0.7
ZZ40051		0.038	0.20	2.28	66	0.57	8.78	300	0.8
ZZ40052		0.041	0.14	1.70	56	0.25	8.47	264	0.6
ZZ40053		0.061	0.27	3.42	97	0.27	11.50	313	1.6
ZZ40054		0.044	0.10	0.98	38	0.10	3.93	93	<0.5
ZZ40055		0.048	0.15	1.12	61	0.22	4.63	163	0.5
ZZ40056		0.052	0.14	0.92	45	0.09	6.19	110	1.2
ZZ40057		0.013	0.15	3.39	57	0.10	12.75	171	1.9
ZZ40058		0.011	0.14	1.37	43	0.10	10.30	116	1.6
ZZ40059		0.010	0.10	1.26	24	0.07	7.29	60	1.5
ZZ40060		0.017	0.12	1.90	33	0.09	10.40	99	1.8
ZZ40061		0.021	0.12	1.40	30	0.13	7.74	63	1.2
ZZ40062		0.013	0.16	1.88	47	0.19	12.20	123	1.6
ZZ40063		0.014	0.14	1.08	38	0.11	10.35	102	1.8
ZZ40064		0.005	0.15	0.58	95	0.09	9.97	65	2.0
ZZ40065		0.030	0.11	0.54	46	0.31	3.02	80	<0.5
ZZ40066		0.023	0.14	0.96	29	0.14	8.39	73	0.9
ZZ40067		0.017	0.14	0.46	48	0.23	3.02	65	1.0
ZZ40068		0.026	0.12	6.47	55	0.20	9.48	115	1.2
ZZ40069		0.012	0.18	2.42	92	0.17	7.26	92	<0.5
ZZ40070		0.020	0.16	1.48	66	0.45	8.41	195	<0.5
ZZ40071		0.023	0.28	2.58	114	0.28	11.60	264	<0.5
ZZ40072		0.037	0.22	1.59	64	0.25	4.53	122	<0.5
ZZ40073		0.037	0.21	2.36	69	0.30	8.31	202	<0.5
ZZ40074		0.060	0.24	1.06	53	0.39	5.73	116	1.7
ZZ40075		0.030	0.22	1.40	178	0.44	4.37	102	<0.5
ZZ40076		0.030	1.11	8.04	636	0.41	23.1	284	1.6
ZZ40077		0.019	0.47	1.39	78	0.35	5.86	94	<0.5
ZZ40078		0.015	0.77	3.31	107	0.33	13.40	258	<0.5
ZZ40079		0.033	0.18	1.87	71	0.17	4.06	82	<0.5
ZZ40080		0.023	0.22	2.47	64	0.17	3.75	90	<0.5



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CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40081		0.23	0.039	0.25	2.79	47.2	<0.2	<10	120	1.02	0.78	1.97	0.74	36.4	18.8	33
ZZ40082		0.13	0.004	0.27	0.88	19.0	<0.2	<10	120	0.43	0.11	0.27	0.36	16.35	4.1	12
ZZ40083		0.24	0.002	0.67	1.50	106.5	<0.2	<10	210	0.68	0.19	0.23	1.83	23.6	6.8	18
ZZ40084		0.23	0.003	0.55	1.30	22.7	<0.2	<10	270	0.49	0.25	1.10	1.35	18.20	9.6	19
ZZ40085		0.19	0.003	0.74	1.24	19.6	<0.2	<10	200	0.44	0.22	0.43	1.50	18.25	3.8	16
ZZ40086		0.27	0.005	0.97	1.77	67.2	<0.2	<10	260	0.69	0.34	0.37	3.69	29.8	16.8	23
ZZ40087		0.24	0.003	0.46	1.50	182.0	<0.2	<10	230	0.48	0.25	0.13	2.03	22.6	5.6	25
ZZ40088		0.29	0.003	0.75	1.35	80.3	<0.2	<10	200	0.58	0.38	0.14	1.47	21.7	4.8	21
ZZ40089		0.23	0.005	1.13	1.67	153.5	<0.2	<10	220	0.76	0.71	0.10	0.69	24.7	7.0	25
ZZ40090		0.21	0.004	1.93	1.13	143.5	<0.2	<10	260	0.46	0.52	0.19	1.53	20.6	11.3	20
ZZ40091		0.33	0.009	0.79	1.33	296	<0.2	<10	220	0.50	1.34	0.26	0.57	22.2	8.5	25
ZZ40092		0.18	0.004	0.44	1.27	206	<0.2	<10	200	0.57	0.24	0.25	4.07	23.0	8.5	19
ZZ40093		0.23	0.010	0.47	1.64	877	<0.2	<10	330	0.65	1.07	0.33	1.27	22.5	10.0	24
ZZ40094		0.25	0.004	0.51	1.46	318	<0.2	<10	220	0.57	0.36	0.12	0.57	19.15	6.1	20
ZZ40095		0.25	0.002	0.22	2.08	52.8	<0.2	<10	150	0.73	0.26	0.12	0.50	24.8	9.7	27
ZZ40096		0.22	0.002	0.45	1.55	153.0	<0.2	<10	250	0.69	0.76	0.13	1.14	18.55	5.7	21
ZZ40097		0.21	0.008	1.17	2.34	147.5	<0.2	<10	430	1.46	0.38	1.42	1.69	42.0	21.7	23
ZZ40098		0.29	0.003	0.22	1.46	37.3	<0.2	<10	180	0.48	0.37	0.17	0.55	23.3	5.6	23
ZZ40099		0.20	0.004	0.95	0.90	30.3	<0.2	<10	130	0.40	0.54	0.06	1.07	18.60	2.1	13
ZZ40100		0.19	0.011	0.76	1.50	501	<0.2	<10	160	0.47	3.80	0.19	1.09	22.6	6.4	16
ZZ40101		0.25	0.014	0.53	2.11	2430	<0.2	<10	160	0.59	8.83	0.14	1.24	27.5	6.6	19
ZZ40102		0.35	0.010	1.11	2.06	89.5	<0.2	<10	400	0.92	1.18	0.18	0.65	31.2	8.4	27
ZZ40103		0.31	0.006	1.21	1.69	109.5	<0.2	<10	540	0.80	1.63	0.55	0.90	32.5	8.7	26
ZZ40104		0.28	0.010	0.62	1.57	156.0	<0.2	<10	380	0.72	2.16	0.23	1.02	34.4	6.6	18
ZZ40105		0.24	0.007	0.54	1.24	182.5	<0.2	<10	240	0.47	2.15	0.22	0.36	22.8	4.4	13
ZZ40106		0.21	0.004	0.21	1.71	18.7	<0.2	<10	200	0.58	0.34	0.24	0.63	34.5	9.2	24
ZZ40107		0.21	0.005	0.57	1.84	20.8	<0.2	<10	310	0.69	1.22	0.58	0.54	42.5	9.0	19
ZZ40108		0.19	0.041	0.28	1.31	10.9	<0.2	<10	280	0.52	0.83	0.48	2.27	21.6	8.1	16
ZZ40109		0.27	0.006	0.34	1.63	37.3	<0.2	<10	220	0.57	0.98	0.22	0.57	26.7	8.4	17
ZZ40110		0.23	0.003	0.52	1.66	67.7	<0.2	<10	310	0.59	1.21	0.42	1.25	30.3	9.9	18
ZZ40111		0.27	0.008	0.17	2.10	21.4	<0.2	<10	290	0.73	0.46	0.23	0.80	40.9	11.4	28
ZZ40112		0.23	0.012	0.28	1.48	12.4	<0.2	<10	240	0.60	0.34	0.16	0.98	23.8	5.9	21
ZZ40113		0.23	0.003	0.25	2.24	9.8	<0.2	<10	240	0.61	0.19	0.32	0.38	36.1	9.4	21
ZZ40114		0.36	0.003	0.27	1.72	12.8	<0.2	<10	240	0.60	0.20	0.31	0.29	31.6	8.6	21
ZZ40115		0.22	0.002	0.16	1.55	15.1	<0.2	<10	150	0.55	0.27	0.14	0.18	27.8	7.0	24
ZZ40116		0.34	0.003	0.07	1.24	17.4	<0.2	<10	170	0.52	0.27	0.17	0.24	23.4	7.4	22
ZZ40117		0.24	0.002	0.16	2.34	11.6	<0.2	<10	190	0.57	0.21	0.26	0.57	29.1	10.9	21
ZZ40118		0.28	0.004	0.13	2.33	13.4	<0.2	<10	180	0.57	0.25	0.13	0.54	30.0	7.2	23
ZZ40119		0.29	0.003	0.37	2.12	44.9	<0.2	<10	230	0.71	0.25	0.23	0.68	34.4	10.4	30
ZZ40120		0.29	0.009	0.54	2.57	21.8	<0.2	<10	590	1.08	0.34	0.51	0.69	42.1	12.5	38



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40081		3.73	166.0	4.69	10.40	0.09	0.03	0.04	0.034	0.15	20.7	20.4	2.61	304	10.10
ZZ40082		1.21	53.1	1.19	3.34	<0.05	<0.02	0.05	0.013	0.06	7.9	6.6	0.23	59	1.84
ZZ40083		1.60	32.9	2.20	5.45	0.05	<0.02	9.31	0.031	0.04	12.0	10.6	0.27	428	1.55
ZZ40084		1.61	38.0	2.32	4.60	<0.05	0.03	0.06	0.028	0.06	10.1	11.7	0.36	380	1.63
ZZ40085		1.94	52.6	1.22	3.92	<0.05	<0.02	0.09	0.022	0.04	9.1	7.4	0.15	81	1.04
ZZ40086		3.37	108.5	2.79	5.73	<0.05	0.03	0.07	0.078	0.07	15.0	16.9	0.41	412	16.65
ZZ40087		1.77	33.1	2.56	6.24	<0.05	<0.02	0.04	0.033	0.07	12.7	14.4	0.37	272	4.10
ZZ40088		1.86	25.7	2.45	6.06	0.05	<0.02	0.05	0.050	0.08	11.7	14.0	0.32	232	2.37
ZZ40089		2.10	22.9	3.14	5.12	0.05	0.04	0.06	0.068	0.09	12.6	18.1	0.44	188	2.30
ZZ40090		3.69	26.9	2.51	5.78	<0.05	<0.02	0.02	0.034	0.11	11.5	10.0	0.38	491	1.82
ZZ40091		1.83	33.3	2.87	5.73	<0.05	<0.02	0.02	0.040	0.06	11.7	17.3	0.43	275	2.85
ZZ40092		1.79	51.0	2.46	4.90	0.06	<0.02	0.03	0.030	0.06	11.9	14.4	0.30	207	6.39
ZZ40093		3.39	30.0	2.25	5.27	<0.05	<0.02	0.03	0.188	0.06	12.2	23.5	0.48	283	1.76
ZZ40094		1.81	26.2	2.41	6.15	<0.05	<0.02	0.04	0.029	0.05	10.2	14.6	0.30	260	2.75
ZZ40095		1.95	37.7	2.84	6.66	<0.05	<0.02	0.04	0.024	0.04	13.3	19.9	0.42	193	2.45
ZZ40096		2.31	27.1	2.40	7.17	<0.05	<0.02	0.08	0.060	0.05	10.1	16.3	0.34	214	2.35
ZZ40097		5.28	204	2.80	5.92	0.08	0.03	0.16	0.052	0.09	22.8	13.8	0.41	704	8.25
ZZ40098		1.68	14.6	2.57	5.57	<0.05	<0.02	0.07	0.027	0.05	12.5	13.9	0.48	186	2.03
ZZ40099		1.50	18.0	1.28	4.91	<0.05	<0.02	0.05	0.024	0.03	9.8	3.5	0.07	84	1.63
ZZ40100		3.86	88.9	2.19	5.11	0.05	<0.02	0.06	0.049	0.05	11.5	9.6	0.34	195	2.66
ZZ40101		4.85	73.9	3.47	5.91	0.07	0.03	0.08	0.036	0.07	13.8	10.2	0.29	210	2.27
ZZ40102		2.55	49.1	2.96	5.46	0.07	0.11	0.17	0.063	0.09	16.5	17.0	0.56	254	7.67
ZZ40103		2.42	59.7	3.04	5.58	0.07	0.07	0.16	0.088	0.10	17.4	15.9	0.52	367	5.85
ZZ40104		2.63	43.3	3.01	5.12	0.07	0.02	0.08	0.053	0.08	17.2	12.9	0.38	263	4.42
ZZ40105		2.23	48.0	2.08	4.09	0.05	<0.02	0.08	0.052	0.07	11.7	7.9	0.27	213	3.38
ZZ40106		2.31	19.4	2.81	5.26	0.06	0.03	0.07	0.023	0.07	15.2	12.9	0.45	327	1.80
ZZ40107		2.56	23.0	2.72	5.64	0.08	0.04	0.06	0.046	0.07	21.0	13.0	0.50	523	1.66
ZZ40108		1.69	20.3	2.14	4.76	0.05	<0.02	0.07	0.028	0.07	10.2	9.1	0.30	669	1.74
ZZ40109		2.27	21.1	2.41	5.18	0.06	0.02	0.05	0.041	0.05	12.2	10.7	0.35	468	1.54
ZZ40110		2.25	22.7	2.42	5.31	0.06	0.03	0.08	0.058	0.08	13.9	12.4	0.40	558	1.67
ZZ40111		2.70	25.7	3.00	6.23	0.07	0.05	0.04	0.032	0.07	17.2	14.9	0.54	397	1.95
ZZ40112		1.68	15.8	2.50	6.57	0.05	<0.02	0.06	0.021	0.05	11.8	9.9	0.23	358	1.86
ZZ40113		2.31	20.6	2.57	7.33	0.07	0.02	0.04	0.019	0.11	17.4	14.8	0.50	385	1.50
ZZ40114		1.76	24.0	2.52	5.49	0.06	0.03	0.05	0.019	0.06	15.9	12.5	0.41	346	1.56
ZZ40115		1.87	17.1	2.72	6.39	0.06	<0.02	0.04	0.024	0.04	13.5	13.1	0.36	373	2.41
ZZ40116		1.59	13.2	2.55	5.43	0.05	<0.02	0.05	0.020	0.06	11.1	17.1	0.41	363	1.62
ZZ40117		1.84	15.0	2.49	5.95	0.06	0.05	0.06	0.018	0.07	11.5	15.7	0.50	380	1.15
ZZ40118		2.01	15.2	2.99	8.10	0.06	0.02	0.06	0.026	0.07	13.3	16.5	0.55	279	1.57
ZZ40119		2.53	28.7	3.17	7.20	0.07	0.02	0.09	0.030	0.08	15.8	16.0	0.59	504	1.92
ZZ40120		3.08	42.1	3.40	8.22	0.10	0.06	0.15	0.033	0.15	21.4	24.2	0.84	466	2.16



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ40081		0.46	83.7	7270	15.0	17.4	0.001	0.06	10.35	4.2	3.2	1.0	56.6	<0.01	0.04	3.1
ZZ40082		0.53	15.4	560	5.5	10.5	<0.001	0.05	1.20	0.7	1.5	0.3	21.9	<0.01	0.01	0.2
ZZ40083		0.78	26.1	680	29.4	9.0	<0.001	0.05	3.00	1.4	4.4	0.8	17.2	<0.01	0.05	0.7
ZZ40084		0.85	25.3	1090	20.5	10.8	0.001	0.10	2.68	1.6	0.8	0.9	45.7	<0.01	0.05	0.8
ZZ40085		0.41	18.4	1820	16.0	8.0	<0.001	0.10	1.35	0.5	1.0	0.9	24.4	<0.01	0.02	0.2
ZZ40086		0.72	62.9	1580	73.4	12.3	0.002	0.06	12.35	1.9	2.2	1.8	27.9	<0.01	0.04	0.9
ZZ40087		0.98	22.4	760	28.3	18.7	0.001	0.04	3.55	1.5	1.2	0.9	14.7	<0.01	0.03	0.6
ZZ40088		0.74	18.9	510	34.5	21.0	0.001	0.04	2.77	0.9	1.0	1.0	14.1	<0.01	0.03	0.2
ZZ40089		1.07	32.4	620	104.5	13.3	<0.001	0.05	5.44	2.8	1.6	1.3	16.8	<0.01	0.04	2.7
ZZ40090		0.86	17.1	770	45.7	45.1	<0.001	0.05	1.77	1.3	0.8	1.1	21.2	<0.01	0.05	0.5
ZZ40091		0.84	29.0	580	32.8	20.0	<0.001	0.05	2.25	1.6	0.8	0.9	21.1	<0.01	0.11	0.5
ZZ40092		0.50	57.4	1750	22.3	9.0	0.002	0.05	5.55	1.0	3.3	0.7	30.5	<0.01	0.08	0.4
ZZ40093		0.62	32.1	830	34.7	10.5	0.001	0.04	4.15	1.8	1.0	0.9	67.6	<0.01	0.07	1.1
ZZ40094		0.91	19.4	490	47.4	12.3	<0.001	0.03	2.88	1.6	0.5	1.1	22.1	<0.01	0.05	0.6
ZZ40095		1.66	25.6	340	14.6	9.2	<0.001	0.04	2.00	3.0	1.2	0.8	11.9	0.01	0.04	2.2
ZZ40096		0.83	24.7	730	59.9	12.1	<0.001	0.09	6.20	0.8	1.0	2.1	18.4	<0.01	0.05	0.2
ZZ40097		0.88	106.5	1740	46.9	19.7	0.003	0.11	4.44	2.5	5.2	1.4	65.1	<0.01	0.04	0.8
ZZ40098		0.92	17.5	840	21.8	9.7	<0.001	0.05	1.66	1.4	1.5	1.0	16.2	<0.01	0.04	0.5
ZZ40099		0.81	7.3	380	13.0	6.7	<0.001	0.03	0.52	0.7	0.6	1.1	8.4	<0.01	0.04	0.2
ZZ40100		0.68	14.0	760	22.1	14.8	<0.001	0.05	8.71	1.7	1.8	1.8	20.9	<0.01	0.14	0.5
ZZ40101		1.23	13.6	700	19.3	14.4	<0.001	0.08	3.29	2.6	3.5	1.9	24.9	0.01	0.17	1.6
ZZ40102		0.75	36.9	1190	65.8	14.1	0.001	0.07	11.45	3.6	3.4	2.7	29.8	<0.01	0.12	3.8
ZZ40103		0.60	34.8	1130	77.8	15.5	0.001	0.05	10.90	4.3	2.7	3.0	42.0	<0.01	0.11	3.5
ZZ40104		0.74	18.6	1090	45.6	15.0	<0.001	0.07	9.97	2.2	1.9	1.6	39.7	<0.01	0.18	0.9
ZZ40105		0.43	12.7	950	39.1	13.3	<0.001	0.07	7.08	1.4	1.2	2.2	41.8	<0.01	0.11	0.4
ZZ40106		1.02	21.9	880	14.3	12.2	<0.001	0.04	1.62	2.8	0.8	0.8	17.2	<0.01	0.05	2.0
ZZ40107		0.84	17.5	960	14.9	12.3	<0.001	0.03	4.09	3.6	1.3	0.9	49.7	<0.01	0.09	3.2
ZZ40108		0.45	12.8	1020	11.5	11.2	<0.001	0.08	1.09	1.2	0.9	0.6	31.3	<0.01	0.07	0.4
ZZ40109		0.47	15.4	980	17.5	8.0	<0.001	0.06	1.42	1.8	0.8	4.8	22.7	<0.01	0.06	0.7
ZZ40110		0.86	17.7	1010	34.5	9.2	<0.001	0.05	1.77	3.0	1.2	0.8	31.7	<0.01	0.06	2.2
ZZ40111		0.99	26.4	670	23.6	13.5	<0.001	0.03	1.61	4.0	0.9	0.7	22.4	<0.01	0.05	3.6
ZZ40112		0.61	14.2	750	28.1	10.5	<0.001	0.07	1.32	0.9	0.7	0.9	15.3	<0.01	0.06	<0.2
ZZ40113		1.16	17.3	900	11.7	19.4	<0.001	0.05	0.97	3.6	1.0	0.8	20.6	<0.01	0.03	1.9
ZZ40114		0.63	18.4	1010	14.4	10.5	<0.001	0.03	1.28	2.7	0.8	0.5	24.0	<0.01	0.04	1.4
ZZ40115		0.55	15.7	760	24.2	9.3	<0.001	0.05	1.34	1.4	0.8	0.7	12.2	<0.01	0.05	0.3
ZZ40116		0.81	16.3	600	12.4	9.8	0.001	0.03	1.11	2.3	0.6	0.6	12.7	<0.01	0.04	1.0
ZZ40117		1.25	21.3	560	19.2	11.8	<0.001	0.05	1.05	3.4	0.8	0.5	19.8	0.01	0.04	3.1
ZZ40118		0.96	15.8	630	32.6	11.9	<0.001	0.04	2.65	3.2	0.7	1.2	12.5	<0.01	0.05	1.7
ZZ40119		0.98	22.9	730	57.9	15.7	0.001	0.06	4.15	2.8	1.2	0.7	17.6	<0.01	0.06	0.8
ZZ40120		2.20	35.1	730	16.9	26.4	0.001	0.04	2.11	7.1	1.7	0.9	33.4	0.01	0.06	5.0



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		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40081		0.020	0.28	3.09	175	0.22	13.30	320	1.1
ZZ40082		0.021	0.12	1.39	33	0.13	3.89	52	<0.5
ZZ40083		0.021	0.12	1.19	51	0.23	5.77	240	<0.5
ZZ40084		0.023	0.12	0.92	44	0.18	4.43	174	0.7
ZZ40085		0.009	0.20	1.95	27	0.27	4.89	143	<0.5
ZZ40086		0.017	0.23	3.47	54	0.49	9.35	453	0.8
ZZ40087		0.023	0.15	1.11	59	0.26	4.25	160	<0.5
ZZ40088		0.023	0.16	1.01	54	0.28	3.64	143	<0.5
ZZ40089		0.025	0.21	0.95	57	0.27	4.72	186	0.8
ZZ40090		0.043	0.22	0.89	55	0.29	3.53	194	<0.5
ZZ40091		0.030	0.21	0.79	66	0.30	3.28	92	<0.5
ZZ40092		0.023	0.12	3.10	51	0.38	6.97	343	<0.5
ZZ40093		0.032	0.15	1.16	50	0.34	4.80	341	<0.5
ZZ40094		0.029	0.19	0.90	65	0.24	2.99	144	<0.5
ZZ40095		0.042	0.20	0.83	57	0.36	4.57	84	<0.5
ZZ40096		0.019	0.21	0.82	60	0.32	2.87	174	<0.5
ZZ40097		0.016	0.31	12.70	92	0.31	24.4	283	0.6
ZZ40098		0.028	0.19	1.08	54	0.34	4.72	80	<0.5
ZZ40099		0.025	0.16	0.72	41	0.29	2.05	36	<0.5
ZZ40100		0.030	0.22	1.59	37	2.23	4.80	101	<0.5
ZZ40101		0.043	0.19	1.44	41	5.68	4.99	89	0.7
ZZ40102		0.019	0.41	2.23	123	0.23	9.19	191	3.5
ZZ40103		0.015	0.34	2.39	112	0.27	12.05	201	1.9
ZZ40104		0.025	0.26	1.77	65	0.99	8.35	111	<0.5
ZZ40105		0.027	0.20	1.42	54	0.51	5.13	87	<0.5
ZZ40106		0.051	0.19	1.19	55	2.82	6.71	97	0.6
ZZ40107		0.042	0.15	2.83	46	0.35	11.65	85	0.9
ZZ40108		0.025	0.12	1.25	42	0.27	3.78	122	<0.5
ZZ40109		0.035	0.14	1.46	43	0.24	6.41	107	<0.5
ZZ40110		0.038	0.14	2.43	40	0.37	8.21	162	0.8
ZZ40111		0.044	0.20	2.00	57	0.49	8.63	109	1.2
ZZ40112		0.025	0.16	0.86	59	0.40	3.51	102	<0.5
ZZ40113		0.077	0.19	1.85	51	0.40	8.76	81	0.5
ZZ40114		0.041	0.15	1.97	49	0.37	7.91	83	0.5
ZZ40115		0.028	0.22	1.82	53	0.35	5.11	65	<0.5
ZZ40116		0.036	0.17	0.88	49	0.26	4.47	71	<0.5
ZZ40117		0.043	0.17	0.84	39	0.42	4.82	102	1.4
ZZ40118		0.030	0.24	0.85	55	0.29	4.63	85	<0.5
ZZ40119		0.047	0.20	1.41	56	0.30	7.67	186	<0.5
ZZ40120		0.073	0.31	1.77	67	0.28	17.20	150	1.3



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ40121		0.32	0.010	0.23	1.36	12.1	<0.2	<10	310	0.53	0.18	0.21	0.18	36.4	6.4	20
ZZ40122		0.38	0.003	0.36	1.06	11.9	<0.2	<10	350	0.54	0.23	0.35	0.66	33.2	6.7	18
ZZ40123		0.42	0.005	0.27	1.59	15.0	<0.2	<10	250	0.78	0.18	0.37	0.53	35.6	9.4	25
ZZ40124		0.29	0.007	0.28	2.08	29.5	<0.2	<10	370	0.98	0.29	0.31	0.96	38.8	13.3	32
ZZ40125		0.25	0.005	0.24	1.57	19.0	<0.2	<10	220	0.79	0.21	0.19	0.41	26.1	7.5	24
ZZ40126		0.21	0.008	0.39	1.46	21.0	<0.2	<10	220	0.66	0.20	0.33	0.55	24.0	7.9	24
ZZ40127		0.21	0.006	0.52	1.20	27.0	<0.2	<10	390	0.68	1.00	0.99	1.30	31.4	8.1	17
ZZ40128		0.31	0.007	0.52	1.30	70.4	<0.2	<10	250	0.67	2.29	0.26	1.21	35.9	7.9	18
ZZ40129		0.29	0.004	0.20	1.28	20.2	<0.2	<10	310	0.81	0.28	0.20	0.70	47.9	11.3	18
ZZ40130		0.33	0.021	0.22	1.61	116.0	<0.2	<10	240	0.73	2.67	0.17	0.61	33.5	8.4	25
ZZ40131		0.24	0.014	0.65	1.72	277	<0.2	<10	330	0.82	6.19	0.27	1.17	29.7	8.6	24
ZZ40132		0.28	0.009	0.99	1.45	140.0	<0.2	<10	380	0.69	4.47	0.43	1.38	39.9	7.9	17
ZZ40133		0.32	0.014	1.48	1.94	189.5	<0.2	<10	480	0.76	9.61	0.45	1.39	41.6	10.5	17
ZZ40134		0.36	0.008	0.61	1.26	79.5	<0.2	<10	360	0.68	2.16	0.43	0.89	40.7	6.9	21
ZZ40135		0.21	0.017	1.23	2.22	276	<0.2	<10	190	0.82	9.84	0.20	0.91	32.6	11.1	30
ZZ40136		0.28	0.005	0.53	1.77	96.4	<0.2	<10	170	0.67	1.75	0.15	0.49	26.9	5.3	23
ZZ40137		0.30	0.017	2.37	2.00	250	<0.2	<10	100	0.62	10.35	0.18	1.00	35.3	9.6	23
ZZ40138		0.20	0.013	0.99	1.74	546	<0.2	<10	170	0.55	4.40	0.19	0.29	27.5	5.8	24
ZZ40139		0.27	0.004	0.26	1.49	114.0	<0.2	<10	360	0.50	2.00	0.24	0.46	25.1	5.7	18
ZZ40140		0.28	0.004	0.57	1.47	36.3	<0.2	<10	200	0.68	0.61	0.14	0.36	27.7	4.5	21
ZZ40141		0.34	0.009	2.39	1.72	277	<0.2	<10	290	0.74	6.99	0.29	0.93	37.8	7.6	24
ZZ40142		0.31	0.009	1.22	1.64	178.0	<0.2	<10	280	0.80	2.56	0.35	1.24	40.8	9.1	24
ZZ40143		0.23	0.002	0.41	0.42	71.5	<0.2	<10	60	0.12	0.98	0.04	3.91	4.64	2.5	4
ZZ40144		0.22	0.006	0.42	1.40	64.0	<0.2	<10	150	0.49	2.28	0.22	0.94	17.20	4.9	18
ZZ40145		0.22	0.005	0.76	1.09	33.6	<0.2	<10	100	0.47	0.86	0.19	0.61	15.40	2.7	15
ZZ40146		0.35	0.006	0.67	1.69	116.0	<0.2	<10	250	0.79	1.03	0.27	1.37	29.1	7.1	25
ZZ40147		0.37	0.006	0.54	2.51	53.0	<0.2	<10	1180	1.17	0.80	1.24	1.50	26.0	10.9	48
ZZ40148		0.30	0.008	0.53	2.14	111.5	<0.2	<10	930	1.03	0.61	0.67	1.17	23.0	7.7	33
ZZ40149		0.38	0.008	0.47	2.58	157.5	<0.2	<10	480	1.16	0.48	0.70	0.86	30.2	16.4	34
ZZ40150		0.31	0.007	2.03	1.76	140.0	<0.2	<10	300	0.78	0.56	1.09	4.84	20.5	12.3	26
ZZ40151		0.22	0.007	1.80	1.92	1120	<0.2	<10	270	1.09	1.76	0.81	1.37	26.9	12.0	25



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Project: SNAIL

CERTIFICATE OF ANALYSIS WH12189036

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ40121		1.24	11.7	2.55	4.80	0.06	0.03	0.10	0.018	0.07	17.9	17.5	0.48	112	1.03
ZZ40122		1.17	21.2	2.04	3.60	0.07	0.04	0.10	0.017	0.08	16.6	14.5	0.42	141	1.89
ZZ40123		1.57	38.7	2.46	5.08	0.08	0.07	0.05	0.017	0.09	17.5	16.2	0.49	264	1.71
ZZ40124		2.28	47.7	3.53	6.32	0.08	0.06	0.09	0.031	0.12	18.6	26.2	0.70	647	2.84
ZZ40125		1.81	26.3	2.45	5.32	0.06	<0.02	0.07	0.018	0.07	12.6	15.1	0.37	279	2.15
ZZ40126		1.82	37.9	2.33	5.40	0.07	0.02	0.07	0.016	0.08	12.5	15.2	0.46	230	2.34
ZZ40127		1.28	40.8	2.22	3.92	0.06	0.07	0.14	0.030	0.07	15.8	10.1	0.36	516	1.90
ZZ40128		1.45	40.4	2.31	4.36	0.06	0.03	0.07	0.041	0.06	17.9	10.8	0.30	281	2.22
ZZ40129		1.57	30.4	2.73	3.72	0.07	0.06	0.08	0.025	0.08	22.7	13.4	0.39	482	3.40
ZZ40130		1.66	46.9	2.59	5.12	0.07	0.03	0.06	0.034	0.06	16.8	13.4	0.41	274	2.59
ZZ40131		1.89	139.5	2.89	5.35	0.08	0.03	0.06	0.165	0.06	14.9	13.8	0.40	394	2.09
ZZ40132		3.18	92.3	2.71	4.96	0.09	0.02	0.06	0.118	0.09	20.1	13.7	0.51	347	3.52
ZZ40133		4.26	152.5	3.47	6.14	0.12	0.07	0.05	0.216	0.13	20.5	15.7	0.65	417	4.43
ZZ40134		2.06	53.8	2.48	4.43	0.09	0.04	0.07	0.072	0.07	21.0	14.2	0.48	278	3.72
ZZ40135		4.89	168.0	3.52	7.44	0.08	0.02	0.09	0.195	0.09	16.6	18.8	0.62	553	4.84
ZZ40136		2.82	43.3	2.44	5.92	0.05	<0.02	0.04	0.060	0.06	14.8	12.2	0.38	280	3.24
ZZ40137		3.38	248	3.19	5.42	0.06	0.02	0.09	0.319	0.06	18.7	13.7	0.43	453	5.06
ZZ40138		2.75	70.7	2.79	5.62	<0.05	<0.02	0.05	0.087	0.05	15.3	12.3	0.42	281	5.80
ZZ40139		2.95	54.8	2.29	5.43	<0.05	<0.02	0.01	0.037	0.08	12.4	11.8	0.38	313	2.28
ZZ40140		1.89	52.5	2.23	4.36	<0.05	0.03	0.08	0.029	0.05	15.5	11.9	0.27	170	2.20
ZZ40141		2.72	93.9	2.93	5.17	0.06	0.03	0.12	0.141	0.10	20.9	14.9	0.46	455	4.17
ZZ40142		2.31	64.3	2.95	4.95	0.06	0.05	0.08	0.090	0.09	21.4	17.6	0.49	366	4.63
ZZ40143		1.49	18.1	0.81	2.34	<0.05	<0.02	0.01	0.017	0.02	2.4	0.6	0.04	223	0.89
ZZ40144		4.64	54.8	1.77	5.48	<0.05	<0.02	0.03	0.030	0.05	9.3	11.1	0.54	305	1.55
ZZ40145		1.90	56.8	1.39	3.98	<0.05	<0.02	0.04	0.017	0.04	8.6	7.1	0.26	102	1.43
ZZ40146		2.32	53.7	2.81	5.61	0.06	0.04	0.05	0.050	0.09	15.2	16.4	0.50	294	5.03
ZZ40147		3.77	133.0	2.68	9.37	0.08	0.02	0.03	0.033	0.14	15.0	23.9	1.09	366	5.66
ZZ40148		3.24	166.0	2.75	6.71	0.05	0.02	0.02	0.041	0.13	13.0	19.7	0.74	185	6.76
ZZ40149		5.45	120.0	3.22	8.11	0.08	0.04	0.05	0.040	0.15	16.8	31.1	1.50	372	4.27
ZZ40150		5.77	141.5	3.18	5.74	0.07	0.05	0.06	0.056	0.13	12.7	14.6	1.45	587	7.93
ZZ40151		3.72	53.1	2.63	6.62	0.06	0.04	0.06	0.137	0.09	14.7	18.4	0.76	639	2.52



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		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ40121		0.49	12.0	630	11.4	11.4	0.001	0.02	2.16	4.0	0.7	0.5	15.3	<0.01	0.02
ZZ40122		0.67	20.6	1040	8.3	9.2	0.001	0.01	1.65	3.6	0.8	0.5	29.0	<0.01	0.03
ZZ40123		1.24	29.6	1200	12.9	11.8	0.001	0.02	2.60	3.9	0.9	0.5	24.6	<0.01	0.03
ZZ40124		1.10	35.8	1170	19.2	14.9	0.001	0.05	5.87	4.6	1.3	0.7	25.1	<0.01	0.06
ZZ40125		0.66	20.8	1030	12.6	12.9	0.001	0.08	2.21	1.1	1.0	0.5	15.6	<0.01	0.05
ZZ40126		1.14	24.5	1040	13.4	11.6	0.001	0.08	3.06	2.1	1.7	0.6	29.7	<0.01	0.04
ZZ40127		0.61	23.9	950	24.9	8.9	0.001	0.08	3.27	3.7	1.7	0.8	29.5	<0.01	0.08
ZZ40128		0.68	26.4	910	45.7	8.3	0.001	0.03	3.55	2.7	1.3	1.4	20.7	<0.01	0.17
ZZ40129		0.47	30.8	890	20.6	8.9	0.001	0.02	4.23	3.7	1.3	0.5	21.0	<0.01	0.05
ZZ40130		0.76	26.5	680	19.1	9.3	<0.001	0.05	2.52	2.5	1.1	1.0	17.0	<0.01	0.26
ZZ40131		0.79	25.1	800	35.7	10.4	<0.001	0.04	2.66	2.7	1.3	3.3	34.6	<0.01	0.22
ZZ40132		0.73	22.7	1300	73.9	17.3	0.001	0.04	11.95	3.8	1.7	4.4	52.6	<0.01	0.15
ZZ40133		1.21	21.6	1380	101.5	21.0	0.001	0.06	21.8	5.6	2.3	7.8	116.0	<0.01	0.26
ZZ40134		0.82	26.3	1320	46.2	11.8	0.001	0.02	8.42	4.0	1.4	2.6	35.2	<0.01	0.09
ZZ40135		0.58	22.9	1240	69.6	21.4	<0.001	0.06	5.77	2.4	2.2	3.2	20.1	<0.01	0.32
ZZ40136		0.44	15.9	1080	41.6	14.7	<0.001	0.07	5.36	1.0	1.1	2.1	15.4	<0.01	0.06
ZZ40137		0.71	14.2	1090	101.0	13.7	<0.001	0.10	9.72	1.8	2.3	6.5	19.1	<0.01	0.21
ZZ40138		0.57	14.1	1030	57.2	11.9	<0.001	0.08	20.8	1.3	1.2	2.6	21.6	<0.01	0.12
ZZ40139		0.81	14.0	790	26.9	14.8	<0.001	0.06	5.72	1.8	0.8	1.5	61.1	<0.01	0.08
ZZ40140		0.99	13.7	1020	24.5	9.4	<0.001	0.08	3.24	2.0	1.1	0.9	16.2	<0.01	0.05
ZZ40141		0.76	23.9	1000	136.0	16.4	<0.001	0.09	41.5	3.2	1.8	10.2	33.1	<0.01	0.12
ZZ40142		0.83	33.6	1220	83.3	14.1	<0.001	0.07	10.05	3.8	1.5	3.1	34.7	<0.01	0.08
ZZ40143		0.16	2.4	480	16.3	4.0	<0.001	0.06	4.23	0.3	<0.2	4.2	9.3	<0.01	0.03
ZZ40144		0.48	14.1	670	29.6	11.1	<0.001	0.06	2.76	0.9	0.7	3.2	22.0	<0.01	0.10
ZZ40145		0.48	12.3	900	18.6	11.4	<0.001	0.08	1.39	0.7	0.8	0.9	18.9	<0.01	0.08
ZZ40146		0.79	35.5	1300	64.2	17.3	<0.001	0.08	9.07	2.2	1.6	2.0	40.0	<0.01	0.09
ZZ40147		0.65	43.5	4460	19.9	19.7	<0.001	0.12	5.65	1.9	2.4	0.9	159.0	<0.01	0.10
ZZ40148		0.63	45.3	2960	23.3	18.4	<0.001	0.10	6.31	1.9	2.7	1.4	145.5	<0.01	0.07
ZZ40149		1.02	114.5	2030	40.8	28.3	<0.001	0.09	6.67	3.4	1.7	1.9	98.7	<0.01	0.06
ZZ40150		0.79	126.0	1860	107.5	27.6	<0.001	0.13	17.65	2.2	2.9	4.9	58.9	<0.01	0.08
ZZ40151		0.70	34.3	1080	177.5	27.6	<0.001	0.08	9.25	2.7	1.1	3.4	44.1	<0.01	0.08



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ40121		0.010	0.15	0.84	44	0.14	6.81	66	1.0
ZZ40122		0.032	0.16	1.06	41	0.16	9.62	102	1.7
ZZ40123		0.053	0.14	1.59	50	0.40	10.20	112	1.9
ZZ40124		0.031	0.19	1.67	73	0.22	9.81	175	1.7
ZZ40125		0.027	0.15	1.27	54	0.22	5.42	79	<0.5
ZZ40126		0.043	0.14	1.43	56	0.27	5.95	127	0.7
ZZ40127		0.017	0.16	1.62	50	0.19	12.70	139	2.1
ZZ40128		0.028	0.16	1.27	49	0.38	8.27	197	0.6
ZZ40129		0.014	0.18	1.20	51	0.15	10.15	143	1.6
ZZ40130		0.035	0.15	1.50	64	0.81	7.56	107	0.6
ZZ40131		0.031	0.14	1.34	66	1.68	7.08	172	0.8
ZZ40132		0.042	0.33	1.98	66	1.27	12.30	166	<0.5
ZZ40133		0.068	0.39	2.24	77	1.38	11.90	186	2.9
ZZ40134		0.040	0.23	1.82	67	0.49	11.65	147	1.1
ZZ40135		0.029	0.40	2.86	92	0.57	8.14	210	<0.5
ZZ40136		0.022	0.28	2.47	65	0.38	5.76	100	<0.5
ZZ40137		0.030	0.30	5.53	62	0.61	8.77	191	<0.5
ZZ40138		0.030	0.27	2.84	52	0.60	5.86	94	<0.5
ZZ40139		0.043	0.22	1.23	52	1.26	4.81	75	<0.5
ZZ40140		0.025	0.22	1.92	50	0.26	6.08	66	0.6
ZZ40141		0.023	0.34	2.78	79	0.53	10.25	182	0.6
ZZ40142		0.025	0.35	2.16	86	0.34	12.35	185	1.7
ZZ40143		0.018	0.18	0.55	26	0.14	0.83	27	<0.5
ZZ40144		0.028	0.29	1.56	43	0.38	4.40	97	<0.5
ZZ40145		0.021	0.20	1.83	33	0.21	4.77	62	<0.5
ZZ40146		0.026	0.26	2.34	85	0.25	8.32	217	1.0
ZZ40147		0.044	0.28	4.48	201	0.30	13.70	325	<0.5
ZZ40148		0.036	0.25	4.11	100	0.25	9.24	301	0.6
ZZ40149		0.048	0.36	4.03	94	0.39	15.30	516	1.1
ZZ40150		0.031	0.51	8.74	120	0.33	17.95	992	1.5
ZZ40151		0.023	0.32	4.27	61	0.23	12.35	258	1.0



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CERTIFICATE OF ANALYSIS WH12189036

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).

APPENDIX IV
STATEMENT OF EXPENDITURES

Statement of Expenditures
Jar 1-16, Snail 1-106, 109-122, 127-140 & 145-262 Mineral Claims
November 19, 2012

Labour

R. Cobbett (geologist) August 2012 – 10 days @ \$697/day	\$ 7,806.40
J. Thomson-Gladish (field assistant) August 2012 – 10 days @ \$391/day	4,379.20
T. Bell (field assistant) August 2012 – 10 days @ \$357/day	3,998.40
A. Giroux (field assistant) August 2012 – 10 days @ \$357/day	<u>3,998.40</u>
	20,182.40

Expenses (including management)

Field room and board – 40 mandays @ \$180/manday	8,709.12
Trans North – 5.3 hours AStar 350 @ \$1835/hour plus fuel	13,061.67
– 4.6 hours Hughes 500D @ \$1035/hour plus fuel	6,517.90
ALS Chemex	<u>30,305.24</u>
	58,593.93

Total	<u>\$78,776.33</u>
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