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**ASSESSMENT REPORT**

describing

**GEOLOGICAL MAPPING, PROSPECTING AND GEOCHEMICAL SAMPLING**

Field work performed between August 26 and September 3, 2014

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

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

in the

Whitehorse Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**SILVER RANGE RESOURCES LTD.**

by

H. Burrell, P.Geol.  
November 2014

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## INTRODUCTION

The Snail property is located in central Yukon and was staked to cover historical geophysical and geochemical anomalies and silver-lead-zinc enriched quartz veins. The property is located within a favourable geological and geochemical trend that also encompasses a bulk-tonnage silver-zinc-lead-copper deposit and numerous silver-rich veins on the nearby Keg property. Silver Range Resources Ltd. holds 100% interests in both the Snail and Keg properties.

This report describes geological mapping, prospecting and geochemical sampling conducted by Archer, Cathro & Associates (1981) Limited on behalf of Silver Range between August 26 and September 3, 2014. The author participated in the field program and interpreted the data from this work, and her Statement of Qualifications is in Appendix I. A Statement of Expenditures is located in Appendix II.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Snail property consists of 268 contiguous mineral claims, which are located on NTS map sheets 105K/12 and 105L/09 and /16 at latitude 63°02' north and longitude 134°01' west (Figure 1). The property covers an area of approximately 5400 ha (54 km<sup>2</sup>). 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, 2023
55-106	YF3115-YF31166	March 13, 2023
109-122	YF31169-YF31182	March 13, 2023
127-140	YF31187-YF31200	March 13, 2023
145-218	YF31205-YF31278	March 13, 2023
219	YF31279	March 13, 2023
220	YF31280	March 13, 2023
221-222	YF31281-YF31282	March 13, 2023
223-228	YF31283-YF31288	March 13, 2023
229	YF31289	March 13, 2023
230	YF31290	March 13, 2023
231	YF31291	March 13, 2023
232	YF31292	March 13, 2023
233-242	YF31293-YF31302	March 13, 2023
243-244	YF31303-YF31304	March 13, 2023
245	YF31305	March 13, 2023
246	YF31306	March 13, 2023
247-260	YF31307-YF31320	March 13, 2023
261-262	YF31201-YF31202	March 13, 2023
Jar 1-16	YD118311-YD118326	March 13, 2023

\* Expiry dates include 2014 work which has been filed for assessment credit but not yet accepted.

FIGURE 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED




**PROPERTY LOCATION**

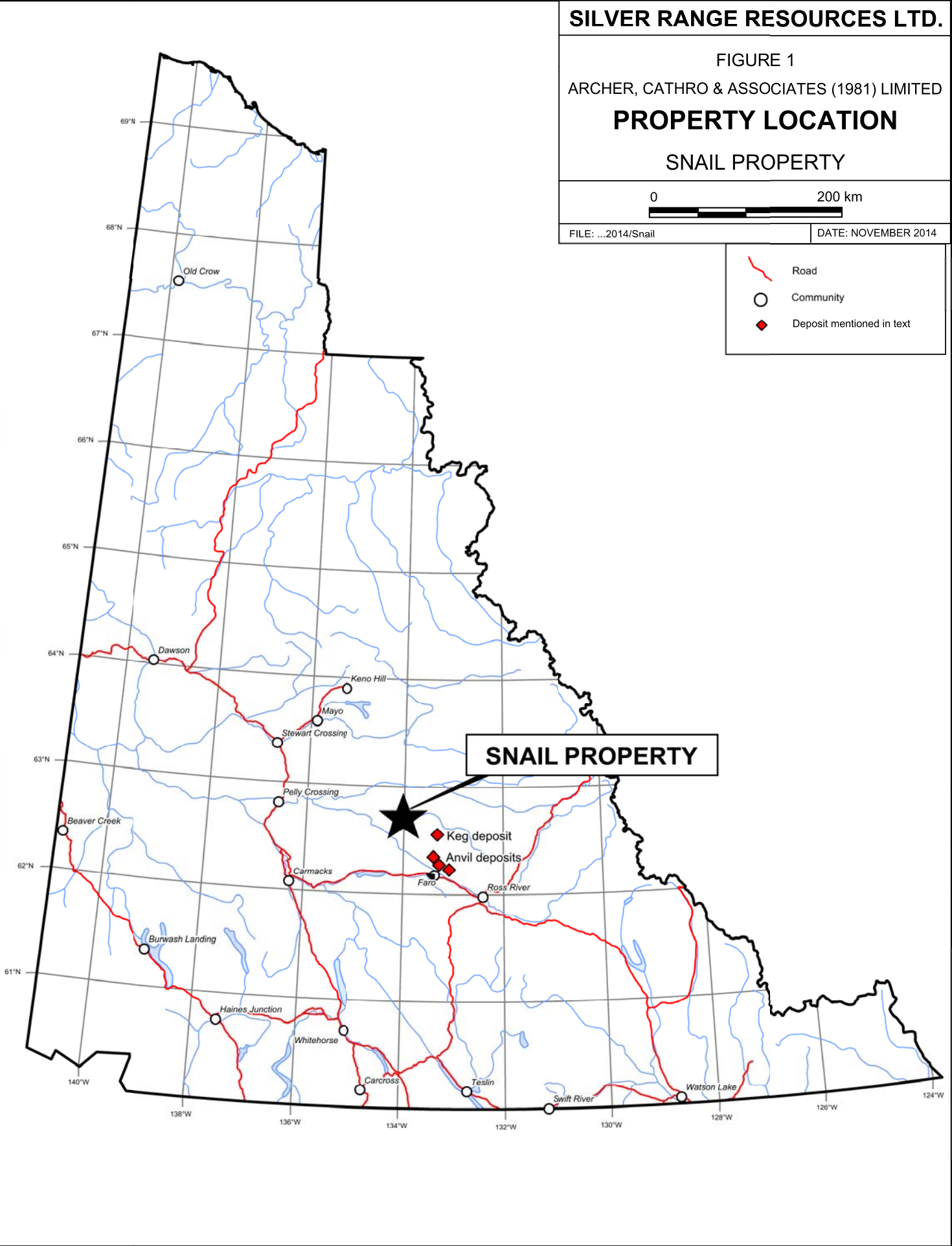
SNAIL PROPERTY

0 200 km

FILE: ...2014/Snail

DATE: NOVEMBER 2014

-  Road
-  Community
-  Deposit mentioned in text







The 2014 exploration program focused on the northwestern corner of the property, which lies approximately 125 km southeast of Mayo and 80 km northwest of Faro. Due to the remote location of the 2014 work area a multi-step process was required to cost-effectively mobilize the crew and equipment. A Caravan 208 on floats, operated by Black Sheep Aviation of Whitehorse, was used to transport gear and personnel approximately 115 km from the Mayo float plane dock to a beach at Earn Lake. From there, a Bell 206L helicopter operated by Fireweed Helicopters of Whitehorse was used to move the remaining 10 km to the Snail property. Both Mayo and Faro are accessible 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 identified several EM conductors 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 spaced too far apart to correlate the data between them with confidence (Scott, 1982). No further work was recommended and the Wad claims were allowed to expire.

Also in 1981, Getty Canadian Metals Limited staked claims, which covered the northwestern part of the current Snail property and an area to the northwest, after reconnaissance mapping and prospecting located a 20 m thick barite horizon in Devonian and Mississippian sediments. The barite occurrence contains up to 41.1% barium. In 1982, mapping and prospecting of the barite horizon traced it for over five kilometres along strike (Figure 4). A narrow pyrite horizon was found stratigraphically above the barite horizon, within a black shale unit. Samples from the pyrite horizon returned up to 1425 ppm zinc and 19.5 g/t silver. The barite and pyrite horizons have not been recognized on the Snail property. Getty also collected chip samples from two quartz veins situated immediately east of its claim block, and area now covered by the Snail property. These samples returned 1851 g/t silver, 6.5% lead and 1.3% zinc and 750 g/t silver, 6.5% lead, 0.64% zinc over 20 cm, respectively (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 sheets 105K and 105L (Friske and Hornbrook, 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 northwesterly-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 then performed geochemical sampling and prospecting to confirm historical data. Geochemical sampling on the Snail claims identified

an 800 by 1000 m area with anomalous multi-element results (Zone 1). Hand samples from quartz veins at Zone 1 returned peak values of 0.58 g/t gold, 9.81 g/t silver, 0.6% copper, 1470 ppm arsenic, 0.7% zinc, 114 ppm tin, 6.78 ppm indium, 562 ppm bismuth and 6.97 ppm tellurium. Soil sampling on the Jar claims outlined a second area with strongly elevated results for several elements (Zone 2). The Zone 2 geochemical anomaly encompasses the silver-lead-zinc veins previously discovered by Getty (Mitchell, 2012). Zone 2 and the veins are now collectively referred to as the Getty Showing. After obtaining the anomalous results, Silver Range staked additional claims to expand and connect the Snail and Jar claim blocks.

In summer 2012, Silver Range conducted geological mapping, prospecting and geochemical sampling at Zone 1 and around the Getty Showing. Rock samples of mineralized quartz veins from Zone 1 returned peak values of 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, greater than 1% arsenic, 548 ppm antimony, 65.3 ppm molybdenum and 347 ppm tellurium. Rock samples from the Getty Showing returned peak values of 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, greater than 1% arsenic, greater than 1% antimony and 15.2 ppm molybdenum (Chung, 2013).

Soil sampling in 2012 better delineated the multi-element anomaly at Zone 1 and expanded it to encompass an area of 1000 by 1200 m. Soil sampling near the Getty Showing expanded that multi-element anomaly to approximately 480 by 650 m.

In 2013, Silver Range conducted a short mapping, prospecting and geochemical sampling program near Zone 1. Results from this work confirmed earlier results. The best values were from a chip sample taken along a 20 cm wide quartz vein, which returned 4.59 g/t gold, 48.4 g/t silver, 1820 ppm bismuth, 85 ppm tellurium and 61.4 ppm tungsten (Graham, 2013). No work was done at the Getty Showing in 2013.

### **GEOMORPHOLOGY AND CLIMATE**

The Snail property is situated in the Anvil Range of the Pelly Mountains and is drained by creeks that flow into the Tay River and Menzie Creek to the south and Earn Lake to the north. 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, which is cut by the Tay River Valley. Local elevations range from 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 grass, staghorn moss and sparse brush. In the eastern part of the property, outcrop is locally abundant along ridge crests, on steep slopes and in deep creek cuts. In the central and western parts of the property, outcrop is limited to a few deeply incised creek cuts and isolated cliff exposures at the Getty Showing.

Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which 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. In the western part of the Snail property, the ice-direction during the last glacial advance was southwesterly towards a meltwater channel that parallels Menzie Creek (Figure 2).

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 in any month. The property is mostly snow free from mid-May to late September. In fall, thick fog often rises from the Tay River and engulfs low-lying areas in the central portion of the property.

### **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 bounded 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 Tintina Fault, a major strike-slip fault, is located approximately 22 km southwest of the property.

The claims lie northwest of the Anvil District, where several major zinc-lead-silver sedimentary exhalative (SEDEX) deposits have been discovered since 1953. These discoveries prompted numerous government sponsored mapping studies. 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). 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. Gordey and Makepeace completed a Yukon-wide geological compilation in 2003. The Yukon Geological Survey (YGS) maintains a website that updates Yukon geology as new data becomes available.

Figure 4 illustrates geology as compiled by YGS (2013). The main lithological units are described in Table I.

**Table I – Regional Lithological Units**

<b>Unit Name</b>	<b>Age</b>	<b>Map Name</b>	<b>Description</b>
Quaternary	Quaternary	Q	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand and gravel; 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.



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FIGURE 3

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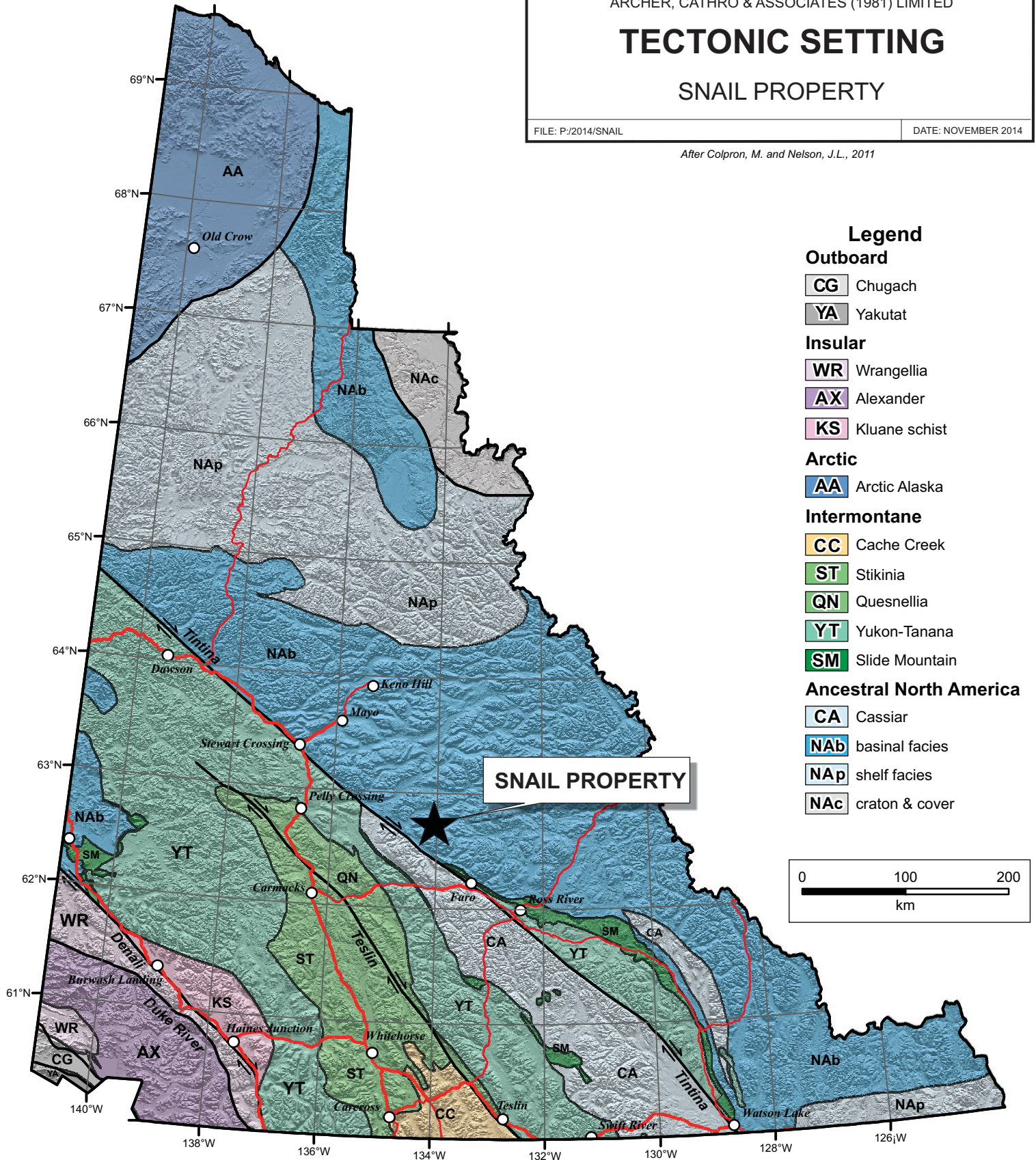
## TECTONIC SETTING

SNAIL PROPERTY

FILE: P:/2014/SNAIL

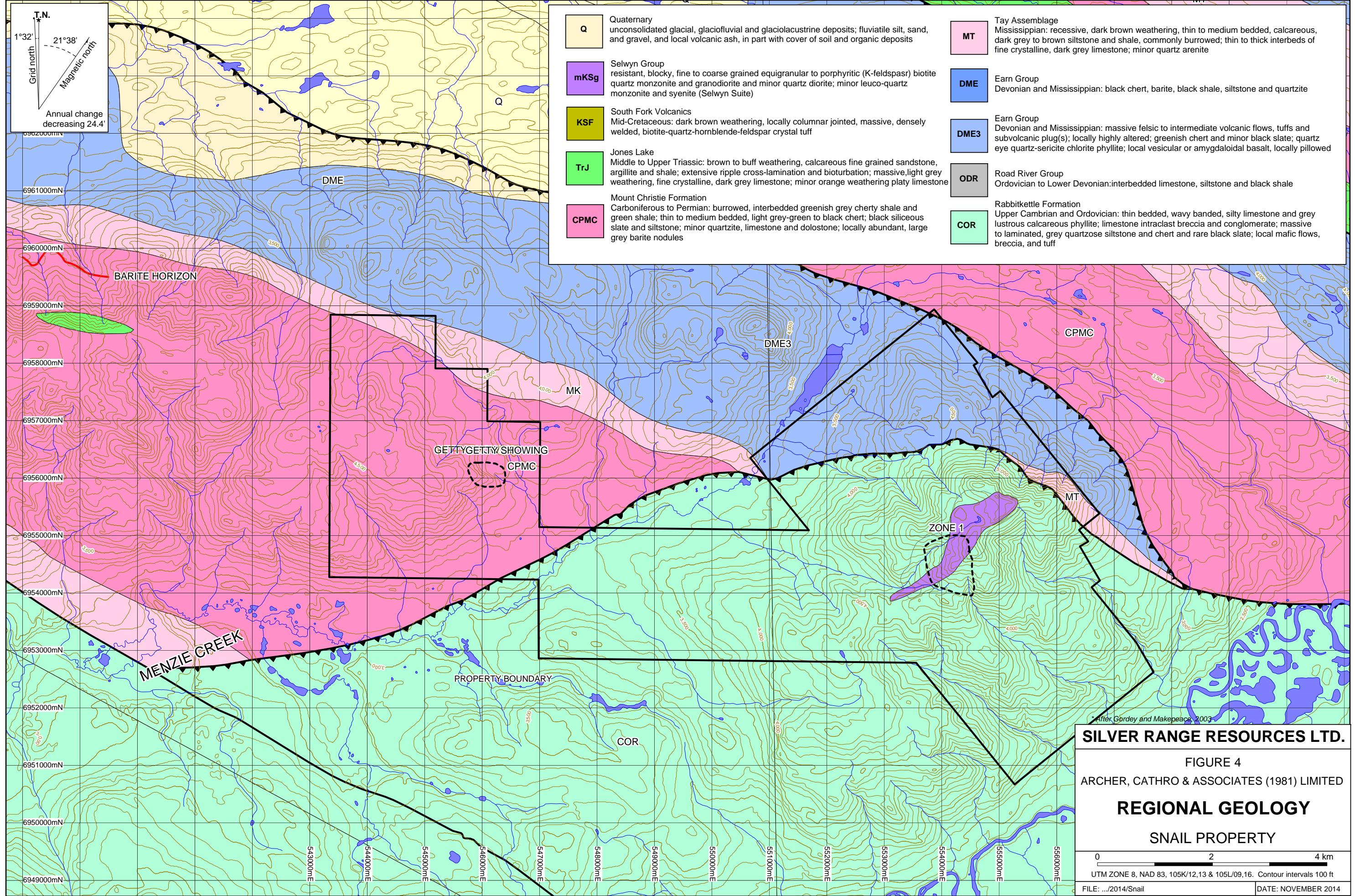
DATE: NOVEMBER 2014

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





<b>Q</b>	Quaternary unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits	<b>MT</b>	Tay Assemblage Mississippian: 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
<b>mKsg</b>	Selwyn Group 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 (Selwyn Suite)	<b>DME</b>	Earn Group Devonian and Mississippian: black chert, barite, black shale, siltstone and quartzite
<b>KSF</b>	South Fork Volcanics Mid-Cretaceous: dark brown weathering, locally columnar jointed, massive, densely welded, biotite-quartz-hornblende-feldspar crystal tuff	<b>DME3</b>	Earn Group Devonian and Mississippian: 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
<b>TrJ</b>	Jones Lake Middle to Upper Triassic: brown to buff weathering, calcareous fine grained sandstone, argillite and shale; extensive ripple cross-lamination and bioturbation; massive, light grey weathering, fine crystalline, dark grey limestone; minor orange weathering platy limestone	<b>ODR</b>	Road River Group Ordovician to Lower Devonian: interbedded limestone, siltstone and black shale
<b>CPMC</b>	Mount Christie Formation Carboniferous to Permian: 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	<b>COR</b>	Rabbitkettle Formation Upper Cambrian and Ordovician: 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



After Gordey and Makepeace, 2003

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FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REGIONAL GEOLOGY**

SNAIL PROPERTY

0 2 4 km  
UTM ZONE 8, NAD 83, 105K/12,13 & 105L/09,16. Contour intervals 100 ft

FILE: .../2014/Snail DATE: NOVEMBER 2014

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-grained 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, including isolated 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 altered; greenish chert and minor black slate; quartz eye quartz-sericite chlorite phyllite; local vesicular or amygdaloidal basalt, occasionally 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 basal 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.

### **PROPERTY GEOLOGY**

The following description of geology is based on mapping conducted by Silver Range from 2012 to 2014, Getty in 1982 and various government mappers at times as previously noted.

The property is underlain by an arcuate thrust fault that separates Rabbitkettle Formation in the south from younger sedimentary and volcanic rocks to the north. In the western portion of the property, regional-scale mapping shows Mount Christie Formation, Tay Formation and Earn Group to the north of the thrust fault; however, this mapping is somewhat suspect because detailed work in the area has identified very few outcrops.



Figure 5 illustrates mapping completed by Silver Range in 2014 north of the thrust fault, in the northwestern corner of the property. The only bedrock exposures in this area are at the Getty Showing, where two outcrops (upper and lower) are separated by a prominent recessive linear, which may mark an unmapped fault (see photo below). The outcrops are comprised of brown weathering beige chert, grey banded chert and calcareous white chert, which are all assigned to the Mount Christie Formation. Beige chert is not typical of Mount Christie Formation, but similar rocks host mineralization at the Keg Deposit where the bleached, cherty appearance is attributed to hydrothermal sericitization and silicification.

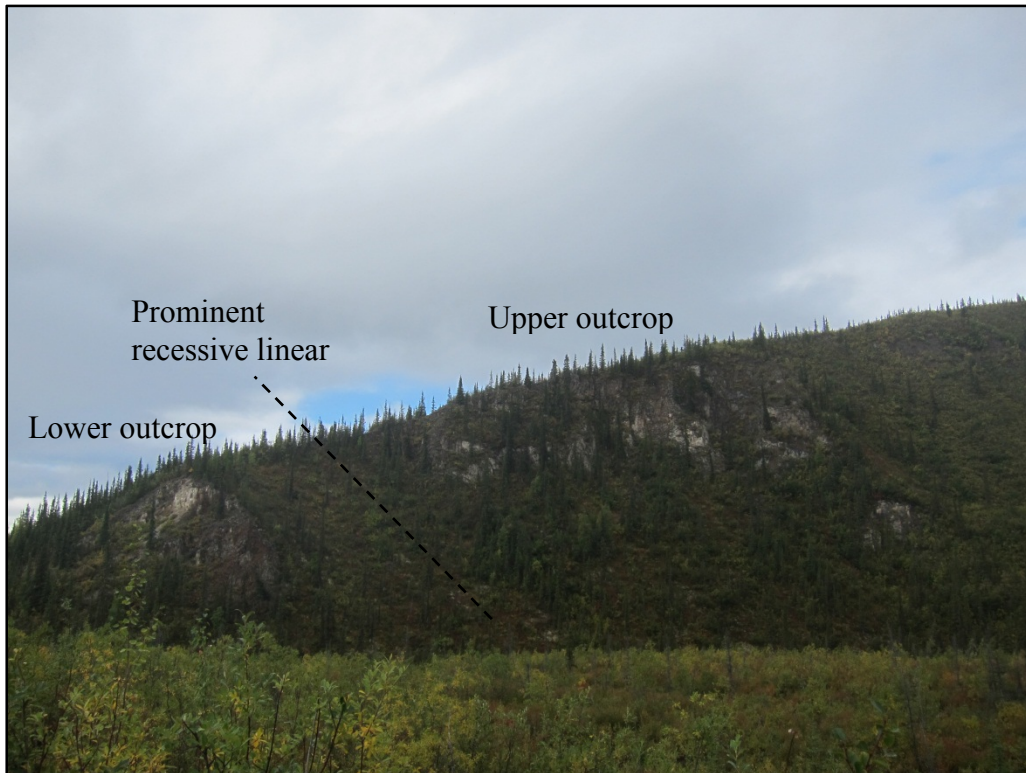


Photo 1 - Facing southwest towards the outcrops at the Getty Showing

The dominant fracture orientation at the Getty Showing is  $055^{\circ}$  to  $065^{\circ}$  with sub-vertical dips. A secondary fracture set oriented sub-parallel to bedding, trends  $130^{\circ}$  to  $165^{\circ}$  and dips  $38^{\circ}$  to  $65^{\circ}$  toward the west.

In 1982, Getty observed several east-northeast-trending diorite dykes that cut the beige chert; however, these dykes were not mapped in 2014.

Descriptions of geology at Zone 1 are provided in Graham (2013).

### **MINERALIZATION**

The two known areas of mineralization on the Snail property are Zone 1 and the Getty Showing. No work was done in the vicinity of Zone 1 in 2014, and descriptions of mineralization found there appear in Graham (2013).



Mineralization at the Getty Showing is hosted within eight, 20 to 80 cm wide veins that strike 055° to 065° and dip sub-vertically. The veins occur within a 150 m corridor that cuts through the beige and white chert units exposed in the upper and lower outcrops. In the lower outcrop, four veins are present within a 20 m wide exposure, while in the upper outcrop three veins were identified across a 110 m width. A strike-slip fault was mapped in the upper outcrop sub-parallel to the veins; but, no mineralization was observed along this structure.

The veins have a variety of compositions ranging from semi-massive to massive sulphides with narrow, oxidized selvages to completely oxidized limonite, goethite and hematite. The sulphide minerals are galena, arsenopyrite, pyrite, specularite, sphalerite and stannite. Veins cutting the upper outcrop contain little to no quartz, while those cutting the lower outcrop are more quartz- and sphalerite-rich.

In 1981, Getty collected chip samples from two, 20 cm wide veins at the Getty Showing. These veins were traced along strike for 20 m. The samples returned 1851 g/t silver, 6.5% lead and 1.3% zinc and 750 g/t silver, 6.5% lead, 0.64% zinc over 20 cm, respectively (Hulstein, 1982).

In 2012, Silver Range collected 12 samples from the showing (Figure 5). These rock samples were sent to the ALS Minerals in Whitehorse, where they were dried and screened to -2 mm. A 250 g split of each sample was then pulverized to 75 micron and a portion of this material was sent to ALS Minerals in North Vancouver, 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 also analyzed for gold using fire assay technique (Au-AA24). Significant results from this sampling are displayed in Table II.

**Table II – Significant 2012 Rock Sample Results – Getty Showing**

Sample	Type (width m)	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Pb (%)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (%)
M676848	Grab	<0.005	305	4950	33.8	1270	0.581	4.38	266	1330	6.1	0.40
M676849	Grab	0.015	46.8	>1%	150.5	769	11.85	0.05	337	40.1	1.5	8.27
M676850	Grab	2.17	1500	>1%	4.37	1775	0.217	8.96	>1%	2090	0.4	1.39
M676851	Composite	0.038	38.3	>1%	138.5	174	2.93	0.11	166	55.6	4.5	0.31
M676852	Grab	0.137	126	2440	186.5	435	2.05	6.73	>1%	997	2.4	0.47
M676853	Outcrop (0.25)	0.281	209	>%	259	598	19.7	1.14	295	337	3.4	2.37
M676855	Outcrop (0.2)	0.011	8.78	2000	2.74	241	0.088	0.14	1315	174.5	44	0.52
M676858	Grab	<0.005	54.4	223	66.7	17.4	0.064	1.46	5940	29.7	0.3	0.04

In 2014, Silver Range collected another 11 samples from the Getty Showing and four samples from elsewhere on the property. Sample locations are shown on Figure 5. Rock Sample Descriptions are provided in Appendix III. Samples were sent to ALS Minerals in Whitehorse, where they were dried, screened to -180 microns. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analyzed for 51 elements using an aqua regia

digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are given in Appendix IV. Highlights from this sampling are displayed in Table III.

**Table III – Significant 2014 Rock Sample Results – Getty Showing**

Sample	Type (width m)	Au (g/t)	Ag (g/t)	As (ppm)	Bi (ppm)	Cu (ppm)	In (ppm)	Pb (%)	Sb (ppm)	Sn (ppm)	W (ppm)	Zn (%)
M896179	Outcrop (0.3)	0.145	170	6350	87.9	1495	8.32	3.07	8560	700	5	0.65
M896180	Outcrop (0.3)	1.385	1420	1360	1020	3180	11.5	35.33	>1%	7600	0.1	0.27
M896181	Outcrop (0.3)	0.209	510	13.85%	1205	1220	80.9	2.47	1720	5600	1.4	5.22
M896182	Outcrop (0.8)	1.495	674	3.28%	13.7	1925	0.0025	12.20	>1%	3800	1.1	1.29
M896183	Outcrop (0.3)	0.032	18.9	490	5.9	266	2.41	0.082	502	92.4	0.6	0.45
M896184	Outcrop (0.3)	0.092	474	8.87%	383	720	4.45	4.66	594	900	460	0.13
M896185	Outcrop (0.3)	0.209	1240	10.85%	1885	684	54.8	6.45	559	1200	3	6.15
M896186	Subcrop (0.3)	0.08	733	13.05%	3880	284	42.2	2.52	1405	239	19.9	6.90

Results for 2014 sampling at the Getty Showing are generally similar to those obtained from earlier work. Surprisingly, the results for refractory elements (tin and tungsten) were consistently higher than those previously reported, even though the analytical techniques used in 2014 involved a less complete digestion preparation.



Photo 2 - M896185 – Mineralized vein cutting beige chert

Rocks collected elsewhere on the property in 2014 yielded background values for all elements of interest, which was expected given that the rocks samples were visually unmineralized shale and siltstone.

No attempt was made in 2014 to evaluate the bulk-tonnage potential of the beige or white cherts that host the veins.

### **SOIL GEOCHEMISTRY**

In 2011 and 2012, a 480 by 650 m multi-element soil geochemical anomaly was outlined near the Getty Showing, where there are steep slopes and shallow overburden. Anomalous values included weakly elevated gold, silver and tin; weakly to moderately elevated arsenic, bismuth, copper, molybdenum, lead and zinc; and weakly to strongly elevated antimony. In 2014, a total of 640 soil samples were taken from a grid located west of the Getty Showing. Sample locations are shown on Figure 6, while 2011 through 2014 results for gold, silver, arsenic, copper, lead, zinc, molybdenum, tin, indium, antimony and bismuth are compiled on Figures 7 to 17, respectively.

Soil samples were collected from 40 to 110 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 number 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, where they were dried, screened to -180 microns. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are given in Appendix IV. Anomalous thresholds and peak values for soil samples are listed in Table IV.

**Table IV – Geochemical Data for Soil Samples**

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50 < 100$	$\geq 100$	211
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500$	>10000
Silver (ppm)	$\geq 1 < 2$	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10$	212
Copper (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500$	899
Lead (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500$	19900
Zinc (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	$\geq 500 < 1000$	$\geq 1000$	11050
Molybdenum (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20 < 50$		34.3
Tin (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20$	1820
Indium (ppm)	$\geq 0.5 < 1$	$\geq 1 < 2$	$\geq 2 < 5$	$\geq 5$	7.08
Antimony (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20 < 50$	$\geq 50$	2860
Bismuth (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20$	281

The area of sampling shown by Figures 7 to 17 is believed to be underlain by Mount Christie Formation. The 2014 geochemical values were mostly subdued with the exception of a few isolated moderately anomalous gold and silver values. The values are lower than those from within the 480 by 650 m anomaly at the Getty Showing, which may be in part due to thicker organic and overburden cover (see photo below).



Photo 3 - Facing east across terrain soil sampled in 2014

No samples were collected from the eastern part of the property, including Zone 1, in 2014.

### **DISCUSSION AND CONCLUSIONS**

The Snail property is located in the Anvil Range, where Silver Range is exploring a belt silver-zinc-lead±copper bearing, bulk tonnage and vein prospects. The 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 veins at the Snail property are particularly noteworthy, as are elevated gold and tin values in many samples.

The 2014 exploration program on the Snail property identified eight veins in an area where only two had previously been documented. The veins returned strongly anomalous silver, lead, zinc, tin, copper, arsenic, bismuth, indium, antimony, tungsten and gold values.

Although the 2014 soil sampling program yielded subdued results, it did not completely condemn the northwestern part of the property because the combination of gentle topography and thick glacial overburden made effective sampling difficult. Results from earlier soil sampling programs yielded significantly higher values near the Getty Showing where there is less overburden. The soil geochemical anomaly at the Getty Showing extends in all directions well beyond the area of veining seen in outcrop, which suggests that additional mineralized veins may be present under cover. Based on the southwesterly-trending glacial movement in the property area, a string of high silver-in-soil values that extends 930 m southwest from the veins at the Getty Showing may be attributed to glacial-smearing. However, many of these geochemical values are higher than those from samples taken near the outcropping veins; and

therefore, these samples may mark higher grade areas along projections of known veins or better mineralized sub-parallel veins. Two high silver-in-soil values located northwest and southeast of the Getty Showing veins (Figure 8) could be sourcing from other non-outcropping veins.

Future work on the Snail property should include additional geochemical sampling, hand pitting and possibly diamond drilling. The geochemical sampling and hand pitting should focus on taking deeper (greater than one metre) samples using a combination of both techniques. Hand trenches should also be completed to bedrock in the immediate vicinity of the known veins and along strike in both directions to try and trace the veins into overburden covered areas. Continuous chip samples should be collected peripheral to the veins to evaluate the bulk-tonnage potential of the wallrock chert. Pending favourable results from the above mentioned work, diamond drilling should be done to test the mineralization. Given the density and orientations of the veins, multiple vein intercepts are expected in each drill hole.

Follow up work should also be conducted near Zone 1 and within the six kilometre wide area between Zone 1 and the Getty Showing. Systematic geochemical surveys, prospecting and mapping may be hindered by swampy low-lands that cover much of this area.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



Heather Burrell, P.Geol.

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## **STATEMENT OF QUALIFICATIONS**

I, Heather Burrell, geologist, with business addresses in Vancouver and Squamish, British Columbia and Whitehorse, Yukon Territory and residential address in Whitehorse, Yukon Territory do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B.Sc in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I am a partner in Archer, Cathro & Associates (1981) Limited.
5. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.



H. Burrell, B.Sc., P.Geo

**APPENDIX II**  
**STATEMENT OF EXPENDITURES**



Statement of Expenditures  
Jar 1-16 and Snail 1-106, 109-122, 127-140 and 145-262 Mineral Claims  
December 16, 2014

Labour

D. Eaton (geologist) 12 hours September to December at \$120/hr	\$ 1,764.00
H. Burrell (geologist) 11 days field August to September \$768/day	8,870.40
9 days September to November at \$768/day	7,257.60
J. Thomson-Gladish (field assistant) 6 days September at \$440/day	2,772.00
L. Arnold-Wallinger (field assistant) 6 days September at \$424/day	2,671.20
G. Smith (field assistant) 10 days September at \$360/day	3,780.00
S. Burrell (field assistant) 8 days September at \$344/day	2,889.60
J. Mariacher (office) 31/2 hours September to December at \$90/hr	2,976.75
S. Newman (office) 24 ½ hours September to December at \$62/hr	1,594.95
L. Smith (office) 35 hours September to December at \$62/hr	2,278.50
Whitehorse expediting September	<u>3,612.00</u>
	40,467.00

Expenses (including management)

Field room and board – 41 mandays @ \$180/manday	8,368.92
Fireweed Helicopters – 4.4 hours Bell LR at \$1,250/hr plus fuel	7,789.45
2.3 hours Hughes 500D at 1,050/hr	2,738.61
Black Sheep Aviation	3,572.10
ALS Chemex	<u>27,514.45</u>
	49,983.53

Total \$90,450.53

873 samples at \$90,450.53 = 103.61/sample

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**Property: Snail

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Sample Number: M896176 UTM: 545827 mE Nad83, Zone 8

Elevation: 1230 m UTM: 6956197 mN

Comments: Hand pit at anomalous gold-in-soil site. Pit exposed large (30x40x20 cm) silicified black shale to siltstone with seams of calcite and quartz (<1 cm). Mineralization comprises disseminated, well formed, mm-scale pyrite with rare tarnish.

---

Sample Number: M896177 UTM: 546011 mE Nad83, Zone 8

Elevation: 1191 m UTM: 6956048 mN

Comments: A 30 cm wide zone with of bedded schale cut by coarse quartz-calcite veins with trace limonite. Seams of well cleavaged, black mineral with a white scratch(?). Beds: 165/48W

---

Sample Number: M896178 UTM: 546043 mE Nad83, Zone 8

Elevation: 1166 m UTM: 6956052 mN

Comments: Specimen sample (40x20x20 cm) of grey chert flooded with shiny dark grey to black mineral, weakly brecciated.

---

Sample Number: M896179 UTM: 546035 mE Nad83, Zone 8

Elevation: 1187 m UTM: 6956028 mN

Comments: Outcrop sample - 30 cm wide shear zone with highly fractured, primarily limonite (orange to manganese stained) with rare 3 cm, dark grey blebs and scorodite staining. Orientation is 244/85N.

---

Sample Number: M896180 UTM: 546042 mE Nad83, Zone 8

Elevation: 1206 m UTM: 6956032 mN

Comments: Outcrop sample - same shear zone as previous, but farther uphill. Comprised of <2 cm massive grey sulphide (specularite? Electrum? ). Scorodite staining across sample width of 30 cm hosting 3@ 2 cm massive sulphide seams.

---

Sample Number: M896181 UTM: 546052 mE Nad83, Zone 8

Elevation: 1184 m UTM: 6956026 mN

Comments: Outcrop sample - parallel shear zone. Sample across 25 cm with sulphides, limonite and goethite. Fine to medium grained pyrite, arsenopyrite, galena, sphalerite, specular hematite and earthy hematite. Shear trends 245/75N.

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**Rock Sample Descriptions**Property: Snail

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Sample Number: M896182 UTM: 546125 mE Nad83, Zone 8  
Elevation: 1191 m UTM: 6955959 mN

Comments: Outcrop sample - 80 cm wide shear zone with extremely limonitic, rusty and manganese stained rock. Speckles of manganese and yellow iron alteration (jarosite?). Heavy limonite. Within more competent, brown weathering chert with seams of shiny black mineral.

---

Sample Number: M896183 UTM: 546197 mE Nad83, Zone 8  
Elevation: 1147 m UTM: 6955958 mN

Comments: Outcrop sample of 30 cm wide, rusty, altered vein - bedding parallel within white chert to limestone/dolostone. Manganese dendrites, disseminated pyrite and minor clay alteration.

---

Sample Number: M896184 UTM: 546204 mE Nad83, Zone 8  
Elevation: 1158 m UTM: 6955966 mN

Comments: Outcrop - 30 cm chip sample across vein//shear zone (070/vert) within beige chert. Disseminated to semi-massive galena, arsenopyrite, specularite or stibnite (?) black sulphide.

---

Sample Number: M896185 UTM: 546205 mE Nad83, Zone 8  
Elevation: 1153 m UTM: 6955973 mN

Comments: Outcrop - 30 cm wide vein cutting beige chert - 110/82S. Heavily disseminated, banded and semi-massive galena, pyrite, arsenopyrite and black shiny mineral (?). Significantly more quartz (50%) than other shear/vein zones sampled in 2014. Vein is parallel with '184.

---

Sample Number: M896186 UTM: 546221 mE Nad83, Zone 8  
Elevation: 1143 m UTM: 6955973 mN

Comments: Subcrop sample off 50x30x30 cm block that is beside main outcrop of beige chert (covered in soil). Vein is silicified quartz gangue and hosts galena, pyrite, arsenopyrite and rare bladed silvery sulphide (?).

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**Rock Sample Descriptions**Property: Snail

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Sample Number: M896187 UTM: 543806 mE Nad83, Zone 8

Elevation: 1335 m UTM: 6956062 mN

Comments: Outcrop sample from cliffy in deeply incised drainage (no water). Sample is of grey quartzite with limonitic pits and trace pyrite. Outcrop sample over 30 cm. Direction of shearing evident on outcrop.

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Sample Number: M896188 UTM: 543904 mE Nad83, Zone 8

Elevation: 1390 m UTM: 6956065 mN

Comments: Subcrop sample of dark grey, silicified siltstone with wavy, mm-scale quartz veins and bands with trace limonite. Near soil ZZ33678.

---

Sample Number: M896189 UTM: 543254 mE Nad83, Zone 8

Elevation: 1419 m UTM: 6957912 mN

Comments: Outcrop sample of well bedded black shale with maroon and brown weathering surface. No visible mineralization, but since outcrop is sparse I wanted to sample what I could find.

---

Sample Number: M896190 UTM: 543977 mE Nad83, Zone 8

Elevation: 1401 m UTM: 6956469 mN

Comments: Float specimen - sub-rounded 10 cm<sup>3</sup> from a linear (?) between two moose meadows. Sample is punky, sugary, limonitic (brown to orange). First specimen of this type I have observed on the property.

---

**APPENDIX IV**  
**CERTIFICATES OF ANALYSES**



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 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: SILVER RANGE RESOURCES LTD.  
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 Finalized Date: 29-SEP-2014  
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**CERTIFICATE WH14132984**

Project: SNAIL  
 P.O. No.: Aug 30  
 This report is for 11 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-SEP-2014.  
 The following have access to data associated with this certificate:  
 MATT DUMALA                      JOAN MARIACHER

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Pb-OG62	Ore Grade Pb - Four Acid	VARIABLE
Zn-OG62	Ore Grade Zn - Four Acid	VARIABLE
Pb-VOL70	Pb by Titration	
As-OG62	Ore Grade As - Four Acid	VARIABLE
Au-AA24	Au 50g FA AA finish	AAS
ME-MS61	48 element four acid ICP-MS	
Ag-OG62	Ore Grade Ag - Four Acid	VARIABLE
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14132984**

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
M896176		1.33	<0.005	1.57	2.79	37.5	820	0.44	0.90	10.50	1.14	28.1	2.1	25	2.25	13.2
M896177		1.06	<0.005	0.88	1.97	250	610	0.53	0.43	16.40	1.97	24.6	1.3	21	3.77	15.1
M896178		0.99	<0.005	1.80	2.18	22.0	1610	0.74	0.64	24.3	8.39	25.4	2.6	119	2.82	26.6
M896179		0.88	0.145	>100	2.59	6350	1030	0.62	87.9	0.40	151.0	16.25	2.6	21	4.44	1495
M896180		0.87	1.385	>100	0.43	1360	110	0.11	1020	0.38	732	3.58	0.3	5	0.65	3180
M896181		0.96	0.209	>100	0.53	>10000	80	0.06	1205	0.15	754	8.97	10.8	10	1.27	1220
M896182		1.45	1.495	>100	0.75	>10000	360	0.16	13.70	1.80	827	12.00	1.5	16	1.18	1925
M896183		0.95	0.032	18.90	0.99	490	540	0.51	5.90	25.9	83.1	10.95	1.7	46	4.80	266
M896184		1.08	0.092	>100	3.82	>10000	170	0.32	383	0.36	24.7	14.10	11.4	30	7.06	720
M896185		1.04	0.209	>100	0.47	>10000	140	0.11	1885	0.30	878	2.87	6.7	1	0.76	684
M896186		1.45	0.080	>100	0.93	>10000	60	0.18	3880	0.24	980	8.31	24.1	16	2.37	284





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**CERTIFICATE OF ANALYSIS WH14132984**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
Units		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
LOR																
M896176		0.81	5.14	0.22	1.5	0.024	1.45	13.1	19.1	1.51	367	0.68	0.68	4.9	8.4	490
M896177		0.57	4.73	0.21	0.9	0.024	1.43	12.8	13.8	0.36	881	3.55	0.03	3.3	10.7	410
M896178		1.09	5.36	0.22	1.1	0.025	0.78	20.3	13.9	1.81	268	4.30	0.46	4.3	22.0	5720
M896179		15.70	7.31	0.18	0.9	8.32	1.32	8.2	16.1	0.26	228	18.55	0.02	3.0	15.8	360
M896180		0.92	3.69	0.67	0.2	11.50	0.25	4.2	0.2	0.06	91	7.60	0.01	<0.1	2.5	80
M896181		16.35	6.91	0.87	0.4	80.9	0.71	6.0	5.6	0.14	434	18.30	0.01	1.3	12.9	210
M896182		16.10	4.87	0.75	0.3	<0.005	0.41	10.0	13.2	0.08	2870	14.55	0.02	0.5	14.9	2230
M896183		1.56	3.07	0.05	0.7	2.41	0.40	12.4	30.6	1.21	5730	5.95	0.02	1.8	42.9	2950
M896184		9.42	10.90	0.64	1.5	4.45	3.60	6.9	19.1	0.50	71	11.30	0.10	3.5	5.3	1310
M896185		12.60	5.71	1.07	0.1	54.8	0.26	1.6	5.3	0.05	648	1.17	0.01	0.3	1.1	40
M896186		13.75	6.14	1.12	0.4	42.2	0.68	4.4	6.9	0.13	842	5.65	0.05	1.2	3.7	600

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



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14132984**

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 ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
M896176		309	53.0	0.003	0.48	114.5	3.0	3	29.3	266	0.36	<0.05	3.5	0.167	0.83	1.1
M896177		19.5	85.8	0.002	0.03	22.7	3.4	2	16.5	252	0.26	<0.05	2.4	0.115	1.36	1.3
M896178		47.9	39.7	0.011	0.09	8.15	5.5	3	5.2	853	0.29	0.13	3.2	0.156	0.64	4.2
M896179		>10000	96.1	<0.002	0.61	8560	2.6	42	>500	48.1	0.23	0.24	2.6	0.113	2.50	8.9
M896180		>10000	14.9	0.004	7.07	>10000	0.4	349	>500	35.4	<0.05	0.30	0.4	0.016	6.94	7.2
M896181		>10000	36.2	0.006	>10.0	1720	1.7	416	>500	42.8	0.10	24.7	1.1	0.045	2.51	3.3
M896182		>10000	26.1	0.002	2.33	>10000	4.1	360	>500	269	<0.05	0.15	1.3	0.026	6.72	14.5
M896183		817	35.5	0.026	0.32	502	3.9	8	92.4	1655	0.12	0.37	1.2	0.062	0.85	5.1
M896184		>10000	210	0.018	4.28	594	10.3	302	>500	76.9	0.31	2.89	3.9	0.152	5.53	1.5
M896185		>10000	14.7	<0.002	>10.0	559	1.2	584	>500	16.5	<0.05	5.81	0.5	0.014	3.68	0.3
M896186		>10000	43.5	0.011	>10.0	1405	2.4	499	239	22.2	0.09	11.40	1.3	0.048	1.96	0.6

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



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14132984**

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Pb-OG62	Zn-OG62	Pb-VOL70	As-OG62
	Analyte	V	W	Y	Zn	Zr	Ag	Pb	Zn	Pb	As
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
LOR		1	0.1	0.1	2	0.5	1	0.001	0.001	0.01	0.001
M896176		24	0.7	10.4	25	53.0					
M896177		49	1.2	13.0	112	31.2					
M896178		78	0.6	28.0	163	47.8					
M896179		26	5.0	5.8	6470	36.0	170	3.07			
M896180		4	0.1	1.4	2740	6.7	1420	>20.0		35.33	
M896181		15	1.4	1.7	>10000	11.6	510	2.74	5.22		13.85
M896182		19	1.1	7.4	>10000	12.9	674	12.20	1.290		3.28
M896183		96	0.6	22.3	4520	31.8					
M896184		69	460	6.2	1310	51.5	474	4.66			8.87
M896185		6	3.0	1.0	>10000	4.6	1240	6.45	6.15		10.85
M896186		15	19.9	2.6	>10000	11.8	733	2.52	6.90		13.05





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**CERTIFICATE WH14132985**

Project: SNAIL

This report is for 219 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1-SEP-2014.

The following have access to data associated with this certificate:

MATT DUMALA	JOAN MARIACHER
-------------	----------------

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

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

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH14132985**

Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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
ZZ60104		0.37	<0.001	0.71	1.40	19.9	<0.2	<10	180	0.43	0.37	0.11	0.51	24.4	5.0	23
ZZ60105		0.40	<0.001	1.11	1.72	18.6	<0.2	<10	220	0.46	0.26	0.08	0.40	25.2	6.7	26
ZZ60106		0.34	0.005	1.94	2.62	23.6	<0.2	<10	250	1.09	0.30	0.08	0.45	22.7	7.1	44
ZZ60107		0.39	0.003	0.38	0.90	74.8	<0.2	<10	460	0.60	0.84	0.35	0.51	37.5	7.8	20
ZZ60108		0.24	0.001	0.43	1.43	25.3	<0.2	<10	480	0.57	0.34	0.16	0.40	27.1	8.9	25
ZZ60109		0.36	0.004	0.47	0.91	89.9	<0.2	<10	450	0.50	1.08	0.18	0.35	31.5	7.4	20
ZZ60110		0.39	0.002	0.60	1.18	42.1	<0.2	<10	480	0.59	0.49	0.21	0.38	24.8	7.4	27
ZZ60111		0.29	0.005	0.99	1.30	44.3	<0.2	<10	950	0.85	0.47	0.54	0.91	34.1	9.8	25
ZZ60112		0.48	0.003	0.73	1.01	82.6	<0.2	<10	470	0.55	0.83	0.43	0.99	34.4	7.9	23
ZZ60113		0.42	0.003	0.74	1.58	80.2	<0.2	<10	520	0.79	1.18	0.67	1.58	36.3	9.6	34
ZZ60114		0.35	0.003	0.82	1.10	54.5	<0.2	<10	450	0.62	0.56	0.92	1.07	26.2	6.0	22
ZZ60115		0.36	0.003	0.79	0.96	42.8	<0.2	<10	460	0.52	0.39	1.08	1.02	26.7	5.9	23
ZZ60116		0.41	0.006	0.50	0.94	34.7	<0.2	<10	520	0.49	0.53	0.91	1.39	26.0	6.3	20
ZZ60117		0.34	0.002	0.45	1.08	50.8	<0.2	<10	470	0.50	0.85	0.44	0.60	28.9	6.4	24
ZZ60118		0.39	0.002	0.59	1.04	54.3	<0.2	<10	370	0.45	0.84	0.24	0.84	20.3	4.5	18
ZZ60119		0.35	0.003	0.32	0.94	39.9	<0.2	<10	330	0.43	0.60	0.32	0.46	29.7	4.7	20
ZZ60120		0.42	0.004	0.26	0.87	44.8	<0.2	<10	390	0.38	0.72	0.31	0.48	25.9	4.7	19
ZZ60121		0.38	0.006	0.41	1.01	38.8	<0.2	<10	690	0.55	0.46	0.54	0.84	29.8	7.5	21
ZZ60122		0.29	0.004	0.33	0.95	14.7	<0.2	<10	260	0.34	0.29	0.22	0.27	18.20	3.7	15
ZZ60123		0.29	0.004	0.65	1.06	8.4	<0.2	<10	380	0.29	0.31	0.35	0.26	21.1	2.7	19
ZZ60124		0.34	0.003	0.49	1.29	17.6	<0.2	<10	440	0.47	0.34	0.28	0.40	28.4	6.7	24
ZZ60125		0.53	0.011	1.20	1.29	21.6	<0.2	<10	510	0.50	0.41	0.32	0.59	31.9	5.4	25
ZZ60126		0.37	0.002	0.32	1.04	25.8	<0.2	<10	190	0.29	0.40	0.14	0.27	23.9	4.9	18
ZZ60127		0.42	0.006	0.55	1.47	25.7	<0.2	<10	630	0.64	0.42	0.32	0.33	32.7	8.3	27
ZZ60128		0.43	0.002	0.26	0.83	30.0	<0.2	<10	420	0.43	0.35	0.32	0.65	33.0	5.0	17
ZZ60129		0.32	0.002	0.64	1.16	23.5	<0.2	<10	640	0.56	0.38	0.70	1.14	29.2	7.7	21
ZZ60130		0.36	0.003	0.31	1.02	12.5	<0.2	<10	490	0.47	0.21	0.43	0.23	21.8	5.0	17
ZZ60131		0.28	0.002	0.44	1.23	31.8	<0.2	<10	700	0.62	0.39	0.67	1.35	29.1	8.7	23
ZZ60132		0.33	0.008	0.42	1.22	23.9	<0.2	<10	610	0.56	0.37	0.64	1.19	27.5	8.2	23
ZZ60133		0.44	0.007	0.80	1.15	97.7	<0.2	<10	750	0.68	0.96	1.41	2.09	33.6	8.8	23
ZZ60134		0.34	0.004	0.70	1.03	20.5	<0.2	<10	630	0.54	0.33	0.62	0.95	31.3	5.4	22
ZZ60135		0.37	0.002	0.46	1.22	25.6	<0.2	<10	390	0.49	0.30	0.24	0.96	28.5	6.9	24
ZZ60136		0.32	0.005	0.80	0.94	102.5	<0.2	<10	420	0.58	1.37	0.41	1.57	30.1	5.7	19
ZZ60137		0.27	<0.001	0.51	1.30	38.4	<0.2	<10	270	0.48	0.39	0.12	0.60	22.0	5.8	28
ZZ60138		0.39	0.002	0.50	1.46	54.6	<0.2	<10	290	0.51	0.47	0.18	0.75	27.4	6.9	27
ZZ60139		0.32	0.002	0.40	1.41	42.0	<0.2	<10	290	0.52	0.35	0.21	0.42	28.9	6.7	26
ZZ60140		0.39	0.002	0.30	1.35	60.9	<0.2	<10	310	0.52	0.44	0.13	0.70	26.2	6.5	23
ZZ60141		0.36	0.003	0.25	1.19	68.5	<0.2	<10	440	0.57	0.52	0.19	0.45	37.6	7.2	23
ZZ60142		0.45	0.002	0.32	1.27	44.9	<0.2	<10	430	0.62	0.46	0.31	0.40	29.2	6.9	24
ZZ60143		0.44	0.004	0.80	1.20	50.0	<0.2	<10	500	0.64	0.46	0.59	0.58	31.4	7.5	24



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**CERTIFICATE OF ANALYSIS WH14132985**

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 ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		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	0.01
ZZ60104		1.21	13.5	2.35	5.28	<0.05	0.02	0.03	0.024	0.05	13.1	13.6	0.29	222	1.67	0.01
ZZ60105		1.80	20.1	2.75	6.46	0.05	0.03	0.02	0.032	0.06	13.8	17.9	0.34	188	1.56	0.01
ZZ60106		6.98	43.7	3.83	8.18	0.05	0.04	0.03	0.063	0.17	12.5	40.8	0.85	194	1.57	0.01
ZZ60107		0.88	28.9	1.89	2.85	0.06	<0.02	0.09	0.037	0.07	19.5	10.3	0.36	370	2.62	0.01
ZZ60108		1.03	21.0	2.29	4.70	0.05	<0.02	0.03	0.031	0.09	14.0	12.3	0.35	367	1.49	0.01
ZZ60109		0.89	24.3	2.08	2.94	0.05	<0.02	0.05	0.041	0.10	16.1	12.7	0.33	263	2.46	0.01
ZZ60110		1.72	27.0	2.34	3.69	0.05	<0.02	0.03	0.034	0.11	13.2	17.8	0.42	177	2.10	0.01
ZZ60111		1.10	57.3	2.68	3.98	0.07	0.08	0.24	0.046	0.14	18.2	15.4	0.48	419	3.27	0.01
ZZ60112		1.19	29.3	2.22	3.15	0.06	0.03	0.10	0.040	0.11	17.3	12.9	0.39	425	2.64	0.01
ZZ60113		1.88	38.9	2.98	4.78	0.07	0.12	0.11	0.054	0.16	18.6	19.6	0.61	385	2.30	0.02
ZZ60114		0.95	32.4	1.88	3.27	0.05	0.04	0.12	0.034	0.09	14.6	13.8	0.35	227	1.29	0.01
ZZ60115		1.50	27.7	2.05	2.98	0.06	0.05	0.14	0.031	0.10	14.5	12.7	0.42	273	1.72	0.02
ZZ60116		0.97	26.4	1.82	2.96	0.05	0.04	0.09	0.031	0.06	14.1	10.7	0.35	456	1.66	0.01
ZZ60117		1.13	19.8	1.95	3.42	0.05	0.05	0.08	0.031	0.06	15.5	13.9	0.41	343	1.85	0.01
ZZ60118		1.21	23.1	1.68	3.52	<0.05	<0.02	0.07	0.030	0.06	10.5	10.3	0.26	200	1.50	0.01
ZZ60119		1.15	18.0	1.79	3.20	0.05	0.02	0.09	0.026	0.06	15.7	11.9	0.36	167	1.86	0.01
ZZ60120		0.97	17.5	1.60	2.87	<0.05	0.02	0.04	0.022	0.05	13.7	9.5	0.33	236	1.85	0.01
ZZ60121		1.19	29.0	2.25	3.24	0.06	0.04	0.10	0.027	0.07	15.7	10.8	0.35	205	2.47	0.01
ZZ60122		1.04	16.1	1.40	3.67	<0.05	<0.02	0.06	0.019	0.04	9.8	7.2	0.21	132	1.11	0.01
ZZ60123		1.54	17.9	1.06	3.76	<0.05	<0.02	0.15	0.025	0.05	11.1	9.8	0.28	82	0.81	0.01
ZZ60124		1.54	23.3	2.05	4.10	<0.05	0.02	0.10	0.029	0.06	14.7	13.6	0.41	223	1.91	0.01
ZZ60125		1.93	31.7	1.89	4.30	0.05	<0.02	0.20	0.041	0.07	16.5	12.9	0.40	177	1.99	0.01
ZZ60126		1.50	13.7	1.83	4.34	<0.05	<0.02	0.04	0.026	0.05	12.6	9.2	0.25	253	1.75	0.01
ZZ60127		1.53	30.4	2.41	4.47	0.06	0.02	0.14	0.038	0.08	17.0	14.7	0.40	367	2.13	0.01
ZZ60128		0.86	22.4	1.82	2.80	0.06	0.02	0.08	0.025	0.06	17.4	9.5	0.30	198	2.14	0.01
ZZ60129		1.04	27.8	1.96	3.48	0.05	0.03	0.13	0.030	0.08	15.4	14.7	0.38	434	1.57	0.01
ZZ60130		0.91	20.1	1.56	3.15	<0.05	0.02	0.09	0.022	0.05	11.1	9.5	0.25	189	0.84	0.02
ZZ60131		1.08	25.7	2.54	3.71	<0.05	0.04	0.10	0.026	0.06	15.0	13.3	0.39	565	2.29	0.01
ZZ60132		1.13	25.5	2.12	3.74	0.05	0.04	0.11	0.029	0.06	14.1	13.6	0.36	225	1.71	0.01
ZZ60133		2.15	45.4	2.72	3.50	0.06	0.08	0.17	0.054	0.17	17.7	15.1	0.54	407	3.69	0.01
ZZ60134		1.43	34.1	1.78	3.17	0.06	0.07	0.15	0.031	0.09	16.5	12.9	0.35	200	1.38	0.01
ZZ60135		1.16	21.0	2.12	4.19	<0.05	0.02	0.05	0.024	0.08	15.0	13.7	0.34	279	1.66	0.01
ZZ60136		1.23	27.3	2.07	2.72	0.05	0.04	0.11	0.045	0.10	16.1	10.6	0.34	218	2.68	0.01
ZZ60137		1.55	18.1	2.19	4.52	<0.05	<0.02	0.04	0.028	0.09	11.8	16.0	0.38	179	1.76	0.01
ZZ60138		1.55	21.7	3.02	4.77	0.05	0.03	0.04	0.040	0.07	14.9	21.9	0.39	275	2.36	<0.01
ZZ60139		1.42	18.2	2.47	4.45	<0.05	0.02	0.05	0.032	0.06	15.3	15.3	0.41	266	1.73	0.01
ZZ60140		1.26	23.1	2.12	4.60	<0.05	0.05	0.04	0.031	0.05	13.4	15.1	0.38	164	1.70	<0.01
ZZ60141		1.24	30.1	2.04	3.66	0.06	0.02	0.08	0.035	0.06	18.8	12.5	0.36	362	1.88	0.01
ZZ60142		1.18	21.1	2.18	4.20	0.05	0.02	0.04	0.030	0.06	14.5	14.2	0.40	250	1.70	0.01
ZZ60143		1.10	33.1	2.17	4.00	0.05	0.05	0.13	0.031	0.06	17.3	13.4	0.39	341	1.65	0.01



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**CERTIFICATE OF ANALYSIS WH14132985**

Sample Description	Method	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	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		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
ZZ60104		1.18	14.9	760	19.3	10.6	<0.001	0.01	1.05	2.3	0.5	0.9	10.7	<0.01	0.02	3.0
ZZ60105		1.74	19.1	320	14.0	13.2	<0.001	0.01	1.05	2.7	0.4	0.9	10.4	<0.01	0.04	3.2
ZZ60106		2.16	53.0	340	37.9	23.4	<0.001	0.03	1.90	5.4	1.3	2.8	13.4	<0.01	0.06	2.8
ZZ60107		0.59	27.9	880	58.6	6.8	0.001	0.01	6.57	2.9	1.4	2.3	24.7	<0.01	0.06	2.8
ZZ60108		0.93	17.9	450	19.5	16.4	<0.001	0.01	1.36	2.6	0.8	0.9	16.0	<0.01	0.03	1.0
ZZ60109		0.69	23.7	560	63.3	8.3	<0.001	0.02	6.27	2.7	1.1	3.1	19.8	<0.01	0.04	3.0
ZZ60110		0.90	30.4	380	34.3	14.7	<0.001	0.03	4.11	2.9	1.1	1.5	19.2	<0.01	0.04	1.9
ZZ60111		0.71	52.3	740	34.9	9.5	0.002	0.02	3.74	6.0	1.5	1.5	41.1	<0.01	0.06	4.7
ZZ60112		0.72	26.5	940	58.4	8.7	0.001	0.02	7.05	4.3	1.5	2.2	31.5	<0.01	0.04	3.4
ZZ60113		0.81	33.0	870	45.4	11.7	<0.001	0.02	4.87	8.4	1.7	2.0	35.2	<0.01	0.04	5.3
ZZ60114		0.69	26.9	760	37.0	8.6	0.002	0.04	4.76	3.9	1.7	1.3	39.1	<0.01	0.03	1.9
ZZ60115		0.77	25.5	950	32.7	9.3	0.002	0.05	4.12	4.1	2.0	1.0	54.4	<0.01	0.05	2.7
ZZ60116		0.76	23.4	880	29.1	7.6	0.001	0.05	3.99	3.1	1.9	1.1	47.5	<0.01	0.03	1.8
ZZ60117		0.89	21.6	820	33.3	8.4	0.001	0.02	4.30	3.5	1.1	1.4	31.0	<0.01	0.03	3.6
ZZ60118		0.63	19.8	590	28.3	9.2	<0.001	0.02	4.24	2.0	0.8	1.4	20.5	<0.01	0.03	0.9
ZZ60119		0.92	19.1	890	22.8	7.8	0.001	0.01	3.52	2.5	0.7	1.0	24.2	<0.01	0.04	3.4
ZZ60120		0.78	18.0	800	29.0	6.5	<0.001	0.01	4.79	2.3	1.3	1.2	22.7	<0.01	0.03	2.7
ZZ60121		0.96	27.8	910	19.2	8.7	0.001	0.02	4.16	3.8	1.6	0.9	32.4	<0.01	0.05	3.9
ZZ60122		0.52	11.6	440	10.3	6.8	<0.001	0.01	1.08	0.9	0.6	0.6	17.4	<0.01	0.03	0.2
ZZ60123		0.63	12.1	750	14.8	7.7	0.005	0.04	1.40	1.6	1.4	0.7	22.2	<0.01	0.03	0.5
ZZ60124		0.95	20.5	820	14.9	10.4	0.001	0.02	1.90	3.2	1.4	0.7	20.5	<0.01	0.04	2.4
ZZ60125		0.87	22.7	1080	21.1	10.5	0.003	0.03	2.98	3.5	3.5	0.9	24.8	<0.01	0.04	1.7
ZZ60126		0.67	13.0	840	18.7	10.9	<0.001	0.01	2.51	1.5	0.8	0.8	14.4	<0.01	0.03	0.5
ZZ60127		0.79	25.4	850	21.9	10.9	0.001	0.02	2.68	3.9	2.1	1.0	24.6	<0.01	0.05	1.7
ZZ60128		0.66	21.0	940	27.2	5.9	<0.001	0.01	3.75	2.9	1.2	0.9	27.0	<0.01	0.03	3.3
ZZ60129		0.78	27.4	830	23.8	8.4	0.001	0.02	2.91	4.0	1.7	0.8	41.9	<0.01	0.04	2.5
ZZ60130		0.67	16.6	620	10.9	7.4	0.001	0.03	1.21	2.6	1.1	0.5	28.6	<0.01	0.02	1.3
ZZ60131		0.92	27.4	840	21.0	8.7	0.001	0.04	2.56	4.0	1.4	0.8	36.5	<0.01	0.02	3.0
ZZ60132		0.80	20.0	940	21.5	9.2	0.002	0.04	2.21	3.6	1.7	0.8	36.5	<0.01	0.03	2.2
ZZ60133		0.37	37.5	1070	63.4	11.8	0.002	0.02	7.98	5.2	1.9	2.2	57.4	<0.01	0.07	5.1
ZZ60134		0.95	27.4	790	22.2	11.0	0.002	0.03	2.88	4.6	2.7	1.3	41.0	<0.01	0.05	3.6
ZZ60135		1.13	19.7	500	18.6	12.5	<0.001	0.01	1.75	2.8	0.8	0.9	18.3	<0.01	0.03	2.9
ZZ60136		0.73	27.0	780	69.8	8.0	0.001	0.02	12.15	3.2	1.7	1.6	31.5	<0.01	0.05	3.7
ZZ60137		1.08	21.2	390	24.1	16.8	<0.001	0.03	2.44	2.3	0.9	1.0	15.6	<0.01	0.03	1.2
ZZ60138		1.20	22.9	900	31.7	11.6	<0.001	0.02	4.04	3.2	1.0	1.6	16.5	<0.01	0.04	3.3
ZZ60139		1.17	19.6	780	30.9	10.3	<0.001	0.01	2.47	3.0	1.0	1.2	16.8	<0.01	0.04	2.3
ZZ60140		0.98	20.5	510	38.4	8.4	<0.001	0.01	3.36	2.9	1.2	1.7	13.9	<0.01	0.04	3.7
ZZ60141		0.64	22.3	650	46.1	8.4	<0.001	0.01	4.18	4.6	1.3	1.7	18.5	<0.01	0.05	3.5
ZZ60142		0.91	22.9	560	28.4	8.3	<0.001	0.02	2.83	3.1	1.2	1.1	23.4	<0.01	0.03	2.7
ZZ60143		0.87	25.3	640	31.8	8.5	<0.001	0.02	2.73	4.5	1.5	1.5	28.8	<0.01	0.04	2.3





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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
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ60104		0.033	0.14	0.56	59	0.31	3.01	90	0.6
ZZ60105		0.045	0.17	0.54	66	0.29	2.53	99	1.3
ZZ60106		0.098	0.23	0.68	90	0.44	6.68	143	1.9
ZZ60107		0.022	0.15	1.16	47	0.11	10.65	125	0.6
ZZ60108		0.030	0.12	0.94	52	0.32	5.28	75	<0.5
ZZ60109		0.022	0.14	0.83	45	0.15	5.40	115	0.6
ZZ60110		0.031	0.16	0.86	51	0.20	4.87	108	<0.5
ZZ60111		0.017	0.26	1.32	62	0.11	15.90	180	3.8
ZZ60112		0.024	0.20	1.07	50	0.12	10.15	146	1.3
ZZ60113		0.027	0.21	0.84	63	0.14	13.05	165	5.4
ZZ60114		0.017	0.15	1.56	45	0.12	12.20	139	1.5
ZZ60115		0.027	0.19	1.31	43	0.12	11.25	136	2.0
ZZ60116		0.023	0.13	2.36	41	0.13	9.39	117	1.4
ZZ60117		0.031	0.14	1.20	50	0.29	8.42	132	1.9
ZZ60118		0.021	0.13	0.71	44	0.14	4.85	117	<0.5
ZZ60119		0.033	0.16	0.83	42	0.33	6.93	104	0.8
ZZ60120		0.030	0.12	1.00	41	0.12	6.13	99	0.9
ZZ60121		0.031	0.16	1.76	45	0.28	10.35	112	1.8
ZZ60122		0.020	0.12	0.68	35	0.23	3.31	46	<0.5
ZZ60123		0.021	0.20	1.02	36	0.18	4.44	58	<0.5
ZZ60124		0.027	0.20	1.33	49	0.17	6.48	94	0.6
ZZ60125		0.026	0.25	1.52	53	0.17	9.12	94	<0.5
ZZ60126		0.025	0.18	0.58	47	0.30	3.53	70	<0.5
ZZ60127		0.020	0.22	1.57	52	0.19	10.10	108	<0.5
ZZ60128		0.027	0.12	1.06	41	0.15	8.89	107	0.7
ZZ60129		0.022	0.16	1.57	47	0.22	10.10	122	1.0
ZZ60130		0.022	0.11	1.17	37	0.16	7.63	58	0.7
ZZ60131		0.019	0.16	1.68	47	0.21	10.05	113	1.6
ZZ60132		0.017	0.17	2.28	45	0.19	8.62	117	1.2
ZZ60133		0.021	0.31	1.25	58	0.11	11.55	227	4.4
ZZ60134		0.031	0.18	1.76	41	0.18	12.90	110	2.6
ZZ60135		0.035	0.15	0.87	50	0.22	5.40	103	0.6
ZZ60136		0.023	0.16	0.95	51	0.12	9.62	238	2.0
ZZ60137		0.035	0.16	0.69	54	0.27	3.61	108	<0.5
ZZ60138		0.026	0.19	0.74	59	0.20	5.15	159	1.2
ZZ60139		0.035	0.16	0.88	52	0.30	5.82	89	0.5
ZZ60140		0.026	0.18	0.67	51	0.20	4.47	94	2.3
ZZ60141		0.022	0.18	1.02	45	0.16	10.65	101	0.7
ZZ60142		0.023	0.16	0.88	49	0.19	6.13	109	0.8
ZZ60143		0.027	0.14	1.26	44	0.19	13.80	91	1.2



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Sample Description	Method Analyte Units LOR	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ60144		0.40	0.002	0.56	1.14	35.6	<0.2	<10	470	0.51	0.48	0.81	0.85	26.7	7.5	22
ZZ60145		0.34	0.002	0.72	1.05	64.3	<0.2	<10	380	0.51	0.80	1.04	1.92	24.4	5.2	19
ZZ60146		0.27	0.002	0.46	0.94	7.0	<0.2	<10	440	0.44	0.20	0.60	0.94	26.3	3.4	15
ZZ60147		0.35	0.010	0.37	0.86	17.4	<0.2	<10	530	0.48	0.29	0.81	1.05	29.3	9.4	17
CC44913		0.33	0.003	0.40	0.95	15.1	<0.2	<10	520	0.51	0.19	0.80	0.88	27.8	6.1	17
CC44914		0.38	0.004	0.41	0.99	57.5	<0.2	<10	560	0.63	0.22	0.40	1.11	36.2	7.9	21
CC44915		0.29	0.003	0.31	0.73	16.4	<0.2	<10	540	0.48	0.16	0.38	0.68	36.9	6.7	15
CC44916		0.45	0.008	0.98	1.17	30.5	<0.2	<10	570	0.63	0.28	0.49	0.73	35.8	8.8	23
CC44917		0.34	0.012	0.99	1.02	37.8	<0.2	<10	150	0.27	0.42	0.09	0.19	23.6	4.6	16
CC44918		0.32	0.003	0.35	1.33	26.1	<0.2	<10	340	0.62	0.22	0.31	0.74	34.2	9.4	21
CC44919		0.41	0.002	0.31	0.70	74.8	<0.2	<10	330	0.44	0.17	0.34	0.68	30.9	6.5	14
CC44920		0.37	0.002	0.50	0.63	13.1	<0.2	<10	300	0.34	0.13	0.38	0.51	22.1	4.2	12
CC44921		0.27	0.003	2.54	0.86	61.0	<0.2	<10	170	0.34	0.13	0.17	0.32	20.9	2.9	11
CC44922		0.34	0.003	0.36	0.99	15.5	<0.2	<10	350	0.58	0.19	0.32	0.75	41.6	8.3	21
CC44923		0.45	0.002	0.40	1.06	59.9	<0.2	<10	390	0.57	0.18	0.28	0.60	37.9	6.7	19
CC44924		0.38	0.002	0.32	1.18	14.0	<0.2	<10	600	0.66	0.22	0.74	0.88	38.1	9.5	22
CC44925		0.42	0.004	0.52	1.72	17.2	<0.2	<10	860	1.06	0.26	0.47	0.42	43.5	9.2	27
CC44926		0.35	0.003	0.20	1.48	16.0	<0.2	<10	280	0.78	0.21	0.19	0.71	42.5	9.2	19
CC44927		0.39	0.001	0.24	1.53	13.7	<0.2	<10	200	0.57	0.24	0.33	0.32	30.0	5.8	23
CC44928		0.40	0.003	0.18	1.23	10.2	<0.2	<10	330	0.50	0.20	0.34	0.30	37.6	7.4	23
CC44929		0.42	0.001	0.33	1.18	9.4	<0.2	<10	370	0.56	0.18	0.29	0.29	34.6	6.4	19
CC44930		0.40	0.003	0.15	1.45	10.6	<0.2	<10	290	0.54	0.21	0.31	0.22	35.6	8.1	25
CC44931		0.37	0.001	0.35	1.40	13.2	<0.2	<10	340	0.49	0.24	0.30	0.33	35.2	6.5	23
CC44932		0.38	0.002	0.26	1.55	11.6	<0.2	<10	280	0.68	0.24	0.15	0.52	33.3	5.0	23
CC44933		0.39	0.003	0.28	1.73	14.2	<0.2	<10	320	0.71	0.26	0.28	0.83	42.0	8.9	30
CC44934		0.32	0.003	0.20	1.60	14.6	<0.2	<10	220	0.60	0.25	0.21	0.20	39.2	9.0	28
CC44935		0.40	0.002	0.26	1.51	13.7	<0.2	<10	330	0.66	0.21	0.46	0.41	33.6	6.1	22
CC44936		0.36	0.003	0.15	1.21	10.7	<0.2	<10	540	0.68	0.18	0.35	0.23	42.1	6.8	21
CC44937		0.36	0.001	0.32	1.89	16.9	<0.2	<10	180	0.56	0.20	0.09	0.52	28.8	5.9	18
CC44938		0.37	0.003	0.27	1.57	28.0	<0.2	<10	310	0.79	0.28	0.25	2.63	37.2	14.9	23
CC44939		0.38	0.004	0.14	1.42	15.0	<0.2	<10	260	0.61	0.26	0.23	0.62	35.9	9.1	25
CC44940		0.38	0.006	0.57	1.34	25.2	<0.2	<10	510	0.75	0.23	0.28	1.44	39.6	11.3	23
CC44941		0.37	0.005	0.11	1.27	11.1	<0.2	<10	170	0.40	0.22	0.16	0.49	31.0	9.5	21
CC44942		0.34	0.002	0.17	1.25	13.5	<0.2	<10	380	0.52	0.22	0.27	0.40	30.9	8.2	21
CC44943		0.37	0.004	0.24	1.18	31.6	<0.2	<10	350	0.61	0.21	0.26	0.65	34.0	10.5	18
CC44944		0.38	0.003	0.10	1.28	15.6	<0.2	<10	470	0.64	0.22	0.25	0.47	34.4	10.3	21
CC44945		0.34	0.003	0.16	1.12	11.1	<0.2	<10	360	0.51	0.21	0.24	0.30	30.7	8.2	19
CC44946		0.43	0.005	0.23	1.34	17.4	<0.2	<10	600	0.66	0.53	0.21	0.50	34.1	8.8	20
CC44947		0.45	0.008	0.40	1.37	19.8	<0.2	<10	570	0.65	0.25	0.43	1.55	31.9	10.3	23
CC44948		0.45	0.003	0.11	0.83	14.2	<0.2	<10	420	0.48	0.32	0.28	0.53	34.4	8.0	18



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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		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	0.01
ZZ60144		0.97	22.1	2.01	3.72	<0.05	0.04	0.09	0.030	0.05	13.0	11.6	0.37	445	1.29	0.01
ZZ60145		1.11	27.5	1.79	3.28	<0.05	0.07	0.14	0.033	0.09	13.1	11.4	0.35	226	1.39	0.02
ZZ60146		0.98	20.5	0.86	3.33	0.05	0.03	0.10	0.026	0.05	13.3	11.3	0.27	99	0.89	0.01
ZZ60147		0.86	25.9	2.22	2.98	0.05	0.04	0.13	0.028	0.08	14.5	12.2	0.38	631	2.07	0.01
CC44913		0.84	23.8	1.78	3.24	0.05	0.04	0.14	0.025	0.06	14.3	10.4	0.32	347	0.97	0.01
CC44914		1.13	31.8	2.94	3.45	0.06	0.07	0.14	0.029	0.10	18.5	13.1	0.37	146	3.34	0.01
CC44915		0.81	24.7	1.90	2.68	0.07	0.05	0.12	0.024	0.07	18.9	9.5	0.30	256	2.43	0.01
CC44916		1.34	31.6	2.59	4.20	0.06	0.06	0.19	0.035	0.08	18.2	13.7	0.40	350	2.22	0.01
CC44917		1.83	21.1	1.65	5.29	<0.05	<0.02	0.17	0.039	0.07	12.8	6.7	0.17	294	2.34	0.01
CC44918		1.11	27.8	2.59	3.84	0.06	0.04	0.12	0.034	0.09	16.5	17.8	0.35	407	2.10	0.01
CC44919		1.26	17.8	2.16	2.58	0.07	0.04	0.10	0.028	0.06	16.0	9.4	0.29	215	4.81	0.01
CC44920		0.83	18.5	1.39	2.47	<0.05	<0.02	0.11	0.021	0.05	11.2	6.7	0.20	208	1.20	0.02
CC44921		2.42	16.9	1.28	2.97	<0.05	<0.02	0.13	0.027	0.06	10.8	6.2	0.14	145	1.00	0.02
CC44922		1.18	29.7	2.11	3.52	0.07	<0.02	0.10	0.028	0.08	21.2	14.9	0.49	433	1.84	0.01
CC44923		1.74	20.7	2.16	3.56	0.06	0.02	0.06	0.029	0.06	19.5	13.6	0.39	301	1.59	0.01
CC44924		0.99	24.9	2.42	4.08	0.06	0.05	0.12	0.031	0.07	19.5	16.3	0.44	485	1.39	0.02
CC44925		1.83	32.8	2.80	5.26	0.07	0.06	0.13	0.039	0.07	23.6	17.1	0.44	452	1.80	0.01
CC44926		1.35	24.1	2.51	4.09	0.06	0.03	0.10	0.032	0.06	20.6	16.3	0.33	414	1.65	0.01
CC44927		1.25	16.1	2.60	4.91	0.05	0.04	0.06	0.027	0.05	15.2	19.5	0.35	187	1.33	0.01
CC44928		1.15	14.0	2.13	4.33	0.05	0.02	0.07	0.021	0.05	18.9	16.7	0.41	229	1.49	0.01
CC44929		1.32	21.2	1.89	4.15	0.05	<0.02	0.13	0.026	0.05	17.9	14.7	0.30	187	1.16	0.02
CC44930		1.29	18.2	2.35	4.59	0.05	0.02	0.09	0.025	0.05	17.9	15.1	0.42	290	1.10	0.01
CC44931		1.40	18.8	2.40	5.30	0.05	<0.02	0.07	0.023	0.05	18.0	15.1	0.37	255	1.38	0.01
CC44932		1.45	22.9	2.22	5.17	0.05	<0.02	0.09	0.029	0.05	17.8	11.7	0.28	161	1.49	0.01
CC44933		1.41	20.6	2.79	5.26	0.06	0.02	0.07	0.030	0.05	21.1	15.3	0.50	332	1.64	0.01
CC44934		1.79	18.0	2.68	5.11	0.05	0.02	0.09	0.027	0.06	19.3	16.1	0.49	313	1.26	0.01
CC44935		1.47	17.3	2.42	4.66	0.05	<0.02	0.05	0.028	0.05	16.0	14.0	0.36	199	1.37	0.01
CC44936		1.22	16.6	2.11	3.95	0.06	0.03	0.06	0.024	0.05	20.8	14.6	0.37	241	1.23	0.01
CC44937		1.39	19.5	2.96	5.22	<0.05	0.07	0.06	0.035	0.05	13.9	23.0	0.25	225	1.62	0.01
CC44938		1.66	22.2	2.59	4.22	0.05	0.03	0.04	0.043	0.08	16.2	18.6	0.36	523	2.70	0.01
CC44939		1.37	14.4	2.51	4.50	0.05	0.02	0.05	0.031	0.08	17.4	16.4	0.47	336	1.32	0.01
CC44940		1.43	36.7	2.42	3.78	0.06	0.03	0.10	0.032	0.08	19.0	13.3	0.38	447	2.69	0.01
CC44941		1.31	16.7	2.25	3.98	<0.05	0.02	0.04	0.028	0.06	14.7	14.5	0.33	262	1.62	0.01
CC44942		1.07	24.3	2.25	3.65	<0.05	<0.02	0.06	0.028	0.06	15.4	13.9	0.33	305	1.69	0.01
CC44943		1.17	26.8	2.21	2.92	0.05	0.03	0.06	0.030	0.06	16.6	14.0	0.31	413	2.49	0.01
CC44944		1.11	24.4	2.24	3.42	0.05	<0.02	0.06	0.030	0.06	16.8	13.1	0.32	418	2.20	0.01
CC44945		0.82	19.0	2.07	3.33	<0.05	<0.02	0.05	0.022	0.05	15.4	11.8	0.32	319	1.89	0.01
CC44946		1.16	30.2	2.52	3.75	<0.05	0.03	0.07	0.033	0.07	16.3	16.8	0.35	362	2.19	0.01
CC44947		1.20	31.6	2.46	3.98	<0.05	<0.02	0.09	0.033	0.08	16.8	16.0	0.38	532	2.44	0.01
CC44948		0.71	23.4	1.92	2.53	0.05	0.02	0.05	0.023	0.06	17.5	11.5	0.32	299	2.08	0.01



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Sample Description	Method	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	
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		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
ZZ60144		0.86	18.9	830	25.5	8.4	0.001	0.04	2.33	2.9	1.5	1.1	37.4	<0.01	0.04	1.3
ZZ60145		0.66	21.1	910	48.1	11.8	0.003	0.06	4.89	3.2	1.6	2.0	50.1	<0.01	0.02	1.6
ZZ60146		0.60	13.7	770	30.8	9.4	0.002	0.07	2.93	2.3	1.3	0.7	34.5	<0.01	0.03	1.4
ZZ60147		0.65	25.0	970	16.9	7.0	0.003	0.04	1.69	3.6	1.8	0.5	45.4	<0.01	0.04	2.9
CC44913		0.72	21.8	770	23.0	8.0	0.001	0.05	2.64	3.3	2.4	0.9	45.6	<0.01	0.03	2.0
CC44914		0.80	30.7	1330	26.0	8.2	0.001	0.03	3.69	4.4	2.0	1.7	34.7	<0.01	0.04	4.6
CC44915		0.59	19.8	1130	24.4	5.7	0.001	0.02	3.13	3.4	2.3	0.9	35.1	<0.01	0.04	4.5
CC44916		1.06	25.2	930	59.7	9.1	0.002	0.04	7.86	4.5	4.3	3.2	35.7	<0.01	0.06	3.6
CC44917		0.43	8.4	660	97.7	11.4	<0.001	0.02	10.25	0.6	3.6	10.3	17.1	<0.01	0.09	0.3
CC44918		0.73	27.3	1020	29.7	8.9	0.001	0.02	2.67	3.1	1.4	1.2	25.3	<0.01	0.02	3.3
CC44919		0.74	21.5	1080	33.4	6.0	0.003	0.02	4.98	2.5	2.5	1.5	32.1	<0.01	0.05	3.9
CC44920		0.58	12.2	780	18.7	5.5	0.001	0.04	1.86	2.2	1.5	0.4	27.8	<0.01	0.02	1.3
CC44921		0.42	10.5	690	198.5	7.7	<0.001	0.04	6.47	0.9	1.2	3.6	17.7	<0.01	0.03	0.3
CC44922		0.60	26.1	1010	17.5	7.0	0.001	0.02	2.51	3.5	1.5	0.7	28.6	<0.01	0.04	3.1
CC44923		0.55	25.3	880	43.0	8.0	<0.001	0.02	4.55	2.8	1.0	1.7	25.3	<0.01	0.03	2.4
CC44924		1.10	25.5	890	15.9	7.8	0.001	0.03	1.84	4.3	1.9	0.6	43.1	<0.01	0.04	3.4
CC44925		1.04	27.3	730	16.5	10.0	<0.001	0.02	1.25	5.7	1.8	0.7	30.2	<0.01	0.04	3.9
CC44926		1.02	22.7	780	15.3	7.7	<0.001	0.01	1.32	3.4	1.2	0.5	19.0	<0.01	0.04	4.6
CC44927		1.55	16.1	580	14.4	7.4	<0.001	0.02	0.90	2.8	1.3	0.6	22.1	0.01	0.04	3.9
CC44928		0.92	18.2	960	10.9	8.5	<0.001	0.02	0.98	2.8	1.3	0.5	23.3	<0.01	0.02	2.4
CC44929		0.67	17.6	760	10.3	8.1	<0.001	0.02	0.93	2.1	0.9	0.5	22.4	<0.01	0.03	0.8
CC44930		0.91	20.4	800	12.8	7.8	<0.001	0.01	0.74	2.7	0.9	0.6	20.7	<0.01	0.03	1.8
CC44931		1.20	17.9	550	18.0	8.4	<0.001	0.02	1.01	2.8	1.1	0.6	22.4	<0.01	0.03	2.4
CC44932		1.25	16.0	460	13.3	10.2	<0.001	0.02	0.76	2.6	1.3	0.6	15.8	<0.01	0.03	1.7
CC44933		0.99	22.7	960	15.1	9.1	<0.001	0.02	0.83	2.9	1.3	0.6	20.7	<0.01	0.03	1.7
CC44934		0.92	20.4	1020	14.4	8.8	<0.001	0.02	1.18	2.4	1.4	0.6	17.2	<0.01	0.05	1.0
CC44935		0.98	18.2	770	15.3	10.1	0.001	0.02	1.26	2.2	0.9	0.6	26.4	<0.01	0.03	1.4
CC44936		0.84	20.3	780	11.3	7.3	<0.001	0.01	0.98	3.2	1.0	0.5	23.8	<0.01	0.02	3.4
CC44937		1.28	16.1	570	15.9	11.9	<0.001	0.02	1.13	2.9	0.8	0.6	14.9	0.01	0.03	4.4
CC44938		0.84	27.5	1060	39.2	11.1	<0.001	0.02	3.02	2.7	1.1	0.6	32.4	<0.01	0.05	2.5
CC44939		1.24	22.9	940	14.1	10.4	<0.001	0.01	1.01	3.5	1.0	0.6	19.4	<0.01	0.05	4.3
CC44940		0.51	38.5	1100	28.9	9.6	0.001	0.02	3.46	2.9	1.5	1.1	27.5	<0.01	0.06	1.8
CC44941		0.94	34.5	790	14.7	9.5	0.001	0.01	1.42	2.1	1.2	0.6	15.3	<0.01	0.03	1.8
CC44942		0.52	24.9	800	16.3	8.4	0.001	0.01	1.22	1.9	1.1	0.5	25.1	<0.01	0.04	1.0
CC44943		0.59	32.7	980	32.7	8.5	0.001	0.01	3.68	2.5	1.2	1.2	30.1	<0.01	0.05	2.9
CC44944		0.52	26.9	890	15.9	9.3	0.001	0.01	1.54	2.4	1.2	0.4	24.0	<0.01	0.05	1.6
CC44945		0.58	20.7	770	12.1	8.1	<0.001	0.01	1.11	2.1	1.0	0.4	20.0	<0.01	0.03	1.4
CC44946		0.73	28.0	540	20.5	11.0	0.001	0.01	1.51	3.7	1.1	0.6	23.3	<0.01	0.04	3.2
CC44947		0.47	27.7	1030	20.7	12.3	<0.001	0.02	1.78	2.3	1.0	0.6	29.6	<0.01	0.04	0.9
CC44948		0.56	23.4	730	18.2	5.5	0.001	0.01	2.05	3.0	1.1	0.4	26.2	<0.01	0.05	4.0



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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
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ60144		0.029	0.12	1.66	41	0.23	8.65	91	1.0
ZZ60145		0.018	0.18	1.54	42	0.10	10.20	179	2.0
ZZ60146		0.014	0.14	1.08	32	0.38	8.20	117	0.9
ZZ60147		0.018	0.16	1.27	37	0.79	11.15	131	1.3
CC44913		0.017	0.13	1.57	39	0.19	11.25	103	1.2
CC44914		0.021	0.19	1.40	50	0.14	12.30	142	2.8
CC44915		0.019	0.13	1.24	38	0.20	11.45	118	2.3
CC44916		0.022	0.20	2.94	47	0.32	11.95	108	1.8
CC44917		0.009	0.30	0.69	49	0.20	3.10	50	<0.5
CC44918		0.015	0.19	0.96	47	0.16	8.46	133	1.0
CC44919		0.023	0.14	1.57	42	0.22	8.44	140	1.4
CC44920		0.021	0.11	0.91	27	0.15	7.75	68	0.5
CC44921		0.013	0.12	1.44	28	0.13	7.93	54	<0.5
CC44922		0.025	0.14	1.06	39	0.21	12.70	110	0.5
CC44923		0.017	0.15	1.03	39	0.43	10.05	119	<0.5
CC44924		0.031	0.12	2.94	42	0.71	13.05	108	1.4
CC44925		0.021	0.18	2.20	53	0.29	18.45	101	1.4
CC44926		0.021	0.17	1.04	41	0.24	9.24	101	1.0
CC44927		0.033	0.15	0.95	47	0.30	6.18	62	1.1
CC44928		0.030	0.12	2.69	41	0.37	8.80	77	<0.5
CC44929		0.024	0.15	0.99	38	0.32	9.61	73	<0.5
CC44930		0.032	0.14	1.10	44	0.35	8.65	81	<0.5
CC44931		0.036	0.17	1.14	50	0.45	7.37	68	<0.5
CC44932		0.030	0.16	1.26	46	0.30	6.72	57	<0.5
CC44933		0.036	0.15	1.38	51	0.41	10.35	136	<0.5
CC44934		0.036	0.15	1.97	47	0.49	9.06	94	<0.5
CC44935		0.027	0.14	1.73	45	0.39	7.14	103	<0.5
CC44936		0.025	0.12	1.29	36	0.27	11.55	74	0.8
CC44937		0.019	0.15	0.76	50	0.26	4.39	103	2.5
CC44938		0.019	0.18	1.11	51	0.19	6.29	315	0.8
CC44939		0.047	0.17	1.25	44	0.34	9.18	99	0.7
CC44940		0.016	0.23	1.19	54	0.15	13.15	194	0.7
CC44941		0.027	0.20	0.86	48	0.21	6.04	145	0.6
CC44942		0.020	0.14	0.93	46	0.24	7.42	98	<0.5
CC44943		0.016	0.18	1.04	45	0.14	8.03	150	0.8
CC44944		0.017	0.17	1.14	48	0.16	9.26	124	<0.5
CC44945		0.021	0.12	0.85	44	0.16	6.46	83	<0.5
CC44946		0.013	0.18	0.87	50	0.15	7.56	120	0.8
CC44947		0.015	0.17	0.97	56	0.18	10.25	173	<0.5
CC44948		0.025	0.11	0.97	40	0.16	9.08	123	1.1

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



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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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
CC44949		0.34	0.002	0.52	1.19	9.4	<0.2	<10	540	0.48	0.18	0.54	0.63	18.40	15.6	15
CC44950		0.38	0.002	0.28	1.32	10.2	<0.2	<10	570	0.49	0.18	0.44	1.46	20.0	6.5	16
CC44951		0.48	0.003	0.17	1.19	10.2	<0.2	<10	350	0.43	0.22	0.29	0.39	29.5	6.9	20
CC44952		0.44	0.003	0.15	0.82	12.9	<0.2	<10	490	0.44	0.18	0.38	0.55	35.8	7.5	19
CC44953		0.44	0.003	0.22	1.02	13.5	<0.2	<10	250	0.49	0.18	0.23	0.53	31.4	10.0	17
CC44954		0.39	0.004	0.13	1.22	13.7	<0.2	<10	220	0.47	0.21	0.15	0.41	30.2	8.2	21
CC44955		0.36	0.004	0.12	1.57	19.7	<0.2	<10	250	0.63	0.21	0.19	0.59	34.6	10.3	25
CC44956		0.41	0.015	0.19	1.10	14.3	<0.2	<10	390	0.51	0.19	0.22	0.45	33.1	11.4	20
CC44957		0.46	0.005	0.34	0.99	16.0	<0.2	<10	550	0.55	0.20	0.35	0.52	33.4	9.3	22
CC44958		0.41	0.006	0.22	0.79	15.1	<0.2	<10	520	0.50	0.19	0.35	0.66	37.3	10.5	18
CC44959		0.42	0.004	0.14	1.14	15.5	<0.2	<10	380	0.57	0.23	0.21	0.58	34.6	10.3	19
CC44960		0.40	0.005	0.51	1.12	18.1	<0.2	<10	870	0.70	0.25	0.36	0.56	38.4	11.2	21
CC44961		0.41	0.004	0.16	0.77	13.3	<0.2	<10	550	0.45	0.20	0.31	0.55	40.3	10.5	17
CC44962		0.39	0.004	0.21	1.45	14.4	<0.2	<10	390	0.80	0.23	0.23	0.63	36.2	11.1	22
CC44963		0.35	0.003	0.14	1.44	12.7	<0.2	<10	200	0.46	0.26	0.17	0.47	28.9	5.2	23
CC44964		0.36	0.002	0.29	1.54	14.2	<0.2	<10	250	0.55	0.36	0.17	0.69	31.2	9.1	26
CC44965		0.33	0.004	0.13	1.19	14.7	<0.2	<10	300	0.70	0.18	0.18	0.92	32.1	10.0	17
CC44966		0.40	0.003	0.08	1.31	15.5	<0.2	<10	210	0.46	0.20	0.26	0.25	30.9	6.3	20
CC44967		0.37	0.002	0.36	1.37	13.6	<0.2	<10	240	0.47	0.21	0.22	0.36	25.8	5.5	20
CC44968		0.31	0.001	0.16	1.02	9.5	<0.2	<10	80	0.21	0.23	0.06	0.21	19.25	4.0	16
CC44969		0.39	0.002	0.27	1.28	14.9	<0.2	<10	310	0.48	0.19	0.43	0.22	29.9	10.8	20
CC44970		0.32	0.008	0.21	1.15	13.9	<0.2	<10	470	0.63	0.19	0.38	0.54	41.0	6.4	16
ZZ33621		0.28	0.029	0.27	0.96	14.5	<0.2	<10	540	0.48	0.18	1.00	0.92	24.5	7.3	16
ZZ33622		0.15	0.003	0.38	0.70	9.3	<0.2	<10	360	0.25	0.13	1.36	0.49	13.95	4.4	12
ZZ33623		0.32	0.003	0.28	1.00	16.6	<0.2	<10	430	0.51	0.26	0.61	0.50	29.5	7.7	20
ZZ33624		0.29	0.003	0.36	0.93	79.4	<0.2	<10	450	0.41	0.21	0.97	1.97	20.7	4.6	14
ZZ33625		0.31	0.003	0.30	1.02	14.3	<0.2	<10	390	0.47	0.28	0.92	1.05	27.3	6.0	19
ZZ33626		0.28	0.003	0.35	0.71	23.2	<0.2	<10	280	0.41	0.41	0.44	0.72	26.0	4.8	15
ZZ33627		0.15	0.005	0.65	1.24	48.0	<0.2	<10	480	0.82	0.43	1.91	3.96	25.3	9.3	21
ZZ33628		0.39	0.004	0.16	1.02	17.1	<0.2	<10	360	0.45	0.21	0.49	0.23	24.0	8.0	20
ZZ33629		0.23	0.002	0.26	1.23	20.9	<0.2	<10	460	0.56	0.27	0.50	0.53	30.6	8.4	24
ZZ33630		0.23	0.003	0.46	1.21	20.2	<0.2	<10	540	0.58	0.26	0.62	0.81	31.7	8.7	23
ZZ33631		0.35	0.004	0.17	1.03	20.1	<0.2	<10	420	0.55	0.25	0.20	0.36	34.2	7.9	20
ZZ33632		0.21	0.002	0.20	1.15	46.8	<0.2	<10	430	0.37	0.25	0.59	0.96	20.2	8.0	21
ZZ33633		0.38	0.003	0.33	0.95	22.6	<0.2	<10	420	0.48	0.25	0.60	0.67	26.6	6.5	19
ZZ33634		0.32	0.002	0.19	1.02	21.9	<0.2	<10	420	0.45	0.31	0.56	0.69	24.9	6.5	19
ZZ33635		0.44	0.003	0.26	1.58	30.6	<0.2	<10	480	0.75	0.39	0.27	0.47	30.0	8.9	23
ZZ33636		0.31	0.003	0.33	1.20	19.5	<0.2	<10	540	0.54	0.31	0.54	0.44	29.3	8.9	23
ZZ33637		0.30	0.002	0.15	1.22	32.4	<0.2	<10	350	0.49	0.31	0.25	0.51	25.6	8.1	22
ZZ33638		0.33	0.002	0.14	1.07	34.4	<0.2	<10	430	0.41	0.35	0.20	0.59	25.1	6.8	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	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
CC44949		1.38	25.9	1.82	3.86	<0.05	<0.02	0.05	0.023	0.05	8.5	5.4	0.17	1560	2.02	0.02
CC44950		1.07	20.3	1.77	3.48	<0.05	0.03	0.07	0.022	0.05	10.7	9.9	0.23	600	1.29	0.02
CC44951		1.18	21.1	1.89	3.71	<0.05	<0.02	0.10	0.021	0.05	15.0	11.3	0.31	244	1.66	0.01
CC44952		0.71	23.1	1.83	2.49	0.05	0.02	0.05	0.021	0.05	18.9	9.9	0.37	298	2.07	0.01
CC44953		0.92	21.8	1.89	2.91	<0.05	0.02	0.04	0.024	0.05	15.0	10.8	0.29	370	2.05	0.01
CC44954		1.19	19.5	2.09	3.88	<0.05	<0.02	0.04	0.027	0.06	15.2	12.0	0.31	300	1.97	0.01
CC44955		1.39	21.1	2.34	3.83	<0.05	0.04	0.05	0.032	0.07	18.1	14.2	0.40	285	2.12	0.01
CC44956		1.01	21.5	2.06	3.15	<0.05	0.02	0.05	0.024	0.05	16.4	11.3	0.32	421	2.26	0.01
CC44957		1.00	32.9	2.00	3.14	0.05	<0.02	0.11	0.029	0.06	17.2	11.8	0.38	365	2.43	0.01
CC44958		0.67	31.1	1.86	2.42	0.05	0.03	0.09	0.024	0.05	18.8	10.9	0.33	437	2.46	0.01
CC44959		1.04	27.1	2.06	3.12	0.05	0.02	0.08	0.027	0.06	17.1	11.2	0.31	415	2.26	0.01
CC44960		1.36	46.9	2.40	3.32	0.05	0.02	0.20	0.034	0.09	19.6	13.6	0.36	457	2.92	0.01
CC44961		0.63	32.9	1.94	2.50	0.05	0.02	0.09	0.023	0.06	20.4	11.5	0.29	421	2.19	0.01
CC44962		1.43	34.1	2.45	3.43	0.05	0.04	0.07	0.031	0.07	18.0	13.7	0.32	387	2.28	0.01
CC44963		1.30	12.5	2.28	5.19	<0.05	<0.02	0.05	0.025	0.05	15.2	14.7	0.31	166	1.54	0.01
CC44964		1.38	17.3	2.51	4.43	<0.05	0.02	0.04	0.030	0.06	15.1	15.6	0.39	285	1.58	0.01
CC44965		0.98	23.9	2.20	2.84	<0.05	0.04	0.05	0.029	0.06	14.8	12.1	0.28	420	1.66	0.01
CC44966		1.36	11.6	2.10	4.06	<0.05	<0.02	0.04	0.021	0.05	14.8	14.2	0.30	186	1.09	0.01
CC44967		1.33	16.7	2.38	4.16	<0.05	<0.02	0.06	0.026	0.04	12.8	15.1	0.31	230	1.39	0.01
CC44968		1.00	8.7	2.11	4.96	<0.05	<0.02	0.02	0.018	0.04	9.8	8.2	0.20	244	1.30	0.01
CC44969		1.12	11.3	2.22	3.81	<0.05	0.02	0.06	0.028	0.05	15.0	27.2	0.38	376	1.52	0.01
CC44970		1.12	18.0	2.21	3.12	0.05	0.02	0.08	0.022	0.08	20.9	14.8	0.35	338	1.54	0.02
ZZ33621		0.70	27.4	1.94	2.84	<0.05	0.02	0.11	0.022	0.06	12.9	14.4	0.27	300	1.92	0.01
ZZ33622		0.76	15.7	1.30	1.90	<0.05	0.04	0.06	0.017	0.05	7.3	6.5	0.27	300	1.09	0.02
ZZ33623		0.77	17.4	1.94	3.03	<0.05	0.04	0.06	0.027	0.06	14.0	13.4	0.36	349	1.37	0.01
ZZ33624		0.71	16.4	2.26	2.53	<0.05	0.05	0.11	0.020	0.07	10.9	9.4	0.25	156	0.84	0.01
ZZ33625		0.78	19.6	1.74	2.96	<0.05	0.04	0.10	0.026	0.06	13.6	13.0	0.37	270	0.80	0.02
ZZ33626		0.97	16.3	1.70	2.12	<0.05	0.05	0.07	0.023	0.05	13.4	10.1	0.29	177	1.55	0.01
ZZ33627		1.73	48.8	3.05	3.33	<0.05	0.08	0.17	0.039	0.08	14.2	12.9	0.34	526	1.38	0.01
ZZ33628		0.99	13.4	2.12	3.09	<0.05	0.03	0.07	0.023	0.05	12.0	12.6	0.34	324	1.71	0.01
ZZ33629		1.12	22.0	2.05	3.77	<0.05	0.04	0.10	0.024	0.05	15.6	13.2	0.42	193	1.23	0.01
ZZ33630		1.05	29.6	2.13	3.64	<0.05	0.04	0.13	0.027	0.06	15.6	14.2	0.40	359	1.13	0.01
ZZ33631		1.09	23.3	2.02	3.16	<0.05	0.03	0.08	0.024	0.06	18.1	14.0	0.37	308	1.40	0.01
ZZ33632		1.10	23.1	1.75	3.80	<0.05	0.02	0.04	0.021	0.06	9.6	13.4	0.53	471	1.42	0.02
ZZ33633		1.00	15.7	1.77	2.79	<0.05	0.04	0.07	0.026	0.06	13.4	11.9	0.35	335	1.54	0.01
ZZ33634		0.90	15.9	1.84	3.53	<0.05	0.03	0.05	0.026	0.07	12.3	14.2	0.34	285	1.73	0.01
ZZ33635		1.51	25.6	2.28	4.24	<0.05	0.02	0.08	0.033	0.07	15.3	16.0	0.39	241	2.56	0.01
ZZ33636		1.14	16.4	2.01	4.23	<0.05	0.02	0.05	0.028	0.06	14.3	12.9	0.38	376	1.45	0.01
ZZ33637		1.20	15.5	2.07	3.63	<0.05	<0.02	0.04	0.029	0.07	13.0	15.2	0.37	290	2.01	0.01
ZZ33638		0.91	20.0	1.89	3.31	<0.05	0.02	0.04	0.029	0.07	12.7	13.8	0.30	331	1.83	0.01





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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
CC44949		0.23	13.0	1350	12.9	15.0	<0.001	0.06	1.34	0.4	0.7	0.5	33.1	<0.01	0.03	<0.2
CC44950		0.47	14.6	1200	13.7	11.4	<0.001	0.05	1.08	1.2	0.8	0.4	28.6	<0.01	0.04	0.5
CC44951		0.48	19.0	860	10.5	8.0	0.001	0.02	0.89	1.5	1.2	0.4	23.9	<0.01	0.04	0.7
CC44952		0.51	23.3	1200	13.6	5.4	0.001	<0.01	2.11	2.8	1.0	0.8	32.2	<0.01	0.04	4.0
CC44953		0.53	25.7	1020	13.3	7.4	0.001	0.01	1.53	1.9	1.1	1.7	24.3	<0.01	0.04	1.8
CC44954		0.83	19.9	680	20.3	9.1	<0.001	0.01	1.46	2.3	1.0	0.9	17.8	<0.01	0.04	2.5
CC44955		0.90	28.2	920	22.5	11.5	0.001	0.01	2.63	3.1	1.2	0.8	20.8	<0.01	0.03	3.8
CC44956		0.58	24.2	950	21.7	8.1	0.001	0.01	2.16	2.0	1.2	0.5	22.8	<0.01	0.05	1.8
CC44957		0.44	29.9	1030	17.3	7.2	0.001	0.01	2.26	2.5	1.3	0.9	28.7	<0.01	0.04	1.2
CC44958		0.41	32.6	1120	16.4	5.1	0.001	0.01	2.46	3.2	1.4	0.7	32.9	<0.01	0.04	4.6
CC44959		0.54	28.9	960	15.9	8.4	0.001	0.01	1.82	2.5	1.2	0.6	23.0	<0.01	0.04	1.9
CC44960		0.39	39.2	1040	18.7	10.7	0.001	0.01	2.20	4.9	1.5	0.7	35.5	<0.01	0.06	3.7
CC44961		0.41	30.7	940	12.4	5.3	0.001	0.01	1.65	3.2	1.3	0.3	35.8	<0.01	0.05	4.2
CC44962		0.58	38.9	1240	12.9	10.7	0.001	0.01	1.46	3.1	2.1	0.4	24.0	<0.01	0.05	2.5
CC44963		1.14	15.5	500	14.6	9.6	<0.001	0.01	0.89	2.1	0.9	0.8	16.7	<0.01	0.03	1.5
CC44964		1.10	22.3	790	13.7	12.1	<0.001	0.01	1.12	2.9	0.9	0.8	16.2	<0.01	0.04	2.7
CC44965		0.62	26.5	870	13.3	8.9	0.001	0.01	1.42	3.2	1.1	0.4	23.3	<0.01	0.04	4.2
CC44966		0.90	15.4	770	12.1	7.6	0.001	0.01	0.75	1.9	1.1	0.5	20.3	<0.01	0.03	1.5
CC44967		1.15	15.4	570	14.6	7.7	<0.001	0.01	1.10	2.5	0.7	0.7	21.8	<0.01	0.04	2.7
CC44968		1.20	8.2	440	11.3	9.3	<0.001	0.01	0.54	1.3	0.4	0.6	8.3	<0.01	0.03	0.7
CC44969		0.68	18.2	960	11.9	8.7	0.001	0.01	1.69	2.0	0.9	0.5	23.1	<0.01	0.03	1.7
CC44970		0.79	19.9	920	13.9	7.6	<0.001	0.01	1.59	3.2	1.0	0.5	29.5	<0.01	0.03	3.4
ZZ33621		0.53	20.2	790	19.4	8.8	0.001	0.03	1.58	2.8	1.0	0.4	43.2	<0.01	0.04	1.4
ZZ33622		0.41	12.7	900	7.3	6.2	<0.001	0.06	1.50	1.7	0.7	0.3	59.8	<0.01	0.02	0.8
ZZ33623		0.81	21.4	580	15.8	7.7	0.001	0.01	1.81	3.5	0.8	0.6	31.4	<0.01	0.03	2.6
ZZ33624		0.44	16.7	1300	14.5	8.8	0.003	0.06	2.25	2.2	1.7	0.4	39.7	<0.01	0.03	1.2
ZZ33625		0.70	17.1	790	15.9	8.1	0.002	0.06	1.95	3.3	1.3	0.4	41.7	<0.01	0.03	1.9
ZZ33626		0.58	17.6	900	16.8	5.8	0.001	0.01	3.13	3.0	0.9	0.5	29.4	<0.01	0.04	3.6
ZZ33627		0.80	33.7	820	24.9	13.1	0.001	0.07	4.90	4.9	2.1	1.0	67.9	<0.01	0.04	1.9
ZZ33628		0.85	19.0	720	11.3	7.5	0.001	0.02	1.20	2.8	0.9	0.4	28.7	<0.01	0.02	1.9
ZZ33629		1.24	22.9	900	14.5	9.5	0.001	0.02	1.40	3.7	1.4	0.6	33.2	<0.01	0.03	3.1
ZZ33630		1.04	29.0	810	14.7	9.7	0.001	0.03	1.44	4.0	1.4	0.5	32.1	<0.01	0.02	2.4
ZZ33631		0.97	22.2	320	15.2	7.5	<0.001	0.01	1.83	4.3	1.0	0.5	18.9	<0.01	0.03	4.4
ZZ33632		0.75	21.2	740	14.5	7.6	<0.001	0.02	1.87	2.4	0.9	0.5	30.5	<0.01	0.03	1.1
ZZ33633		0.71	19.1	870	17.0	8.3	0.001	0.02	2.24	3.0	1.1	0.5	31.4	<0.01	0.03	2.1
ZZ33634		0.69	18.3	560	15.9	10.9	<0.001	0.02	2.00	2.6	0.7	0.5	27.4	<0.01	0.02	1.5
ZZ33635		0.82	32.1	600	23.6	12.3	<0.001	0.01	2.28	3.5	1.0	0.7	23.7	<0.01	0.04	2.7
ZZ33636		0.98	20.5	680	15.8	10.5	<0.001	0.02	1.44	3.0	0.9	0.6	34.3	<0.01	0.02	1.7
ZZ33637		0.66	22.0	740	22.4	10.1	0.001	0.01	2.61	1.8	1.0	0.6	22.3	<0.01	0.04	1.0
ZZ33638		0.69	17.8	530	23.6	11.2	<0.001	0.01	2.44	2.5	1.0	0.6	20.4	<0.01	0.03	1.9





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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC44949		0.010	0.18	0.76	44	0.13	4.85	86	<0.5
CC44950		0.014	0.14	1.19	38	0.14	7.05	173	0.9
CC44951		0.021	0.16	1.70	42	0.30	7.23	88	<0.5
CC44952		0.030	0.11	1.10	42	0.22	11.05	115	0.9
CC44953		0.019	0.15	0.98	42	0.13	7.02	111	0.5
CC44954		0.026	0.17	0.84	49	0.19	5.84	92	<0.5
CC44955		0.027	0.17	1.03	51	0.21	7.14	129	1.3
CC44956		0.023	0.16	1.08	44	0.79	6.51	107	0.5
CC44957		0.022	0.16	1.01	44	0.14	11.55	122	<0.5
CC44958		0.025	0.13	1.16	41	0.11	12.10	126	1.4
CC44959		0.020	0.18	1.17	46	0.26	9.69	138	0.7
CC44960		0.017	0.24	1.14	55	0.13	14.65	173	0.5
CC44961		0.025	0.11	1.12	42	0.09	11.55	125	0.8
CC44962		0.016	0.21	1.26	44	0.19	10.00	133	1.0
CC44963		0.032	0.16	0.74	51	0.26	4.74	63	<0.5
CC44964		0.031	0.16	0.82	51	0.26	6.41	87	<0.5
CC44965		0.015	0.16	0.91	37	0.12	7.54	94	1.2
CC44966		0.026	0.13	0.82	39	0.38	5.77	56	<0.5
CC44967		0.026	0.14	0.65	48	0.23	5.18	61	0.5
CC44968		0.037	0.11	0.46	49	0.39	1.92	51	<0.5
CC44969		0.019	0.12	1.11	38	0.25	6.26	99	0.5
CC44970		0.031	0.14	0.97	36	0.14	12.35	96	0.5
ZZ33621		0.011	0.16	1.01	41	0.12	9.02	120	0.6
ZZ33622		0.017	0.10	0.62	29	0.08	4.22	81	1.5
ZZ33623		0.026	0.10	1.01	40	0.26	7.93	85	1.2
ZZ33624		0.019	0.11	1.35	39	2.57	7.86	189	1.4
ZZ33625		0.020	0.12	1.66	39	0.14	9.86	119	1.2
ZZ33626		0.020	0.13	0.95	34	0.10	8.64	116	1.7
ZZ33627		0.013	0.23	2.08	49	0.11	17.30	367	3.1
ZZ33628		0.024	0.14	0.99	40	0.27	6.35	89	1.0
ZZ33629		0.029	0.14	1.60	42	0.38	9.53	100	1.3
ZZ33630		0.028	0.13	1.79	42	0.26	10.80	106	1.3
ZZ33631		0.026	0.14	0.94	39	0.14	11.25	95	1.1
ZZ33632		0.027	0.11	1.02	47	0.14	5.32	88	0.6
ZZ33633		0.022	0.13	1.16	40	0.19	8.43	114	1.1
ZZ33634		0.018	0.13	0.77	44	0.11	5.08	119	0.7
ZZ33635		0.013	0.23	0.87	56	0.14	7.19	128	0.6
ZZ33636		0.026	0.13	1.28	46	0.31	6.99	87	0.5
ZZ33637		0.017	0.15	0.75	47	0.15	5.39	136	<0.5
ZZ33638		0.013	0.14	0.67	44	0.11	5.65	122	0.6



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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR															
ZZ33639		0.17	0.004	0.37	1.19	12.0	<0.2	<10	740	0.54	0.23	0.93	0.50	27.1	8.5	22
ZZ33640		0.40	0.004	0.34	1.04	20.8	<0.2	<10	540	0.53	0.27	0.33	0.97	30.5	7.7	19
ZZ33641		0.36	0.005	0.24	1.39	13.9	<0.2	<10	490	0.68	0.22	0.31	0.56	39.0	7.0	22
ZZ33642		0.31	0.003	0.49	1.43	30.7	<0.2	<10	370	0.67	0.23	0.17	1.40	29.1	9.5	20
ZZ33643		0.30	0.004	0.43	1.01	16.2	<0.2	<10	630	0.57	0.22	0.87	0.99	37.3	9.3	19
ZZ33644		0.36	0.002	0.15	1.30	16.4	<0.2	<10	480	0.59	0.20	0.30	0.37	29.0	7.3	21
ZZ33645		0.45	0.005	0.84	1.14	60.9	<0.2	<10	450	0.61	0.56	0.51	1.00	37.8	7.3	23
ZZ33646		0.41	0.006	0.69	1.04	126.5	<0.2	<10	360	0.51	0.72	0.18	1.86	29.7	5.5	16
ZZ33647		0.48	0.003	0.24	1.30	15.0	<0.2	<10	620	0.59	0.21	0.25	0.36	29.9	8.1	20
ZZ33648		0.35	0.005	0.37	1.51	18.9	<0.2	<10	350	0.62	0.22	0.26	0.43	30.9	8.1	24
ZZ33649		0.40	0.004	0.29	1.28	15.9	<0.2	<10	620	0.64	0.21	0.24	0.33	35.8	8.2	22
ZZ33650		0.46	0.003	0.11	1.18	11.5	<0.2	<10	280	0.45	0.18	0.25	0.12	29.1	5.3	19
ZZ33651		0.32	0.002	0.32	1.05	15.9	<0.2	<10	460	0.56	0.19	0.39	0.41	33.5	9.0	19
ZZ33652		0.35	0.003	0.38	1.16	21.0	<0.2	<10	380	0.50	0.20	0.47	0.38	31.2	7.5	22
ZZ33653		0.15	0.001	0.19	1.31	8.9	<0.2	<10	250	0.59	0.12	1.32	0.78	11.90	4.1	27
ZZ33654		0.39	0.003	0.38	0.98	18.3	<0.2	<10	320	0.38	0.21	0.54	0.55	27.0	5.5	20
ZZ33655		0.22	0.004	0.46	1.21	10.2	<0.2	<10	530	0.75	0.20	1.00	0.39	36.1	7.9	20
ZZ33656		0.32	0.006	0.43	1.02	11.2	<0.2	<10	390	0.55	0.16	1.10	0.69	25.3	7.4	17
ZZ33657		0.37	0.003	0.25	0.99	11.8	<0.2	<10	530	0.52	0.16	0.36	0.59	33.3	7.5	16
ZZ33658		0.57	0.004	0.40	1.08	24.6	<0.2	<10	440	0.56	0.20	0.38	0.85	33.2	7.0	17
ZZ33659		0.39	0.004	0.23	0.81	15.1	<0.2	<10	420	0.56	0.20	0.38	0.71	43.5	8.4	14
ZZ33660		0.46	0.003	0.25	1.40	18.0	<0.2	<10	490	0.50	0.22	0.37	0.46	32.2	8.3	19
ZZ33661		0.37	0.004	0.29	1.31	12.8	<0.2	<10	230	0.57	0.22	0.26	0.26	48.6	8.9	15
ZZ33662		0.55	0.005	0.30	1.03	19.0	<0.2	<10	530	0.80	0.18	0.34	0.56	63.8	9.6	14
ZZ33663		0.38	0.018	0.16	1.10	18.6	<0.2	<10	370	0.63	0.20	0.30	0.71	41.2	8.4	15
ZZ33664		0.46	0.004	0.56	1.45	12.4	<0.2	<10	770	0.57	0.22	0.50	0.42	25.5	5.3	19
ZZ33665		0.46	0.005	0.35	1.47	13.2	<0.2	<10	500	0.57	0.20	0.33	0.21	33.7	7.8	23
ZZ33666		0.42	0.004	0.23	1.58	13.3	<0.2	<10	410	0.51	0.22	0.35	0.18	35.6	10.4	26
ZZ33667		0.41	0.019	0.19	1.57	19.1	<0.2	<10	370	0.63	0.23	0.23	0.33	36.7	10.2	20
ZZ33668		0.38	0.005	0.25	1.70	22.8	<0.2	<10	490	0.83	0.24	0.24	0.34	45.4	9.2	19
ZZ33669		0.37	0.004	0.38	1.20	23.1	<0.2	<10	470	0.61	0.20	0.29	0.38	30.5	6.6	24
ZZ33670		0.32	0.004	0.22	1.38	23.7	<0.2	<10	460	0.57	0.28	0.30	0.36	35.5	8.0	23
ZZ33671		0.37	0.004	0.20	1.43	19.2	<0.2	<10	420	0.61	0.24	0.23	0.37	30.7	8.6	21
ZZ33672		0.28	0.009	0.44	1.19	8.6	<0.2	<10	540	0.41	0.13	0.23	0.14	15.80	5.8	15
ZZ33673		0.43	0.005	0.57	1.20	20.0	<0.2	<10	600	0.65	0.38	0.47	0.90	34.4	7.9	22
ZZ33674		0.28	0.006	0.89	1.65	72.8	<0.2	<10	620	0.83	0.34	0.97	4.27	25.9	6.8	22
ZZ33675		0.40	0.004	0.43	1.08	27.6	<0.2	<10	520	0.43	0.22	0.64	2.16	26.0	5.1	20
ZZ33676		0.18	0.002	0.34	0.60	8.6	<0.2	<10	250	0.22	0.11	0.38	0.34	10.30	2.8	8
ZZ33677		0.32	0.004	0.28	1.26	21.2	<0.2	<10	670	0.56	0.26	0.32	0.35	34.6	8.6	22
ZZ33678		0.33	0.005	0.11	1.37	20.9	<0.2	<10	390	0.50	0.27	0.24	0.34	23.7	8.6	20



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Sample Description	Method	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	
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units LOR	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ33639		0.89	17.6	2.04	3.68	<0.05	0.04	0.09	0.025	0.05	13.2	13.9	0.38	277	0.96	0.01
ZZ33640		1.29	23.0	2.08	3.23	0.05	0.04	0.11	0.026	0.05	16.0	12.9	0.33	339	1.38	0.01
ZZ33641		1.22	21.4	2.15	4.19	0.05	0.02	0.09	0.026	0.05	20.9	13.5	0.38	227	1.14	0.01
ZZ33642		1.25	19.9	2.93	4.40	<0.05	<0.02	0.05	0.037	0.09	12.7	16.2	0.31	437	2.59	0.01
ZZ33643		1.05	29.1	2.21	3.24	0.05	0.05	0.12	0.029	0.07	18.6	12.5	0.33	376	2.17	0.01
ZZ33644		1.28	19.6	2.05	3.53	<0.05	0.02	0.05	0.027	0.08	14.1	14.1	0.38	337	1.54	0.01
ZZ33645		1.32	31.7	2.12	3.38	0.05	0.04	0.12	0.038	0.08	20.2	14.3	0.37	254	1.98	0.01
ZZ33646		1.55	18.3	1.74	3.30	<0.05	<0.02	0.06	0.033	0.06	15.6	10.4	0.23	326	1.89	0.01
ZZ33647		1.12	28.3	2.71	3.44	<0.05	0.02	0.08	0.030	0.07	15.3	14.5	0.33	458	2.26	0.01
ZZ33648		1.40	19.6	2.41	4.37	<0.05	0.02	0.08	0.028	0.07	15.5	15.0	0.40	254	2.25	0.01
ZZ33649		1.21	24.3	2.42	3.64	0.05	0.04	0.08	0.029	0.06	18.3	14.3	0.36	297	1.78	0.01
ZZ33650		1.00	12.0	1.92	3.61	<0.05	0.03	0.06	0.024	0.04	14.7	11.0	0.30	133	1.24	<0.01
ZZ33651		1.15	30.2	2.12	3.31	<0.05	0.04	0.15	0.026	0.06	17.2	12.9	0.34	296	1.85	0.01
ZZ33652		1.24	15.2	1.99	3.71	<0.05	0.05	0.10	0.030	0.06	15.7	15.5	0.39	352	1.82	0.01
ZZ33653		2.07	8.8	1.45	3.25	<0.05	0.07	0.04	0.015	0.08	6.3	14.0	0.64	352	0.76	0.03
ZZ33654		1.15	17.0	1.98	3.43	<0.05	<0.02	0.07	0.026	0.06	13.3	12.3	0.31	289	1.84	0.01
ZZ33655		1.02	24.7	1.88	3.59	<0.05	0.06	0.12	0.029	0.05	18.2	13.7	0.32	218	0.89	0.01
ZZ33656		0.84	25.6	1.75	2.87	<0.05	0.05	0.12	0.024	0.06	12.7	11.7	0.27	404	1.14	0.01
ZZ33657		1.21	17.5	1.86	3.09	<0.05	0.03	0.09	0.026	0.06	16.7	13.5	0.31	280	1.56	0.01
ZZ33658		1.18	25.3	2.13	2.80	<0.05	0.02	0.15	0.032	0.07	16.5	11.7	0.31	345	1.69	0.01
ZZ33659		0.99	27.2	2.17	2.53	0.05	0.03	0.10	0.028	0.06	22.1	11.5	0.27	402	1.78	0.01
ZZ33660		2.06	19.3	2.13	4.42	<0.05	<0.02	0.08	0.026	0.06	16.2	14.3	0.31	515	1.81	0.01
ZZ33661		1.65	8.5	1.46	3.65	0.05	0.02	0.05	0.024	0.07	21.9	16.6	0.37	151	0.77	0.01
ZZ33662		1.27	30.5	2.24	2.86	0.07	0.02	0.12	0.027	0.07	30.5	11.8	0.26	513	2.03	0.01
ZZ33663		1.32	29.0	2.32	3.10	0.06	0.04	0.06	0.029	0.08	19.7	13.2	0.30	393	2.34	0.01
ZZ33664		1.52	28.3	1.97	4.74	<0.05	<0.02	0.12	0.025	0.06	13.2	10.3	0.24	230	1.32	0.02
ZZ33665		1.60	23.4	2.22	4.27	<0.05	0.02	0.07	0.027	0.06	17.0	14.5	0.39	241	1.29	0.01
ZZ33666		1.52	18.2	2.47	4.53	0.05	0.03	0.07	0.026	0.06	17.6	14.9	0.46	337	1.39	0.01
ZZ33667		1.66	26.7	2.70	3.94	0.05	0.03	0.05	0.032	0.08	17.0	15.8	0.36	327	1.92	0.01
ZZ33668		1.83	29.9	2.68	4.21	0.05	0.02	0.08	0.032	0.08	22.0	15.1	0.36	403	2.19	0.01
ZZ33669		1.48	28.4	2.09	3.38	0.05	0.02	0.08	0.030	0.07	15.9	13.3	0.43	312	2.25	0.01
ZZ33670		1.35	25.4	2.16	3.38	0.05	0.02	0.05	0.030	0.07	17.6	13.0	0.39	295	2.01	0.01
ZZ33671		1.30	27.2	2.18	3.42	<0.05	0.02	0.06	0.034	0.07	15.1	14.4	0.37	265	2.12	0.01
ZZ33672		1.06	17.3	1.47	3.19	<0.05	0.02	0.10	0.020	0.05	9.3	8.1	0.20	455	1.15	0.03
ZZ33673		1.26	43.1	2.36	3.64	0.05	0.03	0.20	0.037	0.10	18.8	14.4	0.36	367	3.36	0.01
ZZ33674		2.53	48.5	2.98	4.13	0.05	0.11	0.23	0.046	0.13	14.9	16.3	0.36	348	3.19	0.01
ZZ33675		0.92	19.1	1.93	3.05	<0.05	0.04	0.14	0.025	0.08	13.7	11.6	0.36	163	1.66	0.01
ZZ33676		0.64	13.2	1.09	2.80	<0.05	<0.02	0.03	0.011	0.04	5.1	3.4	0.09	96	0.60	0.03
ZZ33677		1.07	28.7	2.18	3.75	<0.05	0.04	0.09	0.029	0.08	16.9	15.0	0.39	412	1.93	0.01
ZZ33678		1.23	18.0	2.27	3.91	<0.05	<0.02	0.03	0.027	0.07	11.9	14.5	0.33	358	1.93	0.01



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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		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
ZZ33639		1.03	18.9	990	12.7	7.7	0.001	0.07	1.20	2.8	2.3	0.5	45.9	<0.01	0.02	1.7
ZZ33640		0.89	23.3	620	14.9	7.8	0.001	0.01	1.55	4.5	1.1	0.6	25.0	<0.01	0.04	3.2
ZZ33641		0.97	21.2	910	11.8	10.0	<0.001	0.02	0.85	2.9	1.0	0.5	24.5	<0.01	0.03	1.9
ZZ33642		0.86	20.7	800	23.2	12.7	<0.001	0.03	2.01	2.2	1.3	0.6	19.3	<0.01	0.05	1.3
ZZ33643		0.97	25.8	870	15.7	8.1	0.001	0.03	2.33	4.0	1.7	0.5	46.7	<0.01	0.04	3.3
ZZ33644		0.89	23.7	550	15.3	11.1	<0.001	0.02	1.45	3.1	1.0	0.5	21.3	<0.01	0.03	2.3
ZZ33645		0.78	27.5	910	40.8	9.9	<0.001	0.02	5.42	4.4	1.5	0.9	33.1	<0.01	0.07	3.3
ZZ33646		0.49	16.2	680	38.3	10.6	0.001	0.02	4.57	1.5	1.3	0.8	20.9	<0.01	0.08	0.7
ZZ33647		0.57	26.0	650	12.0	10.8	<0.001	0.01	1.27	3.2	1.2	0.4	19.3	<0.01	0.04	2.1
ZZ33648		1.22	23.3	900	15.0	11.0	<0.001	0.01	1.50	3.1	1.1	0.6	22.9	<0.01	0.04	3.1
ZZ33649		0.98	28.5	830	13.4	9.4	0.001	0.01	1.30	3.8	1.5	0.5	23.9	<0.01	0.04	4.0
ZZ33650		1.02	15.4	840	11.1	6.0	0.001	0.01	0.79	2.4	1.3	0.5	21.1	<0.01	0.03	2.6
ZZ33651		0.94	24.3	920	16.8	8.1	0.001	0.01	1.49	3.9	1.2	0.6	29.9	<0.01	0.02	3.9
ZZ33652		0.92	16.7	1040	33.6	10.6	<0.001	0.02	2.48	3.7	1.5	0.9	32.2	<0.01	0.03	3.7
ZZ33653		1.12	16.9	590	14.3	11.7	<0.001	0.06	1.31	2.0	0.9	0.4	55.9	<0.01	0.02	2.0
ZZ33654		0.67	18.4	1020	20.9	8.0	<0.001	0.02	2.53	2.3	1.1	0.8	28.3	<0.01	0.03	1.3
ZZ33655		1.01	19.1	1210	20.2	9.7	0.001	0.09	2.08	3.9	2.3	0.7	50.7	<0.01	0.03	2.4
ZZ33656		0.73	22.1	910	14.6	7.8	0.001	0.06	2.00	3.4	1.7	0.5	42.7	<0.01	0.03	2.1
ZZ33657		0.75	21.0	900	10.5	8.8	<0.001	0.02	1.54	3.4	1.1	0.5	28.6	<0.01	0.03	3.1
ZZ33658		0.59	25.4	1030	35.0	8.3	0.001	0.01	2.95	3.2	1.1	0.7	29.2	<0.01	0.03	2.4
ZZ33659		0.70	23.1	970	14.7	5.9	<0.001	0.01	1.80	4.1	1.3	0.4	32.1	<0.01	0.04	6.2
ZZ33660		0.63	16.5	870	18.5	12.6	0.001	0.02	1.18	1.7	0.9	0.6	24.9	<0.01	0.02	0.8
ZZ33661		1.05	20.5	1090	16.2	9.7	0.001	0.01	1.07	2.3	0.7	0.5	26.5	<0.01	0.03	3.5
ZZ33662		0.55	26.7	890	16.5	7.6	0.001	0.01	1.82	5.2	1.5	0.4	28.7	<0.01	0.04	6.3
ZZ33663		0.67	27.6	1050	16.4	7.9	0.001	0.01	2.12	3.7	1.5	0.4	31.1	<0.01	0.04	5.9
ZZ33664		0.27	16.6	780	13.3	9.8	<0.001	0.02	0.95	0.7	0.9	0.6	27.7	<0.01	0.02	<0.2
ZZ33665		0.91	24.2	660	11.3	9.2	0.001	0.01	0.89	3.2	1.0	0.5	20.1	<0.01	0.02	2.3
ZZ33666		1.17	24.3	950	12.0	10.0	<0.001	0.01	0.97	3.4	1.1	0.5	21.5	<0.01	0.04	3.1
ZZ33667		0.99	30.7	860	15.0	10.8	0.001	0.01	1.55	3.1	1.3	0.5	22.3	<0.01	0.04	3.6
ZZ33668		0.86	26.0	690	17.5	12.0	0.001	0.02	2.05	3.4	1.2	0.6	23.0	<0.01	0.04	3.9
ZZ33669		0.73	27.5	800	33.5	8.9	<0.001	0.01	4.52	3.3	1.6	1.2	26.9	<0.01	0.04	2.8
ZZ33670		0.73	28.1	1000	30.1	9.0	<0.001	0.01	3.29	3.0	1.4	0.6	24.0	<0.01	0.04	3.8
ZZ33671		0.68	29.2	810	22.9	10.5	0.001	0.01	2.30	2.7	0.9	0.5	22.5	<0.01	0.04	2.4
ZZ33672		0.45	13.9	560	9.0	8.3	<0.001	0.02	0.94	2.0	0.7	0.4	16.9	<0.01	0.02	0.6
ZZ33673		0.56	36.7	970	20.9	10.3	0.001	0.01	2.78	5.3	1.4	0.6	34.0	<0.01	0.04	3.5
ZZ33674		0.59	46.6	1160	25.6	20.0	0.003	0.06	3.46	4.7	2.0	0.7	47.2	<0.01	0.04	2.1
ZZ33675		0.57	19.8	1010	14.0	9.9	0.001	0.03	2.29	3.3	1.2	0.5	34.7	<0.01	0.02	1.8
ZZ33676		0.18	6.9	590	6.1	5.7	0.001	0.03	0.65	0.3	0.3	0.3	20.6	<0.01	0.02	<0.2
ZZ33677		0.75	25.0	790	20.6	9.2	<0.001	0.01	1.90	4.6	1.0	0.6	26.8	<0.01	0.03	2.9
ZZ33678		0.77	20.6	530	16.8	11.0	0.001	0.01	1.59	2.7	0.7	0.5	21.8	<0.01	0.03	2.1



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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Ti	U	V	W	Y	Zn	Zr
Units		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ33639		0.025	0.10	2.74	40	0.26	8.48	71	1.2
ZZ33640		0.024	0.14	1.14	38	0.19	12.25	112	1.2
ZZ33641		0.022	0.15	1.12	41	0.25	13.85	83	0.5
ZZ33642		0.014	0.20	0.75	51	0.20	5.38	105	<0.5
ZZ33643		0.024	0.14	1.36	39	0.15	11.25	110	1.7
ZZ33644		0.017	0.18	0.80	43	0.30	7.50	92	0.8
ZZ33645		0.020	0.15	1.31	46	0.17	13.80	163	1.6
ZZ33646		0.014	0.17	0.87	41	0.11	6.64	164	<0.5
ZZ33647		0.011	0.19	0.86	48	0.10	8.85	112	0.5
ZZ33648		0.028	0.19	0.93	52	0.24	6.54	110	0.6
ZZ33649		0.022	0.17	1.08	41	0.22	11.50	95	1.1
ZZ33650		0.021	0.15	0.98	39	0.34	6.32	61	0.8
ZZ33651		0.021	0.16	1.28	42	0.13	11.90	97	1.5
ZZ33652		0.016	0.16	1.22	43	0.14	8.86	94	1.8
ZZ33653		0.030	0.18	1.16	77	0.15	6.15	91	3.3
ZZ33654		0.017	0.16	0.98	41	0.17	7.15	97	<0.5
ZZ33655		0.014	0.15	1.60	36	0.32	14.05	74	1.9
ZZ33656		0.015	0.13	1.58	34	0.14	10.00	87	1.8
ZZ33657		0.019	0.17	1.13	33	0.13	9.70	103	1.1
ZZ33658		0.015	0.18	1.06	38	0.16	10.20	136	<0.5
ZZ33659		0.021	0.16	1.12	31	0.11	13.40	112	1.6
ZZ33660		0.016	0.18	0.95	47	0.17	7.46	97	<0.5
ZZ33661		0.025	0.15	1.03	36	0.19	8.72	98	0.7
ZZ33662		0.012	0.17	1.25	33	0.12	16.75	103	0.7
ZZ33663		0.017	0.18	1.42	39	0.65	10.70	159	1.8
ZZ33664		0.011	0.15	0.87	44	0.17	8.16	85	<0.5
ZZ33665		0.025	0.17	0.88	46	0.28	9.59	72	<0.5
ZZ33666		0.037	0.16	1.52	46	0.40	7.52	80	0.8
ZZ33667		0.018	0.18	0.98	46	0.20	7.54	103	0.9
ZZ33668		0.015	0.22	0.93	49	0.15	8.99	102	0.7
ZZ33669		0.017	0.16	0.93	55	0.13	8.46	122	0.7
ZZ33670		0.017	0.18	1.04	49	0.16	8.34	117	0.8
ZZ33671		0.014	0.18	0.84	51	0.14	6.78	120	0.7
ZZ33672		0.015	0.14	0.96	34	0.13	6.47	68	<0.5
ZZ33673		0.016	0.23	1.18	53	0.13	13.85	200	1.2
ZZ33674		0.009	0.28	2.19	53	0.22	15.60	860	3.1
ZZ33675		0.018	0.14	1.34	42	1.31	9.95	283	1.4
ZZ33676		0.020	0.06	0.46	33	0.12	2.11	39	<0.5
ZZ33677		0.020	0.15	1.10	47	0.16	10.55	105	1.1
ZZ33678		0.014	0.16	0.55	49	0.18	3.76	98	0.5



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Sample Description	Method	WEI-21	Au-ICP21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	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
ZZ33679		0.23	0.004	0.49	0.94	13.7	<0.2	<10	390	0.42	0.16	0.97	0.71	23.5	6.8	19
ZZ33680		0.25	0.005	0.40	0.79	19.5	<0.2	<10	460	0.41	0.21	0.91	1.10	25.9	6.5	14
ZZ33681		0.36	0.002	0.09	1.15	11.9	<0.2	<10	400	0.38	0.19	0.32	0.57	22.4	7.3	20
ZZ33682		0.26	0.003	0.07	1.26	13.0	<0.2	<10	480	0.63	0.16	0.38	0.55	30.3	7.8	17
ZZ33683		0.27	0.002	0.14	1.18	15.3	<0.2	<10	360	0.48	0.19	0.19	0.81	25.4	7.5	19
ZZ33684		0.30	0.004	0.69	1.30	10.7	<0.2	<10	620	0.47	0.21	0.57	0.78	23.8	7.3	20
ZZ33685		0.27	0.004	0.38	1.30	15.0	<0.2	<10	640	0.49	0.27	0.55	1.18	28.2	6.9	22
ZZ33686		0.33	0.005	0.51	1.39	21.7	<0.2	<10	560	0.57	0.29	0.30	0.62	29.7	8.5	22
ZZ33687		0.40	0.006	0.33	1.47	13.9	<0.2	<10	430	0.53	0.22	0.26	0.39	27.5	7.8	23
ZZ33688		0.42	0.004	0.59	1.26	8.0	<0.2	<10	580	0.44	0.18	0.64	0.43	24.6	6.2	20
ZZ33689		0.30	0.011	0.40	1.22	11.0	<0.2	<10	510	0.42	0.16	0.69	0.39	19.20	4.7	16
ZZ33690		0.19	0.003	0.30	0.68	6.1	<0.2	<10	510	0.35	0.08	1.17	1.20	12.60	4.2	8
ZZ33691		0.28	0.003	0.55	1.42	23.0	<0.2	<10	560	0.59	0.20	0.92	1.50	29.3	6.7	20
ZZ33692		0.35	0.004	0.74	1.45	21.7	<0.2	<10	680	0.60	0.21	0.77	0.84	24.9	6.6	20
ZZ33693		0.28	0.002	0.47	1.16	9.1	<0.2	<10	570	0.43	0.15	0.29	0.43	20.8	8.0	17
ZZ33694		0.35	0.004	0.13	1.43	14.5	<0.2	<10	420	0.64	0.18	0.22	0.26	30.5	7.4	20
ZZ33695		0.34	0.004	0.17	1.42	54.2	<0.2	<10	390	0.65	0.33	0.19	0.47	33.8	9.4	21
ZZ33696		0.24	0.003	0.15	1.46	27.7	<0.2	<10	280	0.55	0.25	0.15	0.61	31.8	9.3	22
ZZ33697		0.36	0.005	0.82	1.79	18.6	<0.2	<10	410	0.75	0.18	0.16	0.71	37.8	7.9	22
ZZ33698		0.36	0.003	0.39	1.79	14.1	<0.2	<10	340	0.73	0.19	0.26	0.54	33.0	9.3	24
ZZ33699		0.51	0.003	0.34	1.66	8.2	<0.2	<10	670	0.66	0.28	0.56	3.09	34.3	7.9	28
ZZ33700		0.39	0.005	0.17	1.37	21.4	<0.2	<10	370	0.74	0.23	0.24	0.82	42.9	10.1	18
ZZ98138		0.15	0.003	0.51	0.82	57.0	<0.2	<10	360	0.34	0.38	1.06	1.21	17.40	5.1	17
ZZ98139		0.35	0.005	0.86	1.09	76.1	<0.2	<10	470	0.64	0.55	0.86	1.62	29.9	9.1	22
ZZ98140		0.32	0.004	0.77	0.96	84.5	<0.2	<10	380	0.52	0.67	0.69	0.85	27.6	6.4	21
ZZ98141		0.19	0.004	0.69	1.27	79.3	<0.2	<10	640	0.61	0.37	0.99	9.05	22.6	7.0	14
ZZ98142		0.21	0.003	0.55	0.85	44.2	<0.2	<10	330	0.43	0.28	0.74	1.12	16.95	4.8	13
ZZ98143		0.27	0.003	0.58	0.75	62.4	<0.2	<10	340	0.38	0.61	0.66	1.09	19.35	5.0	14
ZZ98144		0.41	0.003	0.73	1.38	93.1	<0.2	<10	500	0.65	0.75	0.40	1.06	27.4	8.1	23
ZZ98145		0.29	0.002	0.51	1.33	111.5	<0.2	<10	300	0.55	0.89	0.14	0.76	25.3	7.5	23
ZZ98146		0.34	0.003	0.56	1.09	82.8	<0.2	<10	550	0.55	0.73	0.56	0.68	28.6	9.3	20
ZZ98147		0.34	0.006	0.49	0.75	73.8	<0.2	<10	420	0.46	0.59	0.47	1.23	30.5	5.1	16
ZZ98148		0.33	0.004	0.76	1.12	57.6	<0.2	<10	470	0.58	0.45	0.73	1.19	26.1	7.5	20
ZZ98149		0.28	0.004	0.75	0.98	66.2	<0.2	<10	450	0.50	0.52	0.66	1.38	19.90	6.5	16
ZZ98150		0.37	0.003	0.51	1.03	79.7	<0.2	<10	420	0.50	0.48	0.65	0.56	28.7	7.3	22
ZZ98178		0.31	0.004	0.46	0.89	51.5	<0.2	<10	310	0.50	0.38	0.81	1.15	25.1	6.4	19
ZZ98179		0.13	0.003	0.51	1.05	56.2	<0.2	<10	420	0.49	0.54	1.21	1.62	19.85	5.9	17
ZZ98180		0.26	0.005	0.53	0.97	23.5	<0.2	<10	340	0.56	0.28	0.73	0.91	28.3	9.1	20
ZZ98181		0.34	0.003	1.56	1.35	20.5	<0.2	<10	260	0.42	0.29	0.17	0.46	24.4	6.7	24
ZZ98182		0.41	0.005	0.31	1.25	28.0	<0.2	<10	320	0.68	0.23	0.05	0.38	30.5	8.3	18



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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		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	0.01
ZZ33679		0.86	26.2	2.00	2.55	<0.05	0.02	0.10	0.020	0.05	12.2	9.6	0.31	434	1.53	0.02
ZZ33680		1.18	30.4	1.83	2.41	<0.05	0.05	0.13	0.023	0.08	13.6	9.4	0.34	298	1.83	0.02
ZZ33681		0.80	16.7	2.00	3.75	<0.05	<0.02	0.02	0.023	0.07	11.4	13.1	0.36	283	1.34	0.01
ZZ33682		0.95	26.1	2.24	3.32	<0.05	0.03	0.06	0.026	0.06	14.2	12.3	0.27	190	1.83	0.01
ZZ33683		1.35	17.9	2.62	3.90	<0.05	<0.02	0.04	0.029	0.07	12.2	15.5	0.27	423	1.89	0.01
ZZ33684		1.05	27.8	1.90	3.70	<0.05	0.04	0.16	0.027	0.08	12.4	11.8	0.31	510	1.30	0.02
ZZ33685		0.84	33.7	2.07	3.42	<0.05	0.06	0.20	0.029	0.06	14.5	12.0	0.32	347	1.16	0.01
ZZ33686		1.11	30.7	2.34	3.99	<0.05	<0.02	0.09	0.030	0.09	15.2	12.8	0.32	537	1.91	0.01
ZZ33687		1.26	23.6	2.46	4.34	<0.05	<0.02	0.08	0.030	0.07	13.5	14.3	0.36	287	1.93	0.01
ZZ33688		0.95	24.3	1.77	3.59	<0.05	0.04	0.12	0.026	0.07	12.7	12.5	0.35	371	1.18	0.02
ZZ33689		0.88	24.0	1.69	3.44	<0.05	0.05	0.10	0.021	0.07	10.3	8.5	0.25	249	1.18	0.02
ZZ33690		0.50	30.0	1.16	1.84	<0.05	0.04	0.07	0.013	0.04	6.4	3.6	0.14	447	0.91	0.03
ZZ33691		1.42	30.2	2.09	3.54	0.05	0.05	0.10	0.037	0.10	15.6	11.2	0.33	362	1.74	0.02
ZZ33692		1.21	32.7	2.03	3.78	<0.05	0.04	0.14	0.033	0.10	13.7	11.8	0.33	298	1.77	0.02
ZZ33693		0.94	19.1	1.82	3.55	<0.05	<0.02	0.06	0.019	0.05	10.5	8.6	0.23	757	1.26	0.02
ZZ33694		1.68	19.4	2.27	3.61	<0.05	0.02	0.15	0.031	0.08	14.4	16.2	0.31	275	2.22	0.01
ZZ33695		1.56	20.9	2.82	3.59	0.05	0.02	0.04	0.045	0.09	17.5	15.1	0.35	365	2.87	0.01
ZZ33696		1.73	26.8	3.14	4.32	<0.05	0.02	0.05	0.043	0.08	16.0	19.6	0.35	405	2.87	0.01
ZZ33697		1.84	31.3	2.58	4.02	0.05	0.03	0.14	0.030	0.07	18.0	15.3	0.38	260	2.41	0.01
ZZ33698		1.21	15.1	2.53	4.04	<0.05	0.02	0.08	0.027	0.06	15.3	14.7	0.42	389	1.29	0.01
ZZ33699		2.09	8.2	1.63	4.93	0.05	0.05	0.08	0.028	0.06	17.3	38.2	0.51	139	1.57	0.01
ZZ33700		1.55	28.2	2.47	3.85	0.05	0.03	0.07	0.030	0.06	20.2	13.9	0.31	432	2.13	0.01
ZZ98138		0.76	20.5	1.53	2.57	<0.05	0.05	0.08	0.025	0.06	9.0	8.9	0.29	288	1.26	0.02
ZZ98139		1.09	32.8	2.25	3.45	<0.05	0.06	0.13	0.037	0.07	15.0	16.2	0.40	471	1.83	0.01
ZZ98140		1.10	22.2	1.79	3.27	<0.05	0.06	0.12	0.034	0.06	13.9	15.0	0.39	168	1.37	0.01
ZZ98141		1.98	28.1	1.54	3.17	<0.05	0.06	0.14	0.026	0.07	12.8	12.1	0.23	1420	2.99	0.02
ZZ98142		1.05	24.3	1.54	2.95	<0.05	0.04	0.12	0.023	0.05	9.1	7.9	0.20	235	1.36	0.02
ZZ98143		0.76	18.2	1.49	2.69	<0.05	0.03	0.08	0.022	0.05	10.2	7.5	0.24	302	1.24	0.02
ZZ98144		1.53	25.9	2.18	4.68	<0.05	0.02	0.08	0.038	0.08	14.4	16.2	0.37	279	1.69	0.01
ZZ98145		1.46	16.4	2.17	4.62	<0.05	0.02	0.06	0.036	0.08	12.9	16.5	0.34	341	1.75	0.01
ZZ98146		1.08	27.4	2.02	3.54	<0.05	0.05	0.09	0.043	0.06	13.9	12.8	0.31	513	1.79	0.01
ZZ98147		0.97	23.0	1.78	2.56	0.05	0.05	0.08	0.026	0.07	15.6	9.8	0.31	215	2.28	0.01
ZZ98148		1.08	33.2	1.88	3.57	<0.05	0.05	0.17	0.030	0.07	13.5	13.4	0.34	313	1.46	0.01
ZZ98149		0.90	26.9	1.63	2.90	<0.05	0.06	0.13	0.029	0.07	10.6	9.6	0.27	299	1.86	0.02
ZZ98150		0.92	21.6	1.86	3.38	<0.05	0.05	0.11	0.028	0.06	14.5	13.7	0.42	259	1.68	0.01
ZZ98178		0.94	17.6	1.83	2.86	<0.05	0.05	0.09	0.027	0.07	12.4	12.7	0.41	241	1.35	0.01
ZZ98179		0.85	25.8	1.71	3.17	<0.05	0.06	0.12	0.028	0.07	10.6	12.8	0.29	387	1.27	0.01
ZZ98180		0.91	26.6	1.96	3.20	<0.05	0.04	0.13	0.030	0.06	14.1	13.6	0.31	398	1.94	0.01
ZZ98181		1.16	15.1	2.48	5.57	<0.05	<0.02	0.04	0.036	0.07	12.6	18.0	0.33	171	1.76	0.01
ZZ98182		1.43	40.0	2.47	3.40	<0.05	0.02	0.08	0.035	0.05	16.0	11.8	0.16	181	3.52	<0.01





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Sample Description	Method	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
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
Units		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR		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
ZZ33679		0.44	19.7	800	13.9	7.2	<0.001	0.04	1.93	3.2	1.4	0.3	39.5	<0.01	0.03	1.0
ZZ33680		0.51	23.4	1010	18.6	7.4	0.001	0.04	2.89	3.2	1.3	0.4	47.0	<0.01	0.03	2.0
ZZ33681		0.91	17.1	710	10.6	9.9	<0.001	0.01	0.92	2.1	0.4	0.5	22.1	<0.01	0.02	1.5
ZZ33682		0.53	18.0	320	12.0	9.3	0.001	0.02	1.01	4.2	1.0	0.4	23.4	<0.01	0.03	3.0
ZZ33683		0.68	17.3	850	15.1	11.4	<0.001	0.02	1.07	2.3	0.9	0.5	17.1	<0.01	0.03	0.9
ZZ33684		0.66	20.0	940	13.0	12.8	0.004	0.06	1.49	3.6	2.3	0.4	40.1	<0.01	0.03	1.2
ZZ33685		0.68	21.2	1090	21.6	10.0	0.001	0.06	1.79	3.5	1.8	0.5	32.7	<0.01	0.02	1.3
ZZ33686		0.56	23.1	850	21.0	11.9	<0.001	0.02	1.93	2.4	1.1	0.7	24.6	<0.01	0.04	0.9
ZZ33687		0.89	24.1	670	13.0	11.0	<0.001	0.02	1.14	2.7	1.0	0.5	21.4	<0.01	0.03	1.8
ZZ33688		0.63	17.0	860	12.3	10.0	0.001	0.04	1.03	2.7	1.2	0.4	34.4	<0.01	0.03	1.4
ZZ33689		0.60	15.4	950	14.7	11.8	0.001	0.06	1.41	2.1	1.2	0.4	40.0	<0.01	0.02	0.8
ZZ33690		0.37	18.4	850	8.6	4.8	0.001	0.08	2.16	1.3	0.9	0.2	47.7	<0.01	0.02	0.5
ZZ33691		0.61	24.3	1170	38.8	16.1	<0.001	0.06	3.63	2.9	1.4	0.6	41.7	<0.01	0.04	1.2
ZZ33692		0.72	27.8	870	29.4	10.4	0.001	0.04	3.00	3.2	1.3	0.6	40.5	<0.01	0.03	1.4
ZZ33693		0.34	14.6	1040	10.4	11.3	<0.001	0.04	0.75	0.5	0.7	0.4	21.3	<0.01	0.02	<0.2
ZZ33694		0.57	23.8	830	17.1	12.6	0.001	0.02	1.51	2.5	1.1	0.5	23.0	<0.01	0.04	1.9
ZZ33695		0.65	28.8	880	43.7	12.8	<0.001	0.02	4.43	2.6	1.3	0.8	26.3	<0.01	0.05	2.6
ZZ33696		0.85	25.5	870	33.4	14.2	<0.001	0.02	2.45	2.7	1.2	0.6	22.3	<0.01	0.05	2.5
ZZ33697		0.94	30.3	910	16.4	12.3	0.001	0.02	1.61	2.9	1.4	0.5	19.0	<0.01	0.04	2.5
ZZ33698		1.03	24.8	1110	13.8	8.7	0.001	0.04	1.10	1.9	1.1	0.5	21.5	<0.01	0.03	0.9
ZZ33699		1.23	23.0	840	18.1	13.3	0.005	0.15	2.30	3.7	2.3	0.6	29.3	<0.01	0.01	2.0
ZZ33700		0.89	29.1	1040	20.2	9.8	0.001	0.01	1.91	3.1	1.3	0.5	28.1	<0.01	0.03	3.0
ZZ98138		0.58	15.8	850	34.2	7.1	0.001	0.05	4.18	2.3	1.0	1.2	47.6	<0.01	0.03	1.0
ZZ98139		0.85	29.7	840	49.7	10.0	0.001	0.03	4.28	4.8	2.0	1.9	40.4	<0.01	0.04	2.4
ZZ98140		0.83	20.5	860	59.6	8.8	0.002	0.03	4.84	4.1	1.6	2.4	36.0	<0.01	0.03	2.4
ZZ98141		0.54	26.6	1360	29.9	15.2	0.003	0.08	4.94	1.8	2.8	1.2	44.7	<0.01	0.02	0.6
ZZ98142		0.59	16.8	790	22.7	7.7	0.002	0.05	2.99	2.1	1.6	1.0	35.4	<0.01	0.02	0.7
ZZ98143		0.66	15.5	750	39.8	6.1	<0.001	0.03	4.33	2.4	1.0	1.4	35.7	<0.01	0.02	1.2
ZZ98144		0.87	22.8	630	52.0	14.5	<0.001	0.01	3.71	3.4	0.8	2.1	25.1	<0.01	0.04	1.6
ZZ98145		1.02	17.2	660	68.6	14.7	<0.001	0.01	4.31	3.1	1.0	2.9	16.0	<0.01	0.04	2.0
ZZ98146		0.76	22.6	1000	56.5	9.1	0.001	0.02	5.87	3.7	1.3	1.6	36.8	<0.01	0.04	2.0
ZZ98147		0.77	20.4	1030	44.0	6.4	0.001	0.02	7.76	3.2	1.1	1.0	36.2	<0.01	0.04	3.3
ZZ98148		0.90	29.2	830	36.5	9.3	0.001	0.04	4.49	3.8	1.4	1.1	44.6	<0.01	0.03	1.7
ZZ98149		0.64	21.7	870	29.4	7.8	0.001	0.03	4.70	3.0	1.4	0.9	40.3	<0.01	0.03	1.6
ZZ98150		0.92	22.0	870	31.4	7.1	0.001	0.02	4.40	4.0	1.0	1.8	36.1	<0.01	0.03	2.9
ZZ98178		0.77	19.6	830	23.8	7.5	0.001	0.03	4.10	3.3	1.0	0.8	39.5	<0.01	0.04	2.2
ZZ98179		0.75	20.6	840	18.8	10.3	0.002	0.06	3.30	2.8	1.3	0.6	41.9	<0.01	0.03	1.2
ZZ98180		0.74	26.1	760	16.0	9.3	0.001	0.02	1.91	3.6	1.1	0.6	33.4	<0.01	0.03	1.7
ZZ98181		1.62	18.7	340	16.3	10.9	<0.001	0.03	1.86	2.6	1.3	0.7	22.2	<0.01	0.06	2.6
ZZ98182		0.49	27.9	360	15.9	11.5	0.001	0.01	1.93	3.0	1.7	0.5	13.0	<0.01	0.06	4.1





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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
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ33679		0.016	0.16	0.83	38	0.09	11.00	96	0.6
ZZ33680		0.016	0.17	0.90	36	0.18	10.35	136	1.6
ZZ33681		0.024	0.11	0.55	41	0.47	4.16	112	<0.5
ZZ33682		0.005	0.16	0.70	46	0.10	7.23	89	1.2
ZZ33683		0.016	0.14	0.70	49	0.22	5.86	111	<0.5
ZZ33684		0.014	0.15	1.26	44	2.02	9.36	118	1.3
ZZ33685		0.014	0.12	1.34	43	0.15	11.95	107	1.7
ZZ33686		0.014	0.15	0.98	50	0.17	9.03	114	<0.5
ZZ33687		0.022	0.17	0.83	54	0.17	6.39	106	<0.5
ZZ33688		0.015	0.14	1.01	43	0.24	7.71	106	1.3
ZZ33689		0.019	0.14	1.09	40	0.14	6.95	115	1.5
ZZ33690		0.019	0.07	0.70	27	0.12	5.77	77	1.8
ZZ33691		0.018	0.17	1.75	45	0.34	13.60	200	1.5
ZZ33692		0.019	0.18	1.30	45	0.16	11.65	138	1.6
ZZ33693		0.014	0.11	0.98	40	0.13	5.89	75	<0.5
ZZ33694		0.011	0.23	0.89	51	0.12	7.29	143	0.6
ZZ33695		0.011	0.19	0.81	56	0.13	6.22	205	0.5
ZZ33696		0.013	0.21	0.80	58	0.16	5.63	148	0.6
ZZ33697		0.017	0.26	1.00	50	0.15	9.56	135	0.8
ZZ33698		0.026	0.17	0.94	41	0.35	8.95	91	0.5
ZZ33699		0.042	0.19	1.25	36	0.15	12.65	750	1.2
ZZ33700		0.019	0.24	1.11	44	0.16	9.65	202	0.9
ZZ98138		0.017	0.11	1.07	34	0.10	6.36	120	1.5
ZZ98139		0.018	0.15	1.71	41	0.21	12.60	160	1.7
ZZ98140		0.019	0.16	1.28	38	0.18	10.15	127	1.7
ZZ98141		0.011	0.20	2.88	31	0.08	12.15	280	1.6
ZZ98142		0.022	0.13	1.31	35	0.11	7.58	95	1.2
ZZ98143		0.024	0.11	0.79	33	0.11	7.28	88	1.1
ZZ98144		0.015	0.18	0.90	49	0.24	7.69	113	<0.5
ZZ98145		0.018	0.18	0.66	52	0.21	5.29	116	0.5
ZZ98146		0.017	0.13	1.24	42	0.14	9.53	122	1.2
ZZ98147		0.024	0.13	1.12	40	0.14	9.46	153	1.8
ZZ98148		0.022	0.15	1.74	42	0.17	11.45	126	1.5
ZZ98149		0.015	0.13	1.12	37	0.12	8.83	136	1.9
ZZ98150		0.025	0.13	0.85	41	0.36	9.94	104	1.6
ZZ98178		0.021	0.14	1.07	42	0.27	8.80	196	1.6
ZZ98179		0.016	0.13	1.28	35	0.13	8.71	134	1.6
ZZ98180		0.017	0.14	1.18	41	0.22	10.85	129	1.1
ZZ98181		0.033	0.21	0.56	52	0.28	2.90	68	0.6
ZZ98182		0.005	0.26	0.83	59	0.07	4.32	118	1.2

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



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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
ZZ98183		0.31	0.002	0.46	1.65	23.8	<0.2	<10	230	0.61	0.28	0.15	0.37	24.0	8.9	26
ZZ98184		0.34	0.006	0.34	1.30	49.2	<0.2	<10	280	0.64	0.39	0.18	0.39	35.8	8.3	23
ZZ98185		0.27	0.003	1.46	1.79	28.3	<0.2	<10	190	0.53	0.30	0.11	0.36	18.95	7.1	27
ZZ98186		0.35	0.005	0.44	1.09	37.6	<0.2	<10	260	0.49	0.32	0.14	0.44	27.9	6.5	20
ZZ98187		0.30	0.005	0.40	0.94	35.6	<0.2	<10	310	0.41	0.37	0.32	0.30	29.3	6.4	21
ZZ98188		0.26	0.004	0.36	0.81	6.1	<0.2	<10	290	0.32	0.20	0.72	1.35	20.9	3.0	14
ZZ98189		0.14	0.005	0.43	0.86	29.8	<0.2	<10	410	0.46	0.22	0.88	1.08	22.6	7.1	14
ZZ98190		0.36	0.005	0.61	1.26	29.0	<0.2	<10	620	0.68	0.44	0.42	1.13	36.7	10.0	23
ZZ98191		0.41	0.004	0.44	1.17	22.9	<0.2	<10	520	0.59	0.37	0.35	0.80	34.5	8.5	22
ZZ98192		0.38	0.003	0.27	0.88	16.4	<0.2	<10	270	0.31	0.32	0.22	0.28	23.9	5.0	17
ZZ98193		0.42	0.004	0.29	1.02	14.4	<0.2	<10	360	0.40	0.29	0.28	0.39	31.6	6.0	20
ZZ98194		0.14	0.003	0.27	1.11	14.2	<0.2	<10	400	0.38	0.23	0.37	0.25	24.4	4.9	20
ZZ98195		0.39	0.005	0.59	1.05	28.6	<0.2	<10	640	0.60	0.32	0.52	0.76	31.4	6.6	19
ZZ98196		0.17	0.005	0.89	1.14	14.8	<0.2	<10	320	0.50	0.22	0.30	0.48	23.8	5.1	16
ZZ98197		0.26	0.004	0.74	0.98	15.1	<0.2	<10	530	0.59	0.26	0.46	1.06	25.7	6.1	15
ZZ98198		0.34	0.003	0.21	1.39	5.7	<0.2	<10	580	0.60	0.23	0.53	0.52	35.3	5.8	22
ZZ98199		0.24	0.003	0.30	1.00	14.2	<0.2	<10	570	0.58	0.23	0.61	0.70	30.2	8.2	20
ZZ98200		0.32	0.003	0.39	0.82	11.5	<0.2	<10	390	0.46	0.16	0.61	0.81	22.4	5.7	15
ZZ33730		0.39	0.006	0.12	1.34	23.9	<0.2	<10	470	0.73	0.28	0.20	0.64	32.5	9.5	22



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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 ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		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	0.01
ZZ98183		1.42	15.9	2.48	4.98	<0.05	0.05	0.04	0.035	0.07	12.5	15.4	0.39	190	1.51	0.01
ZZ98184		1.46	24.2	2.16	3.70	<0.05	0.02	0.06	0.030	0.06	18.0	13.1	0.35	271	1.57	0.01
ZZ98185		1.60	18.9	2.57	4.84	<0.05	0.02	0.04	0.031	0.07	10.0	16.9	0.35	161	1.59	0.01
ZZ98186		1.74	35.0	2.19	3.39	<0.05	<0.02	0.04	0.028	0.07	14.4	13.8	0.29	173	2.00	0.01
ZZ98187		1.38	22.8	1.91	3.12	<0.05	0.04	0.07	0.026	0.10	14.6	12.2	0.34	250	1.93	0.01
ZZ98188		0.88	23.8	0.73	2.76	<0.05	0.04	0.09	0.019	0.05	10.9	8.8	0.22	58	0.24	0.01
ZZ98189		1.00	24.1	1.97	2.54	<0.05	0.04	0.10	0.026	0.07	11.9	10.1	0.26	415	2.17	0.01
ZZ98190		1.41	38.6	2.15	4.17	0.05	0.06	0.14	0.032	0.07	18.5	18.6	0.38	444	1.98	0.01
ZZ98191		1.42	28.9	1.84	3.94	<0.05	0.03	0.12	0.030	0.06	17.5	15.5	0.36	304	1.71	0.01
ZZ98192		1.12	14.0	1.50	3.14	<0.05	<0.02	0.07	0.020	0.05	12.0	10.7	0.27	137	1.36	0.01
ZZ98193		1.13	18.5	1.56	3.45	<0.05	0.03	0.09	0.024	0.05	16.1	13.8	0.33	164	1.14	0.01
ZZ98194		1.21	16.0	1.72	3.67	<0.05	0.04	0.11	0.025	0.05	12.4	12.7	0.28	162	1.05	0.01
ZZ98195		1.04	36.0	2.05	3.16	<0.05	0.03	0.17	0.029	0.08	17.2	12.3	0.32	323	1.81	0.01
ZZ98196		1.46	31.6	1.71	3.83	<0.05	<0.02	0.12	0.028	0.07	12.9	10.0	0.22	385	1.28	0.02
ZZ98197		1.15	39.1	1.51	2.94	<0.05	0.03	0.12	0.028	0.08	13.4	9.1	0.22	313	1.28	0.02
ZZ98198		1.73	13.5	1.25	5.13	<0.05	0.02	0.08	0.027	0.05	18.5	29.8	0.39	94	1.12	0.01
ZZ98199		0.87	20.7	1.94	3.13	<0.05	0.03	0.08	0.023	0.06	14.2	11.7	0.33	446	1.51	0.01
ZZ98200		0.82	21.2	1.67	2.63	<0.05	0.03	0.10	0.021	0.07	11.6	10.8	0.26	271	1.30	0.01
ZZ33730		1.23	23.5	2.27	3.23	<0.05	0.03	0.06	0.028	0.07	14.2	13.3	0.36	382	2.11	<0.01



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**CERTIFICATE OF ANALYSIS WH14132985**

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 ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th 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
ZZ98183		1.62	24.8	340	21.9	14.5	<0.001	0.01	1.07	3.3	0.8	0.7	15.5	<0.01	0.03	4.3
ZZ98184		0.96	25.5	710	29.0	9.9	<0.001	0.01	2.85	3.9	1.2	1.0	17.5	<0.01	0.03	5.4
ZZ98185		1.58	18.9	320	17.7	11.6	<0.001	0.02	1.54	2.8	0.8	0.8	14.5	<0.01	0.04	2.5
ZZ98186		0.88	22.1	580	21.7	10.2	0.001	0.02	2.89	2.5	1.0	0.6	18.8	<0.01	0.05	2.3
ZZ98187		0.83	20.1	850	24.9	8.6	0.001	0.01	3.40	3.2	1.5	0.8	25.1	<0.01	0.04	3.0
ZZ98188		0.61	12.8	750	15.8	8.8	0.003	0.06	1.89	2.0	1.3	0.5	34.5	<0.01	0.02	1.0
ZZ98189		0.55	18.3	1050	18.5	9.1	0.004	0.05	3.32	2.4	2.0	0.4	45.6	<0.01	0.03	1.3
ZZ98190		1.00	33.9	920	25.8	11.5	0.002	0.02	2.53	5.8	2.2	0.8	33.5	<0.01	0.04	3.8
ZZ98191		0.91	24.6	870	21.0	10.2	0.001	0.01	2.14	4.4	1.5	0.7	30.1	<0.01	0.04	3.0
ZZ98192		0.72	12.2	780	20.5	7.5	0.001	0.01	1.72	2.3	1.0	0.6	19.8	<0.01	0.02	1.5
ZZ98193		0.99	15.4	800	17.4	8.1	0.001	0.01	1.78	3.4	1.2	0.6	23.5	<0.01	0.03	3.4
ZZ98194		0.98	12.9	790	13.4	8.4	0.002	0.04	1.03	3.2	1.2	0.5	27.1	<0.01	0.03	2.1
ZZ98195		0.69	29.6	850	23.5	7.8	<0.001	0.01	3.03	4.9	1.4	0.7	33.9	<0.01	0.03	2.6
ZZ98196		0.66	18.3	620	13.6	8.9	<0.001	0.03	1.41	1.6	0.9	0.6	24.7	<0.01	0.02	0.3
ZZ98197		0.59	21.4	690	19.1	7.9	0.001	0.03	2.42	3.3	1.3	0.6	31.1	<0.01	0.04	1.4
ZZ98198		1.41	15.3	600	17.1	8.7	0.003	0.08	0.68	3.9	1.1	0.7	28.7	<0.01	0.02	2.5
ZZ98199		0.80	22.1	770	13.7	7.5	<0.001	0.01	1.59	3.7	1.3	0.5	35.0	<0.01	0.03	2.9
ZZ98200		0.49	19.0	690	12.0	8.0	0.001	0.01	1.32	3.4	1.0	0.4	31.0	<0.01	0.03	1.9
ZZ33730		0.71	29.7	640	17.7	9.6	<0.001	0.01	2.09	3.5	1.5	0.5	20.0	<0.01	0.05	3.4



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**CERTIFICATE OF ANALYSIS WH14132985**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ98183		0.037	0.15	0.59	53	0.26	3.32	82	1.9
ZZ98184		0.032	0.19	1.11	44	0.25	7.62	91	1.0
ZZ98185		0.029	0.15	0.52	56	0.27	2.52	78	0.8
ZZ98186		0.021	0.15	0.66	43	0.21	5.26	114	0.5
ZZ98187		0.024	0.17	0.98	41	0.30	7.75	110	1.2
ZZ98188		0.023	0.15	1.24	29	0.18	7.47	107	1.4
ZZ98189		0.015	0.14	1.11	36	0.09	9.21	138	1.3
ZZ98190		0.019	0.21	1.85	48	0.24	14.35	126	1.7
ZZ98191		0.021	0.19	1.48	45	0.15	11.15	113	0.8
ZZ98192		0.023	0.14	0.76	37	0.12	5.57	71	<0.5
ZZ98193		0.025	0.15	0.98	38	0.14	8.15	82	0.8
ZZ98194		0.020	0.16	1.17	40	0.17	6.83	73	1.1
ZZ98195		0.020	0.16	1.19	45	0.15	15.40	129	0.9
ZZ98196		0.016	0.13	1.08	36	0.14	7.16	67	<0.5
ZZ98197		0.013	0.13	1.06	37	0.10	11.85	99	0.8
ZZ98198		0.029	0.23	0.87	39	0.27	10.50	105	0.6
ZZ98199		0.025	0.14	1.14	40	0.22	8.46	94	1.2
ZZ98200		0.017	0.14	1.00	34	0.11	8.25	106	0.9
ZZ33730		0.019	0.21	0.97	43	0.18	6.34	99	0.8

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



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**CERTIFICATE OF ANALYSIS WH14132985**

<b>CERTIFICATE COMMENTS</b>	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41



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**CERTIFICATE WH14134314**

Project: SNAIL

This report is for 194 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2014.

The following have access to data associated with this certificate:

MATT DUMALA	JOAN MARIACHER
-------------	----------------

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

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

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 WH14134314**

Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
CC44971		0.37	0.12	1.41	11.7	<0.2	<10	540	0.53	0.24	0.27	0.21	43.9	9.6	28	1.32
CC44972		0.42	0.16	1.44	14.8	<0.2	<10	340	0.54	0.21	0.21	0.56	37.0	10.1	22	1.19
CC44973		0.29	0.22	1.34	21.4	<0.2	<10	220	0.48	0.20	0.25	0.75	34.5	9.4	22	1.39
CC44974		0.33	0.15	1.57	12.9	<0.2	<10	280	0.52	0.24	0.23	0.16	33.4	9.2	26	1.37
CC44975		0.40	0.36	1.26	11.1	<0.2	<10	530	0.43	0.21	0.31	0.18	31.5	6.6	25	1.21
CC44976		0.50	0.11	0.95	11.5	<0.2	<10	310	0.37	0.17	0.23	0.34	29.2	7.4	17	0.88
CC44977		0.36	0.19	1.11	16.0	<0.2	<10	460	0.49	0.21	0.22	0.64	31.0	8.6	18	1.03
CC44978		0.37	0.28	0.83	12.1	<0.2	<10	790	0.42	0.19	0.24	0.42	32.5	6.3	15	0.78
CC44979		0.37	0.13	0.81	13.5	<0.2	<10	370	0.31	0.15	0.40	0.55	33.5	7.9	21	0.70
CC44980		0.37	0.12	1.09	16.2	<0.2	<10	310	0.52	0.22	0.20	0.88	32.8	10.1	16	0.90
CC44981		0.26	0.31	1.61	16.3	<0.2	<10	190	0.47	0.20	0.15	0.62	27.6	8.2	23	1.36
CC44982		0.43	0.24	1.24	52.4	<0.2	<10	280	0.38	0.17	0.20	1.32	35.4	9.8	23	1.17
CC44983		0.31	0.23	1.56	13.7	<0.2	<10	250	0.47	0.21	0.18	0.43	29.9	8.5	22	1.20
CC44984		0.35	0.33	1.45	15.0	<0.2	<10	370	0.53	0.22	0.21	0.35	36.9	9.1	23	1.25
CC44985		0.32	0.25	1.09	12.7	<0.2	<10	140	0.19	0.24	0.41	0.22	20.9	2.8	19	1.37
CC44986		0.33	0.40	0.78	53.6	<0.2	<10	170	0.24	0.12	0.32	0.90	22.1	6.5	13	4.03
CC44987		0.44	1.02	1.19	236	<0.2	<10	270	0.48	0.21	0.38	1.70	34.5	8.0	21	4.26
CC44988		0.29	0.88	0.92	11.7	<0.2	<10	380	0.38	0.10	0.55	0.65	20.8	4.7	13	1.90
CC44989		0.39	0.46	1.18	14.2	<0.2	<10	430	0.52	0.19	0.84	1.00	35.6	5.9	18	1.30
CC44990		0.33	0.34	1.19	16.7	<0.2	<10	300	0.50	0.23	0.31	1.02	37.2	6.6	18	1.63
CC44991		0.34	0.26	1.00	11.6	<0.2	<10	360	0.29	0.13	0.56	0.30	19.15	4.4	13	1.00
CC44992		0.34	0.21	1.24	13.8	<0.2	<10	390	0.41	0.19	0.65	0.71	40.0	9.1	20	1.07
CC44993		0.31	0.21	1.59	15.3	<0.2	<10	400	0.62	0.23	0.32	0.56	36.0	8.5	20	1.57
CC44994		0.30	1.81	1.36	46.8	<0.2	<10	330	0.63	0.15	6.49	5.41	36.0	5.3	88	4.04
CC44995		0.33	0.68	1.06	16.2	<0.2	<10	340	0.44	0.17	1.60	1.47	31.2	7.1	31	1.82
CC44996		0.33	3.38	1.02	45.9	<0.2	<10	360	0.46	0.20	1.03	2.47	33.0	8.2	22	1.75
CC44997		0.34	0.39	0.90	17.3	<0.2	<10	360	0.33	0.14	1.01	0.73	23.8	6.3	18	0.89
CC44998		0.34	0.26	0.80	11.8	<0.2	<10	310	0.25	0.13	0.94	0.49	22.7	5.0	15	0.85
CC44999		0.29	0.34	1.04	23.0	<0.2	<10	450	0.37	0.15	1.10	1.20	22.8	5.6	15	0.86
CC45000		0.26	0.34	0.93	10.2	<0.2	<10	380	0.30	0.13	0.69	2.25	23.3	3.6	15	0.83
ZZ92501		0.34	0.23	0.85	14.5	<0.2	<10	390	0.27	0.15	0.34	0.93	20.4	5.1	15	0.91
ZZ92502		0.25	0.22	0.92	9.7	<0.2	<10	330	0.28	0.16	0.28	0.64	20.9	5.2	16	0.88
ZZ92503		0.33	0.27	0.87	9.1	<0.2	<10	470	0.29	0.16	0.64	0.77	23.7	5.1	17	0.69
ZZ92504		0.26	0.24	0.63	7.4	<0.2	<10	230	0.18	0.09	0.14	0.23	12.90	2.6	9	0.64
ZZ92505		0.40	0.18	0.99	9.7	<0.2	<10	440	0.37	0.19	0.34	0.53	32.8	6.5	20	1.03
ZZ92506		0.37	0.28	0.93	12.0	<0.2	<10	340	0.30	0.20	0.24	0.41	22.9	5.3	17	0.92
ZZ92507		0.27	0.21	0.59	8.6	<0.2	<10	160	0.12	0.12	0.17	0.16	12.75	1.7	11	0.75
ZZ92508		0.36	0.47	0.80	18.1	<0.2	<10	350	0.24	0.22	0.25	0.59	18.00	3.6	16	0.82
ZZ92509		0.32	0.35	1.30	10.9	<0.2	<10	340	0.37	0.24	0.21	0.40	28.9	5.1	24	1.31
ZZ92510		0.34	0.24	1.25	9.4	<0.2	<10	390	0.51	0.21	0.21	0.27	30.3	4.6	25	1.38



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Sample Description	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
	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
	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	0.01	0.05
CC44971	21.1	2.40	4.35	<0.05	<0.02	0.07	0.023	0.05	21.9	15.5	0.47	328	1.33	0.01	0.78
CC44972	24.5	2.30	3.50	<0.05	0.06	0.05	0.030	0.08	17.5	12.0	0.35	362	1.92	0.01	0.75
CC44973	21.8	2.13	3.01	<0.05	0.05	0.05	0.038	0.07	16.2	11.6	0.35	376	2.97	0.01	0.81
CC44974	14.0	2.46	4.91	<0.05	0.05	0.08	0.026	0.05	14.9	17.1	0.45	249	1.64	0.01	1.05
CC44975	19.6	2.13	4.39	<0.05	0.02	0.10	0.027	0.05	16.5	13.1	0.41	200	1.31	0.01	0.74
CC44976	20.6	1.83	2.97	<0.05	0.03	0.04	0.020	0.05	14.9	10.4	0.29	295	1.99	<0.01	0.56
CC44977	34.5	2.21	3.28	<0.05	0.03	0.09	0.026	0.06	15.6	12.0	0.28	348	2.61	<0.01	0.55
CC44978	36.3	1.75	2.88	<0.05	<0.02	0.11	0.020	0.04	16.9	9.5	0.25	261	2.44	0.01	0.43
CC44979	25.8	1.71	2.76	<0.05	<0.02	0.07	0.022	0.05	17.6	8.2	0.33	343	2.36	0.01	0.53
CC44980	30.6	2.08	2.82	<0.05	0.04	0.08	0.025	0.06	16.4	9.9	0.24	425	2.44	0.01	0.51
CC44981	17.3	2.68	4.25	<0.05	0.06	0.06	0.030	0.06	13.2	17.6	0.32	287	1.72	<0.01	1.28
CC44982	22.9	2.22	3.33	<0.05	0.03	0.04	0.037	0.06	18.4	9.2	0.37	360	2.14	0.01	0.67
CC44983	17.9	2.45	4.09	<0.05	0.03	0.06	0.029	0.06	14.7	13.9	0.36	316	1.32	0.01	1.23
CC44984	22.2	2.36	4.16	<0.05	0.04	0.09	0.027	0.06	18.7	14.8	0.41	326	0.94	0.01	1.13
CC44985	10.9	1.58	5.78	<0.05	<0.02	0.04	0.017	0.03	11.2	8.1	0.23	120	1.14	0.01	0.39
CC44986	12.2	1.60	2.80	<0.05	<0.02	0.03	0.017	0.04	12.5	6.7	0.22	457	1.73	0.02	0.41
CC44987	20.8	2.75	3.85	<0.05	0.02	0.05	0.055	0.06	19.0	12.5	0.39	419	5.19	0.01	0.65
CC44988	29.5	1.39	3.10	<0.05	0.03	0.08	0.020	0.04	12.3	5.4	0.20	756	2.62	0.03	0.39
CC44989	24.8	1.97	3.83	<0.05	0.06	0.14	0.025	0.07	19.3	13.9	0.36	189	1.54	0.02	0.86
CC44990	24.8	2.37	3.97	<0.05	0.02	0.08	0.027	0.06	18.7	14.5	0.28	344	1.80	0.01	0.90
CC44991	22.1	1.44	3.16	<0.05	0.05	0.09	0.015	0.04	10.3	7.6	0.21	435	1.06	0.02	0.59
CC44992	15.4	2.72	4.45	<0.05	0.06	0.09	0.029	0.07	19.8	16.6	0.47	292	1.93	0.01	1.42
CC44993	23.5	2.68	4.40	<0.05	0.05	0.08	0.030	0.07	19.9	15.5	0.34	298	1.65	0.01	1.05
CC44994	40.1	1.76	4.24	0.07	0.05	0.10	0.038	0.13	24.0	18.2	1.11	510	4.48	0.01	0.39
CC44995	23.8	2.00	3.52	0.05	0.06	0.09	0.027	0.07	17.1	12.8	0.71	469	1.84	0.01	0.79
CC44996	36.6	2.41	3.39	<0.05	0.06	0.09	0.128	0.09	17.4	11.1	0.54	547	8.94	0.01	0.81
CC44997	22.1	1.76	3.14	<0.05	0.03	0.07	0.024	0.05	13.0	8.1	0.36	418	1.62	0.02	0.81
CC44998	16.0	1.66	2.82	<0.05	0.03	0.09	0.019	0.06	11.9	7.1	0.29	338	1.41	0.02	0.67
CC44999	18.1	1.71	3.20	<0.05	0.04	0.09	0.022	0.06	12.0	9.0	0.28	545	1.05	0.01	0.66
CC45000	20.8	0.98	3.02	<0.05	0.03	0.10	0.020	0.05	12.1	6.7	0.24	123	0.77	0.01	0.61
ZZ92501	20.7	1.86	2.87	<0.05	0.03	0.11	0.019	0.05	10.4	6.5	0.22	279	1.10	0.02	0.68
ZZ92502	18.7	1.58	3.02	<0.05	0.02	0.09	0.017	0.05	10.8	7.2	0.24	267	1.14	0.02	0.67
ZZ92503	20.1	1.48	2.88	<0.05	0.03	0.11	0.019	0.06	12.4	8.5	0.32	171	1.74	0.01	0.61
ZZ92504	13.3	1.18	2.20	<0.05	<0.02	0.06	0.011	0.04	6.7	3.9	0.12	81	0.92	0.02	0.41
ZZ92505	22.2	1.74	3.40	<0.05	0.02	0.09	0.020	0.07	17.2	10.6	0.38	251	2.32	0.01	0.75
ZZ92506	20.3	1.54	3.22	<0.05	<0.02	0.18	0.019	0.05	11.9	7.7	0.26	154	1.30	0.01	0.70
ZZ92507	10.1	0.86	2.60	<0.05	<0.02	0.07	0.012	0.03	6.6	4.4	0.15	41	0.26	0.02	0.34
ZZ92508	20.2	1.33	2.85	<0.05	<0.02	0.12	0.021	0.05	9.5	6.3	0.24	129	0.87	0.01	0.54
ZZ92509	22.4	1.67	4.58	<0.05	0.02	0.15	0.029	0.07	15.4	14.3	0.36	138	1.00	0.01	0.77
ZZ92510	19.7	1.87	4.32	<0.05	0.02	0.10	0.027	0.07	15.8	17.7	0.36	102	1.03	0.01	0.66



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
CC44971		24.1	770	11.3	8.7	<0.001	0.01	0.84	3.7	0.7	0.6	19.5	<0.01	0.04	2.1	0.037
CC44972		26.9	1110	12.3	8.7	<0.001	0.02	1.30	3.5	1.0	0.5	23.4	<0.01	0.04	3.4	0.022
CC44973		27.5	1160	32.7	8.7	0.001	0.03	3.25	2.8	2.2	0.7	28.3	<0.01	0.05	3.7	0.024
CC44974		19.6	810	12.6	9.6	<0.001	0.02	0.67	2.7	0.8	0.6	19.1	<0.01	0.03	2.3	0.027
CC44975		20.4	740	11.8	7.6	<0.001	0.01	0.91	3.0	0.9	0.7	21.2	<0.01	0.02	1.6	0.029
CC44976		22.2	790	10.0	6.8	0.001	0.01	1.23	2.3	1.0	0.3	24.1	<0.01	0.03	2.4	0.021
CC44977		28.9	850	14.0	8.5	0.002	0.02	1.76	2.8	1.2	0.4	25.6	<0.01	0.03	2.6	0.015
CC44978		24.1	880	12.1	5.3	<0.001	0.01	1.66	2.8	1.2	0.3	27.3	<0.01	0.04	2.2	0.020
CC44979		24.3	1580	23.3	5.6	0.001	0.01	2.24	2.4	1.3	0.7	33.4	<0.01	0.03	2.8	0.031
CC44980		29.9	1020	13.4	7.3	0.001	0.02	1.89	2.6	1.5	0.3	27.4	<0.01	0.04	3.8	0.013
CC44981		21.0	770	13.7	9.7	<0.001	0.02	1.64	2.6	1.2	0.6	18.5	0.01	0.03	3.3	0.025
CC44982		30.4	780	48.8	7.4	0.001	0.02	9.33	2.6	1.1	2.1	21.3	<0.01	0.05	3.8	0.025
CC44983		23.7	780	12.5	7.9	<0.001	0.01	1.06	3.0	1.1	0.6	17.6	0.01	0.02	4.8	0.031
CC44984		23.9	760	13.1	8.3	<0.001	0.02	1.16	3.3	0.8	0.6	19.4	<0.01	0.04	3.9	0.033
CC44985		8.0	520	12.8	5.7	<0.001	0.02	0.74	0.3	0.7	0.8	24.7	<0.01	0.03	<0.2	0.019
CC44986		21.3	820	46.8	5.2	<0.001	0.04	6.99	1.0	0.7	1.5	24.1	<0.01	0.02	0.4	0.029
CC44987		34.2	1020	157.0	9.1	0.001	0.03	23.3	2.3	1.3	5.3	30.3	<0.01	0.04	1.9	0.024
CC44988		22.6	1030	15.7	6.3	0.003	0.06	6.24	1.5	2.2	1.3	30.2	<0.01	0.02	0.6	0.025
CC44989		23.0	1120	13.2	10.0	0.003	0.05	2.52	3.7	2.0	0.7	41.1	<0.01	0.03	2.9	0.021
CC44990		20.8	1000	14.2	8.2	0.001	0.03	1.58	2.7	1.2	0.5	26.8	<0.01	0.04	2.7	0.024
CC44991		13.5	970	10.0	8.7	0.001	0.07	1.71	1.5	1.3	0.6	36.3	<0.01	0.02	0.9	0.020
CC44992		18.7	1090	12.7	8.4	0.002	0.04	1.10	4.8	2.0	0.6	39.5	<0.01	0.02	4.8	0.041
CC44993		25.9	770	14.9	9.1	<0.001	0.01	1.30	4.1	1.3	0.5	23.7	<0.01	0.03	5.1	0.022
CC44994		49.1	4920	21.9	16.4	0.002	0.04	8.14	5.2	5.6	7.2	320	<0.01	0.04	4.1	0.017
CC44995		25.1	1660	14.3	10.4	0.004	0.07	2.27	3.7	4.6	1.3	71.4	<0.01	0.05	2.3	0.024
CC44996		41.4	1170	157.5	11.7	0.005	0.06	16.25	3.8	3.8	11.3	54.1	<0.01	0.05	3.2	0.028
CC44997		18.4	1040	15.7	6.2	0.001	0.06	1.95	2.6	1.8	1.4	53.3	<0.01	0.02	1.3	0.030
CC44998		14.0	900	9.0	6.9	0.001	0.06	1.22	2.4	1.5	0.5	45.2	<0.01	0.02	1.5	0.021
CC44999		16.5	870	13.4	10.4	0.003	0.09	2.63	2.3	1.9	0.6	55.6	<0.01	0.03	1.2	0.015
CC45000		15.7	890	17.6	7.5	0.004	0.11	3.63	1.9	2.1	0.4	37.8	<0.01	0.02	1.1	0.017
ZZ92501		14.7	790	8.9	6.6	0.002	0.07	1.34	2.7	1.5	0.4	25.8	<0.01	0.03	2.0	0.022
ZZ92502		14.0	720	9.0	7.3	0.002	0.04	1.20	2.6	1.2	0.4	22.2	<0.01	0.03	2.0	0.021
ZZ92503		18.2	850	10.4	6.3	0.003	0.06	1.30	2.6	1.2	0.3	39.1	<0.01	0.03	2.0	0.019
ZZ92504		9.8	530	5.6	5.3	0.001	0.02	0.57	1.6	0.8	0.2	14.5	<0.01	0.02	0.8	0.021
ZZ92505		21.2	1010	10.2	7.5	0.001	0.02	1.37	3.0	1.1	0.4	29.6	<0.01	0.03	3.6	0.028
ZZ92506		16.3	780	12.5	8.2	0.001	0.03	1.14	2.6	1.3	0.4	22.1	<0.01	0.02	1.9	0.022
ZZ92507		6.2	680	10.5	5.3	<0.001	0.04	0.91	0.8	0.5	0.4	15.4	<0.01	0.01	0.2	0.022
ZZ92508		14.0	790	23.5	6.8	0.001	0.04	2.95	2.0	1.1	2.4	23.3	<0.01	0.02	0.9	0.021
ZZ92509		17.3	790	15.8	12.2	0.001	0.02	1.04	2.8	1.2	0.6	22.5	<0.01	0.03	1.9	0.017
ZZ92510		18.5	780	11.5	12.6	0.001	0.02	0.70	2.9	1.3	0.5	24.5	<0.01	0.03	2.1	0.020



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
CC44971		0.16	1.34	47	0.32	14.00	86	<0.5	0.001
CC44972		0.20	1.22	47	0.24	8.86	139	1.8	0.002
CC44973		0.28	1.18	53	0.21	7.74	113	1.7	0.002
CC44974		0.17	1.35	46	0.37	6.67	76	1.3	0.001
CC44975		0.14	1.78	44	0.37	8.99	81	0.5	0.002
CC44976		0.16	0.94	39	0.13	7.72	109	0.8	0.002
CC44977		0.16	1.00	48	0.15	8.94	145	0.9	0.003
CC44978		0.12	1.11	43	0.14	11.05	128	<0.5	0.003
CC44979		0.14	1.22	42	0.14	10.85	105	0.5	0.005
CC44980		0.16	1.00	39	0.14	8.17	127	1.4	0.005
CC44981		0.15	0.75	45	0.23	5.16	85	1.7	0.002
CC44982		0.16	0.84	47	0.22	7.11	137	1.0	0.007
CC44983		0.16	0.89	41	0.28	6.63	85	1.2	0.005
CC44984		0.15	0.87	42	0.39	9.51	79	1.2	0.004
CC44985		0.17	0.64	48	0.28	2.67	37	<0.5	0.004
CC44986		0.15	0.90	33	0.22	6.85	121	<0.5	0.010
CC44987		0.19	2.52	46	0.37	10.60	202	0.5	0.003
CC44988		0.17	1.59	37	0.12	17.60	78	1.2	0.003
CC44989		0.17	1.85	40	0.23	14.35	142	2.0	0.004
CC44990		0.18	1.15	39	0.18	9.77	127	0.7	0.003
CC44991		0.12	1.37	31	0.13	6.66	76	1.9	0.002
CC44992		0.12	1.72	42	0.26	11.65	100	1.9	0.003
CC44993		0.18	0.96	43	0.23	12.20	95	1.6	0.005
CC44994		0.72	2.60	68	0.17	26.8	196	2.5	0.006
CC44995		0.27	1.67	45	0.28	14.35	110	2.1	0.004
CC44996		0.50	1.72	44	0.29	13.40	315	2.3	0.010
CC44997		0.15	1.32	36	0.21	10.15	75	1.1	0.004
CC44998		0.13	1.23	31	0.11	8.11	78	1.1	0.003
CC44999		0.12	1.29	33	0.21	8.71	127	1.3	0.004
CC45000		0.11	1.69	28	1.32	8.12	141	1.3	0.023
ZZ92501		0.13	1.39	35	0.12	7.73	78	0.9	0.004
ZZ92502		0.14	1.34	35	0.13	7.01	79	0.7	0.002
ZZ92503		0.13	1.41	38	0.09	7.78	98	1.1	0.003
ZZ92504		0.09	0.72	26	0.15	4.25	42	<0.5	0.002
ZZ92505		0.17	1.11	43	0.18	9.16	110	0.7	0.003
ZZ92506		0.14	1.05	36	0.20	7.26	71	0.5	0.003
ZZ92507		0.11	0.51	23	0.14	3.17	33	<0.5	0.002
ZZ92508		0.12	0.89	37	0.24	7.38	74	<0.5	0.003
ZZ92509		0.20	1.06	43	0.15	7.29	88	<0.5	0.004
ZZ92510		0.19	1.02	46	1.71	7.88	85	1.0	0.004



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
ZZ92511		0.57	0.50	1.41	9.9	<0.2	<10	480	0.60	0.23	0.44	0.34	35.6	7.2	29	1.53
ZZ92512		0.21	0.38	1.23	8.2	<0.2	<10	360	0.35	0.23	0.46	0.26	27.7	4.6	26	1.15
ZZ92513		0.30	0.35	1.02	6.1	<0.2	<10	290	0.42	0.15	0.24	0.23	23.4	5.0	18	1.09
ZZ92514		0.30	0.21	1.14	7.6	<0.2	<10	270	0.35	0.23	0.22	0.24	25.7	7.9	24	1.27
ZZ92515		0.28	0.42	0.78	3.8	<0.2	<10	240	0.33	0.10	0.23	0.30	19.50	3.8	14	0.79
ZZ92516		0.27	0.52	1.20	6.2	<0.2	<10	410	0.58	0.21	0.42	0.77	28.4	7.0	25	1.41
ZZ92517		0.43	0.37	1.30	5.7	<0.2	<10	350	0.46	0.19	0.27	0.23	26.8	3.4	24	1.35
ZZ92518		0.20	0.28	0.81	14.7	<0.2	<10	400	0.36	0.10	0.71	0.93	25.8	6.0	13	1.00
ZZ92519		0.18	0.27	0.86	13.3	<0.2	<10	320	0.40	0.13	0.94	0.85	28.0	4.9	13	0.82
ZZ92520		0.22	0.25	0.95	6.0	<0.2	<10	270	0.31	0.15	0.36	0.23	22.2	6.1	16	1.05
ZZ92521		0.30	0.52	0.85	11.5	<0.2	<10	370	0.40	0.14	1.03	0.63	22.0	4.7	12	1.36
ZZ92522		0.22	0.26	1.15	13.8	<0.2	<10	400	0.55	0.21	0.40	0.85	34.0	6.7	17	1.84
ZZ92523		0.27	0.39	0.75	9.3	<0.2	<10	370	0.34	0.14	0.89	0.86	19.30	3.9	15	0.65
ZZ92524		0.22	0.29	0.63	5.4	<0.2	<10	340	0.33	0.09	1.02	0.83	15.10	7.1	10	0.49
ZZ92525		0.22	0.50	0.71	9.4	<0.2	<10	400	0.37	0.14	1.11	1.24	19.55	5.6	13	0.59
ZZ92526		0.26	0.78	1.12	12.9	<0.2	<10	670	0.69	0.23	1.82	3.73	31.6	7.5	34	1.11
ZZ92527		0.43	0.82	1.26	15.6	<0.2	<10	540	0.68	0.22	1.21	2.56	37.4	7.0	37	1.50
ZZ92528		0.36	0.36	1.51	13.1	<0.2	<10	380	0.54	0.23	0.38	0.65	27.7	5.8	23	1.30
ZZ92529		0.42	0.27	1.31	18.9	<0.2	<10	390	0.64	0.24	0.26	0.63	35.3	7.8	17	1.24
ZZ92530		0.27	0.13	1.46	13.5	<0.2	<10	280	0.62	0.20	0.22	0.70	31.1	8.5	21	1.03
ZZ92531		0.26	0.49	1.19	11.8	<0.2	<10	420	0.52	0.27	0.53	0.99	30.5	6.8	16	1.31
ZZ92532		0.28	0.27	0.98	6.5	<0.2	<10	520	0.39	0.15	0.52	0.39	21.9	5.9	15	0.73
ZZ92533		0.25	0.32	0.66	5.3	<0.2	<10	380	0.24	0.10	0.67	0.51	13.40	3.5	8	0.91
ZZ92534		0.26	0.24	0.97	15.0	<0.2	<10	500	0.45	0.17	1.15	0.69	24.6	5.9	14	1.24
ZZ92535		0.19	0.26	0.82	7.3	<0.2	<10	340	0.32	0.11	0.35	0.27	18.80	5.8	12	0.71
ZZ92536		0.26	0.25	0.73	5.9	<0.2	<10	320	0.33	0.11	0.33	0.41	20.6	4.2	11	0.71
ZZ92537		0.25	0.60	1.00	9.0	<0.2	<10	300	0.51	0.19	0.86	1.83	26.3	6.7	19	0.96
ZZ92538		0.39	0.65	1.04	11.2	<0.2	<10	410	0.49	0.21	0.77	1.84	29.6	7.4	17	1.09
ZZ92539		0.33	0.60	1.31	18.6	<0.2	<10	540	0.58	0.18	0.82	2.71	32.9	7.5	23	0.96
ZZ92540		0.26	0.40	1.12	6.5	<0.2	<10	620	0.52	0.15	1.33	0.91	24.4	5.7	20	0.81
ZZ92541		0.18	0.41	0.94	7.7	<0.2	<10	440	0.39	0.13	1.20	0.51	22.6	5.2	21	0.88
ZZ92542		0.22	0.25	0.75	13.8	<0.2	<10	300	0.28	0.09	0.66	1.71	18.65	3.8	12	0.87
ZZ92543		0.25	0.33	0.87	17.9	<0.2	<10	330	0.38	0.13	0.81	1.45	24.9	4.2	15	0.98
ZZ92544		0.20	0.36	0.89	19.0	<0.2	<10	370	0.38	0.11	0.99	3.15	21.7	4.0	12	1.13
ZZ92545		0.25	0.49	1.15	31.8	<0.2	<10	470	0.58	0.18	0.88	1.23	34.2	10.8	17	1.20
ZZ92546		0.26	0.29	1.07	10.3	<0.2	<10	360	0.48	0.16	1.05	0.55	28.1	5.3	17	0.96
ZZ92547		0.34	0.74	1.01	29.0	<0.2	<10	250	0.43	0.13	1.27	0.84	23.4	4.4	36	1.92
ZZ92548		0.27	1.11	1.78	27.7	<0.2	<10	530	0.97	0.21	1.21	2.23	45.5	7.3	44	3.23
ZZ92549		0.31	0.33	1.02	16.1	<0.2	<10	330	0.35	0.16	0.62	0.28	25.2	6.5	17	1.01
ZZ92550		0.35	0.20	0.94	10.6	<0.2	<10	380	0.49	0.19	0.36	0.55	38.2	6.7	18	0.82



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**CERTIFICATE OF ANALYSIS WH14134314**

Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ92511		30.7	2.21	4.83	<0.05	0.02	0.16	0.036	0.09	18.5	23.6	0.48	167	1.06	0.01	0.76
ZZ92512		17.3	2.01	4.66	<0.05	0.02	0.09	0.027	0.07	14.5	14.7	0.37	155	1.38	0.01	0.66
ZZ92513		20.3	1.70	3.21	<0.05	0.02	0.11	0.021	0.07	12.0	12.0	0.26	121	1.09	0.02	0.59
ZZ92514		15.7	1.83	4.34	<0.05	<0.02	0.08	0.023	0.06	13.4	13.1	0.30	375	1.50	0.01	0.75
ZZ92515		18.5	1.03	2.08	<0.05	<0.02	0.09	0.019	0.06	9.8	7.7	0.15	209	0.62	0.03	0.33
ZZ92516		31.7	1.70	3.86	<0.05	0.03	0.19	0.031	0.09	15.1	15.6	0.37	278	0.91	0.02	0.78
ZZ92517		17.4	1.63	4.37	<0.05	0.02	0.17	0.028	0.08	14.3	19.3	0.35	109	0.59	0.01	0.65
ZZ92518		12.7	1.55	2.78	<0.05	0.03	0.15	0.020	0.05	13.0	12.5	0.29	1010	1.17	0.01	0.46
ZZ92519		18.3	1.33	2.86	<0.05	0.04	0.10	0.022	0.07	14.3	14.7	0.28	233	0.83	0.01	0.64
ZZ92520		10.8	1.53	3.46	<0.05	0.02	0.11	0.019	0.05	11.2	14.0	0.30	437	1.22	0.01	0.71
ZZ92521		20.4	1.58	2.79	<0.05	0.04	0.19	0.022	0.07	11.9	12.4	0.25	233	1.08	0.02	0.58
ZZ92522		19.8	2.07	3.96	<0.05	0.02	0.07	0.027	0.07	17.6	15.2	0.27	400	1.92	0.01	0.86
ZZ92523		18.3	1.46	2.70	<0.05	0.03	0.08	0.019	0.04	10.3	7.3	0.21	161	1.01	0.02	0.59
ZZ92524		19.3	1.21	2.04	<0.05	0.04	0.06	0.012	0.03	8.1	5.3	0.15	223	1.57	0.03	0.43
ZZ92525		26.6	1.35	2.29	<0.05	0.04	0.08	0.017	0.05	10.6	7.1	0.21	391	1.79	0.02	0.47
ZZ92526		50.4	1.90	3.47	0.05	0.05	0.16	0.034	0.10	18.4	13.8	0.38	280	3.29	0.01	0.70
ZZ92527		33.7	2.04	3.80	<0.05	0.05	0.14	0.035	0.11	20.6	15.0	0.42	302	4.96	0.02	0.62
ZZ92528		14.8	2.22	4.92	<0.05	<0.02	0.05	0.026	0.06	14.6	15.8	0.35	214	1.52	0.01	1.20
ZZ92529		27.4	2.39	3.96	<0.05	0.03	0.10	0.032	0.07	17.1	15.0	0.27	246	2.48	0.01	0.74
ZZ92530		26.0	2.44	3.99	<0.05	0.05	0.06	0.030	0.07	15.3	17.4	0.32	328	2.49	0.01	0.86
ZZ92531		25.9	1.68	3.56	<0.05	<0.02	0.08	0.025	0.07	16.8	12.1	0.30	332	2.19	0.02	0.46
ZZ92532		14.9	1.47	3.29	<0.05	0.03	0.08	0.019	0.04	11.0	11.0	0.28	567	1.59	0.02	0.51
ZZ92533		14.4	1.02	2.38	<0.05	<0.02	0.07	0.014	0.05	6.7	5.3	0.14	230	1.04	0.03	0.33
ZZ92534		20.5	1.85	3.60	<0.05	<0.02	0.07	0.024	0.06	12.0	10.4	0.23	443	1.76	0.01	0.56
ZZ92535		15.1	1.73	2.76	<0.05	0.03	0.09	0.015	0.04	9.6	7.3	0.19	1120	1.99	0.02	0.50
ZZ92536		18.9	1.32	2.46	<0.05	<0.02	0.07	0.016	0.06	10.4	6.8	0.17	172	1.22	0.02	0.38
ZZ92537		33.7	1.79	3.17	<0.05	0.05	0.16	0.028	0.10	13.6	13.6	0.33	258	2.18	0.02	0.54
ZZ92538		27.7	1.71	3.26	0.05	0.05	0.12	0.028	0.09	14.8	12.4	0.32	173	2.12	0.02	0.59
ZZ92539		25.2	2.63	3.79	<0.05	0.05	0.13	0.031	0.07	17.2	17.5	0.42	253	2.50	0.01	0.60
ZZ92540		26.6	1.54	3.49	<0.05	0.05	0.12	0.026	0.06	13.0	10.9	0.33	234	1.05	0.01	0.56
ZZ92541		17.9	1.38	3.01	<0.05	0.04	0.09	0.020	0.06	12.5	9.6	0.32	237	1.12	0.02	0.50
ZZ92542		16.3	1.42	2.89	<0.05	0.03	0.06	0.019	0.04	9.5	6.8	0.19	109	0.53	0.02	0.53
ZZ92543		15.3	1.68	2.96	<0.05	0.04	0.07	0.021	0.06	13.0	10.2	0.29	186	1.29	0.01	0.55
ZZ92544		17.1	1.44	2.83	<0.05	0.04	0.09	0.017	0.05	11.7	8.2	0.22	283	0.94	0.01	0.51
ZZ92545		23.7	2.07	3.46	<0.05	0.03	0.12	0.027	0.06	16.8	12.2	0.31	443	1.58	0.01	0.71
ZZ92546		15.8	1.88	3.33	<0.05	0.03	0.09	0.021	0.06	14.5	10.7	0.32	246	0.99	0.02	0.78
ZZ92547		20.4	1.45	3.16	<0.05	0.06	0.08	0.024	0.09	13.4	10.9	0.66	276	2.84	0.02	0.46
ZZ92548		33.3	2.26	4.70	0.06	0.06	0.18	0.041	0.11	26.9	21.7	1.01	605	2.18	0.01	0.79
ZZ92549		13.3	1.56	3.36	<0.05	<0.02	0.10	0.019	0.04	13.0	9.5	0.29	346	1.07	0.02	0.68
ZZ92550		17.4	2.00	3.06	0.05	0.04	0.09	0.021	0.06	19.6	12.9	0.37	195	1.06	0.01	0.94



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92511		27.9	920	13.3	13.8	0.001	0.03	0.89	4.4	1.8	0.5	45.4	<0.01	0.04	2.7	0.021
ZZ92512		17.2	960	12.4	12.4	0.002	0.06	0.52	2.6	1.5	0.4	44.6	<0.01	0.03	1.4	0.015
ZZ92513		15.1	750	8.9	8.5	0.001	0.03	0.72	2.6	1.3	0.3	28.2	<0.01	0.03	1.5	0.021
ZZ92514		13.7	860	10.7	11.3	0.001	0.03	0.47	1.9	1.3	0.5	27.7	<0.01	0.03	0.8	0.021
ZZ92515		14.0	820	5.0	6.2	<0.001	0.04	0.44	1.5	1.4	0.2	26.2	<0.01	0.02	0.5	0.015
ZZ92516		28.4	670	9.8	11.4	0.001	0.04	0.90	4.2	2.1	0.5	45.9	<0.01	0.03	2.8	0.021
ZZ92517		15.0	710	9.7	12.6	0.002	0.04	0.51	3.3	1.3	0.4	31.3	<0.01	0.04	2.9	0.015
ZZ92518		16.5	850	14.2	8.6	0.004	0.06	1.55	2.2	1.8	0.8	39.6	<0.01	0.02	2.0	0.016
ZZ92519		16.4	870	11.1	9.3	0.010	0.10	2.07	2.7	4.2	0.5	45.6	<0.01	0.03	2.4	0.019
ZZ92520		12.7	830	7.8	8.3	0.001	0.03	0.61	2.1	0.9	0.4	26.6	<0.01	0.03	1.7	0.021
ZZ92521		16.9	820	8.7	11.2	0.004	0.07	1.39	2.9	2.5	0.3	50.7	<0.01	0.03	1.4	0.021
ZZ92522		19.9	780	15.1	10.9	0.001	0.03	1.40	2.8	1.4	0.7	30.0	<0.01	0.03	2.4	0.026
ZZ92523		13.6	920	8.1	6.5	0.001	0.05	1.15	1.9	1.8	0.3	44.0	<0.01	0.03	1.0	0.017
ZZ92524		14.0	750	5.0	4.5	0.001	0.05	1.08	1.4	1.7	0.2	45.4	<0.01	0.03	0.7	0.020
ZZ92525		19.4	860	7.5	5.7	0.002	0.04	1.36	2.0	1.9	0.3	50.0	<0.01	0.03	1.1	0.018
ZZ92526		43.8	2110	13.4	11.0	0.002	0.05	2.89	3.8	4.2	0.5	82.2	<0.01	0.06	2.2	0.018
ZZ92527		40.7	2480	11.0	13.2	0.002	0.02	2.94	4.4	4.0	0.5	62.1	<0.01	0.06	3.5	0.018
ZZ92528		16.4	480	12.4	12.6	0.001	0.01	0.81	2.6	0.7	0.6	21.1	<0.01	0.04	2.9	0.033
ZZ92529		25.5	790	14.5	10.3	0.001	0.01	1.68	3.0	1.2	0.5	28.0	<0.01	0.05	4.1	0.014
ZZ92530		27.0	1000	13.8	9.6	<0.001	0.02	1.46	3.0	1.3	0.4	24.2	<0.01	0.04	3.5	0.018
ZZ92531		22.6	880	10.5	8.9	0.001	0.02	1.24	2.2	1.1	0.4	33.3	<0.01	0.03	0.9	0.019
ZZ92532		12.9	990	7.8	6.8	0.002	0.04	0.64	1.8	1.3	0.3	33.4	<0.01	0.02	1.1	0.019
ZZ92533		11.5	710	5.5	6.2	0.001	0.04	0.79	1.1	0.7	0.2	38.3	<0.01	0.02	0.4	0.017
ZZ92534		15.7	1110	13.3	8.5	0.001	0.05	1.52	1.8	1.4	0.3	50.7	<0.01	0.04	1.0	0.017
ZZ92535		12.2	820	7.3	5.5	0.001	0.04	0.73	1.8	1.1	0.3	27.6	<0.01	0.02	1.7	0.021
ZZ92536		13.9	660	7.5	5.2	<0.001	0.01	0.92	1.5	0.5	0.3	25.0	<0.01	0.03	1.0	0.021
ZZ92537		30.2	1000	12.6	8.6	0.008	0.06	1.70	4.2	5.1	0.5	48.4	<0.01	0.04	2.2	0.021
ZZ92538		26.3	1070	26.2	8.5	0.009	0.07	4.04	3.2	7.9	1.0	43.1	<0.01	0.03	2.2	0.023
ZZ92539		24.7	1260	21.9	14.5	0.004	0.06	2.39	3.2	3.4	1.2	40.1	<0.01	0.04	1.6	0.016
ZZ92540		20.2	1120	10.3	9.8	0.003	0.07	1.31	2.9	2.2	0.5	56.4	<0.01	0.03	1.2	0.015
ZZ92541		16.4	1460	9.4	8.8	0.002	0.05	1.29	2.4	1.9	0.5	57.1	<0.01	0.04	1.2	0.016
ZZ92542		12.0	880	18.8	6.1	0.003	0.08	3.30	1.8	1.2	0.4	37.9	<0.01	0.01	1.1	0.029
ZZ92543		16.4	970	18.7	7.8	0.003	0.06	3.05	2.2	1.8	0.4	44.5	<0.01	0.03	1.7	0.020
ZZ92544		17.9	930	13.6	9.0	0.003	0.07	3.50	1.7	2.3	0.4	47.3	<0.01	0.02	1.1	0.021
ZZ92545		18.9	950	20.3	11.3	0.004	0.08	4.49	3.0	2.7	0.8	43.1	<0.01	0.03	1.7	0.016
ZZ92546		12.7	890	11.3	10.5	0.002	0.06	1.41	2.5	2.1	0.5	56.9	<0.01	0.01	1.4	0.022
ZZ92547		21.3	2570	21.5	11.3	0.002	0.03	4.69	2.6	2.5	3.5	62.9	<0.01	0.04	2.0	0.022
ZZ92548		31.6	2160	23.9	18.0	0.001	0.03	3.78	6.1	2.6	3.0	60.2	<0.01	0.04	3.5	0.019
ZZ92549		12.7	870	10.7	7.5	0.001	0.04	1.48	1.8	1.3	0.7	35.8	<0.01	0.01	0.6	0.022
ZZ92550		18.8	820	10.0	6.0	0.001	0.06	1.04	3.4	0.8	0.4	28.0	<0.01	0.01	5.4	0.043





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		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92511		0.20	1.47	49	0.14	12.10	113	0.7	0.005
ZZ92512		0.16	0.87	48	0.22	6.83	76	0.5	0.004
ZZ92513		0.14	0.97	37	0.26	7.46	65	0.5	0.004
ZZ92514		0.15	0.82	48	0.32	5.93	62	<0.5	0.003
ZZ92515		0.10	0.89	22	0.07	9.48	37	<0.5	0.003
ZZ92516		0.17	1.25	42	0.16	12.30	109	1.3	0.004
ZZ92517		0.21	0.87	41	0.11	6.49	81	0.9	0.004
ZZ92518		0.15	1.13	32	0.14	8.27	103	1.1	0.003
ZZ92519		0.12	2.09	29	0.47	9.45	112	1.6	0.004
ZZ92520		0.13	0.85	34	0.20	5.39	83	0.6	0.003
ZZ92521		0.16	1.37	32	0.08	9.84	123	1.5	0.005
ZZ92522		0.17	1.41	40	0.19	10.65	110	0.7	0.004
ZZ92523		0.14	1.02	35	0.12	7.46	77	1.2	0.003
ZZ92524		0.08	0.82	27	0.08	7.36	53	1.5	0.002
ZZ92525		0.11	1.01	34	0.09	9.30	84	1.6	0.003
ZZ92526		0.30	2.40	66	0.13	17.40	187	2.0	0.005
ZZ92527		0.48	1.72	65	0.14	17.65	184	1.9	0.008
ZZ92528		0.16	1.17	47	0.29	5.15	99	0.6	0.003
ZZ92529		0.17	0.95	51	0.17	7.94	127	1.1	0.004
ZZ92530		0.16	0.94	50	0.29	8.09	112	1.7	0.004
ZZ92531		0.19	1.18	40	0.15	13.25	106	<0.5	0.003
ZZ92532		0.11	0.99	37	0.09	6.89	66	1.0	0.002
ZZ92533		0.13	0.55	25	0.07	4.66	68	0.5	0.002
ZZ92534		0.16	0.91	37	0.14	8.00	99	0.5	0.003
ZZ92535		0.09	0.65	31	0.23	5.72	54	1.0	0.003
ZZ92536		0.10	0.75	31	0.08	6.14	65	<0.5	0.002
ZZ92537		0.20	1.21	41	0.11	12.85	125	1.9	0.005
ZZ92538		0.20	1.73	43	0.19	11.10	147	1.8	0.003
ZZ92539		0.21	3.30	44	0.12	13.95	163	1.3	0.004
ZZ92540		0.16	1.49	40	0.13	10.45	93	1.5	0.003
ZZ92541		0.17	1.15	38	0.19	9.48	86	1.3	0.003
ZZ92542		0.09	1.40	36	0.07	5.67	146	0.9	0.003
ZZ92543		0.11	1.36	36	0.28	7.67	169	1.2	0.007
ZZ92544		0.11	1.60	34	0.11	7.86	264	1.2	0.009
ZZ92545		0.15	2.19	36	0.23	12.15	97	1.2	0.004
ZZ92546		0.14	1.89	39	0.17	9.19	79	1.0	0.004
ZZ92547		0.37	1.29	50	0.12	11.10	108	2.2	0.003
ZZ92548		0.41	1.52	57	0.19	27.4	141	2.2	0.007
ZZ92549		0.11	1.20	37	0.16	7.03	51	<0.5	0.002
ZZ92550		0.10	0.77	38	0.25	12.00	89	1.7	0.005



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ92551		0.23	0.13	1.42	8.6	<0.2	<10	230	0.53	0.16	0.21	0.51	33.2	4.9	14	1.30
ZZ92552		0.26	0.19	1.54	11.3	<0.2	<10	380	0.62	0.22	0.27	0.37	31.9	7.6	23	1.52
ZZ92553		0.25	0.41	1.24	8.3	<0.2	<10	450	0.47	0.20	0.35	0.42	30.6	3.8	15	1.72
ZZ92554		0.28	0.29	1.48	12.4	<0.2	<10	280	0.64	0.23	0.31	0.22	35.5	8.1	24	1.27
ZZ92555		0.26	0.10	1.38	11.6	<0.2	<10	230	0.48	0.22	0.13	0.20	32.8	5.4	19	1.25
ZZ92556		0.27	0.20	1.73	19.0	<0.2	<10	400	0.81	0.41	0.21	0.65	37.2	10.6	24	1.70
ZZ92557		0.24	0.34	1.09	10.8	<0.2	<10	130	0.25	0.19	0.09	0.29	21.3	3.0	14	0.86
ZZ92558		0.24	0.25	1.63	14.4	<0.2	<10	200	0.61	0.21	0.13	0.41	26.2	6.9	22	1.39
ZZ92559		0.25	0.06	1.57	11.7	<0.2	<10	140	0.43	0.22	0.19	0.38	28.0	6.2	25	1.17
ZZ92560		0.29	0.24	1.40	38.6	<0.2	<10	280	0.47	0.24	0.47	4.74	27.7	5.7	23	1.61
ZZ92561		0.34	0.35	1.29	22.5	<0.2	<10	370	0.64	0.20	0.37	1.73	38.1	6.1	19	1.47
ZZ92562		0.32	0.19	1.21	13.3	<0.2	<10	390	0.56	0.23	0.30	0.60	36.6	6.0	18	1.20
ZZ92563		0.28	0.23	1.64	15.6	<0.2	<10	360	0.75	0.25	0.14	0.45	39.5	9.2	24	1.59
ZZ92564		0.26	0.16	1.52	12.1	<0.2	<10	200	0.54	0.20	0.16	0.35	28.4	7.1	21	1.33
ZZ92565		0.29	0.21	1.44	14.5	<0.2	<10	200	0.64	0.20	0.12	0.44	34.5	8.2	20	1.26
ZZ92566		0.27	0.17	1.32	9.3	<0.2	<10	210	0.35	0.25	0.19	0.26	25.3	3.7	22	1.15
ZZ92567		0.33	0.16	1.23	13.2	<0.2	<10	440	0.60	0.19	0.19	0.44	32.2	8.0	19	0.91
ZZ92568		0.26	0.16	1.01	11.4	<0.2	<10	410	0.40	0.20	0.23	0.28	33.0	5.4	18	0.79
ZZ92569		0.33	0.19	1.88	14.7	<0.2	<10	480	0.75	0.30	0.26	0.46	30.8	15.4	30	1.53
ZZ92570		0.27	0.32	1.15	21.1	<0.2	<10	670	0.58	0.24	0.41	0.70	34.7	6.6	20	0.95
ZZ92571		0.29	0.43	1.47	15.3	<0.2	<10	700	0.70	0.23	0.62	0.48	34.2	8.4	26	1.13
ZZ92572		0.33	0.29	1.23	12.6	<0.2	<10	610	0.57	0.22	0.44	0.72	32.0	7.3	22	0.81
ZZ92573		0.28	0.31	0.97	6.0	<0.2	<10	410	0.42	0.12	0.40	0.78	14.60	3.5	11	0.78
ZZ92574		0.24	0.30	1.20	8.4	<0.2	<10	580	0.51	0.22	0.88	0.71	22.7	5.8	17	0.84
ZZ92575		0.28	1.01	1.45	14.4	<0.2	<10	680	0.76	0.27	0.61	0.87	37.9	7.2	22	1.35
ZZ92576		0.42	0.21	1.54	14.8	<0.2	<10	470	0.64	0.20	0.36	6.28	36.1	6.4	21	1.67
ZZ92577		0.42	0.66	1.68	19.3	<0.2	<10	360	0.90	0.21	0.38	7.41	37.8	5.3	21	2.40
ZZ92578		0.36	0.18	1.40	14.9	<0.2	<10	270	0.53	0.22	0.34	0.97	33.2	7.0	18	1.65
ZZ92579		0.41	0.32	1.18	16.0	<0.2	<10	360	0.70	0.26	0.89	0.26	39.6	8.0	22	0.92
ZZ92580		0.32	0.19	1.54	15.4	<0.2	<10	290	0.72	0.22	0.20	0.44	38.7	8.1	21	2.12
ZZ92581		0.30	0.12	1.67	16.7	<0.2	<10	230	0.55	0.20	0.12	0.55	31.3	9.4	22	2.16
ZZ92582		0.30	0.10	1.05	13.0	<0.2	<10	140	0.19	0.23	0.17	0.24	23.9	3.2	18	1.33
ZZ92583		0.39	0.11	1.46	18.4	<0.2	<10	290	0.58	0.25	0.12	0.56	34.7	10.3	24	1.50
ZZ92584		0.30	0.20	1.12	7.7	<0.2	<10	260	0.33	0.18	0.25	0.34	30.9	4.6	19	1.20
ZZ92585		0.41	0.13	1.30	13.2	<0.2	<10	180	0.37	0.22	0.13	0.46	27.4	8.1	21	1.24
ZZ92586		0.37	0.16	1.14	12.8	<0.2	<10	390	0.49	0.19	0.47	0.17	36.2	8.8	26	1.07
ZZ92587		0.26	0.06	1.47	13.5	<0.2	<10	160	0.36	0.23	0.25	0.33	27.1	7.0	26	1.37
ZZ92588		0.37	0.31	1.47	10.6	<0.2	<10	160	0.35	0.22	0.15	0.41	26.1	4.8	26	1.64
ZZ92589		0.32	0.26	1.27	10.4	<0.2	<10	280	0.29	0.19	0.28	0.21	26.4	3.5	22	1.35
ZZ92590		0.45	0.26	1.66	14.9	<0.2	<10	250	0.44	0.17	0.14	0.67	25.6	7.0	25	1.21



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Sample Description	Method	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	
	Analyte Units LOR	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
ZZ92551		15.4	1.83	3.92	<0.05	<0.02	0.04	0.025	0.05	16.7	15.3	0.28	158	1.16	0.01	0.51
ZZ92552		17.4	2.38	4.38	<0.05	<0.02	0.05	0.027	0.06	15.3	16.1	0.38	302	1.15	0.01	1.00
ZZ92553		17.2	1.45	4.60	<0.05	<0.02	0.08	0.022	0.04	15.1	7.7	0.16	398	1.32	<0.01	0.19
ZZ92554		16.0	2.33	4.07	<0.05	0.02	0.05	0.028	0.06	18.4	14.1	0.43	284	1.06	0.01	0.95
ZZ92555		16.9	2.04	4.67	<0.05	<0.02	0.05	0.024	0.05	16.7	11.2	0.27	187	1.45	<0.01	1.01
ZZ92556		31.0	2.66	4.11	<0.05	0.04	0.07	0.035	0.08	17.9	15.6	0.38	254	1.85	0.01	1.08
ZZ92557		14.4	1.74	4.81	<0.05	<0.02	0.04	0.016	0.04	11.0	7.5	0.16	99	1.34	0.01	0.77
ZZ92558		15.0	2.63	4.23	<0.05	0.03	0.04	0.030	0.06	13.6	16.6	0.31	210	1.71	<0.01	1.20
ZZ92559		14.1	2.50	4.42	<0.05	<0.02	0.03	0.027	0.05	14.1	14.8	0.40	239	1.31	<0.01	1.13
ZZ92560		11.9	2.46	4.49	<0.05	<0.02	0.06	0.026	0.06	15.5	18.1	0.38	216	1.86	0.01	0.79
ZZ92561		16.5	2.15	3.43	<0.05	0.02	0.07	0.031	0.07	19.7	13.7	0.33	234	1.82	0.01	0.74
ZZ92562		19.8	2.22	3.91	0.05	<0.02	0.06	0.023	0.06	20.4	11.9	0.36	299	1.45	0.01	0.95
ZZ92563		23.2	2.62	4.47	<0.05	<0.02	0.06	0.032	0.07	19.5	15.0	0.37	383	1.80	<0.01	0.81
ZZ92564		18.9	2.27	4.09	<0.05	<0.02	0.05	0.027	0.06	14.3	13.7	0.36	242	1.38	<0.01	0.94
ZZ92565		20.2	2.21	3.40	<0.05	0.02	0.05	0.025	0.06	15.8	11.6	0.32	234	1.60	<0.01	0.98
ZZ92566		11.4	1.79	4.75	<0.05	<0.02	0.04	0.019	0.04	13.0	11.2	0.29	102	1.13	<0.01	0.38
ZZ92567		24.7	1.98	3.25	<0.05	<0.02	0.04	0.023	0.06	16.3	10.8	0.29	283	2.04	<0.01	0.55
ZZ92568		18.4	1.80	3.75	<0.05	<0.02	0.06	0.022	0.05	17.0	9.0	0.25	229	1.68	<0.01	0.57
ZZ92569		25.2	2.78	5.56	<0.05	<0.02	0.06	0.035	0.06	15.0	15.1	0.42	903	2.17	<0.01	0.61
ZZ92570		29.9	2.09	3.50	<0.05	<0.02	0.06	0.032	0.07	18.7	12.6	0.34	266	2.37	0.01	0.59
ZZ92571		25.6	2.32	4.31	<0.05	0.02	0.08	0.032	0.08	18.3	14.3	0.40	446	1.63	0.01	0.85
ZZ92572		27.6	2.01	3.52	<0.05	0.04	0.09	0.030	0.08	16.6	12.1	0.38	369	2.01	0.01	0.70
ZZ92573		18.1	1.13	3.04	<0.05	<0.02	0.07	0.016	0.04	7.8	6.3	0.17	218	0.72	0.02	0.40
ZZ92574		20.2	1.71	3.18	<0.05	0.04	0.08	0.023	0.06	11.8	10.0	0.29	676	1.39	0.01	0.61
ZZ92575		56.8	2.35	4.23	0.05	<0.02	0.17	0.039	0.10	21.1	13.8	0.33	378	1.92	0.01	0.63
ZZ92576		14.8	2.34	4.24	<0.05	0.02	0.06	0.028	0.06	18.3	17.4	0.37	217	1.46	0.01	0.76
ZZ92577		17.6	1.44	4.45	<0.05	<0.02	0.15	0.029	0.06	19.5	18.4	0.32	172	0.88	0.01	0.38
ZZ92578		19.3	2.39	4.18	<0.05	<0.02	0.04	0.027	0.07	15.2	15.3	0.31	264	1.67	0.01	0.66
ZZ92579		18.6	2.33	3.72	<0.05	0.04	0.07	0.029	0.06	20.9	11.9	0.42	402	1.23	0.01	0.96
ZZ92580		17.8	2.41	4.74	<0.05	<0.02	0.05	0.031	0.06	18.4	16.5	0.39	332	1.31	<0.01	1.08
ZZ92581		20.6	2.88	4.33	<0.05	0.03	0.06	0.033	0.08	16.0	19.6	0.37	453	2.07	0.01	1.01
ZZ92582		12.6	1.93	4.99	<0.05	<0.02	0.03	0.021	0.04	12.2	8.3	0.22	129	1.56	0.01	0.65
ZZ92583		23.1	2.54	3.95	<0.05	0.02	0.05	0.028	0.08	16.9	12.3	0.37	424	3.06	<0.01	0.97
ZZ92584		17.3	1.52	3.73	<0.05	<0.02	0.08	0.021	0.05	15.8	11.5	0.32	104	1.25	<0.01	0.26
ZZ92585		16.4	2.20	3.98	<0.05	0.02	0.04	0.028	0.06	13.5	12.8	0.31	306	1.76	<0.01	0.95
ZZ92586		15.2	2.07	3.75	<0.05	0.03	0.05	0.024	0.04	18.5	13.3	0.48	373	0.92	0.01	1.00
ZZ92587		11.2	2.46	4.22	<0.05	<0.02	0.04	0.026	0.06	13.7	14.4	0.45	211	1.54	<0.01	0.99
ZZ92588		11.4	2.86	5.01	<0.05	<0.02	0.06	0.024	0.05	13.5	12.2	0.36	121	1.24	0.01	0.73
ZZ92589		17.5	1.78	4.58	<0.05	<0.02	0.07	0.021	0.04	13.6	9.4	0.30	107	1.16	0.01	0.27
ZZ92590		20.8	2.32	3.66	<0.05	0.02	0.07	0.027	0.06	13.2	12.8	0.41	252	1.72	<0.01	1.17



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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92551		14.2	770	8.3	10.7	0.001	0.16	0.70	0.6	0.6	0.4	18.3	<0.01	0.02	0.3	0.008
ZZ92552		20.8	550	11.7	9.2	<0.001	0.01	0.80	2.8	0.9	0.5	21.8	<0.01	0.03	1.5	0.028
ZZ92553		10.1	670	11.6	9.2	<0.001	0.01	0.62	0.3	0.7	0.5	21.3	<0.01	0.02	<0.2	0.005
ZZ92554		20.8	800	14.7	7.9	0.001	0.01	0.93	3.2	1.0	0.5	22.7	<0.01	0.03	2.8	0.035
ZZ92555		15.3	450	13.2	7.6	<0.001	0.01	0.92	2.4	0.9	0.5	14.5	<0.01	0.02	2.1	0.026
ZZ92556		29.3	780	15.5	12.6	0.001	0.01	1.44	3.6	1.0	0.5	22.4	<0.01	0.03	4.2	0.022
ZZ92557		9.6	380	13.1	6.2	<0.001	0.02	0.73	0.9	0.6	0.5	14.0	<0.01	0.02	0.2	0.025
ZZ92558		16.8	510	14.5	11.3	<0.001	0.01	1.02	2.4	1.0	0.5	15.6	<0.01	0.04	2.6	0.025
ZZ92559		16.3	690	11.5	7.8	0.001	0.01	0.74	2.0	0.9	0.5	16.5	<0.01	0.02	1.1	0.037
ZZ92560		15.8	730	21.1	12.8	0.002	0.02	1.65	1.7	1.2	0.5	21.1	<0.01	0.02	0.6	0.029
ZZ92561		21.0	940	29.5	8.9	0.001	0.01	2.69	3.0	1.2	0.5	26.6	<0.01	0.03	2.1	0.021
ZZ92562		16.8	650	14.4	9.2	<0.001	0.01	1.22	3.0	1.0	0.5	22.0	<0.01	0.03	2.0	0.035
ZZ92563		21.5	640	18.0	12.9	<0.001	0.01	1.08	2.5	1.2	0.5	14.9	<0.01	0.03	0.9	0.017
ZZ92564		19.5	660	13.9	9.0	0.001	0.01	0.96	2.1	1.0	0.5	17.6	<0.01	0.03	1.0	0.023
ZZ92565		21.9	570	11.8	8.9	0.001	0.01	1.22	2.8	1.1	0.4	15.0	<0.01	0.02	3.7	0.026
ZZ92566		11.2	700	12.8	7.0	<0.001	0.02	0.46	0.4	1.0	0.5	17.2	<0.01	0.03	<0.2	0.011
ZZ92567		24.1	650	16.7	8.6	<0.001	0.01	1.54	2.4	0.9	0.4	21.4	<0.01	0.02	1.7	0.015
ZZ92568		16.4	650	15.3	5.6	0.001	0.01	1.17	1.9	0.8	0.4	21.7	<0.01	0.03	0.6	0.025
ZZ92569		21.1	1040	16.5	12.7	0.001	0.02	0.95	1.5	1.4	0.6	23.8	<0.01	0.04	0.3	0.017
ZZ92570		24.9	750	36.5	8.1	<0.001	0.01	2.74	2.9	1.3	0.5	28.1	<0.01	0.04	1.7	0.016
ZZ92571		25.6	720	19.4	10.8	<0.001	0.02	1.48	3.5	1.0	0.5	33.5	<0.01	0.03	1.8	0.023
ZZ92572		23.6	760	15.8	7.7	0.001	0.02	1.68	3.7	0.9	0.5	34.1	<0.01	0.03	2.8	0.021
ZZ92573		11.3	1050	8.7	7.7	0.001	0.06	0.91	0.6	1.1	0.3	28.4	<0.01	0.01	<0.2	0.015
ZZ92574		15.1	980	12.7	8.7	<0.001	0.06	1.12	2.4	1.2	0.3	45.9	<0.01	0.02	1.1	0.013
ZZ92575		27.8	790	20.3	12.1	<0.001	0.03	1.48	3.0	1.5	0.5	37.8	<0.01	0.06	0.7	0.012
ZZ92576		19.3	840	11.5	11.7	0.001	0.02	1.56	2.8	0.9	0.5	25.5	<0.01	0.03	2.1	0.017
ZZ92577		21.6	1350	24.6	12.1	0.003	0.06	3.27	0.6	1.2	0.5	25.4	<0.01	0.01	<0.2	0.009
ZZ92578		18.9	750	14.9	12.5	0.001	0.03	1.18	1.2	0.8	0.5	28.3	<0.01	0.03	0.4	0.015
ZZ92579		25.2	770	14.1	6.9	0.001	0.02	1.22	3.9	1.0	0.5	45.1	<0.01	0.03	3.2	0.035
ZZ92580		21.3	760	14.5	11.7	<0.001	0.01	1.00	2.9	0.8	0.6	20.4	<0.01	0.02	2.3	0.028
ZZ92581		22.9	900	15.5	13.0	<0.001	0.02	1.42	2.5	0.8	0.5	14.8	<0.01	0.04	2.8	0.021
ZZ92582		9.5	630	11.5	9.2	<0.001	0.01	0.69	1.0	0.6	0.6	17.7	<0.01	0.02	0.3	0.023
ZZ92583		24.3	600	15.7	12.8	<0.001	0.01	1.71	3.4	1.4	0.6	17.0	<0.01	0.05	3.9	0.025
ZZ92584		17.1	850	9.7	8.7	<0.001	0.01	1.03	0.9	0.8	0.5	20.0	<0.01	0.02	0.2	0.016
ZZ92585		20.2	630	14.1	9.0	<0.001	0.01	1.03	2.3	1.2	0.5	15.9	<0.01	0.03	2.2	0.028
ZZ92586		25.4	1060	12.2	6.4	<0.001	<0.01	1.27	3.5	0.8	0.6	28.7	<0.01	0.02	4.3	0.043
ZZ92587		18.5	1000	10.9	8.7	<0.001	0.01	0.75	1.9	1.8	0.5	20.7	<0.01	0.03	0.9	0.035
ZZ92588		14.3	1030	13.4	11.2	0.001	0.02	0.66	0.9	1.4	0.6	12.5	<0.01	0.02	<0.2	0.024
ZZ92589		13.1	820	12.9	7.1	<0.001	0.01	0.71	0.3	1.1	0.6	19.5	<0.01	0.03	<0.2	0.012
ZZ92590		21.7	560	18.9	10.0	0.001	0.01	2.17	2.4	1.1	0.7	15.0	<0.01	0.03	2.4	0.031



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92551		0.15	0.90	36	0.12	5.77	76	<0.5	0.003
ZZ92552		0.17	0.78	46	0.27	8.03	69	<0.5	0.002
ZZ92553		0.19	0.83	36	0.13	6.04	50	<0.5	0.003
ZZ92554		0.15	1.29	46	0.24	9.03	79	0.5	0.003
ZZ92555		0.17	0.85	47	0.24	6.41	64	<0.5	0.005
ZZ92556		0.23	0.93	51	0.18	8.57	119	1.3	0.005
ZZ92557		0.11	0.45	46	0.23	2.48	47	<0.5	0.002
ZZ92558		0.18	0.72	48	0.23	4.08	83	0.8	0.003
ZZ92559		0.13	0.75	48	0.40	4.64	71	<0.5	0.002
ZZ92560		0.15	1.98	48	0.32	8.20	445	<0.5	0.001
ZZ92561		0.15	1.61	40	0.24	11.15	271	0.5	0.004
ZZ92562		0.14	0.99	44	0.26	10.90	103	<0.5	0.005
ZZ92563		0.18	1.18	50	0.20	8.96	97	<0.5	0.003
ZZ92564		0.16	0.86	44	0.30	5.15	85	<0.5	0.004
ZZ92565		0.16	0.95	42	0.21	5.39	87	0.9	0.003
ZZ92566		0.15	0.87	44	0.44	3.69	52	<0.5	0.002
ZZ92567		0.15	0.84	48	0.11	6.99	101	<0.5	0.017
ZZ92568		0.12	0.91	43	0.17	8.16	75	<0.5	0.004
ZZ92569		0.17	2.20	62	0.24	6.96	102	<0.5	0.003
ZZ92570		0.15	1.18	51	0.15	10.85	117	<0.5	0.003
ZZ92571		0.13	1.50	53	0.25	12.85	98	0.7	0.004
ZZ92572		0.12	1.29	49	0.13	10.40	130	1.3	0.003
ZZ92573		0.10	1.05	31	0.12	6.21	83	<0.5	0.002
ZZ92574		0.12	1.29	37	0.19	8.09	86	1.3	0.003
ZZ92575		0.18	1.87	53	0.17	15.15	131	<0.5	0.005
ZZ92576		0.19	1.77	45	0.21	9.63	480	0.6	0.002
ZZ92577		0.28	2.22	43	0.25	13.35	1620	<0.5	0.002
ZZ92578		0.18	0.97	46	0.17	5.96	151	<0.5	0.002
ZZ92579		0.11	0.88	44	0.26	15.95	71	1.1	0.003
ZZ92580		0.17	0.86	45	0.31	8.38	72	<0.5	0.003
ZZ92581		0.18	0.80	45	0.15	5.30	106	0.9	0.004
ZZ92582		0.14	0.65	51	0.24	3.15	49	<0.5	0.004
ZZ92583		0.19	1.23	54	0.25	6.84	100	0.8	0.003
ZZ92584		0.14	1.13	35	0.21	8.03	77	<0.5	0.002
ZZ92585		0.16	0.82	42	0.23	4.98	85	0.5	0.006
ZZ92586		0.12	1.11	40	0.29	11.30	92	1.0	0.003
ZZ92587		0.16	1.04	45	0.30	6.28	75	<0.5	0.004
ZZ92588		0.14	0.98	47	0.26	4.92	70	<0.5	0.003
ZZ92589		0.17	0.96	43	0.17	5.45	51	<0.5	0.003
ZZ92590		0.15	0.74	48	0.30	4.75	97	0.6	0.004



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ92591		0.41	0.20	0.93	18.9	<0.2	<10	430	0.43	0.17	0.33	0.63	36.2	8.1	19	0.83
ZZ92592		0.39	0.33	1.52	18.4	<0.2	<10	290	0.54	0.20	0.27	0.46	35.7	9.1	25	1.73
ZZ92593		0.32	0.22	1.86	14.2	<0.2	<10	390	0.49	0.23	0.21	0.38	28.9	5.9	28	1.59
ZZ92594		0.38	0.06	1.38	19.2	<0.2	<10	200	0.31	0.25	0.22	0.46	31.6	8.4	26	1.67
ZZ92595		0.35	0.15	1.17	9.4	<0.2	<10	280	0.34	0.29	0.10	0.51	26.4	3.6	18	1.27
ZZ92596		0.31	0.22	1.54	14.3	<0.2	<10	280	0.46	0.21	0.16	0.80	24.5	6.9	25	1.45
ZZ92597		0.34	0.15	1.45	16.5	<0.2	<10	370	0.52	0.23	0.14	0.42	30.4	8.0	23	1.26
ZZ92801		0.32	0.34	1.01	12.2	<0.2	<10	380	0.52	0.19	0.61	0.78	37.2	7.8	15	1.16
ZZ92802		0.28	0.33	1.11	10.4	<0.2	<10	400	0.51	0.17	0.67	0.84	29.8	9.0	16	1.09
ZZ92803		0.21	0.31	0.65	5.7	<0.2	<10	220	0.32	0.10	0.45	0.57	23.3	5.6	8	0.82
ZZ92804		0.27	0.34	1.38	11.0	<0.2	<10	590	0.50	0.20	0.59	0.33	33.1	7.0	22	1.23
ZZ92805		0.31	0.18	1.65	15.5	<0.2	<10	320	0.55	0.19	0.23	0.33	29.4	7.1	24	1.41
ZZ92806		0.19	0.35	1.03	32.6	<0.2	<10	360	0.46	0.14	0.83	0.77	33.5	5.8	42	1.21
ZZ92807		0.25	0.20	1.01	6.3	<0.2	<10	220	0.22	0.14	0.38	0.22	17.35	2.7	13	0.90
ZZ92808		0.29	0.21	1.25	13.1	<0.2	<10	120	0.28	0.23	0.08	0.32	25.5	4.8	19	1.50
ZZ92809		0.21	0.21	1.57	14.4	<0.2	<10	240	0.49	0.19	0.11	0.60	27.0	7.3	18	1.48
ZZ92810		0.33	0.34	1.56	15.3	<0.2	<10	190	0.36	0.27	0.14	0.30	26.3	5.4	27	1.84
ZZ92811		0.24	0.10	1.36	8.5	<0.2	<10	240	0.26	0.20	0.15	0.21	24.7	2.9	24	1.06
ZZ92812		0.29	0.33	1.66	9.0	<0.2	<10	380	0.47	0.21	0.27	0.14	30.4	6.9	26	1.05
ZZ92813		0.21	0.18	1.47	14.6	<0.2	<10	470	0.43	0.17	0.32	0.57	22.3	7.7	19	1.05
ZZ92814		0.28	0.17	1.32	11.1	<0.2	<10	190	0.40	0.23	0.16	0.48	24.6	6.4	20	0.91
ZZ92815		0.27	0.19	0.84	6.4	<0.2	<10	150	0.16	0.12	0.06	0.24	17.55	2.1	10	0.74
ZZ92816		0.36	0.33	1.54	11.2	<0.2	<10	250	0.37	0.21	0.12	0.34	21.6	4.2	23	1.56
ZZ92817		0.30	0.13	1.51	9.7	<0.2	<10	200	0.30	0.21	0.11	0.35	24.2	5.1	27	1.36
ZZ92818		0.32	0.21	1.19	11.7	<0.2	<10	320	0.44	0.17	0.15	0.45	25.8	6.4	20	1.01
ZZ92819		0.30	0.18	1.65	13.6	<0.2	<10	450	0.58	0.24	0.20	0.20	40.5	10.7	30	1.40
ZZ92820		0.27	0.09	1.06	10.7	<0.2	<10	220	0.44	0.16	0.21	0.33	29.4	7.4	18	0.97
ZZ92821		0.25	0.09	1.11	12.3	<0.2	<10	170	0.27	0.17	0.19	0.25	24.3	8.0	19	0.94
ZZ92822		0.34	0.22	1.35	13.3	<0.2	<10	440	0.54	0.18	0.19	0.59	34.1	8.6	22	1.16
ZZ92823		0.30	0.08	1.47	15.7	<0.2	<10	210	0.39	0.21	0.18	0.47	27.5	9.8	25	1.26
ZZ33701		0.34	0.22	0.84	14.8	<0.2	<10	530	0.46	0.17	0.29	0.58	41.9	9.1	16	0.90
ZZ33702		0.21	0.91	1.21	55.2	<0.2	<10	590	0.46	0.34	0.65	1.14	26.6	8.7	16	1.77
ZZ33703		0.13	0.80	1.10	30.5	<0.2	<10	520	0.37	0.34	0.44	0.78	25.0	6.5	16	1.41
ZZ33704		0.38	2.47	1.24	258	<0.2	<10	550	0.49	0.80	0.47	2.63	28.6	7.7	17	1.90
ZZ33705		0.25	0.46	1.19	13.9	<0.2	<10	440	0.52	0.15	0.60	0.66	21.7	7.6	17	1.49
ZZ33706		0.21	0.93	0.85	29.8	<0.2	<10	330	0.37	0.15	0.45	0.68	27.3	5.3	13	1.54
ZZ33707		0.22	0.98	0.52	89.4	<0.2	<10	160	0.18	0.23	0.23	0.26	30.9	3.1	14	1.00
ZZ33708		0.45	0.45	0.83	32.8	<0.2	<10	380	0.46	0.17	0.45	0.97	31.0	5.6	16	1.26
ZZ33709		0.24	0.35	0.89	10.4	<0.2	<10	350	0.40	0.12	0.80	0.56	20.8	4.1	18	0.95
ZZ33710		0.35	0.28	0.86	11.9	<0.2	<10	370	0.36	0.19	0.40	0.44	22.5	5.7	15	0.89



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	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
	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	0.01	0.05
ZZ92591	27.5	1.90	2.93	0.05	<0.02	0.09	0.027	0.06	18.4	9.6	0.33	418	2.15	<0.01	0.75
ZZ92592	24.2	2.38	4.22	0.05	0.02	0.09	0.034	0.08	18.3	13.2	0.43	309	1.41	0.01	1.14
ZZ92593	21.4	2.74	5.50	<0.05	<0.02	0.07	0.033	0.07	14.5	15.7	0.39	205	1.72	0.01	1.35
ZZ92594	16.5	2.93	5.20	0.05	<0.02	0.05	0.029	0.07	15.5	17.7	0.42	321	1.89	0.01	1.38
ZZ92595	15.9	1.62	4.24	<0.05	<0.02	0.05	0.021	0.05	13.8	6.3	0.19	101	1.44	<0.01	0.28
ZZ92596	29.1	2.48	4.34	<0.05	<0.02	0.05	0.028	0.07	12.7	13.1	0.35	352	2.03	<0.01	0.50
ZZ92597	22.7	2.43	4.40	<0.05	0.02	0.05	0.030	0.06	14.9	13.8	0.35	299	2.68	0.01	1.07
ZZ92801	24.0	2.12	2.91	<0.05	0.07	0.13	0.027	0.08	18.6	12.3	0.34	413	2.13	0.01	1.03
ZZ92802	24.3	1.98	3.35	<0.05	0.06	0.13	0.024	0.05	14.8	12.0	0.30	429	2.31	0.02	1.08
ZZ92803	23.1	1.40	2.24	<0.05	0.04	0.09	0.012	0.05	11.7	5.0	0.15	338	1.07	0.02	0.59
ZZ92804	20.9	2.24	3.85	<0.05	0.04	0.15	0.023	0.05	16.8	14.7	0.38	448	1.56	0.01	1.04
ZZ92805	15.3	2.49	3.91	<0.05	0.05	0.05	0.027	0.06	14.0	16.8	0.40	257	1.19	0.01	1.29
ZZ92806	22.1	1.95	2.72	0.05	<0.02	0.04	0.032	0.07	19.2	12.2	0.83	377	4.50	0.01	0.38
ZZ92807	14.9	1.56	3.51	<0.05	<0.02	0.05	0.013	0.04	8.7	7.1	0.18	109	0.84	0.01	0.53
ZZ92808	12.0	2.44	5.24	<0.05	<0.02	0.05	0.023	0.06	13.1	12.2	0.28	226	1.64	0.01	1.79
ZZ92809	23.5	2.72	3.60	<0.05	0.05	0.06	0.034	0.07	13.4	16.9	0.30	341	2.02	0.01	0.89
ZZ92810	19.1	2.24	5.41	<0.05	<0.02	0.05	0.026	0.05	13.7	11.4	0.36	232	1.86	0.01	0.72
ZZ92811	8.4	1.92	4.54	<0.05	<0.02	0.06	0.020	0.03	12.6	8.4	0.28	98	0.90	0.01	0.33
ZZ92812	30.1	2.06	4.44	<0.05	<0.02	0.08	0.028	0.05	15.7	13.4	0.35	147	1.08	0.01	0.72
ZZ92813	20.8	3.24	3.16	<0.05	0.02	0.07	0.028	0.06	10.0	11.6	0.21	982	2.28	0.01	0.68
ZZ92814	19.1	2.14	3.45	<0.05	<0.02	0.05	0.021	0.05	12.0	11.2	0.28	363	1.62	0.01	0.95
ZZ92815	27.8	1.22	3.22	<0.05	<0.02	0.03	0.014	0.04	9.0	3.4	0.09	58	1.52	0.01	0.27
ZZ92816	19.8	2.04	4.28	<0.05	<0.02	0.10	0.025	0.07	11.3	11.2	0.28	167	1.94	0.01	0.48
ZZ92817	10.7	2.09	4.52	<0.05	<0.02	0.06	0.023	0.05	12.3	11.0	0.40	161	1.23	0.01	0.45
ZZ92818	18.3	1.95	3.32	<0.05	<0.02	0.06	0.020	0.05	13.1	9.1	0.28	289	1.58	0.01	0.48
ZZ92819	22.7	2.64	4.47	<0.05	0.04	0.05	0.026	0.06	19.9	14.0	0.51	323	1.47	0.01	1.31
ZZ92820	19.5	1.93	2.93	<0.05	0.02	0.06	0.024	0.06	14.5	9.5	0.32	275	1.69	0.01	0.91
ZZ92821	17.0	2.61	3.32	<0.05	<0.02	0.03	0.026	0.06	10.9	9.4	0.25	720	1.95	0.01	0.62
ZZ92822	23.7	2.26	3.56	<0.05	0.03	0.08	0.032	0.06	16.8	11.7	0.36	360	1.75	0.01	0.90
ZZ92823	20.8	2.78	4.08	<0.05	0.02	0.03	0.029	0.08	13.1	15.6	0.42	504	2.31	0.01	1.09
ZZ33701	29.8	2.13	2.76	0.05	0.02	0.12	0.025	0.06	21.1	11.0	0.29	430	2.22	0.01	0.73
ZZ33702	23.4	2.29	3.39	<0.05	0.04	0.20	0.047	0.08	13.7	11.2	0.28	644	2.24	0.02	0.76
ZZ33703	18.0	1.81	3.43	<0.05	0.03	0.15	0.032	0.06	13.1	9.7	0.25	399	1.52	0.02	0.66
ZZ33704	19.4	3.20	3.54	<0.05	0.05	0.50	0.066	0.07	15.0	11.1	0.25	395	2.54	0.01	0.63
ZZ33705	21.0	1.71	3.35	<0.05	0.05	0.08	0.027	0.07	11.4	11.0	0.36	396	2.01	0.01	0.68
ZZ33706	18.4	1.46	2.81	<0.05	0.03	0.09	0.023	0.06	14.6	8.4	0.22	295	1.67	0.01	0.54
ZZ33707	10.6	1.57	2.82	<0.05	0.02	0.07	0.025	0.06	16.5	6.9	0.20	132	3.22	0.01	0.44
ZZ33708	25.6	1.93	2.65	<0.05	0.04	0.13	0.026	0.07	16.0	11.6	0.31	168	3.09	0.01	0.56
ZZ33709	17.9	1.31	2.86	<0.05	0.03	0.08	0.020	0.04	11.2	9.4	0.29	236	1.15	0.01	0.56
ZZ33710	21.0	1.52	3.11	<0.05	0.02	0.08	0.020	0.05	12.0	9.6	0.24	251	1.54	0.02	0.62





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Sample Description	Method	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	
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOR	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92591		25.0	1130	30.1	6.0	0.001	0.01	4.42	3.0	1.2	1.1	26.8	<0.01	0.04	2.8	0.028
ZZ92592		30.2	980	21.6	9.7	0.001	0.01	2.23	2.9	1.1	0.8	24.0	<0.01	0.04	2.1	0.032
ZZ92593		21.8	510	14.9	10.9	<0.001	0.01	1.03	3.2	0.9	0.7	18.9	<0.01	0.04	1.8	0.027
ZZ92594		22.4	870	16.7	11.0	0.001	0.01	1.32	2.8	1.4	0.7	22.3	<0.01	0.05	1.7	0.037
ZZ92595		12.8	980	11.8	7.0	0.001	0.01	0.72	0.3	1.0	0.6	13.2	<0.01	0.03	<0.2	0.011
ZZ92596		19.7	1010	14.1	12.7	0.001	0.03	1.28	0.8	1.1	0.6	17.5	<0.01	0.04	0.2	0.016
ZZ92597		23.3	640	16.5	8.7	0.001	0.01	1.50	2.5	1.4	0.7	16.4	<0.01	0.05	1.9	0.019
ZZ92801		20.9	940	14.6	7.1	0.001	0.02	1.84	3.5	1.5	0.5	33.9	<0.01	0.04	4.9	0.024
ZZ92802		20.0	900	11.3	7.2	0.002	0.05	2.60	2.8	3.3	0.5	35.4	<0.01	0.03	2.2	0.020
ZZ92803		12.5	760	6.3	4.9	<0.001	0.02	1.15	2.2	1.4	0.3	24.5	<0.01	0.02	1.4	0.030
ZZ92804		18.7	850	11.3	7.8	0.001	0.03	1.78	3.2	1.4	0.5	29.2	<0.01	0.02	2.2	0.023
ZZ92805		19.3	840	12.0	8.4	<0.001	0.01	1.09	2.7	1.1	0.7	16.3	<0.01	0.02	3.0	0.021
ZZ92806		27.1	3100	36.4	6.0	0.001	0.01	7.50	2.7	2.7	2.4	42.8	<0.01	0.04	3.3	0.018
ZZ92807		7.9	470	8.7	5.1	<0.001	0.02	0.46	0.4	0.6	0.4	21.1	<0.01	0.02	<0.2	0.018
ZZ92808		12.7	430	13.6	10.8	<0.001	0.01	0.97	2.0	0.6	0.7	9.8	<0.01	0.04	2.0	0.038
ZZ92809		21.8	880	13.7	11.2	<0.001	0.02	1.36	2.3	1.2	0.5	12.4	<0.01	0.03	2.7	0.012
ZZ92810		14.0	860	14.2	7.9	<0.001	0.03	1.07	0.8	1.0	0.9	13.2	<0.01	0.03	0.2	0.021
ZZ92811		9.1	990	11.3	4.9	<0.001	0.02	0.42	0.3	1.2	0.6	12.3	<0.01	0.02	<0.2	0.011
ZZ92812		16.6	930	12.2	6.5	<0.001	0.02	0.89	1.3	1.2	0.6	18.5	<0.01	0.03	0.3	0.020
ZZ92813		20.3	860	14.9	8.4	0.001	0.02	1.52	2.1	1.1	0.4	24.5	0.01	0.04	1.6	0.011
ZZ92814		16.2	750	11.3	6.2	0.001	0.01	1.06	1.5	1.3	0.5	14.4	<0.01	0.03	0.8	0.024
ZZ92815		7.7	610	6.6	5.4	0.001	0.01	0.62	0.2	0.6	0.4	11.5	<0.01	0.02	<0.2	0.010
ZZ92816		15.3	890	12.4	10.4	<0.001	0.02	0.98	0.3	1.3	0.6	12.2	<0.01	0.03	<0.2	0.011
ZZ92817		13.3	910	13.1	9.4	<0.001	0.02	0.71	0.6	0.8	0.6	10.2	<0.01	0.01	<0.2	0.018
ZZ92818		17.0	830	10.8	6.0	<0.001	0.01	1.18	0.7	1.3	0.5	15.1	<0.01	0.03	0.2	0.016
ZZ92819		26.6	720	12.6	9.5	<0.001	0.01	1.02	3.9	0.9	0.6	18.0	<0.01	0.03	3.2	0.035
ZZ92820		22.6	880	10.7	6.4	0.001	0.01	1.28	2.2	1.1	0.4	19.1	<0.01	0.04	2.5	0.027
ZZ92821		17.9	1390	16.5	8.2	0.001	0.02	1.20	0.8	0.9	0.4	15.6	<0.01	0.04	0.3	0.016
ZZ92822		25.1	820	15.8	7.8	0.001	0.01	1.28	2.8	1.4	0.6	17.3	<0.01	0.03	2.2	0.021
ZZ92823		24.4	1020	17.5	10.1	<0.001	0.01	1.50	2.5	1.3	0.6	16.5	<0.01	0.04	2.0	0.025
ZZ33701		25.1	930	14.9	5.4	0.001	0.01	2.07	4.0	1.4	0.4	28.4	<0.01	0.04	5.0	0.024
ZZ33702		20.8	1040	61.3	10.7	0.002	0.04	4.52	2.9	1.8	1.1	42.7	<0.01	0.04	1.8	0.012
ZZ33703		15.9	960	53.9	10.2	0.001	0.05	3.53	2.5	1.2	0.8	35.7	<0.01	0.03	1.7	0.015
ZZ33704		19.2	1070	126.5	11.5	0.003	0.06	8.53	3.0	1.9	2.0	38.7	<0.01	0.05	2.5	0.011
ZZ33705		19.3	810	20.5	10.3	0.001	0.05	3.06	2.6	1.0	0.9	34.8	<0.01	0.02	2.4	0.016
ZZ33706		16.7	770	36.8	8.0	0.001	0.06	4.14	2.2	2.0	0.8	28.6	<0.01	0.02	1.6	0.013
ZZ33707		9.5	640	20.1	7.9	0.001	0.05	4.28	1.3	2.2	1.5	22.4	<0.01	0.08	2.7	0.014
ZZ33708		24.7	1180	18.2	7.6	0.002	0.02	3.63	3.5	1.6	0.7	35.8	<0.01	0.02	3.7	0.015
ZZ33709		13.2	1290	14.2	7.6	0.002	0.08	1.97	1.8	1.5	0.6	42.5	<0.01	0.02	1.0	0.016
ZZ33710		16.3	650	10.8	7.6	0.001	0.03	1.10	2.3	0.8	0.5	32.5	<0.01	0.02	1.7	0.021



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92591		0.12	0.99	45	0.16	11.75	113	<0.5	0.003
ZZ92592		0.18	1.09	48	0.82	8.27	145	<0.5	0.003
ZZ92593		0.20	0.84	62	0.29	7.85	91	<0.5	0.003
ZZ92594		0.20	0.91	61	0.69	6.53	97	<0.5	0.002
ZZ92595		0.16	0.86	42	0.16	4.66	51	<0.5	0.002
ZZ92596		0.19	0.98	56	0.23	5.16	138	<0.5	0.004
ZZ92597		0.19	1.22	55	0.37	5.98	102	0.6	0.003
ZZ92801		0.17	1.17	38	0.13	10.15	110	2.4	0.005
ZZ92802		0.15	1.56	34	0.20	9.61	71	2.1	0.002
ZZ92803		0.10	0.77	34	0.13	9.88	56	1.4	0.002
ZZ92804		0.13	1.95	42	0.24	9.97	70	0.9	0.003
ZZ92805		0.16	1.06	46	0.25	6.27	73	1.2	0.002
ZZ92806		0.19	1.57	51	0.09	13.80	128	0.8	0.004
ZZ92807		0.10	0.51	36	0.28	2.54	34	<0.5	0.001
ZZ92808		0.15	0.57	51	0.37	3.04	66	<0.5	0.001
ZZ92809		0.18	0.72	42	0.14	4.79	108	1.1	0.003
ZZ92810		0.16	1.44	54	0.41	4.60	64	<0.5	0.002
ZZ92811		0.14	0.95	43	0.28	5.70	34	<0.5	0.002
ZZ92812		0.12	2.21	43	0.20	7.83	56	<0.5	0.002
ZZ92813		0.18	0.69	45	0.13	4.78	116	0.6	0.002
ZZ92814		0.14	0.85	42	0.25	4.68	75	<0.5	0.002
ZZ92815		0.10	0.51	34	0.24	2.17	38	<0.5	0.002
ZZ92816		0.23	0.88	51	0.19	3.89	88	<0.5	0.005
ZZ92817		0.16	1.12	47	0.23	4.21	89	<0.5	0.003
ZZ92818		0.15	1.07	38	0.24	5.61	80	<0.5	0.003
ZZ92819		0.17	1.33	49	0.34	10.05	87	0.9	0.003
ZZ92820		0.13	1.04	36	0.21	6.26	83	0.6	0.003
ZZ92821		0.15	0.68	45	0.17	4.35	92	<0.5	0.003
ZZ92822		0.16	1.18	46	0.35	9.70	103	0.7	0.004
ZZ92823		0.19	0.82	53	0.21	5.36	114	0.7	0.002
ZZ33701		0.15	1.00	34	0.12	12.40	108	1.1	0.004
ZZ33702		0.20	1.26	41	0.12	9.16	129	1.1	0.004
ZZ33703		0.17	1.23	44	0.11	8.60	98	0.9	0.003
ZZ33704		0.25	1.57	40	0.39	11.45	170	1.8	0.004
ZZ33705		0.23	1.12	43	0.10	9.15	91	2.1	0.002
ZZ33706		0.14	1.53	31	0.10	8.45	86	1.0	0.002
ZZ33707		0.56	0.55	34	0.13	3.93	67	0.9	0.008
ZZ33708		0.20	1.36	40	0.10	12.10	133	1.7	0.004
ZZ33709		0.14	1.31	35	0.17	8.59	74	1.2	0.002
ZZ33710		0.12	0.91	36	0.11	6.19	74	0.6	0.003



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ33711		0.30	0.26	0.88	9.6	<0.2	<10	400	0.36	0.16	0.32	0.54	23.2	4.6	15	0.85
ZZ33712		0.23	0.23	0.96	10.2	<0.2	<10	330	0.33	0.17	0.46	0.36	25.1	6.2	18	1.02
ZZ33713		0.31	0.07	0.27	2.1	<0.2	<10	110	0.11	0.04	0.26	0.21	8.57	2.1	4	0.23
ZZ33714		0.28	0.20	0.95	13.9	<0.2	<10	400	0.42	0.12	0.60	0.80	26.5	5.8	17	0.89
ZZ33715		0.21	0.25	0.88	26.4	<0.2	<10	430	0.37	0.12	1.08	0.79	21.0	5.2	14	0.74
ZZ33716		0.27	0.17	0.50	3.8	<0.2	<10	200	0.21	0.07	0.54	0.52	12.05	2.6	8	0.55
ZZ33717		0.29	0.52	1.30	8.1	<0.2	<10	720	0.58	0.19	0.34	0.83	39.1	5.8	24	1.23
ZZ33718		0.17	0.16	1.11	12.3	<0.2	<10	380	0.34	0.21	0.07	0.26	24.9	9.5	24	1.15
ZZ33719		0.20	0.32	0.43	2.5	<0.2	<10	110	0.09	0.09	0.08	0.16	9.79	1.1	8	0.59
ZZ33720		0.29	0.36	0.83	6.5	<0.2	<10	290	0.26	0.13	0.17	0.35	16.55	5.4	14	0.99
ZZ33721		0.24	0.22	0.85	5.9	<0.2	<10	200	0.25	0.16	0.16	0.15	19.20	2.0	13	0.94
ZZ33722		0.36	0.07	1.48	12.3	<0.2	<10	220	0.47	0.19	0.15	0.45	26.8	7.7	23	1.18
ZZ33723		0.30	0.18	1.30	11.6	<0.2	<10	290	0.62	0.12	0.17	0.39	24.4	7.7	17	1.08
ZZ33724		0.32	0.26	1.28	10.7	<0.2	<10	470	0.50	0.18	0.22	0.26	30.8	6.6	22	1.02
ZZ33725		0.33	0.33	1.21	13.2	<0.2	<10	320	0.55	0.18	0.35	0.32	39.7	7.8	27	1.63
ZZ33726		0.31	0.40	0.85	13.1	<0.2	<10	310	0.38	0.13	0.55	0.83	23.0	5.7	16	1.28
ZZ33727		0.29	0.23	0.42	5.1	<0.2	<10	130	0.17	0.05	0.61	0.18	9.40	2.7	6	0.56
ZZ33728		0.34	0.49	1.01	11.0	<0.2	<10	350	0.42	0.15	0.65	0.66	28.9	6.4	17	0.99
ZZ33729		0.34	0.25	0.80	7.8	<0.2	<10	360	0.36	0.13	0.66	0.32	22.7	4.6	14	0.69
ZZ33731		0.24	0.27	0.80	5.5	<0.2	<10	270	0.33	0.08	0.46	0.54	14.55	3.9	7	0.71
ZZ33732		0.29	0.20	1.37	14.6	<0.2	<10	210	0.52	0.21	0.23	0.29	37.5	9.0	20	1.51
ZZ33733		0.39	0.22	1.63	20.0	<0.2	<10	230	0.54	0.22	0.14	0.43	31.9	8.1	24	1.75
ZZ33734		0.33	0.33	1.69	20.4	<0.2	<10	350	0.88	0.22	0.16	0.69	39.2	12.4	20	1.94
ZZ33735		0.37	0.46	1.71	14.2	<0.2	<10	210	0.51	0.24	0.11	0.30	33.4	5.7	24	1.34
ZZ33736		0.38	0.24	1.70	15.2	<0.2	<10	360	0.71	0.24	0.35	0.22	35.9	10.2	28	1.55
ZZ33737		0.34	0.30	1.52	15.2	<0.2	<10	210	0.52	0.21	0.17	0.22	32.4	9.5	23	1.47
ZZ33738		0.35	0.57	1.16	25.8	<0.2	<10	740	0.92	0.23	0.45	1.15	38.3	12.2	19	1.74
ZZ33739		0.29	0.15	1.33	17.6	<0.2	<10	390	0.69	0.24	0.26	0.52	45.6	8.9	20	1.56
ZZ33740		0.28	0.30	1.48	14.8	<0.2	<10	250	0.72	0.18	0.30	0.52	42.3	9.2	24	2.08
ZZ33741		0.37	0.10	0.87	12.6	<0.2	<10	370	0.56	0.15	0.27	0.34	39.5	8.2	14	0.83
ZZ33742		0.29	0.34	1.73	19.6	<0.2	<10	320	0.80	0.22	0.17	0.41	39.2	8.8	21	1.77
ZZ33743		0.39	0.16	1.55	13.6	<0.2	<10	390	0.71	0.23	0.28	0.15	44.7	9.2	26	1.48
ZZ33744		0.33	0.22	1.44	13.4	<0.2	<10	390	0.56	0.21	0.29	0.24	40.3	8.0	22	1.59
ZZ33745		0.44	0.25	1.17	19.0	<0.2	<10	440	0.64	0.18	0.18	0.44	41.1	10.5	18	1.03



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**CERTIFICATE OF ANALYSIS WH14134314**

Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ33711		23.2	1.42	2.73	<0.05	0.02	0.10	0.022	0.05	12.3	10.0	0.22	113	0.82	0.02	0.58
ZZ33712		13.0	1.54	3.39	<0.05	0.02	0.11	0.023	0.06	12.9	11.5	0.29	251	1.14	0.01	0.76
ZZ33713		12.9	0.62	1.35	<0.05	<0.02	0.02	0.006	0.02	3.7	1.7	0.06	100	0.38	0.03	0.19
ZZ33714		15.2	1.72	3.05	<0.05	0.03	0.12	0.021	0.06	13.7	12.3	0.28	230	1.36	0.01	0.63
ZZ33715		13.5	2.69	2.79	<0.05	0.03	0.07	0.018	0.05	11.2	10.0	0.27	441	1.60	0.01	0.60
ZZ33716		15.1	0.72	1.78	<0.05	0.02	0.05	0.011	0.04	5.7	4.8	0.15	75	0.60	0.03	0.36
ZZ33717		35.1	1.99	3.74	0.05	0.03	0.13	0.029	0.08	19.6	16.9	0.33	139	0.88	0.01	0.76
ZZ33718		20.3	2.27	4.68	<0.05	<0.02	0.02	0.025	0.08	13.5	12.3	0.25	498	2.48	0.01	0.70
ZZ33719		6.4	0.54	2.54	<0.05	<0.02	0.03	0.005	0.04	4.8	3.0	0.07	41	0.45	0.01	0.41
ZZ33720		17.6	1.27	3.15	<0.05	<0.02	0.07	0.014	0.05	8.7	9.4	0.16	372	1.13	0.02	0.38
ZZ33721		11.7	1.29	3.72	<0.05	<0.02	0.06	0.013	0.04	10.1	5.0	0.11	103	0.85	0.01	0.66
ZZ33722		17.0	2.35	4.28	<0.05	0.02	0.04	0.028	0.06	13.9	15.5	0.35	242	1.60	0.01	1.31
ZZ33723		29.4	2.36	2.73	<0.05	0.06	0.06	0.032	0.06	12.1	18.4	0.24	194	1.74	<0.01	0.51
ZZ33724		17.6	2.00	4.27	<0.05	0.02	0.04	0.026	0.05	15.8	16.2	0.33	169	1.27	0.01	0.96
ZZ33725		27.5	2.16	4.16	<0.05	0.04	0.06	0.026	0.08	20.3	19.4	0.59	217	2.94	0.01	0.91
ZZ33726		30.2	1.43	2.81	<0.05	0.05	0.06	0.025	0.07	12.0	10.0	0.29	821	1.81	0.02	0.43
ZZ33727		11.4	0.80	1.79	<0.05	0.02	0.03	0.010	0.03	4.5	2.9	0.11	169	1.00	0.03	0.35
ZZ33728		22.8	1.59	3.33	<0.05	0.03	0.10	0.024	0.06	15.3	12.8	0.32	485	1.86	0.02	0.76
ZZ33729		20.0	1.44	2.66	<0.05	0.02	0.08	0.016	0.05	12.7	8.6	0.27	174	0.76	0.02	0.73
ZZ33731		22.0	1.06	2.27	<0.05	0.03	0.08	0.012	0.04	7.2	6.0	0.10	242	2.01	0.03	0.34
ZZ33732		17.2	2.26	4.09	<0.05	0.02	0.06	0.028	0.06	18.8	14.8	0.34	224	2.06	0.01	0.87
ZZ33733		17.2	2.72	4.57	<0.05	0.02	0.06	0.030	0.07	16.4	14.8	0.32	334	2.29	<0.01	0.95
ZZ33734		27.6	2.52	3.76	<0.05	0.05	0.07	0.036	0.09	19.8	15.4	0.33	305	2.68	0.01	0.65
ZZ33735		14.6	2.49	5.29	<0.05	0.03	0.05	0.028	0.05	17.1	18.5	0.32	184	1.65	<0.01	1.45
ZZ33736		25.6	2.45	5.34	0.06	0.04	0.10	0.034	0.05	18.6	14.7	0.43	420	1.88	0.02	0.74
ZZ33737		17.3	2.39	4.34	<0.05	0.04	0.06	0.026	0.06	15.9	14.1	0.39	344	1.98	<0.01	1.06
ZZ33738		49.2	3.35	3.74	0.07	0.04	0.22	0.041	0.10	20.1	13.0	0.32	577	3.25	0.02	0.38
ZZ33739		27.4	2.49	3.78	0.06	0.04	0.05	0.029	0.09	22.2	13.6	0.39	446	1.75	<0.01	0.78
ZZ33740		25.5	2.37	4.59	0.06	0.03	0.09	0.025	0.09	21.2	15.3	0.47	343	1.64	0.01	1.34
ZZ33741		20.9	1.94	2.71	<0.05	0.02	0.06	0.022	0.06	19.4	11.1	0.27	372	1.75	<0.01	0.49
ZZ33742		17.1	2.40	4.77	<0.05	0.03	0.05	0.033	0.09	19.6	15.7	0.39	285	1.50	0.01	1.10
ZZ33743		20.4	2.49	4.60	0.06	0.04	0.07	0.029	0.07	22.1	14.0	0.45	358	1.13	0.01	1.06
ZZ33744		20.0	2.48	4.39	0.07	0.03	0.09	0.029	0.07	20.2	14.2	0.38	423	1.65	<0.01	0.93
ZZ33745		25.9	2.31	3.39	0.05	<0.02	0.09	0.028	0.06	19.9	12.5	0.30	445	2.07	<0.01	0.50



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ33711		16.5	690	10.4	7.8	0.002	0.04	1.01	2.8	1.1	0.4	28.0	<0.01	0.03	2.2	0.014
ZZ33712		13.9	790	11.0	9.1	0.002	0.05	0.82	2.6	1.2	0.5	33.7	<0.01	0.03	2.2	0.017
ZZ33713		3.7	660	3.2	2.5	<0.001	0.04	0.47	0.7	0.4	<0.2	17.4	<0.01	0.01	0.4	0.031
ZZ33714		18.3	890	15.0	8.8	0.003	0.11	2.22	2.7	1.4	0.4	33.6	<0.01	0.02	2.2	0.014
ZZ33715		16.4	840	12.5	7.0	0.005	0.13	2.54	2.2	1.8	0.6	56.9	<0.01	0.03	1.4	0.013
ZZ33716		9.9	450	6.6	5.4	0.002	0.09	1.02	1.4	1.1	0.4	30.2	<0.01	0.01	0.7	0.019
ZZ33717		29.2	1030	10.1	10.2	0.001	0.08	0.69	3.5	4.1	0.4	48.2	<0.01	0.03	1.6	0.017
ZZ33718		21.8	740	11.4	10.4	<0.001	0.04	0.97	1.7	1.4	0.6	19.0	<0.01	0.04	1.0	0.019
ZZ33719		4.0	320	4.0	5.6	<0.001	0.03	0.15	0.5	0.2	0.3	11.2	<0.01	<0.01	0.2	0.017
ZZ33720		13.5	570	7.0	7.6	<0.001	0.03	0.47	1.1	1.1	0.3	19.7	<0.01	0.01	0.3	0.017
ZZ33721		8.5	700	8.7	9.6	<0.001	0.04	0.37	0.8	0.7	0.5	25.4	<0.01	0.01	0.2	0.019
ZZ33722		21.3	560	11.0	8.5	<0.001	0.03	0.91	2.6	0.8	0.5	17.5	<0.01	0.03	2.9	0.030
ZZ33723		25.8	750	9.5	8.4	0.001	0.03	1.10	3.2	1.0	0.3	20.6	<0.01	0.03	3.5	0.006
ZZ33724		20.9	620	9.5	8.3	<0.001	0.02	0.57	2.8	0.8	0.5	22.3	<0.01	0.03	2.7	0.022
ZZ33725		28.3	860	19.1	11.1	0.001	0.02	1.77	3.5	1.8	0.8	29.7	<0.01	0.03	4.8	0.033
ZZ33726		23.6	770	19.6	7.4	0.002	0.06	2.57	2.3	3.1	1.3	34.9	<0.01	0.02	1.9	0.021
ZZ33727		7.0	490	5.2	3.4	<0.001	0.05	1.12	0.9	0.7	0.4	28.2	<0.01	0.01	0.4	0.029
ZZ33728		19.1	890	14.2	7.8	0.001	0.04	1.68	3.0	1.5	1.2	35.9	<0.01	0.03	2.2	0.023
ZZ33729		14.9	690	7.7	5.2	0.001	0.04	0.85	2.2	1.1	0.4	34.2	<0.01	0.03	1.3	0.034
ZZ33731		10.5	800	4.5	4.1	0.004	0.08	1.67	1.0	3.3	0.2	20.4	<0.01	0.01	0.4	0.017
ZZ33732		23.2	1060	15.6	8.8	<0.001	0.03	1.37	2.3	1.7	0.5	24.1	<0.01	0.02	2.1	0.024
ZZ33733		20.7	1080	19.1	12.1	<0.001	0.02	1.34	2.8	0.8	0.6	20.3	<0.01	0.04	4.2	0.020
ZZ33734		33.3	760	18.0	12.0	<0.001	0.02	1.83	3.4	1.4	0.6	22.6	<0.01	0.04	6.9	0.014
ZZ33735		17.0	510	20.4	10.2	<0.001	0.02	0.82	3.1	1.0	0.7	12.6	0.01	0.04	4.8	0.038
ZZ33736		24.3	1030	12.6	11.0	0.001	0.03	1.24	3.5	1.4	0.9	24.7	0.01	0.04	2.2	0.026
ZZ33737		18.3	730	12.5	9.2	<0.001	0.02	1.48	3.0	1.5	0.6	17.0	<0.01	0.05	4.0	0.026
ZZ33738		42.7	940	19.4	9.9	0.001	0.02	3.32	7.1	1.4	0.6	38.1	0.01	0.06	6.4	0.013
ZZ33739		30.6	1120	15.2	9.1	0.002	0.01	2.05	4.0	2.0	0.6	25.0	<0.01	0.03	5.6	0.031
ZZ33740		31.0	1110	12.6	10.1	<0.001	0.02	2.02	3.5	1.4	0.6	24.7	<0.01	0.03	3.4	0.040
ZZ33741		19.9	800	11.7	5.8	0.002	0.01	1.64	2.8	1.3	0.4	23.0	<0.01	0.04	4.4	0.016
ZZ33742		21.5	570	21.8	11.6	<0.001	0.01	1.74	3.3	1.0	0.8	18.2	<0.01	0.03	5.3	0.028
ZZ33743		22.5	830	12.2	7.7	<0.001	0.01	1.19	4.3	1.0	0.7	22.4	<0.01	0.04	4.6	0.037
ZZ33744		21.4	700	12.3	9.1	0.001	0.01	1.30	4.0	1.0	0.6	21.7	<0.01	0.05	4.6	0.028
ZZ33745		23.7	620	16.9	7.7	<0.001	0.02	2.27	3.0	1.5	0.5	20.4	<0.01	0.03	2.6	0.016



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ33711		0.12	1.13	31	0.15	8.11	77	0.9	0.003
ZZ33712		0.15	1.48	37	0.14	6.65	74	0.7	0.002
ZZ33713		0.03	0.34	23	<0.05	2.28	20	0.5	<0.001
ZZ33714		0.13	1.27	36	0.37	9.26	111	1.1	0.005
ZZ33715		0.11	1.33	29	0.20	7.27	98	1.1	0.002
ZZ33716		0.07	0.80	20	<0.05	4.44	54	0.7	0.002
ZZ33717		0.15	1.78	36	0.23	18.90	83	0.9	0.004
ZZ33718		0.14	0.56	53	0.16	3.97	77	<0.5	0.004
ZZ33719		0.06	0.26	15	0.09	1.37	13	<0.5	0.001
ZZ33720		0.11	0.67	34	0.14	3.90	53	<0.5	0.002
ZZ33721		0.11	0.63	28	0.21	3.10	23	<0.5	0.003
ZZ33722		0.14	0.74	44	0.25	4.54	78	0.8	0.002
ZZ33723		0.18	0.71	35	0.09	5.78	120	1.9	0.004
ZZ33724		0.12	0.80	43	0.39	8.41	76	0.5	0.003
ZZ33725		0.18	1.03	46	0.16	11.05	100	1.9	0.010
ZZ33726		0.16	0.81	36	0.08	8.35	86	1.7	0.002
ZZ33727		0.08	0.38	24	0.05	3.15	29	0.9	<0.001
ZZ33728		0.16	1.27	34	0.13	10.15	88	1.2	0.002
ZZ33729		0.09	0.91	30	0.30	9.61	55	0.5	0.001
ZZ33731		0.09	1.32	21	0.07	5.16	41	0.8	<0.001
ZZ33732		0.19	1.48	41	0.25	7.28	92	0.6	0.001
ZZ33733		0.21	0.93	54	0.22	5.04	113	0.9	0.001
ZZ33734		0.29	1.09	50	0.12	6.62	132	2.4	0.003
ZZ33735		0.15	0.90	50	0.29	7.41	68	1.4	0.002
ZZ33736		0.19	2.63	50	0.37	10.05	92	1.0	0.002
ZZ33737		0.18	1.16	44	0.28	5.33	82	1.3	0.002
ZZ33738		0.29	1.05	44	0.16	16.05	134	2.1	0.004
ZZ33739		0.20	1.48	40	0.21	11.25	118	1.4	0.003
ZZ33740		0.20	1.23	39	0.22	10.30	102	0.8	0.008
ZZ33741		0.09	1.01	30	0.14	8.71	81	0.6	0.002
ZZ33742		0.16	0.97	42	0.36	6.42	78	1.0	0.003
ZZ33743		0.15	1.76	45	0.42	9.80	89	1.1	0.012
ZZ33744		0.16	1.20	42	0.27	9.46	81	0.8	0.002
ZZ33745		0.14	0.92	36	0.14	8.82	98	<0.5	0.003

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



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**CERTIFICATE OF ANALYSIS WH14134314**

<b>CERTIFICATE COMMENTS</b>	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41





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

Page: 1  
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 Plus Appendix Pages  
 Finalized Date: 25-SEP-2014  
 Account: RANSIL

**CERTIFICATE WH14134315**

Project: SNAIL

This report is for 196 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2014.

The following have access to data associated with this certificate:

MATT DUMALA	JOAN MARIACHER
-------------	----------------

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

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

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

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
ZZ92601		0.26	0.63	1.20	10.8	<0.2	<10	560	0.72	0.21	1.12	1.11	29.2	9.2	24	1.08
ZZ92602		0.24	0.28	0.93	10.1	<0.2	<10	250	0.25	0.20	0.23	0.28	19.90	4.4	18	0.85
ZZ92603		0.25	0.51	1.18	14.5	<0.2	<10	590	0.67	0.21	0.56	0.91	32.8	9.2	22	1.11
ZZ92604		0.19	0.11	0.38	3.6	<0.2	<10	270	0.16	0.06	0.96	0.45	8.37	2.4	5	0.32
ZZ92605		0.22	0.29	0.98	11.3	<0.2	<10	310	0.39	0.15	0.59	0.34	22.8	4.0	17	1.01
ZZ92606		0.21	0.88	0.95	23.7	<0.2	<10	270	0.56	0.14	1.15	1.06	27.8	5.7	19	1.58
ZZ92607		0.20	0.77	0.91	17.7	<0.2	<10	300	0.59	0.13	2.49	0.85	23.3	5.1	18	1.85
ZZ92608		0.28	0.24	1.07	10.4	<0.2	<10	150	0.32	0.21	0.08	0.24	21.7	3.2	16	1.07
ZZ92609		0.25	0.59	1.13	19.6	<0.2	<10	300	0.73	0.18	1.04	1.14	33.8	5.9	22	1.65
ZZ92610		0.30	0.55	1.00	11.2	<0.2	<10	280	0.63	0.16	0.67	0.73	37.1	6.3	18	1.53
ZZ92611		0.25	0.27	1.12	15.1	<0.2	<10	410	0.50	0.17	0.61	0.66	27.5	10.2	16	1.27
ZZ92612		0.30	0.49	0.87	6.7	<0.2	<10	220	0.43	0.11	0.37	0.27	14.70	3.2	8	1.25
ZZ92613		0.32	0.28	1.04	13.3	<0.2	<10	350	0.37	0.15	0.68	0.56	23.8	5.2	15	1.11
ZZ92614		0.32	0.28	0.94	39.2	<0.2	<10	310	0.31	0.13	0.44	1.25	26.7	5.0	14	1.76
ZZ92615		0.24	1.12	1.23	113.0	<0.2	<10	360	0.47	0.17	0.30	1.84	25.0	6.9	17	2.39
ZZ92616		0.29	0.50	1.52	16.1	<0.2	<10	470	0.66	0.20	0.58	1.62	30.4	6.3	21	1.50
ZZ92617		0.27	0.40	1.21	12.0	<0.2	<10	380	0.57	0.23	0.11	1.02	33.0	3.2	14	1.42
ZZ92618		0.24	0.37	1.29	11.6	<0.2	<10	350	0.41	0.19	0.53	0.31	22.9	8.5	20	1.26
ZZ92619		0.24	0.98	1.31	134.5	<0.2	<10	360	0.61	0.19	0.37	1.21	27.0	6.0	21	1.94
ZZ92620		0.24	1.07	1.13	91.2	<0.2	<10	300	0.54	0.18	0.39	1.46	37.4	7.4	27	2.21
ZZ92621		0.29	0.36	0.79	6.3	<0.2	<10	220	0.28	0.10	0.31	0.22	13.25	3.6	13	0.80
ZZ92622		0.29	0.13	0.74	9.6	<0.2	<10	340	0.43	0.12	0.27	0.47	35.2	7.4	11	1.06
ZZ92623		0.26	0.11	1.25	10.5	<0.2	<10	130	0.38	0.20	0.10	0.27	23.6	4.4	19	1.07
ZZ92624		0.24	0.07	0.84	5.1	<0.2	<10	160	0.19	0.14	0.16	0.12	16.95	2.4	13	0.80
ZZ92625		0.25	0.13	0.95	8.6	<0.2	<10	230	0.32	0.18	0.17	0.27	21.3	3.8	15	1.05
ZZ92626		0.31	0.12	1.21	13.6	<0.2	<10	400	0.64	0.21	0.21	0.53	31.7	10.1	20	1.00
ZZ92627		0.22	0.30	0.94	4.9	<0.2	<10	350	0.32	0.13	0.26	0.28	14.20	2.1	12	0.95
ZZ92628		0.24	0.06	1.02	6.9	<0.2	<10	330	0.28	0.16	0.16	0.21	23.3	2.6	14	1.46
ZZ92629		0.25	0.14	0.88	8.4	<0.2	<10	300	0.38	0.15	0.27	0.37	25.7	5.6	17	0.71
ZZ92630		0.35	0.31	1.34	13.3	<0.2	<10	610	0.62	0.24	0.37	0.50	33.4	10.2	26	1.19
ZZ92631		0.20	0.12	1.19	9.1	<0.2	<10	180	0.35	0.20	0.14	0.29	21.6	5.5	19	1.32
ZZ92632		0.27	0.13	1.45	14.2	<0.2	<10	280	0.55	0.23	0.17	0.37	30.4	9.3	23	1.33
ZZ92633		0.27	0.63	1.05	15.9	<0.2	<10	340	0.45	0.18	0.70	1.15	30.3	6.3	23	0.98
ZZ92634		0.30	2.31	1.08	36.8	<0.2	<10	250	0.40	0.17	0.44	1.10	30.8	6.0	23	1.49
ZZ92635		0.21	0.40	0.86	11.5	<0.2	<10	370	0.36	0.15	1.05	0.48	19.75	4.6	19	0.91
ZZ92636		0.29	0.50	0.91	17.6	<0.2	<10	350	0.41	0.22	0.33	0.60	24.2	4.3	17	1.15
ZZ92637		0.30	0.56	1.02	27.6	<0.2	<10	410	0.47	0.23	0.69	0.90	23.3	5.0	16	1.14
ZZ92638		0.22	0.30	0.95	19.3	<0.2	<10	370	0.39	0.21	0.41	0.46	24.7	4.1	15	0.96
ZZ92639		0.19	0.52	0.96	23.0	<0.2	<10	410	0.38	0.18	0.48	0.88	24.5	5.2	15	1.09
ZZ92640		0.21	0.42	1.02	10.1	<0.2	<10	460	0.47	0.22	0.48	1.24	26.4	5.4	17	1.01



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method	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	
	Analyte Units LOR	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
ZZ92601		37.6	2.01	3.78	0.06	0.05	0.16	0.031	0.08	15.2	20.2	0.40	233	1.65	0.01	0.94
ZZ92602		14.3	1.57	4.40	<0.05	<0.02	0.04	0.019	0.07	10.3	9.1	0.26	158	1.70	<0.01	0.89
ZZ92603		39.1	2.41	3.86	0.05	0.04	0.19	0.034	0.10	17.1	19.1	0.36	355	2.48	0.01	1.01
ZZ92604		13.3	0.87	1.29	<0.05	0.02	0.04	0.009	0.03	4.1	2.8	0.12	227	0.32	0.02	0.31
ZZ92605		19.0	1.42	3.37	<0.05	0.04	0.10	0.030	0.05	11.9	11.6	0.30	181	1.24	0.01	0.76
ZZ92606		23.8	1.59	3.09	0.05	0.06	0.10	0.035	0.07	15.6	13.8	0.71	535	2.48	0.01	0.54
ZZ92607		25.5	1.40	3.02	0.05	0.06	0.09	0.032	0.05	11.7	12.6	0.82	615	1.13	<0.01	0.38
ZZ92608		11.8	2.03	4.95	<0.05	<0.02	0.04	0.022	0.04	11.1	14.2	0.18	103	1.39	<0.01	1.22
ZZ92609		36.4	1.75	3.61	0.05	0.08	0.10	0.040	0.09	18.8	16.6	0.51	159	1.29	0.01	0.75
ZZ92610		20.5	1.87	3.38	0.06	0.06	0.11	0.028	0.09	19.7	15.2	0.41	254	1.44	0.01	1.03
ZZ92611		14.0	4.07	3.54	<0.05	0.05	0.12	0.024	0.04	14.2	13.8	0.27	491	1.83	0.01	0.90
ZZ92612		17.4	1.25	2.96	<0.05	0.04	0.11	0.019	0.05	8.1	8.6	0.13	87	0.68	0.02	0.60
ZZ92613		12.9	1.64	3.41	<0.05	0.04	0.06	0.023	0.05	12.2	12.5	0.27	409	2.54	0.01	0.70
ZZ92614		10.7	1.68	3.32	<0.05	0.03	0.09	0.021	0.04	13.6	12.2	0.26	279	1.77	0.01	0.72
ZZ92615		19.8	1.63	3.78	<0.05	0.04	0.11	0.030	0.05	13.5	12.2	0.27	739	2.23	0.01	0.59
ZZ92616		21.8	1.71	4.45	0.05	0.04	0.13	0.029	0.06	16.3	17.2	0.35	270	1.04	0.01	0.80
ZZ92617		24.6	1.68	4.89	<0.05	<0.02	0.10	0.024	0.06	21.3	9.6	0.13	94	1.93	<0.01	0.85
ZZ92618		13.8	1.75	4.22	<0.05	<0.02	0.07	0.024	0.05	11.4	13.1	0.32	746	1.66	0.01	0.62
ZZ92619		23.9	2.10	4.18	<0.05	<0.02	0.09	0.069	0.06	14.9	12.2	0.33	270	1.86	0.01	0.49
ZZ92620		20.5	2.17	3.71	0.05	0.02	0.06	0.099	0.07	20.2	13.6	0.44	338	2.82	<0.01	0.67
ZZ92621		16.1	1.07	2.65	<0.05	<0.02	0.05	0.018	0.04	6.7	6.2	0.17	195	0.99	0.02	0.27
ZZ92622		20.4	1.71	2.32	0.05	<0.02	0.06	0.022	0.05	16.8	8.9	0.21	385	1.50	0.01	0.39
ZZ92623		14.5	2.18	4.66	<0.05	<0.02	0.04	0.024	0.04	11.5	14.5	0.23	158	1.56	<0.01	0.89
ZZ92624		11.0	1.27	3.76	<0.05	<0.02	0.04	0.016	0.03	8.3	5.6	0.13	61	0.78	0.01	0.20
ZZ92625		17.7	1.58	4.00	<0.05	<0.02	0.06	0.020	0.05	10.5	7.7	0.20	138	1.44	0.01	0.28
ZZ92626		30.3	2.30	3.73	0.05	<0.02	0.09	0.030	0.06	15.7	15.0	0.31	393	2.28	<0.01	0.78
ZZ92627		34.8	1.14	3.17	<0.05	<0.02	0.07	0.018	0.04	7.3	4.0	0.10	74	1.05	0.01	0.14
ZZ92628		11.0	1.28	4.57	<0.05	<0.02	0.05	0.020	0.04	11.5	5.6	0.13	92	1.21	<0.01	0.30
ZZ92629		17.7	1.66	3.07	<0.05	<0.02	0.04	0.019	0.04	12.4	9.1	0.25	234	1.60	0.01	0.41
ZZ92630		26.8	2.46	4.31	0.05	0.02	0.13	0.032	0.06	18.4	14.1	0.39	501	2.35	0.01	0.74
ZZ92631		13.0	1.78	4.36	<0.05	<0.02	0.05	0.022	0.05	10.8	9.5	0.23	267	1.70	<0.01	0.27
ZZ92632		23.7	2.34	4.17	<0.05	0.04	0.07	0.028	0.07	14.6	13.8	0.37	364	2.08	<0.01	0.88
ZZ92633		23.6	1.79	3.53	0.05	0.05	0.08	0.033	0.06	16.7	11.8	0.36	201	1.80	0.01	0.75
ZZ92634		16.9	1.78	3.50	<0.05	0.04	0.14	0.130	0.05	16.5	10.8	0.38	254	1.99	0.01	0.69
ZZ92635		17.6	1.33	2.87	<0.05	0.06	0.08	0.024	0.05	10.3	9.5	0.31	321	1.61	0.01	0.61
ZZ92636		19.8	1.60	3.20	<0.05	0.03	0.11	0.032	0.06	12.8	10.0	0.28	134	1.88	0.01	0.58
ZZ92637		15.8	1.78	3.24	<0.05	0.05	0.11	0.030	0.06	11.6	11.5	0.30	288	1.10	0.01	0.60
ZZ92638		16.0	1.74	3.05	<0.05	0.04	0.10	0.025	0.05	12.0	9.7	0.24	184	1.57	0.01	0.63
ZZ92639		15.8	1.55	3.18	<0.05	0.04	0.11	0.025	0.06	12.0	10.1	0.25	288	1.19	0.01	0.64
ZZ92640		24.1	1.47	3.37	<0.05	0.03	0.13	0.027	0.06	13.5	10.9	0.25	218	0.78	0.01	0.69



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92601		33.8	850	13.6	9.7	0.004	0.09	1.44	4.2	7.2	0.5	82.7	<0.01	0.03	2.0	0.018
ZZ92602		13.2	530	8.3	9.9	<0.001	0.04	0.73	1.4	0.9	0.6	18.9	<0.01	0.04	0.5	0.019
ZZ92603		36.1	920	14.1	9.1	0.002	0.03	1.36	5.3	2.5	0.5	39.4	<0.01	0.04	3.6	0.023
ZZ92604		8.6	530	3.6	3.0	0.001	0.07	0.43	1.1	1.0	<0.2	45.9	<0.01	0.01	0.5	0.017
ZZ92605		15.5	820	13.6	9.9	0.003	0.06	1.64	2.3	3.8	0.8	32.8	<0.01	0.03	1.4	0.017
ZZ92606		23.6	860	19.9	9.5	0.002	0.04	4.16	3.2	1.9	1.9	37.3	<0.01	0.04	1.7	0.017
ZZ92607		21.2	720	14.1	8.8	0.001	0.08	3.88	2.5	2.4	1.5	58.8	<0.01	0.04	1.1	0.013
ZZ92608		9.8	410	11.6	6.6	<0.001	0.03	0.71	1.3	0.8	0.6	9.7	<0.01	0.03	0.9	0.024
ZZ92609		27.2	910	19.3	13.4	0.002	0.05	2.99	4.0	2.3	1.4	42.5	<0.01	0.05	3.1	0.019
ZZ92610		21.4	1130	13.6	10.1	0.001	0.03	1.41	3.7	1.4	0.8	36.2	<0.01	0.03	4.3	0.029
ZZ92611		14.2	930	10.7	7.3	0.003	0.08	1.32	2.8	3.4	0.5	34.8	<0.01	0.03	2.2	0.015
ZZ92612		10.8	660	6.0	5.8	0.004	0.04	0.86	2.0	1.6	0.3	23.6	<0.01	0.01	1.1	0.026
ZZ92613		13.3	1020	15.6	8.7	0.003	0.06	3.03	1.8	1.6	0.7	33.6	<0.01	0.03	1.4	0.017
ZZ92614		13.0	1030	13.8	8.7	0.004	0.06	2.76	1.9	2.7	0.7	31.2	<0.01	0.02	1.9	0.025
ZZ92615		19.3	1120	22.4	11.0	0.003	0.08	6.12	1.6	2.9	1.0	25.2	<0.01	0.02	0.6	0.017
ZZ92616		22.0	1110	14.8	11.8	0.008	0.08	2.33	2.5	4.9	0.7	30.6	<0.01	0.02	1.1	0.019
ZZ92617		13.6	520	12.0	12.6	0.001	0.04	0.93	2.1	2.2	0.7	17.4	<0.01	0.03	0.9	0.014
ZZ92618		15.3	1040	13.5	11.8	0.003	0.06	1.61	1.3	2.6	0.7	29.8	<0.01	0.02	0.4	0.018
ZZ92619		23.4	1110	81.0	9.2	0.001	0.05	14.25	1.2	1.6	4.3	26.1	<0.01	0.03	0.4	0.015
ZZ92620		27.4	1500	99.8	8.0	0.001	0.04	14.55	2.4	1.6	6.6	30.3	<0.01	0.03	1.8	0.025
ZZ92621		11.0	760	9.1	5.4	0.001	0.03	0.93	0.5	0.6	0.5	20.7	<0.01	0.02	<0.2	0.016
ZZ92622		19.1	880	11.3	5.0	0.001	0.03	1.19	2.0	1.1	0.3	23.8	<0.01	0.02	2.1	0.014
ZZ92623		13.5	550	11.4	6.5	<0.001	0.03	0.76	1.2	1.1	0.5	12.9	<0.01	0.04	0.6	0.024
ZZ92624		5.9	670	7.6	4.2	<0.001	0.03	0.31	0.3	1.0	0.4	14.6	<0.01	0.02	<0.2	0.019
ZZ92625		13.6	760	9.3	6.2	0.001	0.03	0.79	0.4	1.0	0.4	17.5	<0.01	0.03	<0.2	0.016
ZZ92626		30.3	730	14.7	7.8	0.001	0.02	1.34	3.1	1.3	0.5	21.8	<0.01	0.04	2.7	0.021
ZZ92627		8.8	1090	6.3	6.3	<0.001	0.06	0.51	0.2	0.7	0.4	23.8	<0.01	0.01	<0.2	0.005
ZZ92628		9.8	520	9.2	7.0	<0.001	0.03	0.53	0.5	0.7	0.6	19.4	<0.01	0.02	<0.2	0.016
ZZ92629		16.3	970	10.0	5.0	0.001	0.03	0.97	1.2	1.1	0.4	23.3	<0.01	0.03	0.5	0.021
ZZ92630		28.1	1050	16.0	9.3	0.001	0.03	1.25	3.9	1.4	0.5	24.9	<0.01	0.03	1.8	0.027
ZZ92631		11.2	1040	11.1	10.2	0.001	0.03	0.64	0.4	1.1	0.5	15.8	<0.01	0.03	<0.2	0.014
ZZ92632		26.2	830	13.9	9.5	0.001	0.02	1.21	2.4	1.5	0.5	18.2	<0.01	0.04	1.7	0.023
ZZ92633		25.3	1260	29.9	9.0	0.002	0.05	3.50	2.9	2.3	1.1	37.6	<0.01	0.04	1.8	0.027
ZZ92634		22.7	1170	168.0	8.7	0.001	0.03	19.65	2.4	1.3	14.1	29.1	<0.01	0.03	1.7	0.027
ZZ92635		14.5	1120	15.3	7.9	0.001	0.08	2.30	2.2	2.0	0.9	45.4	<0.01	0.03	1.1	0.015
ZZ92636		16.5	870	29.0	8.1	0.002	0.03	4.07	2.6	2.4	1.0	26.1	<0.01	0.04	2.1	0.015
ZZ92637		16.4	930	33.3	10.3	0.002	0.07	2.99	2.4	1.4	0.9	36.1	<0.01	0.03	1.6	0.013
ZZ92638		14.1	800	26.8	8.3	0.002	0.05	3.42	2.3	1.4	0.5	26.7	<0.01	0.02	1.7	0.014
ZZ92639		17.0	860	31.2	10.0	0.002	0.07	3.24	2.5	1.7	0.6	30.4	<0.01	0.02	1.8	0.014
ZZ92640		20.3	850	19.0	9.0	0.003	0.06	1.90	3.0	2.9	0.5	29.1	<0.01	0.03	1.6	0.015



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92601		0.15	1.85	43	0.31	15.05	109	1.5	0.009
ZZ92602		0.15	0.57	41	0.39	3.30	66	<0.5	0.002
ZZ92603		0.22	1.68	45	0.18	14.70	130	1.4	0.005
ZZ92604		0.04	0.60	13	0.12	3.32	30	0.8	0.001
ZZ92605		0.14	1.21	33	0.30	7.25	78	1.1	0.004
ZZ92606		0.31	1.14	38	0.21	14.40	117	1.9	0.007
ZZ92607		0.33	0.85	31	0.07	13.00	76	2.2	0.009
ZZ92608		0.13	0.52	49	0.30	2.70	51	<0.5	0.004
ZZ92609		0.36	0.96	45	0.12	16.95	124	2.9	0.005
ZZ92610		0.20	1.08	35	0.44	12.05	99	1.9	0.009
ZZ92611		0.17	1.74	36	0.78	8.20	95	1.3	0.003
ZZ92612		0.15	0.83	30	0.29	6.89	53	1.5	0.003
ZZ92613		0.12	1.13	35	0.16	5.96	96	1.3	0.005
ZZ92614		0.31	1.49	39	0.30	6.50	98	1.0	0.003
ZZ92615		0.27	2.86	38	0.14	9.99	177	0.9	0.003
ZZ92616		0.21	2.70	39	0.21	11.90	181	1.2	0.005
ZZ92617		0.19	1.20	45	0.20	11.45	87	<0.5	0.004
ZZ92618		0.18	1.41	38	0.17	5.70	84	<0.5	0.002
ZZ92619		0.21	1.31	43	0.21	8.79	138	<0.5	0.005
ZZ92620		0.23	1.56	48	0.41	10.35	146	<0.5	0.008
ZZ92621		0.12	0.54	27	0.10	3.82	48	<0.5	0.003
ZZ92622		0.12	0.83	27	0.10	7.80	82	<0.5	0.003
ZZ92623		0.15	0.69	45	0.26	3.41	54	<0.5	0.003
ZZ92624		0.11	0.72	34	0.28	2.93	24	<0.5	0.002
ZZ92625		0.13	0.67	39	0.14	4.33	62	<0.5	0.003
ZZ92626		0.16	0.98	49	0.15	8.87	112	0.5	0.004
ZZ92627		0.13	0.80	24	0.28	3.96	38	<0.5	0.002
ZZ92628		0.21	0.59	36	0.14	3.25	45	<0.5	0.004
ZZ92629		0.12	0.90	37	0.16	6.49	68	<0.5	0.004
ZZ92630		0.17	2.06	49	0.25	13.50	108	0.5	0.007
ZZ92631		0.17	1.04	42	0.16	3.53	70	<0.5	0.003
ZZ92632		0.20	1.18	47	0.28	6.29	100	0.9	0.004
ZZ92633		0.18	1.32	42	0.28	11.10	130	1.3	0.004
ZZ92634		0.25	1.22	44	0.23	9.33	257	0.9	0.009
ZZ92635		0.15	1.22	32	0.16	7.87	76	1.4	0.003
ZZ92636		0.19	1.17	42	0.22	7.08	92	1.0	0.004
ZZ92637		0.16	1.17	37	0.11	7.79	138	1.4	0.004
ZZ92638		0.13	0.95	36	0.11	6.80	88	0.9	0.024
ZZ92639		0.13	0.95	33	0.20	7.75	109	1.0	0.003
ZZ92640		0.15	1.50	39	0.14	9.28	110	0.9	0.003



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ92641		0.23	0.83	1.20	14.2	<0.2	<10	580	0.64	0.23	0.94	2.03	37.9	11.3	20	1.41
ZZ92642		0.20	0.49	0.97	16.8	<0.2	<10	390	0.42	0.18	0.55	0.82	25.1	4.6	17	1.06
ZZ92643		0.22	1.46	1.32	37.0	<0.2	<10	320	0.41	0.16	0.77	0.95	23.7	6.4	14	3.20
ZZ92644		0.29	0.13	1.28	19.0	<0.2	<10	330	0.52	0.22	0.17	0.37	34.7	8.4	18	1.29
ZZ92645		0.26	0.12	1.37	11.9	<0.2	<10	290	0.57	0.20	0.20	0.22	33.1	8.0	22	1.23
ZZ92646		0.22	0.13	1.23	11.9	<0.2	<10	170	0.34	0.20	0.11	0.34	28.9	4.6	13	1.47
ZZ92647		0.26	0.10	0.87	13.6	<0.2	<10	320	0.56	0.18	0.28	0.52	41.4	8.7	12	0.84
ZZ92648		0.24	0.14	1.14	14.3	<0.2	<10	400	0.64	0.21	0.22	0.39	44.4	8.8	15	1.21
ZZ92649		0.24	0.15	1.67	16.1	<0.2	<10	230	0.52	0.24	0.08	0.36	24.5	5.7	21	1.53
ZZ92650		0.27	0.18	1.37	12.7	<0.2	<10	270	0.50	0.24	0.17	0.22	37.6	6.3	23	1.38
ZZ92651		0.34	0.38	1.46	10.7	<0.2	<10	850	0.62	0.24	0.68	0.75	27.3	8.9	23	1.34
ZZ92652		0.41	0.78	1.88	47.0	<0.2	<10	950	1.01	0.38	0.43	0.53	36.3	10.5	27	1.89
ZZ92653		0.32	0.45	0.94	15.0	<0.2	<10	330	0.33	0.14	0.12	0.43	13.10	4.7	10	1.04
ZZ92654		0.36	0.21	1.16	21.8	<0.2	<10	320	0.56	0.31	0.21	0.58	29.8	11.1	19	1.41
ZZ92655		0.42	0.22	1.20	13.2	<0.2	<10	380	0.46	0.22	0.24	0.25	23.4	5.9	18	1.16
ZZ92656		0.37	0.29	1.35	20.7	<0.2	<10	390	0.62	0.27	0.21	0.46	31.4	7.4	19	1.50
ZZ92657		0.49	0.37	1.21	23.6	<0.2	<10	630	0.63	0.34	0.33	0.94	34.2	7.8	21	1.20
ZZ92658		0.35	0.29	1.35	16.5	<0.2	<10	410	0.54	0.32	0.16	0.51	27.2	5.8	21	1.25
ZZ92659		0.40	0.28	1.52	23.5	<0.2	<10	460	0.67	0.28	0.32	0.35	33.9	7.4	24	1.65
ZZ92660		0.35	0.11	1.11	14.9	<0.2	<10	300	0.50	0.21	0.29	0.38	35.7	6.2	16	1.39
ZZ92661		0.45	0.44	1.46	12.2	<0.2	<10	630	0.74	0.23	0.40	0.15	35.9	8.9	23	1.65
ZZ92662		0.39	0.18	1.71	18.9	<0.2	<10	300	0.85	0.22	0.15	0.71	32.6	8.7	20	2.04
ZZ92663		0.43	0.48	1.24	29.2	<0.2	<10	440	0.72	0.36	0.35	0.56	39.2	7.1	19	1.36
ZZ92664		0.36	0.23	1.29	15.1	<0.2	<10	360	0.59	0.22	0.21	0.38	32.6	5.6	16	1.62
ZZ92665		0.30	0.56	1.50	32.0	<0.2	<10	490	0.77	0.32	0.28	0.79	39.0	6.6	21	1.47
ZZ92666		0.36	0.27	1.20	23.5	<0.2	<10	410	0.53	0.27	0.36	0.36	32.4	5.8	22	1.26
ZZ92667		0.49	0.43	1.26	17.7	<0.2	<10	480	0.62	0.23	0.39	0.84	37.2	8.7	24	1.38
ZZ92668		0.41	0.24	1.24	18.0	<0.2	<10	390	0.55	0.17	0.35	0.29	34.0	7.5	20	1.37
ZZ92669		0.37	0.66	1.19	37.4	<0.2	<10	440	0.64	0.22	0.57	0.66	38.2	7.7	35	1.75
ZZ92670		0.41	0.09	1.66	17.1	<0.2	<10	540	0.59	0.19	0.17	0.49	28.3	6.7	22	1.68
ZZ92671		0.36	0.31	1.44	18.2	<0.2	<10	480	0.64	0.20	0.30	0.53	34.6	8.0	22	1.54
ZZ92672		0.38	0.39	0.89	13.1	<0.2	<10	450	0.42	0.16	0.51	0.56	26.9	7.4	18	0.95
ZZ92673		0.34	1.03	1.56	89.2	<0.2	<10	680	0.82	0.72	0.43	0.69	32.7	8.5	28	2.70
ZZ92674		0.35	0.52	1.13	13.7	<0.2	<10	670	0.52	0.22	0.95	0.80	21.7	6.4	17	0.96
ZZ92675		0.33	0.50	0.95	15.5	<0.2	<10	500	0.49	0.19	1.04	1.00	20.3	5.9	16	0.91
ZZ92676		0.38	0.42	1.10	15.0	<0.2	<10	570	0.57	0.20	0.65	0.68	31.9	6.8	20	1.00
ZZ92677		0.35	0.40	1.07	19.8	<0.2	<10	550	0.52	0.21	0.63	0.77	31.2	8.2	19	1.00
ZZ92678		0.34	0.35	1.22	22.3	<0.2	<10	540	0.56	0.21	0.72	0.58	29.9	8.5	19	1.31
ZZ92679		0.32	0.25	1.22	11.2	<0.2	<10	480	0.39	0.21	0.27	0.76	24.2	4.3	19	1.16
ZZ92680		0.36	0.15	1.39	13.6	<0.2	<10	600	0.48	0.20	0.29	0.76	27.7	7.0	23	1.09



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	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
	Units LOR	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		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	0.01	0.05
ZZ92641		37.0	2.04	3.59	0.05	0.05	0.21	0.035	0.08	19.3	14.7	0.33	692	1.61	0.01	0.71
ZZ92642		17.1	1.43	3.38	<0.05	0.03	0.10	0.024	0.05	12.9	11.1	0.27	125	0.96	0.01	0.80
ZZ92643		17.7	1.81	3.86	<0.05	0.02	0.19	0.034	0.10	12.6	9.4	0.21	261	1.21	0.02	0.51
ZZ92644		22.7	2.28	3.98	<0.05	0.02	0.06	0.029	0.06	17.4	15.2	0.28	314	2.09	<0.01	0.73
ZZ92645		18.0	2.18	4.01	<0.05	0.04	0.05	0.027	0.05	16.7	13.6	0.36	236	1.44	0.01	1.01
ZZ92646		13.8	1.99	5.01	<0.05	<0.02	0.04	0.023	0.06	14.6	11.9	0.21	197	1.42	0.01	0.88
ZZ92647		24.3	2.01	2.85	0.05	0.03	0.06	0.023	0.06	19.2	11.3	0.26	431	2.09	<0.01	0.56
ZZ92648		18.7	2.10	3.32	0.06	0.04	0.08	0.028	0.06	21.8	12.5	0.28	308	1.79	<0.01	0.65
ZZ92649		20.9	3.09	5.21	<0.05	0.03	0.04	0.033	0.06	12.6	19.5	0.26	161	2.17	<0.01	1.21
ZZ92650		16.9	2.18	4.66	<0.05	0.02	0.06	0.027	0.05	19.1	13.3	0.36	199	1.27	<0.01	0.86
ZZ92651		26.0	2.10	4.56	<0.05	0.05	0.08	0.029	0.06	13.9	11.7	0.32	757	1.53	0.01	0.66
ZZ92652		40.8	3.11	5.20	0.05	0.05	0.20	0.045	0.10	19.8	14.8	0.37	677	2.74	0.01	0.72
ZZ92653		18.4	1.11	2.89	<0.05	<0.02	0.06	0.017	0.05	6.4	5.1	0.12	265	0.79	0.03	0.39
ZZ92654		27.4	2.07	3.55	<0.05	<0.02	0.06	0.028	0.06	14.5	12.5	0.30	467	2.46	0.01	0.52
ZZ92655		21.6	1.93	3.51	<0.05	<0.02	0.05	0.024	0.06	11.6	12.1	0.29	237	1.88	0.01	0.54
ZZ92656		23.3	2.19	3.69	<0.05	0.02	0.05	0.033	0.07	15.6	13.3	0.33	275	2.36	<0.01	0.68
ZZ92657		33.2	2.11	3.81	<0.05	0.02	0.09	0.032	0.07	17.9	12.2	0.32	356	2.52	0.01	0.59
ZZ92658		26.9	1.91	4.48	<0.05	0.02	0.25	0.031	0.06	14.2	11.6	0.30	228	1.89	0.01	0.90
ZZ92659		23.4	2.45	4.40	0.05	0.02	0.06	0.034	0.07	17.9	14.2	0.40	259	1.85	0.01	0.92
ZZ92660		17.0	2.09	3.62	0.05	0.02	0.04	0.026	0.06	17.2	12.4	0.31	286	1.90	0.01	0.83
ZZ92661		23.8	2.30	4.67	0.05	0.03	0.11	0.030	0.06	18.9	13.9	0.37	345	1.59	0.01	0.75
ZZ92662		22.8	2.83	4.48	<0.05	0.04	0.06	0.038	0.07	15.3	22.0	0.36	386	3.13	<0.01	0.71
ZZ92663		23.2	2.29	3.41	0.05	0.03	0.09	0.036	0.07	19.1	12.8	0.40	311	2.13	0.01	0.69
ZZ92664		21.1	2.14	4.03	<0.05	0.02	0.07	0.031	0.07	17.4	15.2	0.32	294	1.81	0.01	0.68
ZZ92665		26.3	2.28	4.67	0.05	0.04	0.07	0.039	0.07	20.2	12.6	0.36	404	1.85	0.01	0.91
ZZ92666		16.3	2.02	4.08	<0.05	<0.02	0.05	0.029	0.05	16.5	12.2	0.37	198	1.43	<0.01	0.81
ZZ92667		26.0	2.73	3.84	0.06	0.04	0.10	0.031	0.07	19.8	14.7	0.41	471	1.78	0.01	1.11
ZZ92668		16.5	2.16	3.37	0.05	0.05	0.05	0.029	0.06	17.5	12.3	0.33	256	1.60	0.01	0.89
ZZ92669		24.4	2.06	3.24	0.07	0.05	0.06	0.033	0.08	20.8	14.0	0.62	463	2.48	0.01	0.55
ZZ92670		18.5	2.47	4.68	<0.05	0.03	0.05	0.030	0.08	14.8	19.0	0.30	179	2.25	0.01	0.78
ZZ92671		23.1	2.15	4.35	0.05	0.03	0.07	0.033	0.07	18.4	14.9	0.35	326	1.64	0.01	0.71
ZZ92672		18.0	1.70	3.01	<0.05	0.04	0.09	0.023	0.06	14.0	11.4	0.31	271	1.56	0.01	0.71
ZZ92673		41.2	2.65	4.43	0.05	0.07	0.23	0.046	0.11	18.6	16.2	0.42	331	2.47	0.01	0.83
ZZ92674		26.8	1.73	3.39	<0.05	0.06	0.12	0.024	0.05	11.9	9.8	0.31	457	1.11	0.02	0.70
ZZ92675		31.6	1.72	2.73	<0.05	0.06	0.20	0.022	0.05	11.6	8.5	0.28	416	1.03	0.02	0.60
ZZ92676		29.9	1.92	3.58	0.05	0.06	0.14	0.028	0.07	17.5	12.9	0.34	291	1.63	0.01	0.81
ZZ92677		21.4	2.29	3.24	0.05	0.05	0.13	0.025	0.07	16.2	12.2	0.33	305	2.06	0.01	0.66
ZZ92678		18.4	2.14	3.71	<0.05	0.06	0.15	0.028	0.06	15.8	11.9	0.30	522	2.03	0.01	0.65
ZZ92679		17.8	1.74	4.44	<0.05	0.03	0.07	0.021	0.05	13.0	10.0	0.25	145	1.08	0.01	0.61
ZZ92680		19.3	2.05	4.72	<0.05	0.03	0.06	0.026	0.05	15.0	14.7	0.36	257	1.36	0.01	1.04





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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92641		34.4	980	20.7	10.0	0.001	0.06	2.20	5.2	2.7	0.6	43.1	<0.01	0.04	2.6	0.012
ZZ92642		18.2	790	27.9	8.4	0.001	0.08	3.44	2.4	2.0	0.6	28.4	<0.01	0.02	1.3	0.017
ZZ92643		22.6	1090	69.9	13.4	<0.001	0.07	2.94	2.3	1.3	1.6	30.7	<0.01	0.02	0.8	0.010
ZZ92644		21.6	810	16.7	8.8	<0.001	0.02	1.61	2.5	1.2	0.6	19.7	<0.01	0.04	2.4	0.017
ZZ92645		20.4	800	11.2	7.8	0.001	0.02	1.01	3.0	1.1	0.5	19.6	<0.01	0.03	3.9	0.026
ZZ92646		11.9	600	10.9	10.8	<0.001	0.02	0.86	1.4	0.6	0.6	16.4	<0.01	0.03	1.1	0.021
ZZ92647		20.6	900	15.3	5.7	0.002	0.02	1.58	2.5	1.3	0.4	25.5	<0.01	0.03	4.5	0.014
ZZ92648		23.3	870	14.8	6.5	0.001	0.01	2.00	3.9	1.4	0.5	21.0	<0.01	0.03	5.3	0.018
ZZ92649		20.0	540	14.5	12.5	0.001	0.02	1.12	2.3	0.8	0.6	15.6	<0.01	0.04	2.3	0.016
ZZ92650		20.1	760	12.7	7.7	<0.001	0.02	0.85	2.4	1.1	0.6	15.3	<0.01	0.03	1.2	0.029
ZZ92651		22.6	1310	12.4	10.7	0.001	0.06	0.84	3.0	1.4	0.5	40.5	<0.01	0.03	1.1	0.015
ZZ92652		34.8	1100	26.3	13.9	0.001	0.04	2.40	4.6	2.3	0.8	32.1	<0.01	0.05	2.0	0.012
ZZ92653		11.6	520	9.6	6.8	<0.001	0.02	0.90	1.5	0.5	0.3	12.5	<0.01	0.02	0.3	0.014
ZZ92654		24.7	720	22.8	9.0	0.001	0.02	2.67	2.4	1.1	0.6	22.0	<0.01	0.04	1.7	0.015
ZZ92655		21.3	580	13.3	9.3	0.001	0.02	1.38	1.9	0.8	0.5	20.0	<0.01	0.02	1.1	0.014
ZZ92656		26.4	780	20.8	9.8	0.001	0.02	2.18	2.4	1.1	0.7	22.6	<0.01	0.03	2.2	0.016
ZZ92657		27.8	760	24.1	9.4	0.001	0.02	2.45	3.2	1.1	0.6	26.3	<0.01	0.04	2.2	0.015
ZZ92658		21.6	500	20.4	10.1	0.001	0.02	1.41	2.5	0.9	0.7	17.3	<0.01	0.03	2.3	0.021
ZZ92659		26.8	740	25.7	10.7	<0.001	0.02	1.76	3.2	1.2	0.9	23.3	<0.01	0.03	2.7	0.023
ZZ92660		21.5	990	15.1	8.5	0.001	0.02	1.54	2.4	1.0	0.5	25.7	<0.01	0.03	3.1	0.022
ZZ92661		23.3	1110	13.4	10.3	<0.001	0.03	0.89	3.1	1.4	0.6	28.1	<0.01	0.03	1.5	0.019
ZZ92662		26.9	780	17.0	13.9	0.001	0.04	1.84	2.6	1.4	0.5	18.2	<0.01	0.03	2.5	0.010
ZZ92663		26.7	740	44.8	7.8	0.001	0.02	4.32	3.8	1.4	1.0	26.7	<0.01	0.03	3.8	0.013
ZZ92664		18.0	720	20.1	12.8	<0.001	0.03	1.54	2.2	0.8	0.6	18.5	<0.01	0.03	1.7	0.014
ZZ92665		22.9	450	52.7	11.3	<0.001	0.02	3.39	4.0	1.2	1.2	21.8	<0.01	0.03	3.7	0.014
ZZ92666		20.9	700	32.9	7.6	<0.001	0.02	2.46	2.6	0.9	0.8	22.7	<0.01	0.03	1.5	0.023
ZZ92667		31.4	930	23.2	9.0	0.001	0.01	3.01	4.7	1.4	0.7	25.9	<0.01	0.04	4.2	0.034
ZZ92668		24.3	880	16.5	8.8	<0.001	0.01	2.18	3.0	1.3	0.7	25.4	<0.01	0.03	3.9	0.025
ZZ92669		31.4	1840	53.2	9.8	0.001	0.01	6.11	3.7	2.2	1.5	35.7	<0.01	0.06	4.2	0.020
ZZ92670		23.0	780	14.2	13.7	<0.001	0.01	1.50	2.2	1.2	0.7	19.6	<0.01	0.05	1.3	0.013
ZZ92671		25.4	790	22.7	11.5	<0.001	0.01	1.90	2.8	1.0	0.8	23.4	<0.01	0.06	1.3	0.019
ZZ92672		20.9	910	17.0	7.2	0.001	0.03	1.80	2.9	1.5	0.6	34.0	<0.01	0.03	2.3	0.023
ZZ92673		39.9	680	61.5	15.7	0.001	0.02	7.33	5.5	1.6	1.7	31.7	<0.01	0.06	3.1	0.018
ZZ92674		21.9	910	13.1	7.7	<0.001	0.05	1.95	2.6	1.5	0.5	46.9	<0.01	0.03	1.1	0.024
ZZ92675		20.6	950	17.4	6.9	0.001	0.06	2.36	2.5	1.6	0.5	48.0	<0.01	0.03	0.8	0.022
ZZ92676		26.8	760	13.1	8.4	0.001	0.02	1.95	3.8	1.6	0.6	32.6	<0.01	0.04	2.4	0.022
ZZ92677		22.4	1030	16.5	8.8	0.001	0.02	2.14	3.5	1.7	0.5	32.0	<0.01	0.04	2.5	0.017
ZZ92678		16.4	1230	16.8	11.2	0.001	0.04	1.91	2.7	1.8	0.6	39.4	<0.01	0.04	1.4	0.014
ZZ92679		13.3	470	10.9	8.9	0.001	0.01	0.72	1.1	0.7	0.6	20.1	<0.01	0.03	0.2	0.024
ZZ92680		18.8	790	11.0	9.0	<0.001	0.01	0.75	2.6	0.6	0.6	22.5	<0.01	0.04	1.5	0.029



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92641		0.24	1.74	38	0.17	17.10	152	1.3	0.007
ZZ92642		0.13	1.27	35	0.16	7.64	121	0.7	0.007
ZZ92643		0.22	0.93	38	0.11	9.33	126	0.6	0.006
ZZ92644		0.16	0.91	42	0.15	6.76	96	<0.5	0.006
ZZ92645		0.15	1.47	40	0.23	6.52	75	1.2	0.003
ZZ92646		0.13	0.54	40	0.45	3.49	64	<0.5	0.003
ZZ92647		0.13	1.00	30	0.11	8.20	94	0.9	0.003
ZZ92648		0.15	1.57	33	0.17	13.10	93	1.2	0.004
ZZ92649		0.17	0.56	55	0.26	3.52	88	0.8	0.002
ZZ92650		0.17	1.23	43	0.67	7.71	75	<0.5	0.002
ZZ92651		0.13	1.65	47	0.47	8.89	76	1.0	0.003
ZZ92652		0.24	2.92	62	0.18	19.00	150	1.2	0.008
ZZ92653		0.11	0.63	29	0.12	6.10	67	<0.5	0.003
ZZ92654		0.17	0.86	47	0.12	5.97	120	<0.5	0.007
ZZ92655		0.16	0.70	41	0.15	4.76	79	<0.5	0.004
ZZ92656		0.20	1.07	47	0.14	6.62	119	0.5	0.004
ZZ92657		0.19	1.18	51	0.14	10.85	139	0.5	0.005
ZZ92658		0.18	0.92	51	0.18	5.43	85	0.5	0.003
ZZ92659		0.20	1.13	48	0.19	9.14	96	0.5	0.003
ZZ92660		0.18	0.92	38	0.17	7.57	97	0.5	0.003
ZZ92661		0.18	1.83	45	0.23	12.20	83	0.5	0.005
ZZ92662		0.26	0.92	45	0.23	6.06	115	0.8	0.004
ZZ92663		0.20	1.11	46	0.32	10.45	156	1.0	0.005
ZZ92664		0.17	0.80	43	0.16	6.81	102	<0.5	0.003
ZZ92665		0.19	1.06	56	0.15	10.85	130	1.2	0.003
ZZ92666		0.14	1.07	44	0.27	8.48	84	<0.5	0.004
ZZ92667		0.18	1.08	48	0.27	12.50	123	0.8	0.004
ZZ92668		0.16	1.05	41	0.24	7.87	88	0.9	0.004
ZZ92669		0.25	1.54	44	0.15	12.40	107	1.4	0.004
ZZ92670		0.20	0.74	57	0.18	5.31	97	<0.5	0.005
ZZ92671		0.17	1.01	46	0.25	9.05	84	<0.5	0.003
ZZ92672		0.14	1.12	37	0.17	7.75	89	0.8	0.003
ZZ92673		0.28	1.64	58	0.19	15.20	200	1.6	0.004
ZZ92674		0.11	1.14	39	0.46	9.45	72	1.2	0.002
ZZ92675		0.14	2.02	35	0.29	10.60	82	1.2	0.003
ZZ92676		0.14	1.45	41	0.18	11.40	86	1.2	0.004
ZZ92677		0.14	1.76	45	0.27	9.76	118	1.1	0.004
ZZ92678		0.16	1.61	45	0.18	9.40	107	1.2	0.002
ZZ92679		0.14	0.99	44	0.17	5.37	76	<0.5	0.002
ZZ92680		0.13	1.06	47	0.23	7.18	78	0.5	0.001



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
ZZ92681		0.41	0.57	1.40	17.5	<0.2	<10	550	0.66	0.25	0.57	1.48	32.8	9.9	24	1.14
ZZ92682		0.49	0.19	1.51	31.2	<0.2	<10	230	0.55	0.25	0.14	0.89	28.8	10.0	24	1.65
ZZ92683		0.40	0.45	1.28	35.7	<0.2	<10	340	0.62	0.35	0.15	1.02	27.9	6.8	18	1.57
ZZ92684		0.37	0.09	1.09	27.5	<0.2	<10	200	0.38	0.26	0.16	0.82	25.6	9.4	21	1.53
ZZ92685		0.37	0.41	1.30	100.0	<0.2	<10	430	0.62	0.44	0.27	1.80	25.0	7.2	22	2.12
ZZ92686		0.40	0.29	1.16	22.8	<0.2	<10	370	0.51	0.25	0.55	0.82	29.4	8.2	22	1.25
ZZ92687		0.29	0.45	1.24	23.6	<0.2	<10	490	0.58	0.25	0.84	1.29	30.9	7.5	22	1.16
ZZ92688		0.33	0.37	0.95	14.8	<0.2	<10	360	0.34	0.19	0.59	0.56	17.50	5.1	14	1.00
ZZ92689		0.42	0.24	1.13	29.3	<0.2	<10	500	0.47	0.26	0.65	0.57	27.6	7.1	20	1.04
ZZ92690		0.35	0.43	1.32	28.3	<0.2	<10	560	0.66	0.32	0.58	1.03	30.0	7.8	22	1.23
ZZ92691		0.38	0.17	1.07	35.0	<0.2	<10	380	0.43	0.33	0.38	0.49	24.0	6.4	19	0.98
ZZ92692		0.33	0.46	1.12	29.3	<0.2	<10	420	0.54	0.31	0.85	0.85	24.7	6.0	21	1.27
ZZ92693		0.34	0.47	1.25	22.9	<0.2	<10	510	0.64	0.30	0.98	0.76	30.3	7.5	22	1.05
ZZ92694		0.35	0.23	1.19	40.7	<0.2	<10	290	0.40	0.35	0.40	0.64	23.4	6.3	20	1.25
ZZ92695		0.33	0.38	0.95	17.7	<0.2	<10	200	0.27	0.25	0.63	0.49	17.75	3.9	17	0.93
ZZ92696		0.31	0.19	0.82	10.6	<0.2	<10	130	0.14	0.20	0.17	0.43	20.3	2.7	13	0.62
ZZ92697		0.31	0.38	0.84	14.8	<0.2	<10	220	0.31	0.21	1.04	0.67	17.00	4.6	13	0.81
ZZ92698		0.24	0.44	1.03	10.5	<0.2	<10	460	0.53	0.19	1.41	1.48	21.0	2.5	15	0.92
ZZ92699		0.30	0.37	0.86	26.0	<0.2	<10	400	0.40	0.20	1.15	1.33	20.7	5.3	14	1.21
ZZ92700		0.34	0.45	0.90	30.2	<0.2	<10	410	0.48	0.24	0.83	0.87	26.8	6.0	14	1.11
ZZ92701		0.45	0.27	1.10	11.3	<0.2	<10	350	0.40	0.19	0.22	0.43	24.5	9.3	23	1.27
ZZ92702		0.25	0.42	1.19	7.7	<0.2	<10	440	0.39	0.19	0.24	0.49	26.1	5.9	22	1.27
ZZ92703		0.30	0.31	1.00	6.1	<0.2	<10	440	0.36	0.19	0.29	0.39	21.0	4.4	19	0.97
ZZ92704		0.33	0.65	1.54	18.9	<0.2	<10	860	0.82	0.26	0.43	0.80	40.4	11.4	27	1.41
ZZ92705		0.31	0.16	1.22	9.2	<0.2	<10	210	0.43	0.19	0.22	0.22	26.6	6.9	21	1.36
ZZ92706		0.35	0.17	1.27	9.4	<0.2	<10	280	0.46	0.21	0.18	0.24	27.5	7.3	22	1.00
ZZ92707		0.42	0.32	1.43	12.4	<0.2	<10	360	0.59	0.20	0.30	0.40	30.8	9.1	23	1.35
ZZ92708		0.32	0.36	0.70	13.9	<0.2	<10	370	0.46	0.16	0.29	0.72	36.8	7.4	18	1.08
ZZ92709		0.35	0.47	1.33	9.4	<0.2	<10	500	0.55	0.18	0.46	0.29	34.0	6.3	25	1.62
ZZ92710		0.33	0.66	0.68	6.3	<0.2	<10	220	0.35	0.08	0.67	0.81	14.75	3.2	10	0.95
ZZ92711		0.44	0.76	1.01	24.1	<0.2	<10	460	0.57	0.17	0.72	1.17	31.9	6.6	19	1.65
ZZ92712		0.37	0.67	1.15	9.0	<0.2	<10	700	0.66	0.19	1.00	1.09	31.8	6.0	17	0.96
ZZ92713		0.32	0.05	0.89	15.4	<0.2	<10	200	0.28	0.24	0.37	0.34	21.6	4.5	15	0.92
ZZ92714		0.33	0.41	1.23	15.1	<0.2	<10	440	0.55	0.18	0.79	1.17	30.3	4.4	18	1.35
ZZ92715		0.47	0.30	1.20	8.1	<0.2	<10	390	0.51	0.20	0.52	0.38	26.8	6.6	19	1.15
ZZ92716		0.38	0.30	0.91	5.8	<0.2	<10	370	0.45	0.13	0.70	0.52	19.40	5.6	12	0.80
ZZ92717		0.34	0.50	1.07	12.0	<0.2	<10	330	0.52	0.17	1.22	0.54	23.6	5.2	21	0.74
ZZ92718		0.31	0.92	0.77	12.2	<0.2	<10	230	0.36	0.09	1.82	0.95	12.55	3.8	10	0.71
ZZ92719		0.29	0.98	1.10	20.7	<0.2	<10	320	0.55	0.16	1.35	1.56	24.2	6.7	32	1.27
ZZ92720		0.35	0.37	1.03	8.3	<0.2	<10	450	0.52	0.16	1.23	0.99	22.5	6.5	18	0.92



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	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
	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
	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	0.01	0.05
ZZ92681	32.6	2.44	4.23	0.05	0.06	0.14	0.028	0.06	17.4	15.0	0.40	349	1.52	0.01	1.00
ZZ92682	20.5	2.97	5.34	<0.05	0.03	0.06	0.037	0.08	14.8	19.0	0.37	466	2.31	<0.01	1.24
ZZ92683	17.8	2.06	3.82	<0.05	0.03	0.06	0.028	0.07	14.7	14.7	0.32	246	1.71	0.01	0.78
ZZ92684	13.9	2.42	3.99	<0.05	0.03	0.03	0.024	0.10	13.4	12.4	0.36	547	1.98	0.01	0.86
ZZ92685	25.8	1.94	3.71	<0.05	0.03	0.08	0.033	0.10	13.8	13.7	0.34	371	1.74	0.01	0.65
ZZ92686	19.1	2.01	3.69	<0.05	0.05	0.09	0.027	0.08	14.9	14.4	0.40	299	1.52	0.01	0.90
ZZ92687	26.4	2.02	3.71	<0.05	0.05	0.10	0.028	0.07	17.0	14.3	0.39	382	1.48	0.01	0.79
ZZ92688	18.1	1.36	3.07	<0.05	0.04	0.09	0.016	0.05	9.4	7.8	0.22	227	0.77	0.02	0.69
ZZ92689	18.1	1.93	3.47	<0.05	0.05	0.08	0.028	0.06	14.3	12.8	0.36	310	1.29	0.01	0.81
ZZ92690	25.5	2.04	4.10	<0.05	0.04	0.08	0.029	0.06	16.8	13.2	0.33	454	1.38	0.01	0.81
ZZ92691	13.0	1.98	3.07	<0.05	0.04	0.11	0.027	0.06	12.5	13.4	0.36	266	1.43	0.01	0.71
ZZ92692	23.3	1.96	3.38	<0.05	0.05	0.10	0.026	0.07	13.3	12.8	0.35	321	1.50	0.01	0.72
ZZ92693	28.3	2.00	3.94	<0.05	0.05	0.10	0.026	0.06	16.9	12.9	0.32	396	1.10	0.01	0.85
ZZ92694	16.3	2.22	4.63	<0.05	0.03	0.03	0.026	0.06	12.6	15.9	0.33	241	1.95	0.01	1.02
ZZ92695	16.3	1.57	3.83	<0.05	0.03	0.05	0.018	0.05	9.7	8.5	0.22	161	0.90	0.01	0.91
ZZ92696	11.6	1.35	4.30	<0.05	0.03	0.01	0.011	0.03	10.9	7.0	0.15	76	1.12	0.01	1.17
ZZ92697	17.2	1.34	2.93	<0.05	0.05	0.06	0.018	0.05	8.9	9.1	0.22	215	0.84	0.02	0.75
ZZ92698	32.9	1.06	2.94	<0.05	0.07	0.14	0.023	0.08	11.6	10.0	0.28	70	0.48	0.02	0.59
ZZ92699	21.3	1.68	2.43	<0.05	0.06	0.10	0.027	0.08	11.2	10.1	0.30	352	1.71	0.02	0.49
ZZ92700	22.6	1.83	2.70	0.05	0.06	0.10	0.026	0.08	15.0	10.8	0.27	247	1.87	0.01	0.55
ZZ92701	21.0	2.12	4.05	<0.05	0.02	0.06	0.025	0.10	13.3	13.9	0.33	491	2.12	0.01	0.60
ZZ92702	25.7	1.75	3.91	<0.05	0.03	0.12	0.025	0.07	14.1	13.1	0.25	173	0.91	0.01	0.73
ZZ92703	19.2	1.45	3.65	<0.05	<0.02	0.12	0.022	0.05	10.8	12.8	0.24	148	0.83	0.01	0.80
ZZ92704	51.7	2.66	4.67	0.08	0.04	0.26	0.037	0.10	20.4	21.2	0.40	292	1.99	0.01	0.93
ZZ92705	14.5	1.97	4.10	0.05	0.04	0.07	0.025	0.05	13.2	18.8	0.35	172	1.14	<0.01	1.05
ZZ92706	20.0	2.15	4.33	<0.05	<0.02	0.11	0.024	0.05	13.5	13.9	0.32	242	1.32	<0.01	1.08
ZZ92707	19.0	2.45	4.01	0.05	0.03	0.10	0.028	0.06	15.5	16.3	0.36	290	1.43	<0.01	1.22
ZZ92708	34.1	2.19	2.53	0.07	0.07	0.11	0.026	0.07	18.6	9.7	0.28	321	2.91	0.01	0.55
ZZ92709	22.7	1.80	4.13	0.06	0.06	0.12	0.032	0.09	18.0	17.7	0.49	310	1.82	0.01	0.61
ZZ92710	21.2	1.07	2.44	<0.05	0.04	0.11	0.016	0.04	8.5	7.0	0.19	280	1.19	0.02	0.51
ZZ92711	34.9	2.13	3.17	0.06	0.04	0.24	0.040	0.08	17.7	13.6	0.41	316	4.67	0.01	0.63
ZZ92712	40.4	1.94	3.17	0.06	0.05	0.26	0.026	0.07	17.3	12.7	0.33	251	2.12	0.01	0.73
ZZ92713	19.1	2.54	5.14	<0.05	<0.02	0.03	0.022	0.05	11.2	8.8	0.18	157	2.74	<0.01	1.02
ZZ92714	28.4	1.56	3.81	0.06	0.05	0.22	0.023	0.06	15.8	16.3	0.32	165	0.64	0.01	0.86
ZZ92715	18.3	1.96	3.72	0.05	0.04	0.13	0.024	0.06	13.5	16.0	0.37	267	1.37	0.01	0.98
ZZ92716	24.2	1.44	3.03	0.05	0.04	0.12	0.018	0.04	10.1	9.1	0.23	630	1.31	0.02	0.71
ZZ92717	26.1	1.88	3.26	0.06	0.04	0.12	0.032	0.07	12.3	12.2	0.43	203	1.22	0.01	0.78
ZZ92718	30.3	1.03	2.30	0.05	0.05	0.08	0.035	0.04	7.2	6.1	0.23	460	1.04	0.02	0.53
ZZ92719	27.9	1.89	3.56	0.07	0.05	0.11	0.035	0.07	13.7	13.5	0.70	462	1.43	0.01	0.59
ZZ92720	29.4	1.75	3.02	0.05	0.04	0.12	0.021	0.06	11.5	11.2	0.35	355	2.39	0.01	0.63



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method	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	
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOR	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92681		28.3	930	15.7	10.4	0.002	0.03	1.75	3.8	1.7	0.6	32.3	<0.01	0.03	2.0	0.026
ZZ92682		23.5	900	20.4	15.4	0.001	0.01	2.86	2.9	1.1	0.9	16.7	<0.01	0.04	2.5	0.024
ZZ92683		23.3	560	24.4	13.4	<0.001	0.01	2.92	2.2	0.8	0.7	13.9	<0.01	0.03	1.4	0.020
ZZ92684		18.2	840	17.9	17.8	0.001	0.01	2.82	2.1	0.8	0.6	14.2	<0.01	0.04	1.3	0.030
ZZ92685		28.2	1040	22.3	13.3	0.001	0.02	3.56	1.9	1.0	1.0	24.1	<0.01	0.06	0.5	0.018
ZZ92686		23.3	870	14.4	10.5	<0.001	0.02	2.04	3.8	1.0	0.7	32.1	<0.01	0.03	2.2	0.032
ZZ92687		23.0	950	16.4	10.1	0.001	0.04	2.20	3.5	1.1	0.8	42.9	<0.01	0.04	1.6	0.022
ZZ92688		14.0	730	8.9	8.8	0.001	0.04	1.14	1.9	0.8	0.5	32.7	<0.01	0.02	0.7	0.024
ZZ92689		21.5	810	16.4	8.6	0.001	0.03	2.08	3.1	1.0	0.8	31.2	<0.01	0.03	1.9	0.024
ZZ92690		24.9	610	19.8	10.4	0.001	0.02	2.02	3.9	1.3	0.8	27.8	<0.01	0.03	1.9	0.020
ZZ92691		20.3	770	19.1	8.0	0.001	0.01	2.74	2.9	0.9	0.7	25.1	<0.01	0.03	2.3	0.022
ZZ92692		22.7	930	18.1	10.3	0.001	0.03	2.71	3.0	1.2	0.7	34.7	<0.01	0.03	1.4	0.022
ZZ92693		25.7	720	20.1	9.9	0.001	0.04	1.96	3.0	1.3	0.7	35.2	<0.01	0.03	1.4	0.023
ZZ92694		17.1	430	21.4	13.2	0.001	0.01	2.65	2.4	0.8	0.9	22.8	<0.01	0.05	1.5	0.026
ZZ92695		11.8	360	12.5	9.4	<0.001	0.02	1.38	1.5	0.6	0.6	23.9	<0.01	0.02	1.0	0.026
ZZ92696		8.6	160	8.3	5.1	0.001	<0.01	0.87	1.4	0.6	0.6	15.4	<0.01	0.03	1.8	0.042
ZZ92697		12.6	650	11.7	8.0	0.001	0.05	1.46	1.7	0.8	0.5	37.9	<0.01	0.02	0.7	0.023
ZZ92698		20.5	1020	14.9	9.7	0.007	0.10	2.77	2.1	3.1	0.5	51.1	<0.01	0.02	0.8	0.015
ZZ92699		18.2	1140	24.1	12.7	0.003	0.06	3.47	2.2	1.5	0.4	53.9	<0.01	0.03	1.0	0.014
ZZ92700		20.3	1030	24.5	10.1	0.004	0.04	3.70	2.9	1.9	0.5	42.5	<0.01	0.04	1.7	0.017
ZZ92701		22.4	900	9.9	10.3	0.001	0.02	1.11	1.9	1.2	0.5	24.2	<0.01	0.05	0.6	0.019
ZZ92702		18.7	860	10.6	9.7	0.002	0.03	0.57	2.3	1.9	0.5	24.9	<0.01	0.04	0.8	0.014
ZZ92703		13.8	700	9.8	7.7	0.001	0.03	0.55	2.1	1.4	0.4	29.0	<0.01	0.03	1.1	0.013
ZZ92704		41.4	1020	18.3	11.4	0.002	0.03	1.54	6.6	5.0	0.6	48.0	<0.01	0.06	3.8	0.013
ZZ92705		20.9	770	9.7	8.7	<0.001	<0.01	0.60	2.6	0.8	0.5	23.5	<0.01	0.04	3.6	0.018
ZZ92706		20.4	600	11.0	6.9	<0.001	<0.01	0.66	2.5	0.8	0.5	16.2	<0.01	0.03	1.9	0.026
ZZ92707		24.7	770	10.9	8.0	<0.001	<0.01	0.86	3.2	0.8	0.5	25.3	<0.01	0.05	3.6	0.027
ZZ92708		29.2	1220	12.5	6.1	0.001	0.01	2.25	3.4	1.6	0.5	38.5	<0.01	0.04	5.1	0.026
ZZ92709		22.7	1010	12.9	12.3	0.002	0.02	1.34	3.8	1.8	0.9	34.7	<0.01	0.05	3.2	0.012
ZZ92710		13.1	800	9.7	6.5	0.005	0.05	1.79	1.6	2.5	0.7	27.6	<0.01	0.04	0.7	0.027
ZZ92711		30.1	1220	20.2	8.7	0.002	0.02	3.47	4.2	1.7	1.9	41.0	<0.01	0.06	2.7	0.016
ZZ92712		28.9	1050	13.1	7.9	0.002	0.05	1.60	4.1	3.0	0.5	59.2	<0.01	0.04	2.1	0.012
ZZ92713		16.3	630	12.6	9.9	0.001	0.01	1.52	2.0	0.8	0.7	27.5	<0.01	0.05	1.6	0.019
ZZ92714		18.6	950	11.8	9.9	0.007	0.08	2.97	3.0	5.1	0.6	42.5	<0.01	0.04	1.6	0.018
ZZ92715		18.6	830	11.4	8.9	0.001	0.03	0.95	2.9	2.7	0.5	35.1	<0.01	0.04	2.6	0.019
ZZ92716		16.4	880	7.3	6.7	0.002	0.06	0.92	1.8	2.1	0.3	42.0	<0.01	0.02	0.8	0.021
ZZ92717		19.9	870	16.5	8.9	0.009	0.08	2.30	2.7	7.1	0.8	42.5	<0.01	0.04	1.2	0.020
ZZ92718		18.6	780	31.1	7.8	0.006	0.10	4.92	0.9	6.9	2.2	56.7	<0.01	0.03	0.3	0.018
ZZ92719		25.0	2010	28.3	11.2	0.007	0.08	2.91	2.7	6.4	2.1	51.7	<0.01	0.06	1.1	0.019
ZZ92720		23.4	1110	10.5	9.5	0.004	0.06	1.49	2.4	3.5	0.4	51.7	<0.01	0.04	1.0	0.014



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92681		0.14	2.40	47	0.21	12.15	100	1.1	0.003
ZZ92682		0.22	0.90	66	0.25	4.88	140	0.5	0.007
ZZ92683		0.22	0.91	44	0.14	6.21	116	<0.5	0.002
ZZ92684		0.18	0.72	56	0.18	4.10	151	<0.5	0.002
ZZ92685		0.21	1.23	54	0.20	8.95	194	<0.5	0.003
ZZ92686		0.16	1.21	43	0.18	8.29	114	1.0	0.003
ZZ92687		0.15	1.67	43	0.27	12.40	117	1.1	0.003
ZZ92688		0.11	1.01	31	0.17	5.45	51	0.7	0.002
ZZ92689		0.13	1.42	42	0.29	7.28	92	0.9	0.002
ZZ92690		0.13	1.33	46	0.29	12.95	112	0.7	0.002
ZZ92691		0.15	0.77	42	0.14	5.70	137	0.7	0.003
ZZ92692		0.14	1.51	44	0.14	9.11	149	0.9	0.003
ZZ92693		0.12	1.69	45	0.17	10.60	85	0.8	0.003
ZZ92694		0.16	0.64	58	0.30	3.72	117	<0.5	0.002
ZZ92695		0.11	0.89	41	0.30	3.26	63	<0.5	0.002
ZZ92696		0.10	0.38	46	0.21	2.00	43	0.5	0.001
ZZ92697		0.11	1.12	32	0.11	4.85	71	0.9	0.002
ZZ92698		0.16	2.38	29	0.06	8.73	119	1.9	0.003
ZZ92699		0.15	1.12	36	0.09	7.31	155	1.1	0.003
ZZ92700		0.15	1.53	39	0.09	9.85	130	1.3	0.003
ZZ92701		0.17	0.74	52	0.49	5.86	100	<0.5	0.002
ZZ92702		0.19	1.14	41	0.28	7.55	73	<0.5	0.003
ZZ92703		0.14	0.89	38	0.25	5.37	64	<0.5	0.002
ZZ92704		0.22	2.28	56	0.19	20.1	141	1.3	0.007
ZZ92705		0.17	0.74	43	0.26	5.40	90	1.3	0.003
ZZ92706		0.13	0.87	43	0.23	6.85	68	<0.5	0.004
ZZ92707		0.19	1.18	42	0.26	7.92	88	0.9	0.007
ZZ92708		0.16	1.21	38	0.11	12.35	132	3.9	0.004
ZZ92709		0.26	1.14	44	0.09	10.05	114	2.0	0.005
ZZ92710		0.16	1.52	28	0.06	8.31	80	1.6	0.003
ZZ92711		0.35	1.26	46	0.12	15.40	155	1.4	0.005
ZZ92712		0.21	3.96	41	0.10	17.85	124	1.7	0.004
ZZ92713		0.18	0.66	63	0.21	3.09	88	<0.5	0.001
ZZ92714		0.20	3.20	37	0.10	11.05	118	1.5	0.003
ZZ92715		0.16	1.37	40	0.33	7.03	111	1.6	0.003
ZZ92716		0.12	1.37	30	0.09	8.09	71	1.6	0.002
ZZ92717		0.20	2.64	44	0.18	10.60	120	1.6	0.005
ZZ92718		0.19	1.80	23	0.07	6.67	85	1.8	0.003
ZZ92719		0.31	1.87	43	0.08	13.50	136	2.0	0.009
ZZ92720		0.21	1.76	39	0.10	10.05	125	1.6	0.003



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ92721		0.36	0.24	0.78	6.0	<0.2	<10	290	0.38	0.12	0.93	0.49	17.80	5.2	13	0.70
ZZ92722		0.33	0.56	1.20	7.8	<0.2	<10	590	0.74	0.19	1.08	1.20	30.8	7.6	20	1.06
ZZ92723		0.38	0.43	1.14	10.5	<0.2	<10	570	0.66	0.20	0.49	0.75	34.9	9.1	19	0.89
ZZ92724		0.38	0.28	0.73	9.3	<0.2	<10	370	0.44	0.16	0.41	0.77	33.9	8.0	15	0.73
ZZ92725		0.42	0.79	1.24	13.6	<0.2	<10	590	0.77	0.22	1.02	1.61	32.0	9.6	28	1.63
ZZ92726		0.42	0.41	1.07	11.2	<0.2	<10	560	0.60	0.20	0.50	0.84	32.3	8.5	19	1.03
ZZ92727		0.48	0.37	1.02	10.2	<0.2	<10	550	0.55	0.18	0.39	0.72	27.8	7.3	18	0.91
ZZ92728		0.50	0.44	1.37	10.5	<0.2	<10	560	0.60	0.21	0.50	0.74	28.7	7.4	22	1.40
ZZ92729		0.37	0.36	0.89	7.3	<0.2	<10	420	0.37	0.15	0.45	0.50	17.55	3.8	14	1.05
ZZ92730		0.30	0.82	1.56	19.7	<0.2	<10	500	0.72	0.20	0.64	1.57	32.5	8.1	33	2.07
ZZ92731		0.27	0.35	0.92	7.4	<0.2	<10	370	0.40	0.09	0.74	0.91	18.10	4.9	12	0.94
ZZ92732		0.24	0.22	0.83	6.4	<0.2	<10	460	0.34	0.14	0.78	0.72	17.50	4.7	14	0.69
ZZ92733		0.35	0.22	0.80	4.7	<0.2	<10	460	0.33	0.12	0.66	0.53	18.25	5.4	13	0.81
ZZ92734		0.29	0.23	0.90	4.1	<0.2	<10	520	0.35	0.14	0.64	0.44	19.50	4.3	14	0.92
ZZ92735		0.47	0.34	1.21	9.4	<0.2	<10	600	0.53	0.21	0.35	0.71	31.3	7.4	21	1.15
ZZ92736		0.29	0.40	1.24	9.3	<0.2	<10	560	0.58	0.20	0.41	0.63	29.7	8.6	23	1.16
ZZ92737		0.39	0.33	1.25	8.6	<0.2	<10	530	0.59	0.20	0.42	0.45	34.8	8.2	26	1.16
ZZ92738		0.43	0.48	1.31	10.8	<0.2	<10	500	0.62	0.22	0.51	0.89	36.9	8.6	26	1.39
ZZ92739		0.32	0.38	1.04	7.4	<0.2	<10	300	0.33	0.21	0.26	0.56	25.0	3.2	18	1.10
ZZ92740		0.24	0.20	0.89	7.3	<0.2	<10	280	0.29	0.14	0.31	0.44	19.55	4.1	14	0.95
ZZ92741		0.33	0.39	1.31	8.7	<0.2	<10	330	0.43	0.21	0.35	0.70	31.3	4.8	24	1.57
ZZ92742		0.49	0.77	1.09	39.4	<0.2	<10	350	0.46	0.19	0.36	0.66	26.4	7.1	20	1.46
ZZ92743		0.38	0.36	1.15	14.7	<0.2	<10	340	0.46	0.20	0.45	0.44	33.3	6.9	19	1.89
ZZ92744		0.43	0.18	0.98	8.5	<0.2	<10	290	0.36	0.16	0.39	0.32	28.4	5.2	17	1.30
ZZ92745		0.30	0.87	1.25	26.6	<0.2	<10	610	0.51	0.17	0.87	0.79	22.9	6.6	18	1.53
ZZ92746		0.36	0.85	1.42	43.4	<0.2	<10	590	0.60	0.21	0.71	6.45	29.7	7.1	19	1.73
ZZ92747		0.26	0.73	1.31	9.9	<0.2	<10	520	0.42	0.16	0.68	3.20	19.15	7.9	15	1.73
ZZ92748		0.44	0.41	1.68	15.8	<0.2	<10	530	0.72	0.25	0.39	0.94	31.0	7.7	25	2.22
ZZ92749		0.44	0.24	1.27	10.8	<0.2	<10	370	0.41	0.20	0.45	0.89	38.1	5.5	22	1.33
ZZ92750		0.28	0.30	1.48	4.5	<0.2	<10	700	0.51	0.20	0.58	30.8	23.3	5.7	22	1.15
ZZ92751		0.39	0.53	1.22	13.2	<0.2	<10	540	0.60	0.26	0.67	1.15	32.9	6.9	26	1.19
ZZ92752		0.27	0.40	1.07	12.1	<0.2	<10	520	0.46	0.18	0.63	1.34	22.2	4.8	16	0.97
ZZ92753		0.38	0.58	0.93	15.3	<0.2	<10	430	0.42	0.21	0.37	0.50	22.1	9.3	15	1.03
ZZ92754		0.39	0.33	0.61	17.9	<0.2	<10	490	0.34	0.16	0.63	1.08	17.95	8.1	10	0.64
ZZ92755		0.34	0.41	1.22	11.1	<0.2	<10	520	0.54	0.23	0.53	0.89	26.3	6.1	20	0.89
ZZ92756		0.37	0.21	1.36	16.3	<0.2	<10	540	0.61	0.25	0.21	0.47	34.4	8.5	25	1.32
ZZ92757		0.31	0.36	1.49	15.0	<0.2	<10	490	0.74	0.24	0.18	1.00	33.2	6.6	23	1.49
ZZ92758		0.40	0.44	1.17	9.5	<0.2	<10	630	0.56	0.20	0.39	0.42	25.9	6.5	18	1.16
ZZ92759		0.26	0.39	1.36	10.4	<0.2	<10	600	0.56	0.17	0.55	0.38	23.4	5.9	17	1.10
ZZ92760		0.44	0.35	1.01	13.8	<0.2	<10	460	0.46	0.19	0.60	0.70	25.0	5.8	16	0.97





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Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ92721		23.3	1.31	2.54	<0.05	0.05	0.08	0.014	0.05	8.8	7.2	0.24	211	1.89	0.02	0.66
ZZ92722		43.7	1.86	3.41	0.06	0.05	0.16	0.029	0.08	17.2	14.0	0.43	678	1.88	0.01	0.62
ZZ92723		37.8	2.34	3.46	0.06	0.02	0.16	0.029	0.09	17.0	13.1	0.39	443	2.67	0.01	0.65
ZZ92724		27.3	1.83	2.50	0.06	0.02	0.10	0.018	0.06	16.6	9.7	0.28	341	2.28	0.01	0.63
ZZ92725		47.3	2.47	3.70	0.06	0.07	0.21	0.032	0.14	16.5	14.6	0.57	435	3.67	0.01	0.65
ZZ92726		33.7	2.17	3.39	0.05	0.02	0.15	0.027	0.08	16.5	13.1	0.35	355	2.67	0.01	0.69
ZZ92727		30.7	2.02	3.25	0.05	0.03	0.16	0.024	0.07	14.7	11.8	0.29	303	2.11	0.01	0.63
ZZ92728		31.6	2.02	4.09	0.05	<0.02	0.13	0.028	0.07	14.3	13.6	0.32	342	2.07	0.01	0.60
ZZ92729		26.1	1.41	3.08	<0.05	<0.02	0.12	0.018	0.06	9.3	6.7	0.18	133	1.67	0.02	0.41
ZZ92730		22.9	2.19	4.31	0.06	0.04	0.12	0.044	0.07	18.3	16.0	0.58	411	2.91	0.01	0.55
ZZ92731		17.1	1.21	2.70	<0.05	<0.02	0.06	0.022	0.04	9.2	5.9	0.20	1020	1.74	0.02	0.41
ZZ92732		18.0	1.22	2.75	<0.05	0.02	0.09	0.017	0.05	8.7	8.2	0.27	287	0.56	0.02	0.64
ZZ92733		18.3	1.37	2.68	<0.05	0.02	0.10	0.018	0.04	9.0	7.0	0.23	462	0.80	0.02	0.57
ZZ92734		21.2	1.17	2.83	<0.05	0.03	0.12	0.018	0.05	9.8	8.2	0.25	201	0.70	0.02	0.69
ZZ92735		27.8	2.10	4.10	<0.05	0.03	0.19	0.026	0.06	15.8	13.8	0.31	224	1.77	0.01	0.90
ZZ92736		28.5	2.21	4.32	0.05	0.02	0.14	0.027	0.05	14.6	13.0	0.32	397	1.59	0.01	0.97
ZZ92737		25.9	1.98	4.01	0.05	0.04	0.12	0.030	0.07	17.4	15.1	0.42	263	1.48	0.01	0.94
ZZ92738		29.5	2.05	4.25	0.05	0.03	0.13	0.032	0.07	19.0	13.9	0.41	288	1.46	0.01	1.06
ZZ92739		16.7	1.34	3.94	<0.05	<0.02	0.16	0.023	0.06	12.9	12.1	0.28	80	1.11	<0.01	0.81
ZZ92740		12.6	1.26	3.23	<0.05	0.02	0.09	0.018	0.04	9.9	9.2	0.22	185	0.83	0.01	0.72
ZZ92741		19.6	1.41	4.67	<0.05	0.02	0.12	0.027	0.07	16.4	16.1	0.45	124	1.08	<0.01	0.97
ZZ92742		23.6	1.80	3.67	<0.05	0.03	0.13	0.029	0.09	13.6	12.5	0.38	421	2.25	0.01	0.61
ZZ92743		14.8	1.97	4.03	0.05	0.04	0.10	0.026	0.07	17.4	13.3	0.37	453	2.32	<0.01	0.77
ZZ92744		12.6	1.58	3.50	<0.05	0.04	0.08	0.023	0.06	14.4	11.4	0.33	179	1.22	0.01	0.81
ZZ92745		22.8	1.67	3.93	<0.05	0.05	0.12	0.034	0.06	12.0	11.6	0.29	550	0.98	0.01	0.64
ZZ92746		25.5	1.96	4.27	0.05	0.05	0.19	0.057	0.07	15.4	12.6	0.30	360	1.48	0.01	0.76
ZZ92747		21.0	1.64	4.22	<0.05	0.02	0.12	0.030	0.07	9.7	9.2	0.20	1440	1.45	0.02	0.59
ZZ92748		29.2	2.88	5.38	0.05	0.02	0.09	0.035	0.07	16.5	16.5	0.39	446	2.16	<0.01	0.87
ZZ92749		8.5	2.12	4.30	0.05	0.04	0.06	0.025	0.06	19.4	23.3	0.42	236	1.48	<0.01	1.07
ZZ92750		27.1	2.19	4.47	0.10	0.04	0.16	0.025	0.03	12.0	11.2	0.29	217	0.73	0.01	1.11
ZZ92751		30.6	2.11	3.99	0.06	0.05	0.18	0.031	0.09	18.0	16.7	0.41	308	1.48	0.01	0.76
ZZ92752		24.0	1.53	3.26	<0.05	0.04	0.11	0.024	0.07	11.8	10.3	0.27	183	1.03	0.01	0.60
ZZ92753		23.0	2.27	3.57	<0.05	0.04	0.15	0.025	0.04	11.1	7.7	0.18	1430	2.61	0.02	0.53
ZZ92754		22.4	1.89	2.41	<0.05	0.02	0.08	0.017	0.05	9.0	5.2	0.17	1700	3.31	0.02	0.43
ZZ92755		29.5	1.75	3.89	<0.05	0.03	0.16	0.025	0.06	13.4	12.8	0.30	226	1.22	0.01	0.87
ZZ92756		23.6	2.66	4.38	<0.05	0.02	0.06	0.033	0.07	17.2	18.3	0.40	355	1.76	<0.01	0.77
ZZ92757		35.3	2.43	4.80	0.05	0.02	0.07	0.036	0.08	17.1	13.5	0.29	281	2.04	<0.01	0.74
ZZ92758		30.8	1.79	3.68	<0.05	0.04	0.15	0.028	0.07	13.4	10.3	0.27	362	1.87	0.01	0.63
ZZ92759		23.7	1.98	3.88	<0.05	0.03	0.11	0.025	0.07	12.5	10.1	0.27	348	1.38	0.01	0.53
ZZ92760		22.0	1.71	3.23	<0.05	0.05	0.10	0.027	0.07	12.8	10.0	0.30	263	1.70	0.01	0.61



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.005
ZZ92721		18.3	740	7.0	5.6	0.002	0.03	1.06	2.0	1.5	0.3	35.9	<0.01	0.03	1.1	0.020
ZZ92722		32.6	930	11.9	12.0	0.001	0.05	1.17	3.6	1.6	0.4	43.0	<0.01	0.05	1.6	0.012
ZZ92723		31.2	980	13.9	7.5	<0.001	0.01	1.54	4.6	1.2	0.4	32.4	<0.01	0.04	3.4	0.016
ZZ92724		23.9	1090	11.4	5.1	0.001	<0.01	1.60	3.0	0.7	0.3	35.5	<0.01	0.05	3.8	0.024
ZZ92725		42.5	1490	15.2	12.4	0.001	0.02	2.29	5.3	2.4	0.6	48.9	<0.01	0.06	4.2	0.017
ZZ92726		29.9	1010	13.0	7.8	0.001	0.01	1.73	3.8	1.5	0.6	38.0	<0.01	0.06	3.2	0.018
ZZ92727		27.7	940	11.1	7.3	<0.001	0.01	1.36	3.8	1.4	0.4	35.1	<0.01	0.04	2.4	0.016
ZZ92728		28.7	1070	12.4	10.0	0.001	0.01	1.28	2.6	1.1	0.6	30.6	<0.01	0.05	1.2	0.013
ZZ92729		15.7	650	8.9	7.8	<0.001	0.01	1.12	1.3	0.7	0.5	24.6	<0.01	0.04	0.4	0.013
ZZ92730		32.3	1790	34.8	17.1	0.001	0.02	6.50	2.9	2.0	1.8	36.4	<0.01	0.05	1.5	0.014
ZZ92731		14.2	1270	17.2	8.4	0.001	0.06	3.26	0.5	2.0	1.0	31.8	<0.01	0.02	<0.2	0.016
ZZ92732		13.4	800	10.1	7.3	0.001	0.05	1.15	1.9	0.9	0.6	37.8	<0.01	0.02	0.8	0.016
ZZ92733		13.9	790	9.2	8.3	0.001	0.04	1.12	2.1	0.8	0.5	33.9	<0.01	0.03	0.9	0.017
ZZ92734		16.1	760	9.4	8.0	<0.001	0.04	0.91	2.1	0.8	0.5	37.2	<0.01	0.03	0.9	0.017
ZZ92735		23.8	870	13.6	10.1	0.002	0.01	0.98	3.9	1.5	0.5	29.2	<0.01	0.03	2.8	0.014
ZZ92736		24.4	860	13.2	9.0	0.001	0.02	1.25	3.7	1.2	0.6	28.0	<0.01	0.03	2.0	0.018
ZZ92737		27.9	1030	17.8	10.1	0.001	0.01	1.67	4.1	2.1	0.7	30.4	<0.01	0.04	4.2	0.017
ZZ92738		27.2	1080	17.2	10.3	0.001	0.01	2.73	4.6	1.7	0.8	31.2	<0.01	0.05	4.5	0.019
ZZ92739		13.7	750	16.4	10.0	0.002	0.03	2.26	2.4	1.1	0.9	22.4	<0.01	0.03	2.2	0.015
ZZ92740		11.5	790	11.8	7.8	0.001	0.04	1.08	1.9	0.9	0.4	24.3	<0.01	0.02	1.0	0.016
ZZ92741		18.0	790	19.7	11.6	0.003	0.03	1.91	3.5	1.5	0.9	27.9	<0.01	0.03	3.3	0.020
ZZ92742		19.5	940	45.1	10.2	0.001	0.03	4.59	3.0	1.5	1.3	30.5	<0.01	0.05	2.3	0.016
ZZ92743		17.3	890	21.3	10.5	0.001	0.03	3.29	3.0	1.4	0.9	32.6	<0.01	0.03	2.8	0.015
ZZ92744		14.7	910	12.4	8.8	0.001	0.02	1.75	2.7	1.2	0.6	31.8	<0.01	0.01	2.8	0.025
ZZ92745		19.0	1160	54.1	12.6	0.001	0.07	3.06	2.5	1.6	0.8	55.0	<0.01	0.03	1.3	0.010
ZZ92746		22.0	1220	63.3	12.3	0.002	0.06	6.95	3.3	3.5	0.8	46.2	<0.01	0.03	2.1	0.013
ZZ92747		18.5	1000	20.6	13.8	0.001	0.05	1.50	1.3	1.3	0.5	48.7	<0.01	0.03	0.5	0.014
ZZ92748		28.1	590	18.1	15.5	0.001	0.01	1.51	3.6	1.4	0.7	27.7	<0.01	0.03	2.3	0.015
ZZ92749		17.4	1110	9.3	10.0	0.001	0.01	1.80	3.1	1.0	0.6	30.8	<0.01	0.02	5.1	0.032
ZZ92750		17.4	1090	10.9	4.0	0.012	0.15	5.31	2.5	31.5	0.5	36.1	<0.01	0.02	1.2	0.021
ZZ92751		27.3	930	16.3	11.1	0.001	0.02	1.33	5.7	1.7	0.6	40.8	<0.01	0.02	2.6	0.019
ZZ92752		18.4	810	14.4	11.2	0.003	0.06	1.59	3.0	1.4	0.5	35.4	<0.01	0.01	1.2	0.017
ZZ92753		15.9	1110	13.2	5.9	0.002	0.05	2.16	2.3	1.7	0.4	28.9	<0.01	0.03	0.8	0.019
ZZ92754		20.1	610	11.1	4.6	0.001	0.02	2.62	2.2	1.2	0.3	34.7	<0.01	0.02	1.2	0.024
ZZ92755		23.8	620	12.1	8.3	0.002	0.02	1.23	3.6	1.5	0.5	32.5	<0.01	0.03	1.8	0.023
ZZ92756		22.6	610	18.4	9.6	0.001	0.01	1.76	5.2	0.8	0.6	20.9	<0.01	0.02	3.4	0.014
ZZ92757		25.8	750	15.0	13.3	<0.001	0.01	1.19	3.3	1.4	0.6	19.8	<0.01	0.04	1.4	0.011
ZZ92758		23.6	960	12.0	10.4	0.002	0.03	1.24	2.8	1.9	0.4	30.9	<0.01	0.04	1.2	0.014
ZZ92759		18.9	1120	15.2	14.5	0.001	0.04	1.36	2.0	1.2	0.4	35.7	<0.01	0.04	0.6	0.021
ZZ92760		19.4	990	21.2	8.7	0.001	0.03	2.30	2.5	1.1	0.5	37.7	<0.01	0.04	1.5	0.017



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92721		0.12	0.90	30	0.10	6.86	74	2.2	0.008
ZZ92722		0.24	0.97	44	0.13	18.15	137	1.8	0.005
ZZ92723		0.16	1.09	45	0.14	12.20	137	1.0	0.004
ZZ92724		0.13	0.96	38	0.11	9.92	115	1.2	0.003
ZZ92725		0.33	1.31	56	0.14	15.20	188	2.9	0.006
ZZ92726		0.17	1.23	46	0.12	11.45	143	0.9	0.005
ZZ92727		0.18	1.25	43	0.15	11.85	128	1.0	0.004
ZZ92728		0.23	1.40	49	1.12	9.55	125	0.5	0.005
ZZ92729		0.18	0.66	37	0.17	6.84	74	<0.5	0.003
ZZ92730		0.55	1.55	56	0.16	14.40	213	1.0	0.006
ZZ92731		0.15	0.98	30	0.10	7.02	90	0.5	0.002
ZZ92732		0.12	1.12	31	0.10	5.82	73	0.8	0.002
ZZ92733		0.12	1.22	33	0.27	6.78	64	0.7	0.001
ZZ92734		0.13	0.97	30	0.09	7.50	65	1.0	0.002
ZZ92735		0.19	1.31	44	0.19	9.83	98	0.9	0.004
ZZ92736		0.17	1.35	46	0.18	9.71	87	0.5	0.005
ZZ92737		0.20	1.40	46	0.13	10.95	109	1.4	0.005
ZZ92738		0.22	1.79	49	0.39	12.95	107	1.4	0.005
ZZ92739		0.20	1.02	36	0.25	5.54	78	0.5	0.008
ZZ92740		0.14	0.99	28	0.11	5.60	64	0.5	0.001
ZZ92741		0.21	1.22	40	0.15	7.33	98	1.0	0.004
ZZ92742		0.18	1.34	43	0.09	8.48	102	1.2	0.006
ZZ92743		0.17	1.26	42	0.18	8.20	94	1.3	0.003
ZZ92744		0.13	1.09	38	0.13	7.09	88	1.4	0.003
ZZ92745		0.16	1.62	36	0.10	8.40	104	1.6	0.004
ZZ92746		0.19	3.88	46	0.19	10.90	337	1.7	0.005
ZZ92747		0.16	0.93	38	0.15	6.15	299	0.7	0.003
ZZ92748		0.20	1.31	54	0.19	8.65	165	0.7	0.003
ZZ92749		0.14	1.35	39	0.16	8.67	432	1.3	0.003
ZZ92750		0.13	7.30	47	0.14	7.96	601	1.6	0.004
ZZ92751		0.18	1.51	45	0.21	15.40	139	1.6	0.004
ZZ92752		0.15	1.23	34	0.07	8.96	115	1.3	0.005
ZZ92753		0.14	1.10	40	0.14	9.99	67	1.1	0.004
ZZ92754		0.10	1.09	36	0.09	6.78	71	0.8	0.003
ZZ92755		0.13	1.62	39	0.29	10.65	90	1.0	0.003
ZZ92756		0.14	0.91	48	0.15	9.30	98	0.6	0.005
ZZ92757		0.16	1.93	51	0.17	10.05	100	0.6	0.005
ZZ92758		0.16	1.56	44	0.12	10.15	100	1.2	0.005
ZZ92759		0.16	1.51	48	0.08	9.51	142	1.0	0.004
ZZ92760		0.13	1.15	39	0.17	7.96	121	1.6	0.003



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ92761		0.26	0.30	1.13	17.8	<0.2	<10	600	0.60	0.21	0.49	0.61	26.5	7.6	18	1.03
ZZ92762		0.37	0.51	0.95	21.8	<0.2	<10	370	0.43	0.18	0.26	0.88	23.6	4.7	13	1.34
ZZ92763		0.35	0.16	1.11	16.9	<0.2	<10	330	0.52	0.21	0.16	0.60	27.4	6.7	19	1.33
ZZ92764		0.43	0.10	1.35	13.1	<0.2	<10	520	0.69	0.21	0.35	0.28	34.8	7.5	21	1.39
ZZ92765		0.32	0.34	1.30	13.1	<0.2	<10	760	0.60	0.20	0.51	0.59	29.9	8.0	21	1.36
ZZ92766		0.30	0.19	1.47	14.4	<0.2	<10	290	0.60	0.22	0.20	0.45	32.3	8.7	20	1.69
ZZ92767		0.35	0.19	1.46	10.9	<0.2	<10	450	0.49	0.23	0.32	0.25	26.7	6.4	23	1.34
ZZ92768		0.30	0.32	1.42	10.9	<0.2	<10	660	0.60	0.21	0.43	0.53	32.3	7.8	23	1.17
ZZ92769		0.37	0.50	1.27	23.1	<0.2	<10	590	0.82	0.22	0.47	0.62	39.3	8.4	19	1.94
ZZ92770		0.32	0.16	1.43	13.5	<0.2	<10	390	0.57	0.24	0.36	0.47	28.4	7.4	24	1.57
ZZ92771		0.29	0.11	1.52	24.8	<0.2	<10	280	0.63	0.26	0.50	0.36	31.1	7.1	21	2.14
ZZ92772		0.41	0.15	1.50	14.3	<0.2	<10	270	0.53	0.26	0.25	0.38	34.6	6.1	24	1.77
ZZ92773		0.35	0.06	1.41	10.6	<0.2	<10	190	0.47	0.20	0.24	0.11	31.8	8.3	25	1.32
ZZ92774		0.40	0.26	1.29	18.3	<0.2	<10	500	0.75	0.23	0.29	0.92	49.9	10.5	19	1.87
ZZ92775		0.39	0.29	1.23	12.1	<0.2	<10	290	0.57	0.18	0.27	0.69	35.1	8.3	18	1.40
ZZ92776		0.29	0.14	1.49	18.2	<0.2	<10	210	0.60	0.20	0.23	0.49	33.2	10.4	25	1.68
ZZ92777		0.36	0.12	1.18	17.2	<0.2	<10	490	0.88	0.23	0.26	0.65	55.6	9.4	19	1.31
ZZ92778		0.35	0.16	1.12	13.2	<0.2	<10	180	0.40	0.21	0.13	0.39	25.2	5.4	17	1.49
ZZ92779		0.35	0.38	1.54	16.9	<0.2	<10	330	0.58	0.24	0.39	0.67	29.7	7.4	25	1.52
ZZ92780		0.38	0.33	1.89	12.4	<0.2	<10	350	0.69	0.24	0.21	0.62	34.8	9.1	27	1.66
ZZ92781		0.36	0.11	1.33	14.8	<0.2	<10	210	0.57	0.18	0.15	0.46	33.3	8.6	16	1.26
ZZ92782		0.38	0.12	1.52	18.4	<0.2	<10	240	0.75	0.18	0.18	0.67	34.4	12.4	18	1.49
ZZ92783		0.43	0.22	1.73	15.8	<0.2	<10	300	0.71	0.26	0.24	0.46	34.1	8.5	25	1.70
ZZ92784		0.36	0.17	1.75	17.5	<0.2	<10	400	0.92	0.20	0.26	0.66	51.2	10.0	18	1.73
ZZ92785		0.33	0.18	1.27	13.8	<0.2	<10	260	0.57	0.18	0.20	0.35	35.7	7.9	20	1.22
ZZ92786		0.40	0.27	1.11	10.6	<0.2	<10	330	0.43	0.16	0.28	0.22	33.4	5.7	20	1.16
ZZ92787		0.41	0.10	1.12	17.6	<0.2	<10	250	0.47	0.17	0.50	0.50	30.5	7.9	17	1.47
ZZ92788		0.40	0.20	1.05	19.8	<0.2	<10	370	0.54	0.20	0.28	0.55	34.7	8.7	17	1.02
ZZ92789		0.33	0.87	0.93	63.0	<0.2	<10	230	0.44	1.33	0.36	1.02	26.4	4.6	15	1.66
ZZ92790		0.31	0.29	1.13	9.8	<0.2	<10	380	0.46	0.18	0.51	1.96	27.6	7.0	18	1.12
ZZ92791		0.32	0.52	1.40	21.2	<0.2	<10	470	0.51	0.21	0.51	0.44	26.7	7.3	23	1.53
ZZ92792		0.27	0.88	0.96	25.0	<0.2	<10	470	0.47	0.40	0.88	1.08	23.6	6.4	15	1.96
ZZ92793		0.46	0.41	1.30	17.0	<0.2	<10	390	0.59	0.20	0.31	0.74	33.3	8.7	19	1.82
ZZ92794		0.39	0.20	0.90	8.9	<0.2	<10	280	0.33	0.11	0.37	0.43	17.10	4.6	12	1.06
ZZ92795		0.31	0.89	1.02	41.4	<0.2	<10	320	0.47	0.09	0.89	1.01	15.60	4.4	13	1.39
ZZ92796		0.25	0.44	0.95	13.4	<0.2	<10	480	0.54	0.13	1.14	0.92	23.6	5.9	16	0.76



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Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ92761		27.1	2.05	3.94	<0.05	0.03	0.09	0.029	0.08	13.3	10.6	0.30	546	1.74	0.01	0.63
ZZ92762		22.3	1.64	3.30	<0.05	<0.02	0.08	0.022	0.08	12.2	7.4	0.21	186	1.56	0.02	0.35
ZZ92763		16.2	1.99	4.06	<0.05	<0.02	0.05	0.024	0.08	13.8	11.3	0.28	300	1.60	0.01	0.73
ZZ92764		21.2	2.59	4.12	<0.05	0.02	0.05	0.033	0.08	17.6	16.3	0.38	407	1.88	<0.01	0.64
ZZ92765		21.6	2.16	4.25	<0.05	0.02	0.08	0.026	0.06	14.3	12.4	0.33	618	1.54	<0.01	0.68
ZZ92766		17.9	2.54	4.32	<0.05	0.03	0.05	0.031	0.07	16.0	15.8	0.34	263	1.68	<0.01	1.14
ZZ92767		16.1	2.27	5.18	<0.05	<0.02	0.04	0.026	0.05	13.2	12.7	0.35	198	1.41	<0.01	0.74
ZZ92768		18.7	2.23	4.67	<0.05	0.02	0.08	0.028	0.06	15.1	16.8	0.36	320	1.55	0.01	0.81
ZZ92769		35.8	2.63	3.84	0.06	0.03	0.19	0.035	0.09	22.0	16.8	0.35	334	2.61	0.01	0.55
ZZ92770		17.5	2.30	4.79	<0.05	<0.02	0.04	0.026	0.06	14.1	13.7	0.37	360	1.58	0.01	0.85
ZZ92771		18.9	2.78	5.23	<0.05	0.03	0.09	0.032	0.09	15.3	18.3	0.40	466	2.94	<0.01	0.70
ZZ92772		16.5	2.45	5.66	0.05	<0.02	0.07	0.029	0.06	17.2	12.7	0.35	227	1.80	<0.01	0.40
ZZ92773		14.3	2.32	4.28	<0.05	0.02	0.04	0.021	0.05	15.6	11.7	0.42	256	1.15	0.01	1.08
ZZ92774		35.2	2.56	3.96	0.07	0.02	0.10	0.031	0.08	25.1	13.2	0.33	491	2.57	<0.01	0.79
ZZ92775		20.8	2.03	3.57	0.05	0.03	0.08	0.022	0.06	17.9	11.9	0.33	317	1.68	0.01	0.56
ZZ92776		21.8	2.82	3.94	0.05	0.07	0.07	0.034	0.08	16.1	17.1	0.31	508	2.34	0.01	1.00
ZZ92777		27.1	2.53	3.74	0.09	0.03	0.07	0.028	0.07	27.5	12.7	0.32	474	2.15	0.01	0.65
ZZ92778		15.2	2.13	4.71	<0.05	<0.02	0.05	0.021	0.05	12.5	11.2	0.26	247	1.65	0.01	0.66
ZZ92779		18.6	2.55	5.04	0.05	0.04	0.07	0.030	0.05	14.8	16.1	0.38	293	1.73	<0.01	1.14
ZZ92780		14.4	2.47	5.23	<0.05	0.05	0.06	0.030	0.05	16.9	17.2	0.42	330	1.37	<0.01	0.93
ZZ92781		20.1	2.23	3.38	<0.05	0.06	0.03	0.027	0.06	16.0	12.2	0.27	338	1.68	<0.01	0.88
ZZ92782		21.0	2.38	3.45	0.05	0.08	0.05	0.031	0.07	16.3	15.3	0.33	422	2.04	<0.01	0.93
ZZ92783		17.4	2.74	4.65	0.05	0.05	0.06	0.032	0.08	16.6	17.1	0.44	271	1.52	<0.01	1.47
ZZ92784		22.5	2.48	3.68	0.05	0.07	0.06	0.035	0.08	23.2	14.4	0.33	430	1.69	0.01	1.01
ZZ92785		19.4	2.23	3.67	0.05	0.05	0.04	0.029	0.05	17.0	13.1	0.35	301	1.54	<0.01	0.97
ZZ92786		11.0	1.82	3.75	0.05	0.04	0.05	0.023	0.04	16.7	14.5	0.35	141	1.17	<0.01	0.86
ZZ92787		18.7	2.38	3.56	<0.05	0.04	0.03	0.032	0.06	14.6	16.1	0.29	414	1.88	0.01	0.82
ZZ92788		18.5	2.15	3.15	0.05	0.04	0.04	0.029	0.06	16.5	13.4	0.30	499	1.60	<0.01	0.81
ZZ92789		16.4	1.78	3.17	<0.05	0.03	0.37	0.042	0.07	13.3	11.1	0.24	214	1.35	0.01	0.54
ZZ92790		19.4	1.86	3.35	<0.05	0.06	0.06	0.022	0.06	13.6	11.1	0.32	283	1.10	0.01	0.87
ZZ92791		15.9	2.08	4.19	<0.05	0.07	0.09	0.030	0.05	13.4	14.8	0.35	931	1.95	0.01	0.80
ZZ92792		24.2	1.69	2.71	<0.05	0.07	0.10	0.031	0.07	12.0	11.5	0.23	455	1.34	0.02	0.62
ZZ92793		23.7	2.43	3.42	<0.05	0.06	0.08	0.031	0.08	16.4	15.4	0.33	468	2.12	<0.01	0.79
ZZ92794		14.3	1.37	2.71	<0.05	0.03	0.03	0.020	0.06	8.6	9.4	0.19	184	1.14	0.01	0.38
ZZ92795		25.2	1.39	2.69	<0.05	0.06	0.08	0.024	0.09	9.4	7.7	0.22	442	1.37	0.02	0.43
ZZ92796		25.7	1.69	2.66	<0.05	0.07	0.09	0.020	0.05	12.7	9.0	0.28	529	1.48	0.01	0.68



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method	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	
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOR	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ92761		19.8	890	29.6	9.8	0.001	0.03	2.29	3.1	1.0	0.6	36.2	<0.01	0.03	1.5	0.020
ZZ92762		17.6	730	19.9	8.8	<0.001	0.02	2.32	1.1	0.8	0.5	26.7	<0.01	0.03	0.2	0.017
ZZ92763		18.6	590	16.6	10.3	<0.001	0.01	1.71	2.1	0.5	0.6	19.1	<0.01	0.02	1.0	0.022
ZZ92764		24.0	770	14.6	11.8	0.001	0.01	1.03	4.3	0.8	0.5	25.2	<0.01	0.04	2.7	0.010
ZZ92765		21.1	1350	14.1	10.0	0.001	0.04	1.11	2.0	1.5	0.5	37.4	<0.01	0.02	0.9	0.019
ZZ92766		24.9	810	14.5	10.3	0.001	<0.01	1.33	2.7	1.1	0.5	22.2	<0.01	0.03	3.0	0.025
ZZ92767		18.7	690	12.5	10.2	<0.001	0.01	0.69	1.5	0.9	0.8	23.6	<0.01	0.03	0.5	0.023
ZZ92768		21.9	650	13.7	10.0	0.001	0.01	0.97	3.1	1.0	0.6	30.4	<0.01	0.04	1.7	0.018
ZZ92769		32.1	1000	19.8	10.3	0.001	0.01	2.48	6.5	1.5	0.5	30.1	0.01	0.04	4.4	0.012
ZZ92770		20.3	760	13.3	13.8	<0.001	0.02	0.87	2.1	0.8	0.6	23.4	<0.01	0.02	1.0	0.024
ZZ92771		19.5	1110	15.7	23.1	0.001	0.04	1.47	1.8	1.1	0.6	26.9	<0.01	0.04	1.0	0.017
ZZ92772		20.4	970	15.0	9.4	0.001	0.02	1.04	0.9	1.3	0.7	20.4	<0.01	0.02	0.2	0.022
ZZ92773		19.8	900	10.4	8.2	<0.001	0.01	0.63	2.6	0.7	0.5	19.5	<0.01	0.03	1.9	0.039
ZZ92774		36.5	1150	19.2	10.4	0.001	<0.01	2.10	3.8	1.6	0.5	32.5	<0.01	0.04	4.0	0.022
ZZ92775		23.9	1160	11.4	8.2	0.001	0.02	1.67	2.2	1.0	0.5	24.1	<0.01	0.03	1.8	0.022
ZZ92776		29.9	1140	16.6	9.7	0.001	0.02	2.27	2.8	1.8	0.5	23.4	<0.01	0.04	4.5	0.023
ZZ92777		27.8	920	18.1	8.1	0.002	0.01	2.46	4.8	1.8	0.5	26.3	<0.01	0.04	6.5	0.023
ZZ92778		15.7	780	13.3	11.2	<0.001	0.01	1.36	1.5	0.9	0.6	15.4	<0.01	0.03	0.8	0.024
ZZ92779		19.7	770	16.5	8.8	0.001	0.01	1.20	2.7	1.2	0.6	29.2	<0.01	0.03	1.6	0.028
ZZ92780		19.7	1140	12.1	9.3	<0.001	0.02	0.69	2.4	1.0	0.6	16.8	<0.01	0.02	1.2	0.024
ZZ92781		22.3	790	14.8	7.6	<0.001	0.01	1.64	2.4	1.2	0.4	17.2	<0.01	0.04	2.8	0.020
ZZ92782		25.5	940	16.4	10.0	<0.001	0.01	1.73	2.9	1.6	0.5	19.0	<0.01	0.03	4.9	0.017
ZZ92783		24.8	700	13.8	11.5	<0.001	0.01	1.04	3.5	1.1	0.6	18.9	<0.01	0.03	3.8	0.035
ZZ92784		26.8	900	16.9	8.9	0.001	0.01	1.68	3.5	1.0	0.5	24.8	<0.01	0.02	5.6	0.018
ZZ92785		24.2	850	12.7	7.9	<0.001	0.01	1.34	2.6	1.1	0.5	19.5	<0.01	0.03	2.4	0.027
ZZ92786		15.1	780	11.8	8.0	<0.001	0.01	1.09	2.6	1.2	0.5	21.6	<0.01	0.01	2.5	0.024
ZZ92787		22.7	930	17.5	9.1	0.001	0.02	1.80	2.3	1.0	0.5	32.5	<0.01	0.04	2.0	0.016
ZZ92788		22.6	910	17.7	7.6	<0.001	0.01	2.03	2.7	1.1	0.5	23.4	<0.01	0.02	3.0	0.021
ZZ92789		15.2	1280	62.9	9.1	<0.001	0.03	5.88	1.3	0.9	2.1	45.6	<0.01	0.03	0.6	0.017
ZZ92790		18.2	980	14.0	9.0	0.001	0.04	1.88	2.8	1.7	0.5	27.7	<0.01	0.03	1.9	0.026
ZZ92791		15.5	1240	26.4	10.1	0.002	0.05	2.15	2.7	1.8	0.8	32.1	<0.01	0.03	1.5	0.012
ZZ92792		22.6	1010	47.9	7.8	0.001	0.04	4.92	3.2	1.6	1.3	43.9	<0.01	0.04	2.4	0.013
ZZ92793		30.0	1050	16.5	10.1	0.001	0.01	2.42	3.1	1.0	0.6	27.8	<0.01	0.04	3.2	0.014
ZZ92794		13.0	770	9.3	7.0	<0.001	0.01	1.23	0.9	0.6	0.4	23.7	<0.01	0.03	0.3	0.012
ZZ92795		19.8	830	20.0	8.1	0.001	0.03	4.67	2.4	1.5	1.5	33.7	<0.01	0.04	0.9	0.014
ZZ92796		27.5	1020	12.6	6.4	<0.001	0.05	2.73	2.2	1.9	0.7	46.4	<0.01	0.02	1.0	0.019



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**CERTIFICATE OF ANALYSIS WH14134315**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ92761		0.13	1.38	50	0.11	8.67	107	1.0	0.003
ZZ92762		0.13	0.95	39	0.12	7.79	88	<0.5	0.004
ZZ92763		0.14	0.80	43	0.17	5.89	84	<0.5	0.003
ZZ92764		0.15	1.01	44	0.14	9.55	90	0.7	0.036
ZZ92765		0.13	1.68	41	0.18	8.99	104	0.7	0.003
ZZ92766		0.18	0.91	43	0.25	6.35	81	0.9	0.004
ZZ92767		0.16	0.99	49	0.35	4.94	62	<0.5	0.003
ZZ92768		0.12	2.07	45	0.34	7.66	83	0.6	0.002
ZZ92769		0.24	1.21	44	0.11	18.10	148	0.9	0.005
ZZ92770		0.14	1.13	46	0.20	5.57	95	<0.5	0.003
ZZ92771		0.16	1.21	49	0.24	5.46	139	0.6	0.002
ZZ92772		0.18	1.10	52	0.24	8.01	91	<0.5	0.003
ZZ92773		0.14	1.24	42	0.29	6.45	74	0.6	0.003
ZZ92774		0.28	1.42	44	0.18	13.95	146	0.7	0.007
ZZ92775		0.18	1.36	37	0.18	9.55	111	0.6	0.004
ZZ92776		0.20	1.13	45	0.56	7.41	102	1.9	0.004
ZZ92777		0.20	2.57	40	0.23	18.55	110	1.0	0.005
ZZ92778		0.15	0.69	45	0.23	4.32	74	<0.5	0.002
ZZ92779		0.15	1.63	53	0.29	6.27	104	0.5	0.004
ZZ92780		0.19	1.41	53	0.30	8.93	112	0.5	0.004
ZZ92781		0.14	0.83	37	0.19	6.01	86	0.9	0.005
ZZ92782		0.18	0.94	39	0.22	6.89	118	1.7	0.005
ZZ92783		0.17	1.01	48	0.32	8.10	85	0.8	0.006
ZZ92784		0.18	1.16	40	0.17	10.45	100	1.6	0.004
ZZ92785		0.14	1.09	38	0.20	7.39	84	0.6	0.006
ZZ92786		0.13	1.03	38	0.23	7.14	79	<0.5	0.003
ZZ92787		0.16	0.80	40	0.16	6.19	114	0.6	0.003
ZZ92788		0.13	0.89	39	0.14	8.21	95	0.5	0.003
ZZ92789		0.17	0.97	41	0.22	5.97	117	<0.5	0.014
ZZ92790		0.13	1.56	43	0.22	10.20	143	1.2	0.003
ZZ92791		0.18	1.52	45	0.13	7.97	95	1.5	0.005
ZZ92792		0.19	1.40	37	0.09	9.42	98	1.9	0.004
ZZ92793		0.19	0.90	43	0.24	8.90	126	1.0	0.004
ZZ92794		0.10	0.58	30	0.12	3.66	65	<0.5	0.002
ZZ92795		0.15	0.99	31	0.06	10.60	102	1.2	0.004
ZZ92796		0.10	1.35	31	0.13	11.20	76	1.7	0.003





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**CERTIFICATE OF ANALYSIS WH14134315**

<b>CERTIFICATE COMMENTS</b>	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41



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**CERTIFICATE WH14134316**

Project: SNAIL

This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2014.

The following have access to data associated with this certificate:

MATT DUMALA	JOAN MARIACHER
-------------	----------------

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

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

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

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH14134316**

Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
ZZ98251		0.31	0.40	1.17	10.3	<0.2	<10	510	0.45	0.17	0.52	0.57	25.9	5.6	18	1.19
ZZ98252		0.33	0.26	0.94	9.9	<0.2	<10	440	0.37	0.14	0.47	0.53	21.1	7.3	15	0.84
ZZ98253		0.42	0.37	1.29	10.4	<0.2	<10	480	0.53	0.21	0.42	0.57	34.3	6.6	25	1.15
ZZ98254		0.40	0.35	1.03	11.5	<0.2	<10	400	0.47	0.19	0.33	0.65	32.7	7.6	21	1.12
ZZ98255		0.32	0.27	0.84	5.9	<0.2	<10	210	0.20	0.15	0.22	0.24	19.05	3.2	15	1.00
ZZ98256		0.35	0.47	1.32	9.4	<0.2	<10	410	0.50	0.23	0.39	0.39	34.1	7.4	27	1.28
ZZ98257		0.42	0.55	1.17	9.0	<0.2	<10	350	0.43	0.22	0.57	0.70	35.6	7.5	25	1.20
ZZ98258		0.34	0.15	1.04	9.9	<0.2	<10	280	0.25	0.17	0.20	0.17	23.3	5.0	18	1.01
ZZ98259		0.35	0.21	0.92	15.7	<0.2	<10	290	0.32	0.18	0.26	0.46	30.7	8.6	19	0.96
ZZ98260		0.39	0.26	1.38	30.3	<0.2	<10	340	0.43	0.32	0.25	0.35	32.1	8.0	25	1.22
ZZ98261		0.35	0.41	1.16	17.3	<0.2	<10	140	0.25	0.25	0.09	0.33	24.8	4.2	20	1.01
ZZ98262		0.37	0.21	1.29	13.3	<0.2	<10	260	0.39	0.22	0.15	0.40	27.1	6.3	20	1.07
ZZ98263		0.30	0.12	1.32	15.1	<0.2	<10	380	0.62	0.18	0.16	0.57	32.5	10.8	19	1.00
ZZ98264		0.39	0.20	1.09	8.5	<0.2	<10	330	0.38	0.27	0.29	0.48	29.0	5.2	19	1.13
ZZ98265		0.38	0.33	1.11	12.5	<0.2	<10	430	0.50	0.21	0.49	0.85	32.7	8.0	23	1.16
ZZ98266		0.24	0.38	1.04	14.0	<0.2	<10	290	0.36	0.18	0.25	0.33	24.1	6.6	17	1.32
ZZ98267		0.33	0.30	1.05	14.9	<0.2	<10	290	0.42	0.18	0.23	0.33	25.6	6.6	17	1.22
ZZ98268		0.23	0.26	0.99	8.3	<0.2	<10	230	0.32	0.15	0.28	0.29	17.40	3.6	16	1.06
ZZ98269		0.25	0.35	1.16	9.3	<0.2	<10	380	0.46	0.17	0.37	0.62	28.1	7.2	18	1.16
ZZ98270		0.37	0.43	1.22	10.2	<0.2	<10	440	0.50	0.18	0.68	0.89	26.2	6.9	22	1.03
ZZ98271		0.43	0.59	1.18	15.4	<0.2	<10	420	0.51	0.19	0.55	0.82	32.1	6.8	24	1.08
ZZ98272		0.27	1.65	1.17	19.9	<0.2	<10	370	0.45	0.16	0.52	0.70	23.8	5.5	20	1.12
ZZ98273		0.28	0.59	1.50	14.8	<0.2	<10	530	0.63	0.20	0.64	0.96	30.6	7.4	29	1.58
ZZ98274		0.28	0.45	1.31	10.2	<0.2	<10	650	0.56	0.17	0.78	1.72	24.2	7.3	18	1.04
ZZ98275		0.39	0.40	1.10	13.0	<0.2	<10	460	0.54	0.18	0.51	0.88	32.0	7.2	19	1.13
ZZ98276		0.40	0.27	0.98	10.0	<0.2	<10	380	0.41	0.17	0.60	0.47	26.8	5.5	13	1.12
ZZ98277		0.43	0.50	1.13	11.6	<0.2	<10	570	0.64	0.22	0.60	0.94	28.3	7.3	19	1.29
ZZ98278		0.38	0.35	0.87	10.7	<0.2	<10	550	0.56	0.19	0.49	0.94	34.3	8.3	17	1.09
ZZ98279		0.35	0.33	0.81	9.2	<0.2	<10	520	0.52	0.15	0.57	0.68	24.2	6.3	14	0.83
ZZ98280		0.39	0.94	1.51	20.3	<0.2	<10	220	0.90	0.22	1.22	1.02	41.4	8.4	29	5.43
ZZ98281		0.38	0.78	1.31	14.1	<0.2	<10	420	0.58	0.21	0.62	0.69	27.7	6.9	24	1.77
ZZ98282		0.30	0.53	0.78	10.5	<0.2	<10	100	0.24	0.14	0.10	0.33	16.65	3.7	16	1.27
ZZ98283		0.43	1.05	1.25	23.7	<0.2	<10	450	0.56	0.18	0.53	0.84	29.3	6.4	24	1.85
ZZ98284		0.45	0.45	1.07	16.3	<0.2	<10	360	0.50	0.18	0.55	1.14	32.6	6.8	24	1.46
ZZ98285		0.46	0.17	1.16	8.6	<0.2	<10	460	0.49	0.19	0.39	0.38	34.3	7.4	23	0.91
ZZ98286		0.41	0.16	1.32	7.9	<0.2	<10	370	0.45	0.20	0.20	0.23	27.4	6.4	21	1.21
ZZ98287		0.39	0.15	0.93	11.8	<0.2	<10	400	0.52	0.19	0.21	0.80	31.9	7.6	16	0.97
ZZ98288		0.37	0.13	1.04	13.7	<0.2	<10	250	0.45	0.22	0.27	0.48	25.2	7.0	18	1.13
ZZ98289		0.33	0.09	0.98	11.4	<0.2	<10	200	0.33	0.21	0.14	0.27	21.7	6.6	15	1.18
ZZ98290		0.48	0.22	0.96	8.9	<0.2	<10	320	0.44	0.18	0.25	0.37	30.5	5.8	16	0.96



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**CERTIFICATE OF ANALYSIS WH14134316**

Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ98251		18.6	1.61	3.81	<0.05	0.03	0.11	0.026	0.06	13.7	12.9	0.30	354	1.14	0.02	0.60
ZZ98252		18.9	1.68	3.08	<0.05	0.03	0.11	0.022	0.05	11.1	10.1	0.25	895	1.43	0.02	0.51
ZZ98253		27.7	1.90	4.14	0.06	0.04	0.13	0.032	0.08	17.7	16.8	0.42	182	1.15	0.02	0.74
ZZ98254		24.9	1.88	3.55	0.05	0.02	0.10	0.026	0.07	16.8	12.0	0.35	242	1.71	0.02	0.71
ZZ98255		10.7	1.29	3.40	<0.05	<0.02	0.08	0.016	0.05	9.9	8.2	0.21	76	0.94	0.02	0.54
ZZ98256		29.1	1.90	4.54	0.05	0.02	0.10	0.030	0.09	17.7	19.0	0.43	200	1.23	0.01	0.85
ZZ98257		31.1	1.75	3.89	0.05	0.04	0.13	0.026	0.08	18.4	18.2	0.40	225	1.13	0.02	0.83
ZZ98258		13.5	1.45	3.83	<0.05	<0.02	0.05	0.019	0.05	12.2	11.4	0.29	173	1.10	0.02	0.68
ZZ98259		18.9	1.73	3.31	<0.05	<0.02	0.06	0.017	0.07	15.6	16.2	0.33	435	1.69	0.01	0.66
ZZ98260		23.1	2.27	4.30	<0.05	0.02	0.04	0.042	0.07	16.4	16.6	0.42	313	1.89	0.01	0.83
ZZ98261		11.8	2.20	5.60	<0.05	<0.02	0.03	0.022	0.06	13.0	9.8	0.26	147	1.92	0.01	1.23
ZZ98262		17.1	2.06	4.55	<0.05	0.02	0.03	0.024	0.05	13.9	11.7	0.27	238	2.20	0.01	0.93
ZZ98263		34.0	2.38	3.18	<0.05	0.04	0.05	0.030	0.07	16.3	15.3	0.27	371	2.26	0.01	0.47
ZZ98264		20.3	1.66	4.03	<0.05	<0.02	0.06	0.023	0.06	14.4	11.8	0.32	172	1.48	0.01	0.79
ZZ98265		29.1	2.22	3.76	0.05	0.03	0.12	0.025	0.07	16.8	14.1	0.43	366	1.64	0.02	0.99
ZZ98266		14.9	1.73	3.79	<0.05	0.02	0.11	0.027	0.06	12.4	11.0	0.28	229	1.66	0.02	0.66
ZZ98267		17.4	1.99	3.71	<0.05	<0.02	0.11	0.026	0.05	13.2	10.5	0.27	228	1.94	0.02	0.67
ZZ98268		14.4	1.02	3.46	<0.05	<0.02	0.09	0.021	0.05	9.1	9.4	0.23	138	0.93	0.02	0.48
ZZ98269		19.1	1.60	3.89	<0.05	0.03	0.08	0.024	0.06	14.5	11.9	0.30	260	1.17	0.02	0.68
ZZ98270		28.9	1.88	3.61	0.05	0.04	0.12	0.024	0.07	14.5	10.8	0.36	448	1.89	0.02	0.59
ZZ98271		26.6	1.93	3.81	0.05	0.04	0.09	0.028	0.07	17.6	11.8	0.38	271	1.88	0.02	0.66
ZZ98272		16.7	1.69	3.72	<0.05	0.03	0.11	0.037	0.05	12.9	10.5	0.33	311	1.80	0.02	0.54
ZZ98273		19.9	1.94	4.36	<0.05	0.04	0.11	0.033	0.08	16.8	14.0	0.49	505	1.92	0.02	0.52
ZZ98274		27.8	1.80	3.79	<0.05	0.06	0.12	0.023	0.06	12.8	11.4	0.32	780	1.96	0.02	0.51
ZZ98275		30.0	2.05	3.48	<0.05	0.02	0.09	0.028	0.08	16.4	11.9	0.34	293	2.86	0.02	0.58
ZZ98276		22.8	1.68	3.21	<0.05	0.03	0.09	0.022	0.07	13.6	9.6	0.27	214	1.85	0.02	0.58
ZZ98277		34.0	2.01	3.27	0.06	0.05	0.15	0.027	0.09	15.6	13.6	0.33	350	2.47	0.02	0.55
ZZ98278		30.5	1.95	2.87	0.06	0.08	0.12	0.024	0.09	17.0	12.2	0.33	416	2.58	0.02	0.63
ZZ98279		27.5	1.65	2.49	<0.05	0.03	0.12	0.021	0.08	12.0	10.6	0.28	338	1.83	0.03	0.47
ZZ98280		51.8	2.08	4.69	0.07	0.07	0.08	0.040	0.21	21.2	28.2	1.40	340	3.65	0.01	0.24
ZZ98281		25.7	1.93	3.91	0.05	<0.02	0.09	0.042	0.08	15.3	11.6	0.32	289	2.74	0.02	0.34
ZZ98282		13.3	1.48	3.34	<0.05	<0.02	0.06	0.034	0.05	8.6	5.9	0.20	152	2.08	0.02	0.14
ZZ98283		24.7	1.87	3.81	<0.05	0.02	0.10	0.156	0.07	16.5	13.6	0.44	328	3.87	0.02	0.43
ZZ98284		23.3	1.88	3.51	0.05	0.02	0.06	0.041	0.07	17.2	12.4	0.46	333	3.23	0.02	0.57
ZZ98285		23.1	1.88	3.81	0.05	0.03	0.10	0.025	0.05	17.6	14.8	0.41	212	1.62	0.02	0.93
ZZ98286		15.2	1.91	4.26	<0.05	<0.02	0.09	0.021	0.05	14.2	12.9	0.30	311	1.51	0.02	0.46
ZZ98287		30.0	1.94	2.89	0.05	<0.02	0.09	0.024	0.07	16.1	10.5	0.25	299	2.39	0.01	0.44
ZZ98288		30.7	2.21	3.27	<0.05	<0.02	0.07	0.026	0.06	12.9	12.4	0.23	241	2.73	0.01	0.57
ZZ98289		18.1	1.97	3.74	<0.05	<0.02	0.04	0.022	0.06	11.0	10.3	0.18	375	2.54	0.02	0.47
ZZ98290		23.0	1.46	3.01	<0.05	<0.02	0.10	0.021	0.05	15.8	10.6	0.25	155	1.67	0.01	0.56



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.005
ZZ98251		16.1	830	14.7	11.9	0.002	0.06	1.38	2.6	0.9	0.6	32.5	<0.01	0.02	1.4	0.014	
ZZ98252		15.8	780	10.2	9.2	<0.001	0.04	0.98	2.3	0.8	0.4	35.0	<0.01	0.03	1.2	0.014	
ZZ98253		24.5	780	15.6	10.5	<0.001	0.02	1.31	4.4	1.4	0.8	33.1	<0.01	0.04	3.6	0.018	
ZZ98254		22.2	880	14.6	8.7	0.001	0.02	1.57	3.5	1.4	0.6	30.0	<0.01	0.06	2.9	0.023	
ZZ98255		10.2	790	7.9	7.5	<0.001	0.03	0.51	1.2	0.8	0.4	21.9	<0.01	0.03	0.4	0.022	
ZZ98256		28.6	750	12.6	11.2	<0.001	0.01	0.70	4.1	1.3	0.7	37.0	<0.01	0.04	3.4	0.024	
ZZ98257		30.3	800	11.6	10.0	0.002	0.02	0.88	4.6	1.8	0.6	45.0	<0.01	0.03	3.8	0.027	
ZZ98258		14.5	530	9.5	7.9	<0.001	0.01	0.57	1.6	0.6	0.6	24.2	<0.01	0.02	0.7	0.024	
ZZ98259		22.2	800	10.7	8.0	<0.001	0.01	1.26	2.4	0.9	0.7	30.2	<0.01	0.04	2.6	0.024	
ZZ98260		25.3	760	22.7	9.3	0.001	0.01	1.64	2.9	0.9	1.3	30.8	<0.01	0.04	3.3	0.030	
ZZ98261		12.8	560	12.7	10.0	<0.001	0.02	0.81	2.0	0.4	0.9	16.2	<0.01	0.04	1.9	0.037	
ZZ98262		17.4	550	11.6	10.4	<0.001	0.01	1.02	2.5	0.5	0.8	16.4	<0.01	0.05	3.1	0.024	
ZZ98263		30.1	740	12.4	9.4	<0.001	0.01	1.40	2.7	1.1	0.4	23.7	<0.01	0.06	3.3	0.009	
ZZ98264		19.3	670	10.0	8.1	<0.001	0.01	0.83	2.3	0.8	0.6	23.4	<0.01	0.04	1.7	0.025	
ZZ98265		26.8	860	11.8	9.8	0.002	0.02	1.49	3.6	1.4	0.6	32.5	<0.01	0.03	3.1	0.027	
ZZ98266		13.4	750	13.7	9.7	0.001	0.02	1.08	2.5	0.7	0.5	21.9	<0.01	0.04	1.7	0.017	
ZZ98267		13.9	740	13.8	10.0	0.001	0.03	1.44	2.6	0.9	0.5	20.7	<0.01	0.04	1.5	0.016	
ZZ98268		10.1	730	11.3	8.0	0.001	0.04	1.05	1.4	0.8	0.5	20.6	<0.01	0.03	0.6	0.015	
ZZ98269		16.6	800	14.6	10.2	0.002	0.04	1.60	2.8	0.8	0.6	26.4	<0.01	0.03	1.9	0.017	
ZZ98270		26.1	1010	11.4	12.0	0.002	0.03	1.49	2.6	1.8	0.5	34.4	<0.01	0.04	1.3	0.022	
ZZ98271		27.1	1050	26.2	9.7	0.001	0.02	2.86	3.0	1.5	0.9	31.6	<0.01	0.05	1.7	0.025	
ZZ98272		19.8	1000	79.9	10.1	0.001	0.04	13.55	1.9	2.2	3.7	28.4	<0.01	0.03	0.8	0.020	
ZZ98273		23.8	1440	21.0	15.6	0.001	0.04	3.58	2.7	2.4	1.1	35.8	<0.01	0.04	1.2	0.018	
ZZ98274		23.3	1170	11.7	11.0	0.003	0.06	1.42	2.3	2.5	0.5	37.7	<0.01	0.03	0.9	0.014	
ZZ98275		27.2	930	14.3	9.6	<0.001	0.01	1.86	3.1	1.1	0.7	31.7	<0.01	0.05	2.3	0.018	
ZZ98276		19.5	760	10.6	7.9	0.001	0.02	1.30	2.3	0.6	0.4	36.5	<0.01	0.03	1.9	0.016	
ZZ98277		28.3	1030	13.8	11.0	0.003	0.03	1.77	3.6	2.7	0.5	36.7	<0.01	0.04	2.1	0.016	
ZZ98278		26.6	1010	13.5	7.1	0.002	0.02	1.68	3.7	1.6	0.4	37.3	<0.01	0.04	4.7	0.022	
ZZ98279		21.4	920	12.1	6.0	0.001	0.03	1.38	3.0	1.4	0.3	38.0	<0.01	0.03	2.2	0.019	
ZZ98280		51.7	770	15.1	23.7	0.003	0.02	7.20	5.5	3.0	1.8	42.7	<0.01	0.07	4.6	0.015	
ZZ98281		26.1	1140	36.6	11.0	0.001	0.03	2.54	1.1	1.4	1.2	30.1	<0.01	0.04	0.2	0.016	
ZZ98282		13.4	790	28.6	8.4	0.001	0.04	3.16	0.3	0.8	1.5	12.0	<0.01	0.03	<0.2	0.015	
ZZ98283		27.3	1250	58.7	11.1	0.001	0.03	7.58	1.9	1.5	8.1	32.9	<0.01	0.05	0.7	0.016	
ZZ98284		27.9	1380	26.7	9.6	0.001	0.02	4.68	2.7	1.5	2.9	34.0	<0.01	0.04	1.7	0.028	
ZZ98285		22.1	880	11.1	7.8	0.001	0.01	0.98	3.6	1.0	0.5	24.9	<0.01	0.03	3.4	0.031	
ZZ98286		14.9	890	9.9	8.9	0.001	0.03	0.61	1.1	1.7	0.5	15.8	<0.01	0.03	0.2	0.019	
ZZ98287		22.5	930	12.2	7.2	0.001	0.01	1.69	2.6	1.1	0.4	24.5	<0.01	0.04	2.4	0.015	
ZZ98288		23.3	1010	14.5	9.3	0.001	0.01	1.68	1.9	1.3	0.4	28.2	<0.01	0.05	1.4	0.018	
ZZ98289		12.5	700	10.1	9.0	0.001	0.02	0.98	0.9	1.0	0.4	17.5	<0.01	0.03	0.3	0.015	
ZZ98290		18.6	840	10.3	6.6	0.001	0.01	1.14	2.0	1.1	0.4	23.0	<0.01	0.03	1.6	0.021	



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ98251		0.17	1.08	41	0.27	7.81	109	0.8	0.003
ZZ98252		0.15	0.90	34	0.10	7.20	81	1.0	0.003
ZZ98253		0.18	1.13	45	0.16	11.25	113	1.4	0.005
ZZ98254		0.18	1.21	41	0.10	9.80	102	0.7	0.005
ZZ98255		0.13	0.62	34	0.19	3.97	51	<0.5	0.002
ZZ98256		0.19	1.33	45	0.21	10.90	99	0.9	0.004
ZZ98257		0.17	1.27	40	0.14	14.10	101	1.5	0.004
ZZ98258		0.13	0.61	34	0.42	5.14	55	<0.5	0.002
ZZ98259		0.13	0.78	38	0.23	7.23	95	<0.5	0.005
ZZ98260		0.17	0.87	49	0.17	8.03	101	0.7	0.005
ZZ98261		0.13	0.48	58	0.36	2.75	60	<0.5	0.002
ZZ98262		0.17	0.71	49	0.22	4.30	82	0.9	0.003
ZZ98263		0.21	0.84	41	0.09	6.49	108	1.0	0.004
ZZ98264		0.16	0.84	39	0.24	6.01	73	<0.5	0.003
ZZ98265		0.18	1.51	41	0.23	11.25	104	1.0	0.004
ZZ98266		0.20	0.91	40	0.17	5.72	81	0.5	0.002
ZZ98267		0.19	1.08	40	0.17	6.62	96	0.5	0.004
ZZ98268		0.16	0.75	37	0.12	3.66	68	<0.5	0.002
ZZ98269		0.15	1.05	37	0.25	8.72	95	1.0	0.003
ZZ98270		0.23	1.29	43	0.15	10.90	114	1.1	0.004
ZZ98271		0.18	1.30	46	0.18	12.35	135	1.0	0.005
ZZ98272		0.20	1.31	42	0.21	8.17	199	1.0	0.006
ZZ98273		0.36	1.81	52	0.17	12.35	170	0.9	0.008
ZZ98274		0.20	3.61	41	0.10	10.55	127	1.7	0.003
ZZ98275		0.24	0.86	46	0.15	9.97	131	0.6	0.006
ZZ98276		0.16	0.84	36	0.12	6.89	99	1.0	0.004
ZZ98277		0.20	1.33	45	0.16	12.10	160	1.7	0.005
ZZ98278		0.16	1.33	41	0.12	10.40	125	3.1	0.007
ZZ98279		0.15	1.37	37	0.09	9.61	104	1.2	0.003
ZZ98280		0.75	0.98	41	0.05	12.70	158	3.4	0.009
ZZ98281		0.27	1.37	52	0.15	10.65	112	<0.5	0.003
ZZ98282		0.17	0.68	40	0.62	3.29	69	<0.5	0.002
ZZ98283		0.29	1.20	51	0.18	10.05	155	0.5	0.011
ZZ98284		0.21	1.28	48	0.15	10.50	131	0.6	0.005
ZZ98285		0.12	1.79	42	0.23	10.10	86	0.9	0.003
ZZ98286		0.15	2.18	43	0.19	8.46	75	<0.5	0.002
ZZ98287		0.16	0.97	42	0.12	8.96	125	<0.5	0.003
ZZ98288		0.18	1.00	50	0.13	6.05	126	<0.5	0.004
ZZ98289		0.15	0.61	46	0.19	3.36	74	<0.5	0.001
ZZ98290		0.13	1.10	38	0.12	7.68	84	<0.5	0.003



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**CERTIFICATE OF ANALYSIS WH14134316**

Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
ZZ98291		0.33	0.19	1.57	15.8	<0.2	<10	390	0.55	0.27	0.36	0.41	28.3	7.2	27	1.64
ZZ98292		0.38	0.10	1.08	12.5	<0.2	<10	380	0.44	0.20	0.32	0.38	28.6	7.3	19	1.28
ZZ98293		0.39	0.30	1.42	11.1	<0.2	<10	450	0.68	0.22	0.52	0.54	30.6	8.5	28	1.52
ZZ98294		0.46	0.54	1.06	10.0	<0.2	<10	570	0.59	0.17	1.00	1.13	25.6	5.8	22	1.03
ZZ98295		0.46	0.95	1.15	12.2	<0.2	<10	420	0.69	0.18	1.67	2.44	29.0	6.4	52	2.31
ZZ98296		0.50	0.23	1.28	15.9	<0.2	<10	330	0.51	0.25	0.23	0.74	29.7	8.2	23	1.15
ZZ98297		0.39	0.14	1.26	14.0	<0.2	<10	210	0.45	0.23	0.13	0.37	22.1	8.6	21	1.13
ZZ98298		0.45	0.41	0.74	12.1	<0.2	<10	380	0.43	0.13	0.46	0.47	18.65	4.3	9	0.92
ZZ98299		0.26	0.28	1.19	9.7	<0.2	<10	610	0.43	0.33	0.76	0.45	25.9	6.8	19	0.84
ZZ98300		0.42	0.34	0.87	12.6	<0.2	<10	420	0.48	0.20	0.89	0.70	32.4	4.9	12	1.10
ZZ98301		0.31	0.13	0.61	5.9	<0.2	<10	210	0.21	0.08	0.65	0.49	12.75	3.1	7	0.65
ZZ98302		0.54	0.50	1.17	17.5	<0.2	<10	770	0.75	0.26	1.42	1.64	35.4	10.5	24	2.08
ZZ98303		0.24	0.45	1.22	10.1	<0.2	<10	510	0.72	0.23	0.82	1.95	32.0	7.5	23	1.09
ZZ98304		0.39	0.17	0.56	6.5	<0.2	<10	210	0.25	0.10	0.43	0.53	16.90	4.1	11	0.66
ZZ98305		0.30	0.28	0.90	12.0	<0.2	<10	360	0.48	0.16	0.51	1.05	25.3	5.0	16	0.89
ZZ98306		0.50	0.28	0.99	10.9	<0.2	<10	370	0.49	0.17	0.43	0.88	26.2	5.9	17	1.14
ZZ98307		0.42	0.21	0.91	5.7	<0.2	<10	330	0.41	0.13	0.39	0.74	26.7	4.6	16	1.02
ZZ98308		0.33	0.30	1.01	15.4	<0.2	<10	370	0.39	0.18	0.40	0.72	25.5	5.3	17	1.08
ZZ98309		0.32	0.27	0.88	6.9	<0.2	<10	330	0.42	0.14	0.44	0.57	21.1	4.6	14	1.01
ZZ98310		0.32	0.30	1.03	3.1	<0.2	<10	390	0.51	0.15	0.60	0.97	29.0	5.5	18	1.14
ZZ98311		0.28	0.36	1.10	14.4	<0.2	<10	400	0.48	0.18	0.56	1.02	30.2	6.0	19	1.19
ZZ98312		0.26	0.26	0.93	6.4	<0.2	<10	360	0.44	0.14	0.65	0.65	28.1	5.7	16	1.00
ZZ98313		0.31	0.27	1.00	8.4	<0.2	<10	420	0.49	0.17	0.60	1.49	26.7	6.9	16	0.95
ZZ98314		0.30	0.35	1.07	23.2	<0.2	<10	470	0.59	0.17	0.50	1.27	28.0	15.7	16	0.94
ZZ98315		0.35	0.33	1.07	11.0	<0.2	<10	550	0.65	0.22	0.36	0.93	32.0	6.9	20	0.95
ZZ98316		0.41	0.42	1.02	15.7	<0.2	<10	430	0.58	0.22	0.51	1.25	31.0	9.8	22	1.14
ZZ98317		0.32	0.26	0.88	10.6	<0.2	<10	430	0.53	0.18	0.34	0.72	34.3	5.0	19	1.01
ZZ98318		0.33	0.31	0.79	8.2	<0.2	<10	400	0.42	0.15	0.29	0.85	25.7	6.8	14	1.01
ZZ98319		0.31	0.25	1.13	10.7	<0.2	<10	380	0.47	0.21	0.25	0.59	28.5	7.5	19	1.08
ZZ98320		0.37	0.30	1.20	10.4	<0.2	<10	520	0.52	0.25	0.28	0.89	33.2	7.3	21	1.19
ZZ98321		0.34	0.20	0.92	7.7	<0.2	<10	360	0.38	0.16	0.25	0.39	27.0	5.7	16	0.90
ZZ98322		0.39	0.34	1.18	10.4	<0.2	<10	460	0.60	0.21	0.26	0.58	32.7	11.4	20	1.21
ZZ98323		0.34	0.21	0.97	9.7	<0.2	<10	440	0.51	0.19	0.31	0.70	36.5	8.1	19	1.10
ZZ98324		0.33	0.29	1.19	10.9	<0.2	<10	410	0.55	0.21	0.42	0.50	33.7	7.4	22	1.12
ZZ98325		0.36	0.25	1.00	9.4	<0.2	<10	390	0.40	0.20	0.32	0.47	27.9	6.0	19	1.01
ZZ98326		0.39	0.36	1.14	11.5	<0.2	<10	450	0.62	0.22	0.33	0.92	34.8	8.6	22	1.16
ZZ98327		0.35	0.33	1.17	12.5	<0.2	<10	570	0.62	0.22	0.38	0.61	30.3	7.9	20	0.97
ZZ98328		0.42	0.43	1.29	12.0	<0.2	<10	610	0.73	0.24	0.50	1.03	36.2	9.4	22	1.20
ZZ98329		0.36	0.26	1.13	10.2	<0.2	<10	400	0.52	0.27	0.33	0.56	28.9	8.9	17	0.94
ZZ98330		0.42	0.28	1.36	10.9	<0.2	<10	480	0.63	0.22	0.30	0.46	34.6	6.9	23	1.11





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Sample Description	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
	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
	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	0.01	0.05
ZZ98291	26.8	2.77	5.31	<0.05	<0.02	0.11	0.034	0.08	14.5	17.5	0.37	226	2.25	0.01	0.95
ZZ98292	22.7	1.96	3.45	<0.05	<0.02	0.05	0.024	0.06	14.2	12.6	0.29	292	2.10	0.01	0.62
ZZ98293	25.7	2.29	4.42	<0.05	0.02	0.10	0.031	0.08	16.3	18.8	0.42	301	1.96	0.02	0.69
ZZ98294	24.7	1.76	3.21	<0.05	0.06	0.14	0.028	0.09	14.3	12.7	0.36	284	1.85	0.02	0.57
ZZ98295	32.7	1.76	3.71	0.08	0.05	0.13	0.036	0.12	17.6	14.4	0.69	232	2.01	0.02	0.60
ZZ98296	22.8	2.57	4.52	<0.05	<0.02	0.06	0.028	0.07	14.8	17.3	0.47	404	1.71	0.01	1.06
ZZ98297	21.0	2.43	4.24	<0.05	<0.02	0.05	0.031	0.07	11.3	13.0	0.24	380	2.39	0.01	0.79
ZZ98298	23.1	1.37	2.22	<0.05	0.02	0.11	0.016	0.06	9.8	7.4	0.17	165	1.38	0.03	0.43
ZZ98299	21.4	1.93	3.68	<0.05	0.04	0.16	0.025	0.07	13.2	16.4	0.37	380	1.65	0.02	0.82
ZZ98300	23.4	1.48	3.70	<0.05	0.02	0.15	0.019	0.06	18.7	6.9	0.16	312	1.41	0.02	0.65
ZZ98301	12.9	0.87	2.15	<0.05	<0.02	0.06	0.010	0.03	6.5	4.1	0.09	291	0.57	0.03	0.37
ZZ98302	50.0	2.62	3.80	0.06	0.12	0.22	0.034	0.18	18.5	14.2	0.64	424	4.13	0.02	0.57
ZZ98303	37.7	1.88	3.82	0.05	0.05	0.20	0.031	0.09	16.8	15.7	0.38	290	1.51	0.02	0.99
ZZ98304	24.9	1.45	2.25	<0.05	0.03	0.08	0.012	0.05	8.3	6.6	0.18	161	1.36	0.03	0.45
ZZ98305	33.2	2.52	2.99	<0.05	0.04	0.12	0.025	0.06	13.0	10.6	0.25	275	2.17	0.02	0.70
ZZ98306	22.6	1.59	3.20	<0.05	0.02	0.11	0.026	0.06	13.5	11.1	0.27	212	1.41	0.02	0.73
ZZ98307	17.5	1.21	3.00	<0.05	0.03	0.13	0.019	0.06	13.7	10.5	0.25	176	0.94	0.02	0.66
ZZ98308	22.3	1.74	3.29	<0.05	0.03	0.12	0.023	0.06	13.1	10.7	0.25	191	2.06	0.02	0.72
ZZ98309	23.0	1.29	2.94	<0.05	0.02	0.10	0.021	0.05	10.8	9.4	0.22	186	1.07	0.03	0.58
ZZ98310	26.8	1.23	3.30	<0.05	0.03	0.10	0.023	0.07	15.0	12.4	0.31	641	0.73	0.02	0.77
ZZ98311	24.1	2.12	3.54	<0.05	0.03	0.28	0.030	0.07	15.4	13.2	0.32	223	1.92	0.02	0.85
ZZ98312	17.4	1.11	2.90	<0.05	0.03	0.10	0.023	0.06	14.8	11.4	0.31	113	1.03	0.02	0.65
ZZ98313	25.4	1.52	3.08	0.06	0.04	0.11	0.025	0.05	13.4	11.4	0.28	791	1.18	0.01	0.68
ZZ98314	22.1	4.06	3.31	0.06	0.03	0.12	0.025	0.05	13.2	11.0	0.32	1980	5.23	0.01	0.66
ZZ98315	33.9	2.01	3.62	0.06	0.04	0.17	0.029	0.08	16.2	12.3	0.34	286	2.35	0.01	0.78
ZZ98316	35.9	2.41	3.30	0.05	0.07	0.16	0.030	0.10	15.6	11.6	0.42	384	3.18	0.01	0.81
ZZ98317	30.8	1.67	3.10	0.06	0.06	0.14	0.024	0.07	18.1	11.3	0.36	159	2.70	0.01	0.70
ZZ98318	25.1	1.50	2.88	0.05	0.02	0.12	0.021	0.08	12.9	8.9	0.27	381	2.11	0.02	0.60
ZZ98319	19.4	1.96	3.89	<0.05	0.02	0.12	0.024	0.06	14.2	12.6	0.29	373	1.53	0.01	0.84
ZZ98320	24.8	1.80	4.24	0.07	0.02	0.12	0.025	0.06	16.9	12.8	0.32	237	1.42	0.01	0.92
ZZ98321	20.6	1.57	3.14	<0.05	<0.02	0.10	0.020	0.06	13.6	9.8	0.27	188	1.54	0.01	0.67
ZZ98322	25.6	2.12	4.00	0.05	0.02	0.14	0.030	0.07	16.0	13.0	0.31	650	2.12	0.01	0.77
ZZ98323	22.8	1.80	3.45	0.05	0.02	0.10	0.024	0.06	18.1	12.1	0.33	277	2.17	0.01	0.80
ZZ98324	22.2	2.05	4.15	0.06	0.02	0.12	0.029	0.06	16.8	14.2	0.38	132	1.58	0.01	1.00
ZZ98325	19.4	1.94	3.83	0.05	<0.02	0.12	0.024	0.05	14.0	11.3	0.30	165	1.78	0.01	0.80
ZZ98326	30.6	2.15	4.00	0.06	0.03	0.14	0.028	0.06	17.4	14.3	0.37	277	1.62	0.01	1.08
ZZ98327	28.7	2.33	3.94	0.06	0.03	0.14	0.028	0.07	15.1	13.7	0.33	289	2.48	0.01	0.69
ZZ98328	37.1	2.22	4.25	0.06	0.05	0.16	0.034	0.10	18.2	16.3	0.41	300	1.84	0.01	0.82
ZZ98329	19.4	2.40	3.94	0.05	0.03	0.12	0.024	0.06	14.0	12.6	0.30	276	2.71	0.01	0.82
ZZ98330	21.5	2.42	4.51	0.05	0.03	0.12	0.032	0.07	17.3	16.5	0.38	142	1.75	0.01	0.80



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		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ98291		23.5	850	22.2	10.6	0.001	0.01	1.22	2.7	1.3	0.6	28.0	<0.01	0.04	1.4	0.023
ZZ98292		21.2	910	12.9	9.0	0.001	0.01	1.36	2.3	1.2	0.5	27.6	<0.01	0.04	1.9	0.020
ZZ98293		24.5	860	12.6	12.9	0.002	0.01	0.93	3.1	1.3	0.6	27.1	<0.01	0.03	1.4	0.022
ZZ98294		23.6	1350	10.3	8.9	0.002	0.04	1.45	3.8	2.4	0.7	45.6	<0.01	0.03	2.0	0.016
ZZ98295		39.6	2930	14.6	18.5	0.005	0.06	2.41	3.7	3.6	1.3	78.5	<0.01	0.04	1.8	0.025
ZZ98296		26.0	940	15.4	8.3	0.001	0.02	1.23	2.8	1.0	0.6	20.4	<0.01	0.04	1.7	0.033
ZZ98297		21.5	950	14.4	10.4	<0.001	0.02	2.35	1.6	0.9	0.5	18.5	<0.01	0.04	0.8	0.018
ZZ98298		17.6	800	7.5	5.7	0.001	0.02	1.13	2.4	1.6	0.2	30.0	<0.01	0.02	1.2	0.022
ZZ98299		20.3	870	12.0	8.4	0.002	0.05	1.13	3.3	2.2	0.7	42.3	<0.01	0.03	2.4	0.019
ZZ98300		14.2	860	12.2	8.8	0.001	0.04	1.36	2.3	1.8	0.5	43.5	<0.01	0.03	0.9	0.020
ZZ98301		8.1	590	4.3	6.3	0.003	0.06	1.10	0.8	3.0	0.2	33.4	<0.01	0.02	0.2	0.020
ZZ98302		42.8	1100	17.6	12.0	0.005	0.04	2.52	5.4	2.3	0.5	66.2	<0.01	0.06	5.6	0.025
ZZ98303		31.6	1010	15.4	12.1	0.009	0.15	1.61	4.9	6.0	0.6	46.0	<0.01	0.04	3.3	0.019
ZZ98304		12.0	870	6.5	5.7	0.008	0.08	0.93	2.2	2.4	0.3	26.4	<0.01	0.02	1.8	0.028
ZZ98305		23.6	940	10.6	9.7	0.006	0.10	1.48	3.4	4.1	0.4	34.6	<0.01	0.04	2.5	0.018
ZZ98306		16.5	860	13.1	9.6	0.005	0.09	1.46	3.1	2.2	0.6	27.7	<0.01	0.03	2.3	0.017
ZZ98307		14.2	800	10.8	8.4	0.004	0.06	1.28	2.7	1.5	0.7	27.4	<0.01	0.02	2.4	0.018
ZZ98308		15.0	940	13.8	9.1	0.004	0.08	1.42	2.8	1.9	0.5	27.0	<0.01	0.03	1.9	0.017
ZZ98309		15.8	690	10.7	7.9	0.005	0.07	1.31	2.3	2.1	0.5	28.9	<0.01	0.01	1.0	0.018
ZZ98310		17.1	800	13.8	9.1	0.006	0.11	1.47	3.2	2.2	0.6	35.5	<0.01	0.02	2.3	0.019
ZZ98311		20.2	850	15.6	11.4	0.006	0.10	1.79	3.6	3.0	0.8	34.1	<0.01	0.03	2.7	0.019
ZZ98312		17.6	850	11.7	8.4	0.006	0.11	1.43	2.8	2.0	0.5	35.9	<0.01	0.01	2.5	0.017
ZZ98313		19.0	880	12.0	8.8	0.005	0.08	1.29	2.8	2.7	0.6	36.1	<0.01	0.02	1.7	0.017
ZZ98314		21.2	920	11.7	8.8	0.004	0.07	1.73	3.0	2.3	0.5	36.8	<0.01	0.03	1.8	0.014
ZZ98315		29.9	930	12.5	8.0	0.001	0.02	1.42	4.1	1.5	0.5	33.4	<0.01	0.04	3.4	0.018
ZZ98316		36.2	1060	13.2	8.0	0.001	0.03	2.00	4.6	1.6	0.4	46.6	<0.01	0.04	3.9	0.029
ZZ98317		26.3	1010	8.9	6.6	0.001	0.01	1.72	3.7	0.9	0.4	30.7	<0.01	0.03	4.2	0.029
ZZ98318		23.8	760	8.8	7.1	0.001	0.01	1.23	2.9	1.0	0.4	27.5	<0.01	0.03	2.4	0.022
ZZ98319		16.2	810	11.1	8.5	0.002	0.02	0.84	3.0	1.0	0.5	23.2	<0.01	0.04	2.4	0.019
ZZ98320		23.0	890	12.9	9.6	0.001	0.02	1.09	3.7	1.2	0.5	25.9	<0.01	0.04	2.6	0.022
ZZ98321		16.6	760	9.6	7.5	0.002	0.01	0.94	2.5	1.0	0.4	23.8	<0.01	0.01	2.0	0.018
ZZ98322		21.7	820	12.3	9.4	0.001	0.01	1.05	3.8	1.3	0.5	24.6	<0.01	0.03	2.7	0.017
ZZ98323		21.0	1030	11.4	7.3	0.001	0.01	1.33	3.3	1.2	0.5	29.1	<0.01	0.03	3.5	0.025
ZZ98324		22.1	880	12.8	8.6	0.001	0.02	1.04	3.9	1.5	0.5	28.3	<0.01	0.03	3.6	0.022
ZZ98325		17.6	1070	10.6	7.6	0.002	0.03	0.89	2.7	1.5	0.5	27.4	<0.01	0.04	1.5	0.020
ZZ98326		26.2	890	11.8	8.8	0.001	0.02	1.11	4.5	1.6	0.5	29.1	<0.01	0.05	4.2	0.027
ZZ98327		23.6	960	13.9	9.0	0.001	0.02	1.37	3.9	1.1	0.5	32.3	<0.01	0.05	3.4	0.011
ZZ98328		33.7	870	13.7	10.0	0.001	0.02	1.38	5.1	1.7	0.5	36.6	<0.01	0.05	4.3	0.015
ZZ98329		16.0	790	11.1	8.8	0.001	0.02	0.93	3.3	1.1	0.4	28.2	<0.01	0.03	3.3	0.014
ZZ98330		19.4	840	12.1	10.2	0.001	0.02	0.78	3.9	1.2	0.5	27.4	<0.01	0.05	4.0	0.013



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ98291		0.23	1.32	62	0.25	6.81	110	<0.5	0.003
ZZ98292		0.19	1.03	46	0.16	6.49	109	<0.5	0.003
ZZ98293		0.22	1.06	48	0.23	9.67	110	<0.5	0.005
ZZ98294		0.20	1.47	41	0.38	12.20	122	1.8	0.004
ZZ98295		0.87	1.90	57	0.13	17.55	167	1.8	0.005
ZZ98296		0.19	1.02	50	0.27	8.31	109	<0.5	0.002
ZZ98297		0.17	0.79	57	0.20	4.53	111	<0.5	0.002
ZZ98298		0.17	1.01	32	0.12	9.40	91	0.7	0.002
ZZ98299		0.16	1.57	43	0.17	7.82	116	1.5	0.003
ZZ98300		0.17	2.59	37	0.18	12.55	79	0.5	0.002
ZZ98301		0.08	2.18	22	0.07	3.60	40	<0.5	0.001
ZZ98302		0.28	1.22	59	0.19	12.70	184	5.6	0.005
ZZ98303		0.19	3.58	50	0.17	13.25	197	1.9	0.004
ZZ98304		0.09	1.45	36	0.06	5.58	70	1.2	0.002
ZZ98305		0.14	2.98	38	0.24	10.30	113	1.5	0.003
ZZ98306		0.17	1.87	42	0.14	9.01	102	0.8	0.003
ZZ98307		0.15	1.54	36	0.08	7.88	90	0.8	0.006
ZZ98308		0.18	1.85	45	0.12	8.13	90	0.8	0.003
ZZ98309		0.15	1.75	33	0.08	7.96	80	0.6	0.003
ZZ98310		0.17	1.75	35	0.10	9.92	116	1.2	0.002
ZZ98311		0.18	1.98	42	0.11	10.55	123	1.2	0.003
ZZ98312		0.16	1.64	36	0.19	9.21	96	1.2	0.002
ZZ98313		0.17	1.70	37	0.15	9.56	118	1.1	0.003
ZZ98314		0.17	1.53	43	0.22	10.60	120	1.2	0.003
ZZ98315		0.18	1.19	46	0.12	11.55	118	1.2	0.005
ZZ98316		0.22	1.76	52	0.18	12.25	150	2.7	0.006
ZZ98317		0.16	1.01	42	0.13	11.45	108	2.8	0.003
ZZ98318		0.16	0.88	36	0.11	7.62	96	0.7	0.002
ZZ98319		0.16	1.69	42	0.16	7.02	84	0.6	0.004
ZZ98320		0.18	2.02	45	0.41	9.49	99	0.5	0.003
ZZ98321		0.15	1.01	37	0.13	6.99	79	<0.5	0.004
ZZ98322		0.21	1.65	43	0.19	9.01	95	0.6	0.004
ZZ98323		0.19	1.19	41	0.16	9.71	98	0.7	0.003
ZZ98324		0.17	1.52	45	0.18	8.99	95	0.8	0.003
ZZ98325		0.16	1.39	40	0.25	6.97	80	<0.5	0.003
ZZ98326		0.18	1.77	45	0.23	11.90	107	1.0	0.004
ZZ98327		0.19	1.16	47	0.16	8.52	102	1.0	0.004
ZZ98328		0.21	1.33	51	0.12	13.25	137	1.9	0.006
ZZ98329		0.15	0.98	42	0.15	6.99	85	1.2	0.002
ZZ98330		0.18	1.06	47	0.13	8.36	100	1.4	0.004



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ98331		0.35	0.27	1.37	9.1	<0.2	<10	510	0.63	0.21	0.30	0.64	34.3	7.0	23	1.14
ZZ98332		0.37	0.37	0.88	7.7	<0.2	<10	340	0.44	0.15	0.62	0.75	26.3	5.8	14	0.77
ZZ98333		0.35	0.28	0.83	4.5	<0.2	<10	280	0.35	0.11	0.90	1.15	17.75	5.0	12	0.58
ZZ98334		0.38	0.34	0.93	6.7	<0.2	<10	310	0.44	0.14	0.55	0.56	20.7	4.7	14	0.97
ZZ98335		0.40	0.25	1.08	9.1	<0.2	<10	390	0.49	0.16	0.50	0.58	24.6	6.7	18	0.97
ZZ98336		0.34	0.16	1.54	12.0	<0.2	<10	290	0.74	0.18	0.23	0.57	30.4	11.6	22	1.26
ZZ98337		0.33	0.07	0.83	9.0	<0.2	<10	120	0.15	0.24	0.02	0.21	19.55	2.5	10	0.50
ZZ98338		0.44	0.38	1.01	12.1	<0.2	<10	300	0.41	0.20	0.18	0.40	26.3	15.0	16	1.15
ZZ98339		0.36	0.16	1.37	12.6	<0.2	<10	310	0.43	0.19	0.17	0.27	27.4	7.0	25	1.01
ZZ98340		0.30	0.10	1.49	11.1	<0.2	<10	250	0.44	0.19	0.15	0.35	26.3	6.7	19	1.00
ZZ98341		0.36	0.19	1.44	10.1	<0.2	<10	260	0.46	0.18	0.13	0.31	27.8	5.7	18	1.06
ZZ98342		0.43	0.23	0.94	7.9	<0.2	<10	350	0.43	0.13	0.31	0.50	30.8	7.8	15	0.75
ZZ98343		0.26	0.22	0.95	27.3	<0.2	<10	350	0.47	0.16	0.27	0.57	28.0	4.4	16	0.98
ZZ98344		0.33	0.24	0.78	5.9	<0.2	<10	320	0.36	0.11	0.49	1.37	26.0	3.4	12	0.75
ZZ98345		0.31	0.24	0.90	35.5	<0.2	<10	330	0.46	0.14	0.61	1.38	26.2	5.2	14	0.79
ZZ98346		0.29	0.24	0.73	8.0	<0.2	<10	300	0.38	0.12	0.65	1.10	21.9	4.0	12	0.71
ZZ98347		0.26	0.32	0.98	7.4	<0.2	<10	430	0.42	0.13	0.80	0.70	21.7	4.7	15	0.97
ZZ98348		0.23	0.40	1.04	14.2	<0.2	<10	450	0.45	0.17	0.63	0.49	25.2	3.9	18	1.03
ZZ98349		0.35	0.31	1.18	11.7	<0.2	<10	240	0.42	0.23	0.17	0.38	25.2	8.3	22	1.13
ZZ98350		0.34	0.19	0.78	6.9	<0.2	<10	200	0.32	0.14	0.15	0.25	20.0	4.5	17	0.97
ZZ98351		0.33	1.44	1.36	23.1	<0.2	<10	360	0.94	0.23	1.55	3.72	41.8	9.4	43	2.89
ZZ98352		0.35	0.58	1.00	17.5	<0.2	<10	510	0.62	0.23	0.61	1.26	31.1	8.3	18	1.03
ZZ98353		0.31	0.54	1.03	15.4	<0.2	<10	620	0.60	0.23	0.95	1.86	29.8	9.3	20	0.85
ZZ98354		0.38	0.57	1.05	14.1	<0.2	<10	470	0.64	0.26	0.84	1.56	32.6	8.9	22	0.94
ZZ98355		0.27	0.50	0.92	8.7	<0.2	<10	600	0.57	0.19	1.35	2.15	26.0	5.4	21	0.87
ZZ98356		0.22	0.54	0.92	8.1	<0.2	<10	510	0.56	0.18	1.45	1.53	26.1	5.0	20	0.89
ZZ98357		0.34	0.51	0.84	9.4	<0.2	<10	270	0.42	0.13	1.02	1.00	22.9	6.2	17	0.91
ZZ98358		0.39	0.30	1.25	10.1	<0.2	<10	440	0.67	0.21	0.64	0.85	32.0	6.7	18	1.29
ZZ98359		0.36	0.15	0.57	10.2	<0.2	<10	220	0.28	0.19	0.43	0.42	16.10	5.5	10	0.86
ZZ98360		0.32	0.11	0.76	10.8	<0.2	<10	90	0.22	0.18	0.07	0.18	18.40	3.6	12	0.93
ZZ98361		0.31	0.23	0.81	12.4	<0.2	<10	360	0.39	0.14	0.39	0.39	20.0	15.3	12	0.70
ZZ98362		0.23	0.62	1.05	47.2	<0.2	<10	500	0.60	0.14	1.38	1.48	25.1	7.4	15	1.35
ZZ98363		0.30	0.23	1.11	9.1	<0.2	<10	420	0.47	0.17	0.34	0.30	26.8	7.8	20	0.90
ZZ98364		0.34	0.29	1.13	7.0	<0.2	<10	450	0.49	0.20	0.38	0.38	31.1	7.5	21	1.10
ZZ98365		0.33	0.24	1.05	12.5	<0.2	<10	310	0.35	0.18	0.22	0.30	23.7	4.2	19	1.08
ZZ98366		0.26	0.27	1.08	8.4	<0.2	<10	370	0.41	0.20	0.35	0.32	24.9	5.3	21	1.07
ZZ98367		0.28	0.29	1.06	8.3	<0.2	<10	340	0.48	0.18	0.33	0.47	30.6	7.2	22	1.06
ZZ98368		0.25	0.23	0.98	6.8	<0.2	<10	360	0.45	0.19	0.28	0.39	25.4	5.3	18	1.11
ZZ98369		0.27	0.39	1.02	7.5	<0.2	<10	370	0.43	0.20	0.25	0.61	25.5	4.6	19	1.11
ZZ98370		0.33	0.18	0.90	10.4	<0.2	<10	190	0.33	0.16	0.17	0.18	21.7	5.9	17	1.06



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		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		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	0.01	0.05
ZZ98331		21.3	1.90	4.45	0.05	0.04	0.15	0.033	0.07	17.3	16.8	0.38	284	1.71	0.01	0.72
ZZ98332		25.8	1.60	2.97	<0.05	0.05	0.16	0.023	0.07	13.3	12.0	0.26	286	0.89	0.02	0.56
ZZ98333		22.6	1.11	2.70	0.05	0.04	0.09	0.017	0.05	8.2	9.9	0.23	490	0.65	0.02	0.52
ZZ98334		22.2	1.43	3.25	0.05	0.03	0.08	0.022	0.05	10.9	10.8	0.23	193	1.18	0.02	0.59
ZZ98335		21.9	1.78	3.57	<0.05	0.03	0.15	0.026	0.06	12.4	11.1	0.33	246	1.55	0.01	0.79
ZZ98336		17.8	2.17	3.63	<0.05	0.05	0.07	0.029	0.07	14.8	20.0	0.38	379	1.49	0.01	1.19
ZZ98337		14.5	1.47	5.58	<0.05	<0.02	0.01	0.014	0.03	10.1	3.5	0.08	57	1.81	<0.01	0.65
ZZ98338		21.1	1.91	3.92	<0.05	<0.02	0.04	0.029	0.07	13.6	14.6	0.24	652	2.74	0.01	0.53
ZZ98339		23.1	2.59	4.16	0.05	0.03	0.03	0.031	0.09	13.9	14.3	0.38	263	2.04	0.01	0.74
ZZ98340		21.6	2.16	5.10	0.05	0.03	0.04	0.024	0.05	13.3	14.9	0.29	196	2.19	0.01	0.94
ZZ98341		24.6	2.07	5.31	0.05	<0.02	0.05	0.029	0.06	14.0	11.5	0.25	177	2.51	0.01	0.74
ZZ98342		22.3	1.64	3.26	0.05	<0.02	0.07	0.022	0.05	14.8	9.7	0.28	338	1.79	0.01	0.52
ZZ98343		15.2	1.95	3.14	<0.05	0.03	0.10	0.026	0.05	14.1	10.0	0.23	271	1.77	0.01	0.71
ZZ98344		19.9	0.92	2.64	<0.05	0.03	0.11	0.019	0.05	13.1	8.6	0.23	161	0.86	0.01	0.61
ZZ98345		17.8	2.03	2.92	<0.05	0.03	0.10	0.022	0.05	13.1	9.5	0.23	285	1.49	0.01	0.67
ZZ98346		15.0	0.89	2.59	0.05	0.03	0.08	0.018	0.04	11.0	7.9	0.22	94	0.58	0.02	0.53
ZZ98347		22.2	0.90	2.97	0.05	0.03	0.12	0.023	0.05	10.5	10.2	0.26	102	1.12	0.02	0.62
ZZ98348		19.3	1.90	3.22	0.05	0.03	0.16	0.028	0.06	12.5	11.0	0.26	194	2.06	0.01	0.65
ZZ98349		31.4	2.08	4.72	<0.05	<0.02	0.06	0.023	0.06	13.2	14.9	0.33	431	2.12	0.01	0.80
ZZ98350		19.1	1.43	3.05	<0.05	<0.02	0.04	0.018	0.06	9.6	11.0	0.24	154	1.51	0.01	0.44
ZZ98351		55.2	2.28	4.36	0.09	0.03	0.23	0.037	0.17	24.5	18.2	0.80	430	6.60	0.01	0.43
ZZ98352		27.1	2.11	3.47	0.05	0.04	0.12	0.030	0.07	15.7	13.4	0.30	713	3.53	0.01	0.82
ZZ98353		28.7	2.04	3.52	0.05	0.05	0.10	0.024	0.07	15.1	13.4	0.34	557	3.29	0.01	0.85
ZZ98354		34.6	1.96	3.78	0.06	0.05	0.12	0.028	0.07	16.3	14.0	0.38	259	2.24	0.01	0.98
ZZ98355		25.7	1.68	3.12	0.05	0.04	0.11	0.024	0.05	14.0	9.8	0.33	138	1.71	0.01	0.74
ZZ98356		30.7	1.48	2.99	0.05	0.05	0.13	0.027	0.06	14.2	9.2	0.31	205	1.28	0.01	0.69
ZZ98357		21.2	1.07	2.98	0.07	0.05	0.07	0.024	0.05	12.1	10.5	0.38	97	2.21	0.01	0.59
ZZ98358		21.3	1.42	4.45	<0.05	0.05	0.13	0.026	0.06	16.0	14.8	0.32	120	1.82	0.01	1.00
ZZ98359		14.4	1.46	2.57	<0.05	<0.02	0.04	0.019	0.05	6.8	7.8	0.21	292	1.70	0.02	0.56
ZZ98360		9.6	1.50	4.10	<0.05	<0.02	0.04	0.015	0.04	8.7	6.0	0.13	179	1.39	0.01	0.85
ZZ98361		15.2	2.08	3.12	<0.05	0.02	0.10	0.017	0.04	9.5	8.2	0.18	1060	2.19	0.02	0.75
ZZ98362		28.3	3.93	3.30	0.07	0.06	0.11	0.036	0.06	12.9	13.5	0.37	661	3.19	0.02	0.70
ZZ98363		19.2	1.96	3.91	0.05	0.04	0.09	0.023	0.07	13.8	14.1	0.31	231	1.34	0.01	0.58
ZZ98364		17.5	1.88	4.30	0.05	0.02	0.11	0.024	0.06	15.8	14.5	0.32	266	1.19	0.01	0.87
ZZ98365		14.2	1.90	4.09	<0.05	<0.02	0.08	0.019	0.05	12.2	11.7	0.24	87	0.96	0.01	0.88
ZZ98366		14.9	1.73	4.38	<0.05	<0.02	0.09	0.022	0.05	12.9	12.8	0.30	191	1.08	0.01	0.86
ZZ98367		23.3	1.86	3.81	<0.05	<0.02	0.08	0.025	0.07	15.5	13.7	0.34	225	1.32	0.01	0.82
ZZ98368		18.6	1.52	3.77	<0.05	<0.02	0.14	0.022	0.05	13.0	11.0	0.24	122	0.83	0.01	0.79
ZZ98369		23.6	1.38	4.12	0.05	<0.02	0.10	0.020	0.06	13.2	11.5	0.26	166	1.35	0.01	0.64
ZZ98370		13.3	1.55	3.46	<0.05	<0.02	0.06	0.018	0.06	11.1	12.9	0.29	214	1.43	0.01	0.71



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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	
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ98331		17.6	790	13.1	9.8	0.001	0.02	0.88	3.9	1.5	0.5	24.9	<0.01	0.03	3.7	0.012
ZZ98332		18.5	940	10.9	7.4	0.003	0.04	0.95	3.2	1.8	0.5	43.3	<0.01	0.03	2.1	0.021
ZZ98333		13.8	920	8.5	7.5	0.008	0.11	1.06	1.9	3.8	0.5	45.4	<0.01	0.02	0.9	0.021
ZZ98334		16.3	870	9.7	8.4	0.002	0.05	0.70	2.4	1.2	0.4	34.4	<0.01	0.02	0.8	0.022
ZZ98335		18.2	800	8.6	7.5	0.001	0.03	0.71	2.8	1.1	0.4	32.3	<0.01	0.04	1.7	0.021
ZZ98336		28.4	1050	10.4	9.3	0.001	0.02	1.00	3.1	1.0	0.5	20.2	<0.01	0.03	3.4	0.025
ZZ98337		9.0	260	6.1	3.6	<0.001	0.01	0.85	1.0	0.4	0.6	6.1	<0.01	0.03	0.4	0.017
ZZ98338		22.6	960	10.7	10.1	<0.001	0.02	1.28	1.7	1.0	0.4	28.8	<0.01	0.03	0.9	0.016
ZZ98339		28.9	870	11.3	8.1	<0.001	0.03	1.02	3.0	0.8	0.4	26.5	<0.01	0.04	2.4	0.021
ZZ98340		19.3	680	9.4	8.2	<0.001	0.02	0.95	2.8	0.6	0.5	16.6	<0.01	0.02	2.1	0.022
ZZ98341		18.5	570	10.2	9.3	0.001	0.02	0.87	2.3	0.5	0.6	16.7	<0.01	0.03	1.0	0.018
ZZ98342		18.7	850	9.1	5.5	0.001	0.01	0.95	2.2	0.6	0.3	27.3	<0.01	0.03	0.9	0.023
ZZ98343		11.2	790	13.5	7.8	0.002	0.05	1.65	2.8	1.2	0.5	23.9	<0.01	0.02	2.3	0.015
ZZ98344		12.9	760	11.3	7.7	0.003	0.06	2.17	2.3	1.2	0.4	33.9	<0.01	0.01	1.7	0.018
ZZ98345		16.2	980	15.3	8.5	0.005	0.10	3.92	2.2	1.4	0.5	38.5	<0.01	0.04	1.6	0.015
ZZ98346		12.1	820	11.2	6.7	0.003	0.10	1.72	1.9	1.2	0.5	36.7	<0.01	0.01	1.2	0.019
ZZ98347		16.4	840	11.4	8.4	0.004	0.21	1.34	2.0	1.4	0.6	49.8	<0.01	0.01	0.9	0.014
ZZ98348		17.0	1210	9.7	9.2	0.002	0.10	0.90	2.5	1.6	0.5	53.3	<0.01	0.03	1.0	0.014
ZZ98349		18.9	820	11.9	9.1	0.001	0.03	0.74	1.9	1.3	0.5	22.5	<0.01	0.04	1.0	0.019
ZZ98350		17.2	730	6.7	7.6	0.001	0.03	0.81	1.1	0.9	0.4	34.8	<0.01	0.01	0.5	0.016
ZZ98351		58.0	3180	18.7	16.8	0.002	0.03	4.44	5.3	5.5	1.5	71.0	<0.01	0.08	3.1	0.017
ZZ98352		26.9	930	11.8	11.2	0.003	0.04	1.75	3.6	1.6	0.4	37.9	<0.01	0.04	2.9	0.021
ZZ98353		28.4	1140	12.5	7.9	0.003	0.06	1.79	3.2	4.2	0.5	49.8	<0.01	0.02	2.2	0.019
ZZ98354		30.3	910	13.5	8.2	0.001	0.04	1.90	3.6	1.9	0.5	42.2	<0.01	0.03	2.7	0.025
ZZ98355		25.4	1310	11.1	7.9	0.003	0.07	1.70	2.6	2.6	0.4	56.6	<0.01	0.02	1.2	0.016
ZZ98356		19.9	1220	9.8	7.8	0.002	0.08	1.84	2.7	2.7	0.4	65.7	<0.01	0.02	1.4	0.014
ZZ98357		21.6	1000	19.7	8.5	0.022	0.16	3.40	2.2	10.3	1.8	41.7	<0.01	0.02	1.5	0.021
ZZ98358		18.4	760	12.4	9.8	0.004	0.14	1.09	3.4	1.9	0.5	32.6	<0.01	0.02	2.3	0.016
ZZ98359		12.1	620	9.1	5.5	0.001	0.03	1.07	1.6	0.5	0.3	27.7	<0.01	0.01	0.8	0.023
ZZ98360		9.3	580	10.6	5.8	<0.001	0.03	0.81	1.1	0.5	0.5	8.0	<0.01	0.02	0.7	0.024
ZZ98361		11.3	740	8.2	6.0	<0.001	0.05	0.73	1.9	1.2	0.3	28.9	<0.01	0.01	1.2	0.021
ZZ98362		27.6	1030	20.2	10.3	0.014	0.13	3.72	3.0	4.5	1.8	64.4	<0.01	0.03	1.5	0.015
ZZ98363		20.1	760	10.1	9.1	0.001	0.04	0.73	3.1	1.6	0.4	35.0	<0.01	0.04	2.5	0.012
ZZ98364		20.0	870	10.9	9.7	0.001	0.04	0.71	3.3	3.1	0.5	38.0	<0.01	0.04	2.7	0.017
ZZ98365		12.7	840	8.6	9.4	<0.001	0.05	0.43	1.9	1.3	0.5	25.0	<0.01	0.02	1.0	0.017
ZZ98366		15.7	770	10.1	10.2	0.001	0.04	0.53	2.3	1.2	0.5	31.5	<0.01	0.02	1.1	0.017
ZZ98367		23.9	880	9.6	8.8	0.001	0.03	0.91	3.4	1.1	0.4	35.8	<0.01	0.03	2.2	0.025
ZZ98368		17.0	770	10.0	9.3	0.001	0.04	0.60	2.5	0.9	0.5	28.2	<0.01	0.02	1.2	0.018
ZZ98369		17.9	780	9.9	9.0	<0.001	0.03	0.57	1.9	1.1	0.5	28.2	<0.01	0.02	0.8	0.014
ZZ98370		14.8	750	9.4	7.4	0.001	0.02	0.85	1.8	0.5	0.5	18.8	<0.01	0.03	1.4	0.022



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Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Au-ICP21 Au ppm 0.001
ZZ98331	0.20	1.28	48	0.15	8.20	107	1.1	0.003
ZZ98332	0.15	0.92	35	0.11	9.34	97	1.7	0.003
ZZ98333	0.12	1.62	29	0.12	6.06	87	1.4	0.003
ZZ98334	0.13	1.35	35	0.14	7.67	92	1.0	0.005
ZZ98335	0.14	1.48	39	0.17	7.26	88	1.0	0.003
ZZ98336	0.20	0.95	39	0.20	7.30	97	1.5	0.002
ZZ98337	0.11	0.34	60	0.21	1.73	49	<0.5	<0.001
ZZ98338	0.18	0.78	44	0.13	5.55	112	<0.5	0.002
ZZ98339	0.16	0.73	51	0.18	5.58	114	0.8	0.004
ZZ98340	0.13	0.59	54	0.26	4.72	82	0.7	0.002
ZZ98341	0.15	0.62	53	0.20	4.94	84	<0.5	0.003
ZZ98342	0.12	0.77	36	0.14	7.60	79	<0.5	0.002
ZZ98343	0.15	1.33	42	0.14	7.79	78	0.9	0.003
ZZ98344	0.12	1.19	32	0.25	7.47	115	1.1	0.002
ZZ98345	0.13	1.37	45	0.41	7.62	134	1.1	0.004
ZZ98346	0.11	1.21	31	0.09	6.73	101	0.9	0.002
ZZ98347	0.15	1.29	27	0.22	8.39	94	1.1	0.002
ZZ98348	0.14	1.42	41	0.15	9.72	76	0.7	0.003
ZZ98349	0.16	0.82	51	0.15	4.71	80	<0.5	0.002
ZZ98350	0.10	0.54	27	0.17	4.14	63	<0.5	0.001
ZZ98351	0.56	1.83	58	0.13	23.3	209	1.4	0.009
ZZ98352	0.19	1.53	45	0.14	10.40	127	1.5	0.003
ZZ98353	0.16	2.10	45	0.31	10.70	142	1.6	0.004
ZZ98354	0.17	1.42	50	0.19	11.30	133	1.9	0.004
ZZ98355	0.19	1.37	44	0.12	10.50	118	1.3	0.003
ZZ98356	0.19	1.53	39	0.10	12.65	96	1.7	0.003
ZZ98357	0.19	3.66	36	0.20	8.31	115	1.6	0.004
ZZ98358	0.19	2.47	42	0.19	8.96	95	1.5	0.003
ZZ98359	0.13	0.54	28	0.18	3.59	71	<0.5	0.001
ZZ98360	0.13	0.57	37	0.17	2.80	48	<0.5	0.001
ZZ98361	0.10	1.34	32	0.14	6.08	55	0.8	0.001
ZZ98362	0.23	2.42	37	0.09	10.60	137	1.9	0.003
ZZ98363	0.15	0.82	41	0.13	7.76	88	1.3	0.002
ZZ98364	0.17	1.16	40	0.29	8.34	86	0.8	0.003
ZZ98365	0.14	0.86	38	0.22	5.66	53	<0.5	0.001
ZZ98366	0.15	0.99	40	0.27	6.12	64	<0.5	0.001
ZZ98367	0.15	1.06	42	0.13	9.34	88	0.6	0.003
ZZ98368	0.15	1.05	34	0.68	7.26	65	<0.5	0.002
ZZ98369	0.15	0.90	35	0.24	7.00	69	<0.5	0.003
ZZ98370	0.14	0.65	37	0.21	4.51	73	<0.5	0.002





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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
LOR		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	0.05
ZZ98371		0.32	0.44	0.95	11.0	<0.2	<10	250	0.33	0.20	0.19	0.39	21.0	5.8	17	1.15
ZZ98372		0.37	0.64	1.55	22.9	<0.2	<10	670	0.88	0.27	0.66	1.64	36.8	11.8	24	2.10
ZZ98373		0.39	0.54	1.26	14.6	<0.2	<10	510	0.71	0.25	0.55	0.91	37.6	11.9	22	1.24
ZZ98374		0.45	0.38	1.02	15.1	<0.2	<10	510	0.56	0.21	0.51	1.43	30.4	8.3	20	1.09
ZZ98375		0.26	0.31	0.88	5.5	<0.2	<10	380	0.45	0.15	0.62	1.13	27.5	6.2	16	0.87
ZZ98376		0.30	0.40	1.02	11.6	<0.2	<10	430	0.59	0.19	0.61	0.91	29.0	5.4	18	1.03
ZZ98377		0.24	0.24	0.89	5.6	<0.2	<10	350	0.43	0.13	0.60	1.33	25.0	3.8	15	0.83
ZZ98378		0.28	0.20	0.72	13.0	<0.2	<10	270	0.42	0.10	0.49	1.03	16.70	6.1	9	0.70
ZZ98379		0.26	0.48	0.94	20.2	<0.2	<10	380	0.45	0.12	0.84	1.92	23.1	4.0	13	1.15
ZZ98380		0.27	0.37	0.86	13.5	<0.2	<10	240	0.40	0.13	0.85	2.45	25.2	4.7	12	1.19
ZZ98381		0.27	0.30	0.68	15.6	<0.2	<10	230	0.29	0.08	0.57	0.92	13.95	7.4	7	1.13
ZZ98382		0.41	0.71	1.50	22.1	<0.2	<10	470	0.77	0.22	0.57	0.90	34.9	7.6	18	2.56
ZZ98383		0.33	0.15	1.14	12.0	<0.2	<10	280	0.50	0.19	0.38	0.32	32.1	6.6	18	1.29
ZZ98384		0.35	0.24	1.17	13.8	<0.2	<10	320	0.53	0.21	0.38	0.61	35.8	6.1	17	1.10
ZZ98385		0.39	0.16	0.99	13.9	<0.2	<10	340	0.58	0.19	0.27	0.60	43.8	9.2	14	1.00
ZZ98386		0.42	0.22	1.39	14.3	<0.2	<10	450	0.53	0.22	0.45	0.48	31.2	7.0	22	1.40
ZZ98387		0.32	0.16	1.16	19.8	<0.2	<10	280	0.55	0.24	0.18	0.49	28.2	10.7	20	1.63
ZZ98388		0.40	0.21	0.99	18.1	<0.2	<10	400	0.60	0.23	0.19	0.62	40.1	10.6	16	1.14
ZZ98389		0.35	0.40	0.80	11.6	<0.2	<10	310	0.32	0.22	0.24	0.43	22.8	5.7	13	1.00
ZZ98390		0.31	0.55	0.87	12.4	<0.2	<10	390	0.41	0.21	0.48	0.58	20.4	3.2	15	1.10
ZZ98391		0.38	0.12	0.82	20.0	<0.2	<10	340	0.46	0.24	0.22	0.73	26.9	7.2	14	0.80
ZZ98392		0.44	0.17	0.91	10.0	<0.2	<10	470	0.43	0.17	0.33	0.98	18.45	5.3	13	0.72
ZZ98393		0.32	0.07	1.21	14.2	<0.2	<10	290	0.57	0.22	0.18	0.35	25.3	8.8	20	1.09
ZZ98394		0.36	0.67	0.95	19.4	<0.2	<10	550	0.58	0.20	0.55	0.89	29.2	7.7	20	1.09
ZZ98395		0.41	0.35	1.15	17.4	<0.2	<10	510	0.63	0.26	0.53	0.64	25.5	5.9	17	0.95
ZZ98396		0.28	0.16	1.14	25.4	<0.2	<10	490	0.65	0.90	0.45	0.68	27.4	6.6	17	1.00
ZZ98397		0.30	0.53	1.05	14.6	<0.2	<10	1150	0.71	0.23	2.15	1.22	28.5	8.2	20	1.02
ZZ98398		0.29	0.62	1.30	55.4	<0.2	<10	570	0.63	0.44	1.35	3.60	20.7	4.9	18	1.10
ZZ98399		0.33	0.74	1.31	17.7	<0.2	<10	530	0.76	0.25	0.89	1.19	28.2	7.5	23	1.55
ZZ98400		0.34	0.36	1.28	14.8	<0.2	<10	640	0.62	0.23	0.79	2.50	26.8	7.2	22	1.01
ZZ98401		0.33	0.26	0.96	8.5	<0.2	<10	420	0.44	0.18	0.33	0.96	31.7	8.6	19	1.01
ZZ98402		0.31	0.21	1.00	8.5	<0.2	<10	470	0.43	0.16	0.36	0.89	26.4	7.5	19	1.01
ZZ98403		0.38	0.20	0.95	11.4	<0.2	<10	320	0.36	0.18	0.44	0.39	23.8	5.3	17	0.95
ZZ98404		0.49	0.24	0.87	10.3	<0.2	<10	350	0.34	0.18	0.32	0.56	24.7	5.8	17	1.03
ZZ98405		0.38	0.39	1.18	11.9	<0.2	<10	450	0.52	0.24	0.60	1.17	32.8	10.9	24	1.13
ZZ98406		0.33	0.37	1.21	10.9	<0.2	<10	440	0.52	0.26	0.31	1.01	35.0	9.3	25	1.41
ZZ98407		0.28	0.19	0.84	7.8	<0.2	<10	280	0.26	0.15	0.21	0.36	19.25	3.2	15	0.93
ZZ98408		0.29	0.15	0.59	4.3	<0.2	<10	220	0.23	0.11	0.17	0.29	14.90	3.0	10	0.65
ZZ98409		0.21	0.21	0.70	9.8	<0.2	<10	220	0.20	0.13	0.53	0.23	16.35	2.8	15	0.84
ZZ98410		0.20	0.37	1.37	14.8	<0.2	<10	440	0.49	0.26	0.23	0.48	30.5	5.5	27	1.37



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Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ98371		20.5	1.55	4.12	<0.05	<0.02	0.09	0.018	0.06	10.9	10.8	0.24	299	1.81	0.01	0.68
ZZ98372		55.1	2.83	5.08	0.07	0.08	0.29	0.036	0.17	18.9	17.3	0.51	433	4.25	0.03	0.51
ZZ98373		33.5	2.27	4.30	0.05	0.02	0.15	0.034	0.09	18.4	18.1	0.39	780	2.65	0.01	0.84
ZZ98374		28.6	2.09	3.51	0.05	0.03	0.11	0.025	0.08	15.4	12.1	0.36	255	2.41	0.02	0.92
ZZ98375		22.7	1.13	3.00	0.05	0.03	0.12	0.020	0.06	14.1	11.6	0.28	251	1.12	0.02	0.69
ZZ98376		24.1	1.52	3.37	<0.05	0.04	0.12	0.027	0.06	14.9	12.0	0.30	173	1.35	0.01	0.83
ZZ98377		19.7	0.96	3.06	0.05	0.03	0.08	0.019	0.05	12.8	10.1	0.25	124	0.64	0.01	0.70
ZZ98378		18.3	1.24	2.47	<0.05	0.02	0.06	0.017	0.04	7.6	5.7	0.13	348	1.24	0.02	0.56
ZZ98379		15.9	1.24	3.13	<0.05	0.03	0.08	0.018	0.04	12.1	9.0	0.23	226	0.69	0.02	0.68
ZZ98380		16.6	1.33	2.95	<0.05	0.04	0.07	0.019	0.06	13.1	9.5	0.23	236	1.09	0.02	0.66
ZZ98381		10.8	1.15	2.34	<0.05	0.03	0.06	0.013	0.04	6.4	4.9	0.11	316	1.16	0.03	0.45
ZZ98382		26.8	2.32	4.56	0.05	0.02	0.15	0.030	0.11	18.1	15.8	0.31	470	2.07	0.02	0.71
ZZ98383		15.9	1.94	3.98	<0.05	0.03	0.05	0.024	0.05	16.3	13.4	0.35	298	1.67	0.01	0.88
ZZ98384		19.0	2.14	4.17	0.05	0.02	0.08	0.025	0.06	17.9	12.3	0.28	236	1.87	0.01	0.85
ZZ98385		22.9	1.97	3.04	0.07	0.02	0.08	0.024	0.06	20.7	12.6	0.28	493	1.80	0.01	0.78
ZZ98386		21.5	2.20	4.53	0.06	0.02	0.07	0.025	0.06	16.1	16.1	0.34	264	1.47	0.01	0.72
ZZ98387		23.7	2.47	3.59	0.05	0.03	0.05	0.027	0.08	14.2	18.3	0.32	591	2.27	0.01	0.75
ZZ98388		30.4	2.30	3.12	0.06	0.03	0.08	0.025	0.07	20.0	14.1	0.30	430	2.51	0.01	0.64
ZZ98389		17.9	1.41	2.61	0.05	<0.02	0.08	0.018	0.07	11.5	8.6	0.20	321	1.52	0.02	0.49
ZZ98390		22.2	1.41	2.71	0.05	0.02	0.15	0.024	0.05	10.5	8.8	0.20	224	1.16	0.02	0.52
ZZ98391		22.7	1.87	2.38	0.05	0.03	0.05	0.018	0.06	13.3	10.2	0.23	324	1.84	0.01	0.46
ZZ98392		21.1	1.64	3.03	<0.05	<0.02	0.03	0.017	0.05	9.7	9.0	0.16	358	1.66	0.01	0.43
ZZ98393		15.7	2.22	3.47	<0.05	0.04	0.03	0.023	0.06	12.4	12.5	0.32	256	1.49	0.01	0.93
ZZ98394		35.9	2.14	2.87	0.06	0.04	0.19	0.023	0.07	16.2	12.3	0.40	316	1.95	0.02	0.64
ZZ98395		24.8	1.86	3.59	0.05	0.02	0.05	0.019	0.07	13.0	11.8	0.29	344	1.64	0.02	0.55
ZZ98396		25.4	1.89	3.34	0.05	0.05	0.10	0.021	0.07	15.4	9.9	0.26	265	1.72	0.02	0.56
ZZ98397		39.9	1.88	2.97	0.06	0.05	0.14	0.023	0.07	14.3	10.9	0.30	1010	1.29	0.01	0.61
ZZ98398		32.1	1.98	3.32	0.05	0.08	0.16	0.025	0.09	11.6	11.2	0.29	270	2.06	0.01	0.59
ZZ98399		56.2	2.12	3.94	0.06	0.04	0.17	0.030	0.08	17.8	18.8	0.34	358	1.61	0.01	0.83
ZZ98400		22.9	2.05	3.58	<0.05	0.05	0.09	0.024	0.06	13.9	15.4	0.35	274	1.76	0.01	0.59
ZZ98401		21.0	1.71	2.99	0.05	0.03	0.10	0.015	0.06	15.7	11.7	0.30	417	2.16	0.01	0.65
ZZ98402		17.5	1.59	3.03	0.05	0.04	0.10	0.016	0.06	13.4	12.6	0.28	394	1.35	0.01	0.65
ZZ98403		17.2	1.38	3.06	<0.05	0.02	0.09	0.014	0.05	12.0	10.4	0.25	205	2.02	0.02	0.60
ZZ98404		17.6	1.85	2.94	0.05	0.02	0.10	0.013	0.06	12.5	10.6	0.28	139	2.13	0.02	0.60
ZZ98405		23.0	2.03	3.66	0.06	0.04	0.12	0.020	0.07	16.3	14.0	0.38	454	1.91	0.01	0.99
ZZ98406		27.6	2.16	3.66	0.05	0.03	0.13	0.027	0.08	17.3	15.0	0.38	220	2.25	0.01	0.80
ZZ98407		14.1	1.33	2.86	<0.05	<0.02	0.08	0.009	0.04	9.8	9.4	0.21	65	0.89	0.02	0.60
ZZ98408		11.3	0.92	2.67	<0.05	<0.02	0.05	0.007	0.03	7.3	5.8	0.12	63	1.14	0.03	0.41
ZZ98409		10.3	1.38	2.94	<0.05	<0.02	0.08	0.012	0.04	8.5	6.5	0.19	65	0.62	0.02	0.45
ZZ98410		22.0	2.21	4.54	0.05	0.02	0.14	0.021	0.07	16.0	17.0	0.38	112	1.63	0.01	0.81



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Project: SNAIL

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Sample Description	Method	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
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOR	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		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	0.005
ZZ98371		14.9	610	10.6	8.4	<0.001	0.03	0.85	1.7	0.5	0.5	23.2	<0.01	0.03	0.6	0.017
ZZ98372		49.0	1160	18.4	11.9	0.002	0.03	2.55	5.9	1.6	0.6	59.2	<0.01	0.06	5.2	0.024
ZZ98373		32.5	860	15.6	10.8	0.002	0.03	1.51	4.5	2.0	0.6	39.1	<0.01	0.03	2.8	0.017
ZZ98374		26.3	930	12.3	9.2	0.003	0.07	1.67	3.7	1.7	0.5	38.2	<0.01	0.02	2.5	0.023
ZZ98375		20.0	780	11.2	7.9	0.004	0.11	1.37	3.0	1.7	0.5	38.9	<0.01	0.01	2.1	0.019
ZZ98376		19.5	880	16.0	9.5	0.004	0.11	2.31	3.3	2.0	0.7	40.6	<0.01	0.01	2.2	0.016
ZZ98377		15.2	760	13.1	8.7	0.003	0.09	1.87	2.3	1.5	0.6	38.0	<0.01	0.01	1.4	0.016
ZZ98378		10.7	690	10.4	5.5	0.002	0.06	2.48	1.4	1.3	0.3	28.0	<0.01	0.01	0.7	0.017
ZZ98379		17.5	870	26.9	7.5	0.002	0.08	3.40	1.8	1.3	0.5	43.8	<0.01	0.02	1.1	0.017
ZZ98380		16.5	840	15.5	6.9	0.002	0.06	3.20	2.1	1.8	0.4	33.9	<0.01	0.01	1.3	0.020
ZZ98381		9.9	680	8.3	4.8	0.001	0.07	1.99	1.2	1.0	0.3	31.9	<0.01	<0.01	0.5	0.014
ZZ98382		27.0	720	22.2	13.0	0.002	0.04	2.49	3.8	1.0	0.7	33.5	<0.01	0.06	2.0	0.014
ZZ98383		16.8	840	9.9	8.4	<0.001	0.03	1.11	2.3	0.9	0.5	27.1	<0.01	0.02	1.9	0.025
ZZ98384		15.8	920	12.7	6.5	<0.001	0.03	1.20	2.3	0.8	0.5	29.7	<0.01	0.03	1.7	0.021
ZZ98385		22.7	890	15.4	6.0	0.001	<0.01	1.71	2.6	1.0	0.5	25.4	<0.01	0.04	4.1	0.025
ZZ98386		20.7	720	13.2	9.1	<0.001	0.01	1.28	2.3	0.6	0.6	25.7	<0.01	0.04	1.3	0.021
ZZ98387		25.4	940	17.6	9.6	<0.001	0.01	2.14	3.2	0.9	0.5	22.2	<0.01	0.05	3.3	0.016
ZZ98388		25.5	780	16.7	6.5	0.001	0.01	2.54	3.4	1.2	0.5	25.9	<0.01	0.05	4.4	0.016
ZZ98389		15.5	680	13.4	6.5	<0.001	0.01	1.70	2.4	0.8	0.4	22.4	<0.01	0.04	1.5	0.016
ZZ98390		14.9	900	13.5	7.6	0.003	0.06	1.36	2.2	1.6	0.4	30.4	<0.01	0.04	0.7	0.018
ZZ98391		19.9	760	15.5	5.8	0.001	0.01	2.17	2.7	0.6	0.4	22.4	<0.01	0.04	2.7	0.013
ZZ98392		13.9	560	10.7	10.2	<0.001	0.01	1.07	1.8	0.5	0.4	20.8	<0.01	0.03	0.9	0.009
ZZ98393		21.6	630	15.8	9.6	0.001	0.01	1.49	2.6	0.5	0.5	15.9	<0.01	0.04	4.1	0.023
ZZ98394		30.2	770	17.1	6.7	0.002	0.02	2.46	5.7	1.4	0.4	33.5	<0.01	0.05	3.0	0.018
ZZ98395		18.3	610	16.3	9.6	<0.001	0.02	1.40	2.8	0.9	0.4	29.7	<0.01	0.03	1.3	0.012
ZZ98396		22.8	540	18.6	7.7	0.001	0.02	2.72	3.3	1.3	0.5	32.8	<0.01	0.04	1.8	0.014
ZZ98397		30.3	1020	15.4	8.6	0.002	0.09	2.58	3.4	2.3	0.4	85.5	<0.01	0.04	1.0	0.013
ZZ98398		29.7	1170	18.7	14.8	0.003	0.09	3.47	2.4	3.0	0.6	58.3	<0.01	0.04	1.0	0.012
ZZ98399		33.2	720	17.0	12.9	0.001	0.03	1.80	5.3	1.7	0.6	39.0	<0.01	0.05	1.9	0.018
ZZ98400		20.5	940	14.2	10.7	0.002	0.04	1.48	3.2	1.4	0.5	37.8	<0.01	0.03	1.5	0.015
ZZ98401		20.2	930	9.9	7.9	0.002	0.02	1.13	3.4	1.9	0.5	28.9	<0.01	0.03	3.4	0.019
ZZ98402		17.6	910	11.2	9.5	0.003	0.05	1.10	2.9	1.6	0.4	28.8	<0.01	0.03	2.5	0.015
ZZ98403		12.2	980	12.0	8.3	0.002	0.05	1.08	2.2	1.2	0.4	27.1	<0.01	0.04	1.6	0.018
ZZ98404		15.4	910	11.1	7.8	0.001	0.03	1.10	2.5	2.0	0.4	24.9	<0.01	0.04	2.5	0.024
ZZ98405		25.7	980	14.4	11.3	0.003	0.06	1.54	4.1	2.8	0.5	37.4	<0.01	0.04	3.3	0.024
ZZ98406		24.4	950	16.3	10.9	0.002	0.02	1.67	4.1	1.7	0.5	28.1	<0.01	0.05	4.2	0.022
ZZ98407		11.0	680	9.4	8.2	0.002	0.03	0.54	2.0	0.9	0.3	20.5	<0.01	0.03	1.2	0.019
ZZ98408		7.8	580	7.1	5.3	0.001	0.02	0.39	1.2	0.9	0.3	16.8	<0.01	0.02	0.5	0.025
ZZ98409		8.4	840	8.3	6.8	<0.001	0.04	0.37	1.2	1.0	0.3	32.1	<0.01	0.03	0.3	0.026
ZZ98410		20.0	810	16.7	12.4	0.001	0.03	1.01	3.6	1.4	0.6	24.4	<0.01	0.06	2.9	0.017



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ98371		0.15	0.73	40	0.30	4.74	67	<0.5	0.002
ZZ98372		0.32	1.16	66	0.11	14.60	205	4.0	0.005
ZZ98373		0.23	1.43	49	0.17	14.35	131	0.7	0.003
ZZ98374		0.20	2.04	42	0.19	10.55	124	1.1	0.002
ZZ98375		0.15	1.45	35	0.21	9.33	104	1.1	0.003
ZZ98376		0.17	1.75	38	0.19	10.30	111	1.3	0.006
ZZ98377		0.13	1.29	30	0.11	7.77	119	1.0	0.002
ZZ98378		0.07	1.15	24	0.08	5.90	88	0.9	0.001
ZZ98379		0.11	1.57	32	0.32	6.54	159	1.2	0.001
ZZ98380		0.11	1.33	29	0.18	7.64	168	1.4	0.003
ZZ98381		0.09	1.22	22	0.08	5.07	62	0.9	<0.001
ZZ98382		0.23	1.62	48	0.15	12.15	142	0.8	0.003
ZZ98383		0.15	0.95	37	0.25	6.44	78	0.7	0.002
ZZ98384		0.14	0.98	41	0.22	7.09	80	0.5	0.002
ZZ98385		0.13	1.04	34	0.16	9.78	97	0.7	0.002
ZZ98386		0.15	0.94	44	0.36	7.97	85	<0.5	0.002
ZZ98387		0.21	0.85	44	0.13	6.52	117	0.8	0.002
ZZ98388		0.17	0.94	39	0.11	8.87	126	1.0	0.004
ZZ98389		0.14	0.70	29	0.10	7.31	68	0.6	0.003
ZZ98390		0.15	1.05	35	0.11	7.58	68	0.7	0.003
ZZ98391		0.14	0.82	36	0.12	7.73	117	0.7	0.002
ZZ98392		0.10	0.84	40	0.13	4.33	93	<0.5	0.001
ZZ98393		0.14	0.68	43	0.19	4.95	81	1.6	0.005
ZZ98394		0.21	1.10	44	0.09	16.20	113	1.5	0.004
ZZ98395		0.14	0.78	42	0.17	8.59	83	0.7	0.001
ZZ98396		0.15	1.28	43	0.10	12.70	97	1.4	0.002
ZZ98397		0.14	3.63	37	0.11	14.10	67	1.7	0.003
ZZ98398		0.17	2.34	38	0.09	11.35	371	2.5	0.009
ZZ98399		0.22	1.53	46	0.20	20.2	127	1.1	0.003
ZZ98400		0.13	2.00	43	0.13	10.25	192	1.4	0.002
ZZ98401		0.16	2.15	39	0.13	10.20	109	1.0	0.005
ZZ98402		0.15	2.44	38	0.13	9.45	107	0.9	0.002
ZZ98403		0.15	1.58	43	0.16	6.57	73	0.6	0.001
ZZ98404		0.16	1.40	42	0.13	6.54	89	0.5	0.001
ZZ98405		0.20	2.55	50	0.34	11.90	134	1.2	0.003
ZZ98406		0.24	1.76	54	0.12	10.05	134	1.1	0.002
ZZ98407		0.13	0.83	38	0.17	5.12	62	<0.5	0.001
ZZ98408		0.08	0.69	34	0.14	4.05	39	<0.5	0.001
ZZ98409		0.11	0.91	38	0.14	3.84	46	<0.5	0.002
ZZ98410		0.20	1.08	56	0.30	7.64	101	0.5	0.012



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ98411		0.28	0.47	0.86	3.7	<0.2	<10	320	0.26	0.15	0.16	0.31	17.20	2.8	17	1.27
ZZ98412		0.31	0.35	0.80	4.7	<0.2	<10	290	0.31	0.11	0.13	0.21	12.50	5.0	12	0.78
ZZ98413		0.25	0.47	1.12	6.0	<0.2	<10	430	0.44	0.17	0.26	0.49	30.4	6.3	22	1.14
ZZ98414		0.32	0.29	1.35	9.9	<0.2	<10	560	0.58	0.23	0.28	0.47	35.6	7.7	30	1.35
ZZ98415		0.26	0.19	0.48	2.1	<0.2	<10	190	0.15	0.07	0.12	0.13	10.10	2.4	8	0.55
ZZ98416		0.32	0.24	1.02	4.9	<0.2	<10	320	0.32	0.19	0.21	0.36	24.7	3.2	21	1.12
ZZ98417		0.28	0.17	0.95	6.8	<0.2	<10	220	0.24	0.15	0.19	0.12	18.80	3.6	18	1.01
ZZ98418		0.26	0.31	0.87	13.5	<0.2	<10	390	0.44	0.12	0.98	0.93	24.1	5.0	15	0.85
ZZ98419		0.19	0.26	0.89	15.7	<0.2	<10	390	0.36	0.12	0.60	0.33	20.8	7.0	13	0.83
ZZ98420		0.23	0.26	0.76	6.7	<0.2	<10	250	0.34	0.11	0.94	0.81	16.25	4.9	12	0.75
ZZ98421		0.18	0.27	0.62	16.2	<0.2	<10	270	0.29	0.11	0.93	0.76	19.50	6.2	13	0.67
ZZ98422		0.19	0.44	0.86	6.8	<0.2	<10	440	0.39	0.17	1.32	1.30	21.0	5.7	17	0.62
ZZ98423		0.13	0.29	0.62	6.0	<0.2	<10	330	0.27	0.12	1.32	0.77	17.55	4.8	13	0.45
ZZ98424		0.18	0.21	0.76	5.6	<0.2	<10	350	0.27	0.13	1.55	0.55	14.15	4.6	12	0.51
ZZ98425		0.26	0.33	0.98	9.3	<0.2	<10	550	0.45	0.20	1.74	1.02	23.6	6.1	17	0.67
ZZ98426		0.26	0.63	1.12	15.3	<0.2	<10	720	0.62	0.27	1.55	1.38	30.5	9.1	27	0.88
ZZ98427		0.31	0.26	0.88	10.0	<0.2	<10	500	0.32	0.35	0.53	0.33	20.5	3.8	12	1.04
ZZ98428		0.32	0.17	1.38	10.1	<0.2	<10	440	0.52	0.24	0.33	0.32	36.8	8.4	27	1.19
ZZ98429		0.32	0.21	1.57	11.1	<0.2	<10	220	0.44	0.26	0.24	0.22	31.5	8.1	25	1.32
ZZ98430		0.26	0.23	0.68	4.7	<0.2	<10	220	0.18	0.15	0.67	1.11	18.05	3.0	11	0.97
ZZ98431		0.30	0.35	1.11	10.5	<0.2	<10	480	0.52	0.28	0.84	0.86	34.0	8.9	22	0.92
ZZ98432		0.35	1.73	0.91	26.8	<0.2	<10	230	0.59	0.21	0.77	1.46	32.0	8.2	17	2.32
ZZ98433		0.40	0.19	0.86	7.1	<0.2	<10	350	0.33	0.15	0.63	0.28	23.2	5.1	14	0.68
ZZ98434		0.30	0.15	1.98	14.0	<0.2	<10	750	0.81	0.24	0.21	2.42	29.2	10.1	23	1.44
ZZ98435		0.30	0.04	0.36	0.6	<0.2	<10	60	0.10	0.03	0.20	0.04	6.94	2.8	3	0.16
ZZ98436		0.25	0.27	1.13	13.5	<0.2	<10	310	0.56	0.17	0.28	0.87	33.7	8.0	14	0.94
ZZ98437		0.24	0.60	1.20	17.0	<0.2	<10	640	0.50	0.20	0.98	1.77	28.5	9.8	22	0.97
ZZ98438		0.25	0.32	0.85	6.1	<0.2	<10	320	0.29	0.12	0.54	0.77	15.65	5.1	12	0.75
ZZ98439		0.19	0.39	1.02	8.1	<0.2	<10	390	0.37	0.14	1.11	0.39	20.2	8.4	17	0.85
ZZ98440		0.33	0.31	0.89	8.9	<0.2	<10	300	0.41	0.16	0.64	0.53	32.8	6.6	21	0.86
ZZ98441		0.22	0.67	0.93	9.1	<0.2	<10	350	0.49	0.15	1.13	0.95	21.8	5.9	20	1.03
ZZ98442		0.30	0.15	0.68	9.1	<0.2	<10	80	0.13	0.16	0.07	0.11	14.05	2.3	11	0.70
ZZ98443		0.29	0.38	1.61	17.6	<0.2	<10	150	0.43	0.28	0.13	0.35	24.2	6.5	28	1.39
ZZ98444		0.23	0.16	0.45	3.1	<0.2	<10	140	0.17	0.07	0.12	0.19	11.00	2.8	6	0.38
ZZ98445		0.29	0.29	1.21	4.4	<0.2	<10	420	0.45	0.21	0.28	0.32	28.2	3.9	22	1.15
ZZ98446		0.27	0.25	1.29	9.6	<0.2	<10	480	0.47	0.23	0.30	0.41	29.6	9.8	22	1.19
ZZ98447		0.19	0.18	0.78	6.5	<0.2	<10	270	0.24	0.13	0.28	0.22	15.55	3.7	12	0.77
ZZ98448		0.23	0.41	1.04	11.2	<0.2	<10	290	0.28	0.19	0.21	0.22	19.60	10.7	18	1.35
ZZ98449		0.26	0.24	1.22	6.1	<0.2	<10	370	0.36	0.20	0.30	0.32	25.2	4.9	21	1.44
ZZ98450		0.20	0.34	1.29	10.5	<0.2	<10	380	0.39	0.20	0.28	0.32	24.6	9.6	21	1.45



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Sample Description	Method	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
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ98411		15.6	1.01	3.19	<0.05	<0.02	0.11	0.010	0.04	9.0	7.6	0.16	68	0.33	0.01	0.40
ZZ98412		18.0	1.20	2.53	<0.05	<0.02	0.07	0.006	0.06	5.9	6.2	0.12	277	0.85	0.03	0.35
ZZ98413		25.0	1.62	3.29	0.06	0.02	0.15	0.018	0.08	15.3	14.4	0.32	190	1.13	0.02	0.59
ZZ98414		24.3	2.31	4.28	0.06	0.02	0.11	0.027	0.08	18.2	18.9	0.47	160	1.43	0.01	0.71
ZZ98415		10.4	0.88	1.70	<0.05	<0.02	0.04	<0.005	0.04	4.8	3.6	0.09	62	0.50	0.03	0.27
ZZ98416		21.0	1.37	3.57	<0.05	<0.02	0.10	0.015	0.06	13.1	10.1	0.26	78	0.62	0.01	0.60
ZZ98417		9.5	1.57	3.48	<0.05	<0.02	0.08	0.008	0.05	9.7	10.7	0.25	106	1.23	0.01	0.62
ZZ98418		19.0	1.40	2.79	<0.05	0.04	0.10	0.014	0.05	12.4	11.6	0.30	124	1.78	0.02	0.59
ZZ98419		17.4	2.23	2.75	<0.05	0.03	0.12	0.006	0.04	10.9	9.2	0.21	939	2.08	0.02	0.54
ZZ98420		20.7	0.95	2.33	<0.05	0.05	0.08	0.006	0.04	8.4	7.5	0.22	60	0.67	0.03	0.54
ZZ98421		19.8	2.38	2.73	<0.05	0.04	0.06	0.019	0.05	10.3	7.5	0.26	244	1.26	0.02	0.54
ZZ98422		25.2	1.55	2.95	<0.05	0.04	0.10	0.020	0.05	11.2	8.6	0.30	307	1.29	0.02	0.63
ZZ98423		17.2	1.23	2.22	<0.05	0.03	0.07	0.016	0.04	9.5	5.3	0.22	263	0.65	0.02	0.47
ZZ98424		15.6	1.14	2.55	<0.05	0.04	0.08	0.016	0.04	7.4	6.9	0.26	321	1.25	0.02	0.57
ZZ98425		24.9	1.75	3.19	<0.05	0.05	0.11	0.024	0.07	12.1	11.8	0.35	205	1.18	0.01	0.73
ZZ98426		34.5	2.22	3.68	0.05	0.04	0.16	0.029	0.08	17.0	12.9	0.36	503	1.56	0.01	0.90
ZZ98427		31.3	1.43	3.45	<0.05	<0.02	0.11	0.019	0.05	11.6	5.2	0.14	169	1.55	0.02	0.32
ZZ98428		24.8	2.30	4.31	<0.05	0.03	0.04	0.026	0.05	19.0	14.6	0.48	232	0.67	0.01	1.04
ZZ98429		17.2	2.21	4.99	<0.05	<0.02	0.06	0.023	0.05	16.2	15.0	0.42	168	0.90	<0.01	1.16
ZZ98430		17.5	0.87	3.51	<0.05	<0.02	0.05	0.011	0.04	9.5	3.7	0.10	258	0.75	0.02	0.41
ZZ98431		25.0	2.10	3.84	<0.05	0.04	0.09	0.025	0.06	17.4	13.4	0.38	268	1.36	0.01	1.19
ZZ98432		48.5	2.57	2.91	0.06	0.05	0.14	0.035	0.11	17.9	10.7	0.27	300	14.65	0.01	0.49
ZZ98433		14.2	1.50	3.01	<0.05	0.04	0.08	0.017	0.06	11.8	10.1	0.28	238	1.76	0.02	0.56
ZZ98434		31.1	2.85	5.34	<0.05	0.04	0.06	0.038	0.09	14.8	26.6	0.32	401	3.01	0.01	0.77
ZZ98435		11.4	0.96	1.94	<0.05	0.02	0.01	<0.005	0.02	3.2	1.4	0.05	61	0.18	0.03	0.23
ZZ98436		26.2	2.11	3.19	0.05	0.03	0.09	0.025	0.07	16.2	12.5	0.25	402	2.08	0.01	0.56
ZZ98437		28.0	3.25	3.65	0.07	0.06	0.13	0.029	0.09	14.9	15.0	0.42	305	2.08	0.01	0.83
ZZ98438		14.4	1.27	2.72	<0.05	0.03	0.07	0.016	0.06	8.0	7.6	0.20	214	0.99	0.03	0.45
ZZ98439		21.3	1.68	3.25	<0.05	0.05	0.09	0.021	0.05	10.3	9.5	0.35	786	2.65	0.02	0.57
ZZ98440		22.1	1.87	3.16	0.05	0.07	0.10	0.020	0.07	16.8	10.5	0.41	254	2.10	0.01	0.84
ZZ98441		30.7	1.56	3.18	<0.05	0.05	0.11	0.025	0.08	12.6	10.4	0.43	291	1.07	0.02	0.53
ZZ98442		6.0	1.10	3.70	<0.05	<0.02	0.01	0.010	0.04	7.3	5.9	0.11	87	0.78	0.02	0.70
ZZ98443		14.5	2.67	5.39	<0.05	<0.02	0.03	0.029	0.07	12.6	15.5	0.37	188	1.65	0.01	1.46
ZZ98444		9.5	0.74	1.70	<0.05	<0.02	0.04	0.007	0.04	5.5	3.0	0.08	126	0.57	0.03	0.21
ZZ98445		24.5	1.27	4.08	<0.05	<0.02	0.09	0.028	0.06	14.6	14.6	0.30	78	0.44	0.01	0.85
ZZ98446		22.5	2.09	4.29	<0.05	0.02	0.10	0.028	0.07	14.9	15.9	0.33	520	1.48	0.01	0.82
ZZ98447		14.2	1.50	2.82	<0.05	<0.02	0.08	0.016	0.04	8.0	7.3	0.17	136	0.88	0.02	0.58
ZZ98448		13.0	2.55	3.88	<0.05	<0.02	0.13	0.023	0.05	10.1	10.9	0.27	499	2.55	0.01	0.65
ZZ98449		15.3	1.54	4.33	<0.05	0.02	0.12	0.024	0.05	13.4	14.1	0.32	142	0.74	0.01	0.80
ZZ98450		15.2	1.72	4.37	<0.05	<0.02	0.11	0.025	0.06	13.2	14.5	0.33	515	1.38	0.01	0.69



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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
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	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	0.005	
ZZ98411	9.6	810	6.9	9.5	<0.001	0.03	0.17	0.9	1.0	0.4	19.7	<0.01	0.03	0.2	0.016	
ZZ98412	11.3	510	5.7	6.3	<0.001	0.01	0.43	1.5	0.7	0.3	14.8	<0.01	0.04	0.5	0.016	
ZZ98413	22.4	870	10.0	9.2	0.001	0.02	0.71	3.9	1.3	0.4	31.8	<0.01	0.04	2.6	0.019	
ZZ98414	26.9	930	15.5	10.9	0.001	0.02	1.04	4.0	1.8	0.5	34.1	<0.01	0.05	3.7	0.021	
ZZ98415	6.1	480	3.3	4.4	<0.001	0.02	0.17	0.8	0.4	0.2	15.7	<0.01	0.02	0.2	0.019	
ZZ98416	13.5	810	9.6	9.2	0.001	0.03	0.51	2.0	1.1	0.4	23.1	<0.01	0.03	1.0	0.018	
ZZ98417	10.4	690	7.4	9.1	<0.001	0.02	0.34	1.6	0.8	0.4	18.3	<0.01	0.03	1.1	0.016	
ZZ98418	18.5	870	12.1	8.7	0.005	0.12	2.22	2.4	3.2	1.1	47.3	<0.01	0.03	1.9	0.016	
ZZ98419	13.5	890	7.6	6.6	0.006	0.06	1.42	1.9	2.0	0.4	36.3	<0.01	0.03	1.3	0.015	
ZZ98420	14.9	720	9.1	7.1	0.006	0.12	1.18	1.7	3.2	0.6	38.0	<0.01	0.02	0.9	0.019	
ZZ98421	17.1	920	12.6	7.4	0.010	0.07	1.65	2.2	4.5	0.8	41.2	<0.01	0.02	1.9	0.032	
ZZ98422	17.6	920	10.1	7.3	0.003	0.07	1.35	2.4	2.6	0.3	55.6	<0.01	0.04	1.1	0.016	
ZZ98423	13.0	950	6.3	5.4	0.002	0.07	0.94	1.6	1.6	0.3	53.6	<0.01	0.02	0.8	0.019	
ZZ98424	11.2	710	6.9	6.8	0.004	0.09	0.86	1.2	2.0	0.3	59.9	<0.01	0.03	0.5	0.015	
ZZ98425	20.4	810	11.5	7.8	0.005	0.08	1.48	2.6	4.1	0.4	67.7	<0.01	0.02	1.4	0.015	
ZZ98426	30.7	1110	13.7	8.9	0.006	0.06	1.48	3.6	2.9	0.5	63.9	<0.01	0.04	2.0	0.017	
ZZ98427	16.2	530	9.8	8.2	0.001	0.02	1.04	0.6	1.1	0.4	27.6	<0.01	0.06	<0.2	0.011	
ZZ98428	26.2	630	10.4	7.0	0.001	<0.01	0.66	3.8	0.6	0.7	19.7	<0.01	0.02	4.5	0.035	
ZZ98429	20.2	590	11.5	7.7	<0.001	0.01	0.64	2.6	1.0	0.6	19.3	<0.01	0.04	2.1	0.031	
ZZ98430	7.1	720	5.9	6.6	0.001	0.02	0.52	0.7	0.4	0.4	28.4	<0.01	0.02	<0.2	0.021	
ZZ98431	24.9	1050	12.3	8.7	0.003	0.03	1.26	3.8	2.6	0.5	40.9	<0.01	0.03	3.5	0.028	
ZZ98432	60.9	890	13.4	11.5	0.002	0.03	3.51	4.1	4.0	0.7	34.5	<0.01	0.10	2.5	0.013	
ZZ98433	14.3	880	8.5	6.5	0.002	0.02	0.87	2.1	1.0	0.3	33.1	<0.01	0.02	1.7	0.019	
ZZ98434	26.9	830	17.5	12.8	<0.001	0.02	1.33	3.2	1.0	0.6	26.0	<0.01	0.05	2.6	0.007	
ZZ98435	3.4	670	1.1	2.1	<0.001	0.01	0.16	0.5	0.2	<0.2	15.0	<0.01	0.01	0.2	0.045	
ZZ98436	23.1	1400	13.5	7.4	0.001	0.02	1.65	3.0	1.3	0.4	26.9	<0.01	0.03	2.9	0.013	
ZZ98437	29.0	1130	25.4	11.2	0.013	0.13	4.11	4.0	11.6	1.4	51.8	<0.01	0.04	3.0	0.021	
ZZ98438	13.7	700	9.2	8.6	0.004	0.04	1.05	2.0	2.8	0.4	31.0	<0.01	0.02	1.0	0.017	
ZZ98439	16.4	1060	7.8	7.9	0.006	0.06	1.38	2.1	3.0	0.5	47.6	<0.01	0.03	1.0	0.019	
ZZ98440	21.0	1270	9.8	6.7	0.001	0.01	1.51	3.3	1.2	0.5	38.3	<0.01	0.03	4.3	0.037	
ZZ98441	22.8	1090	9.4	9.0	0.003	0.04	1.86	3.1	1.9	0.8	39.9	<0.01	0.04	1.5	0.020	
ZZ98442	5.8	340	7.0	7.3	<0.001	0.01	0.50	0.9	0.4	0.5	9.3	<0.01	0.03	0.4	0.026	
ZZ98443	17.6	670	13.4	11.9	<0.001	0.01	0.97	2.6	0.6	0.7	15.3	<0.01	0.05	2.2	0.040	
ZZ98444	7.2	490	3.7	3.3	<0.001	0.01	0.46	0.4	<0.2	<0.2	13.7	<0.01	0.02	<0.2	0.017	
ZZ98445	17.4	680	10.9	8.6	0.002	0.03	0.84	2.7	1.4	0.6	28.4	<0.01	0.03	1.5	0.020	
ZZ98446	19.7	810	11.7	10.3	0.001	0.02	1.30	3.5	1.8	0.6	26.0	<0.01	0.04	2.9	0.018	
ZZ98447	8.9	740	7.0	6.7	0.001	0.04	0.63	1.7	0.9	0.3	21.5	<0.01	0.02	0.9	0.020	
ZZ98448	11.1	880	13.3	10.6	0.001	0.03	1.08	2.0	1.0	0.5	17.7	<0.01	0.03	0.8	0.016	
ZZ98449	13.1	720	13.7	10.6	0.001	0.03	0.84	2.5	1.1	0.7	22.0	<0.01	0.02	1.7	0.015	
ZZ98450	13.7	830	15.6	12.1	0.001	0.05	1.21	2.5	1.2	0.6	22.6	<0.01	0.04	1.4	0.012	





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**CERTIFICATE OF ANALYSIS WH14134316**

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ98411		0.14	0.79	28	0.09	4.15	41	<0.5	0.001
ZZ98412		0.10	0.60	30	0.09	4.43	45	<0.5	0.002
ZZ98413		0.15	1.21	37	0.43	11.30	90	0.6	0.003
ZZ98414		0.20	1.33	48	0.14	10.75	121	0.7	0.002
ZZ98415		0.07	0.43	19	<0.05	2.94	23	<0.5	<0.001
ZZ98416		0.15	0.89	36	0.20	6.16	60	<0.5	0.002
ZZ98417		0.13	0.61	39	0.22	3.67	59	<0.5	0.001
ZZ98418		0.14	2.51	33	0.11	8.77	98	1.6	0.003
ZZ98419		0.12	1.54	33	0.19	7.26	75	1.1	0.002
ZZ98420		0.13	1.95	27	0.12	6.47	88	1.6	0.002
ZZ98421		0.11	1.75	40	0.17	6.77	75	1.4	0.005
ZZ98422		0.15	1.86	37	0.12	8.51	99	1.3	0.003
ZZ98423		0.10	1.02	30	0.07	6.77	72	1.0	0.002
ZZ98424		0.08	1.08	27	0.21	4.64	67	1.4	0.003
ZZ98425		0.12	1.76	40	0.11	8.72	110	1.7	0.003
ZZ98426		0.18	2.31	50	0.18	14.90	114	1.7	0.004
ZZ98427		0.17	1.18	39	0.12	6.73	72	<0.5	0.003
ZZ98428		0.12	1.05	44	0.32	9.16	70	0.8	0.004
ZZ98429		0.16	1.21	44	0.40	5.91	57	<0.5	0.005
ZZ98430		0.14	0.77	28	0.25	4.01	38	<0.5	0.001
ZZ98431		0.14	1.96	42	0.40	11.60	95	1.5	0.003
ZZ98432		0.47	1.35	34	0.09	16.60	182	2.0	0.011
ZZ98433		0.10	0.83	34	0.20	6.14	75	1.2	0.002
ZZ98434		0.22	0.96	61	0.16	6.63	163	1.1	0.002
ZZ98435		0.02	0.25	35	<0.05	1.92	21	0.7	0.001
ZZ98436		0.18	1.26	39	0.66	10.60	100	1.0	0.003
ZZ98437		0.21	2.12	42	0.15	11.65	171	2.1	0.004
ZZ98438		0.16	1.04	29	0.43	5.13	75	1.0	0.003
ZZ98439		0.14	1.40	37	0.13	7.23	66	1.7	0.005
ZZ98440		0.14	0.97	43	0.25	9.66	98	2.7	0.005
ZZ98441		0.20	1.22	42	0.14	11.75	89	1.8	0.005
ZZ98442		0.09	0.29	32	0.15	1.56	29	<0.5	0.002
ZZ98443		0.15	0.67	61	0.37	3.60	71	<0.5	0.005
ZZ98444		0.06	0.36	18	0.05	3.14	27	<0.5	0.001
ZZ98445		0.14	1.30	33	0.24	8.70	65	0.5	0.004
ZZ98446		0.17	1.29	45	0.14	8.50	94	0.8	0.005
ZZ98447		0.10	0.83	32	0.08	4.40	47	0.6	0.003
ZZ98448		0.19	0.89	44	0.14	4.23	69	<0.5	0.004
ZZ98449		0.21	1.10	36	0.22	6.10	78	0.5	0.006
ZZ98450		0.18	1.06	45	0.14	6.83	87	0.5	0.003



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Sample Description	Method	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	ME-MS41
	Analyte	Recvd Wt.	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	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	0.05
ZZ98451		0.32	0.42	1.25	22.7	<0.2	<10	710	0.66	0.27	0.50	1.33	36.2	11.9	24	1.50
ZZ98452		0.34	0.27	0.85	8.5	<0.2	<10	480	0.41	0.15	0.45	0.84	23.0	8.3	13	0.84
ZZ98453		0.26	0.38	1.26	12.3	<0.2	<10	630	0.59	0.25	0.43	1.09	35.3	8.3	23	1.36
ZZ98454		0.26	0.34	1.03	7.8	<0.2	<10	510	0.50	0.18	0.40	0.48	23.6	6.6	16	0.98
ZZ98455		0.27	0.31	0.96	9.0	<0.2	<10	470	0.44	0.18	0.43	0.48	23.5	5.9	16	0.87
ZZ98456		0.28	0.43	0.87	13.6	<0.2	<10	560	0.52	0.21	0.47	1.34	30.1	9.1	19	1.19
ZZ98457		0.24	0.76	1.32	15.0	<0.2	<10	920	0.69	0.27	0.42	1.22	27.9	8.3	25	1.47
ZZ98458		0.25	0.37	1.19	14.6	<0.2	<10	650	0.58	0.23	0.43	1.20	30.9	12.3	23	1.16
ZZ98459		0.25	0.42	1.34	13.0	<0.2	<10	680	0.76	0.27	0.69	0.96	35.7	10.5	26	1.55
ZZ98460		0.31	0.21	0.90	10.9	<0.2	<10	360	0.40	0.16	0.33	0.57	26.7	7.3	16	0.99
ZZ98461		0.31	0.29	1.08	9.9	<0.2	<10	450	0.51	0.19	0.40	0.50	33.0	7.1	21	1.06
ZZ98462		0.28	0.29	1.06	9.7	<0.2	<10	520	0.47	0.19	0.34	0.49	30.6	7.3	21	1.11
ZZ98463		0.32	0.40	1.31	14.5	<0.2	<10	560	0.55	0.22	0.61	1.01	32.0	10.8	24	1.29
ZZ98464		0.32	0.33	1.19	10.9	<0.2	<10	550	0.52	0.22	0.45	0.84	33.7	8.0	25	1.11
ZZ98465		0.29	0.18	0.79	5.0	<0.2	<10	320	0.27	0.09	0.53	0.44	22.2	3.3	13	0.77
ZZ98466		0.27	0.25	0.72	4.7	<0.2	<10	230	0.27	0.09	0.69	0.68	17.60	3.6	12	0.65
ZZ98467		0.26	0.37	1.08	5.8	<0.2	<10	400	0.45	0.16	0.77	0.83	24.5	5.6	20	0.99
ZZ98468		0.29	0.25	1.12	7.6	<0.2	<10	420	0.40	0.17	0.43	0.37	24.8	4.5	20	1.15
ZZ98469		0.35	0.23	1.12	7.5	<0.2	<10	460	0.44	0.18	0.39	0.54	26.8	5.0	20	1.17
ZZ98470		0.30	0.30	1.29	10.7	<0.2	<10	540	0.50	0.21	0.38	0.49	31.2	7.9	23	1.23
ZZ98471		0.36	0.31	1.25	9.2	<0.2	<10	580	0.52	0.22	0.48	0.80	28.9	8.6	24	1.14
ZZ98472		0.28	0.20	1.16	8.9	<0.2	<10	550	0.40	0.18	0.37	0.46	31.0	6.8	24	1.03
ZZ98473		0.24	0.23	1.01	4.9	<0.2	<10	500	0.35	0.12	0.32	0.35	19.60	5.1	20	0.88
ZZ98474		0.31	0.26	1.45	7.0	<0.2	<10	680	0.50	0.19	0.43	0.37	29.5	7.9	30	1.14
ZZ98475		0.22	0.27	0.99	3.3	<0.2	<10	550	0.36	0.12	0.50	0.43	17.95	3.3	15	1.11
ZZ98476		0.20	0.42	1.07	6.3	<0.2	<10	550	0.44	0.15	0.81	0.62	21.7	4.5	17	0.87
ZZ98477		0.26	0.39	1.28	8.6	<0.2	<10	670	0.62	0.19	1.02	0.82	29.7	8.2	21	1.04
ZZ98478		0.24	0.59	1.54	8.5	<0.2	<10	700	0.77	0.23	0.83	1.28	38.1	8.2	24	1.18
ZZ98479		0.25	0.28	0.91	6.9	<0.2	<10	460	0.44	0.13	0.84	0.47	21.8	5.3	14	0.79
ZZ98480		0.27	0.59	1.00	7.2	<0.2	<10	490	0.42	0.15	1.12	0.67	26.5	5.4	19	1.28
ZZ98481		0.23	0.44	1.16	7.1	<0.2	<10	520	0.53	0.18	0.97	0.45	31.3	5.7	20	1.04
ZZ98482		0.20	0.42	1.05	7.6	<0.2	<10	460	0.44	0.15	1.05	0.66	25.5	5.9	18	0.84
ZZ98483		0.31	0.31	1.18	9.1	<0.2	<10	500	0.43	0.17	0.57	0.38	28.3	6.7	19	0.90
ZZ98484		0.25	0.12	1.46	10.1	<0.2	<10	480	0.37	0.22	0.20	0.18	24.9	6.0	24	1.30
ZZ98485		0.26	0.13	1.04	7.2	<0.2	<10	370	0.28	0.16	0.20	0.33	21.1	4.1	16	0.89
ZZ98486		0.23	0.08	0.87	10.4	<0.2	<10	160	0.22	0.14	0.13	0.27	16.70	3.3	14	0.60
ZZ98487		0.26	0.28	0.99	3.0	<0.2	<10	420	0.38	0.11	0.90	0.71	22.7	5.0	19	0.76
ZZ98488		0.25	0.18	1.51	12.5	<0.2	<10	480	0.45	0.24	0.49	0.48	26.2	6.9	22	1.32
ZZ98489		0.24	0.47	1.19	7.0	<0.2	<10	580	0.41	0.14	1.22	1.92	22.9	8.0	20	0.71
ZZ98490		0.19	0.35	0.93	7.1	<0.2	<10	600	0.45	0.09	1.78	2.56	18.75	11.5	10	0.55



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Sample Description	Method	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	
	Analyte	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
Units		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
LOR		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	0.01	0.05
ZZ98451		42.5	2.98	4.14	0.05	0.06	0.15	0.032	0.11	18.5	14.6	0.40	313	3.88	0.01	0.94
ZZ98452		23.3	1.69	3.14	<0.05	0.03	0.08	0.017	0.06	10.8	8.2	0.25	446	2.75	0.02	0.57
ZZ98453		33.5	2.26	4.16	<0.05	0.04	0.15	0.030	0.09	18.4	15.0	0.41	291	3.01	0.01	0.85
ZZ98454		28.1	1.61	3.38	<0.05	0.03	0.12	0.024	0.08	12.2	10.2	0.26	253	1.48	0.02	0.63
ZZ98455		30.2	1.65	3.24	<0.05	0.02	0.10	0.022	0.07	12.3	9.8	0.26	252	1.64	0.02	0.66
ZZ98456		38.8	2.21	2.94	0.05	0.07	0.24	0.026	0.09	15.6	10.6	0.34	237	3.22	0.01	0.76
ZZ98457		40.5	2.35	4.61	<0.05	0.02	0.21	0.038	0.07	13.7	10.1	0.24	337	2.48	0.01	0.59
ZZ98458		31.7	2.49	4.07	0.05	0.03	0.14	0.030	0.07	15.4	13.0	0.33	378	2.49	0.02	0.71
ZZ98459		43.6	2.36	4.61	0.07	0.05	0.13	0.033	0.08	18.7	13.1	0.39	292	2.02	0.02	1.05
ZZ98460		27.4	1.82	2.98	<0.05	<0.02	0.09	0.021	0.07	13.7	9.5	0.27	308	2.56	0.02	0.60
ZZ98461		29.0	1.89	3.54	0.05	<0.02	0.13	0.020	0.08	16.8	13.4	0.37	241	2.20	0.01	0.78
ZZ98462		26.1	1.90	3.54	<0.05	<0.02	0.11	0.022	0.08	15.4	12.9	0.35	211	1.64	0.01	0.88
ZZ98463		28.5	2.62	4.03	0.05	0.02	0.17	0.027	0.09	16.4	16.2	0.40	374	2.42	0.01	0.78
ZZ98464		31.0	2.26	3.82	0.05	0.04	0.18	0.026	0.09	17.2	16.0	0.43	190	1.34	0.01	1.12
ZZ98465		15.7	1.13	2.55	<0.05	0.02	0.08	0.015	0.05	11.4	10.6	0.25	141	0.49	0.01	0.50
ZZ98466		20.5	0.92	2.24	<0.05	0.03	0.07	0.013	0.05	9.2	9.0	0.22	65	0.79	0.02	0.52
ZZ98467		24.6	1.23	3.34	<0.05	0.03	0.10	0.024	0.06	12.8	12.1	0.34	426	1.05	0.01	0.75
ZZ98468		17.2	1.47	3.58	<0.05	<0.02	0.13	0.019	0.07	12.8	12.6	0.32	216	1.15	0.01	0.70
ZZ98469		23.9	1.50	3.58	<0.05	<0.02	0.22	0.023	0.08	13.9	12.6	0.32	197	1.20	0.01	0.68
ZZ98470		21.0	2.22	4.03	<0.05	0.02	0.13	0.023	0.08	16.2	15.3	0.36	277	1.74	0.01	0.80
ZZ98471		23.8	2.08	3.96	<0.05	0.02	0.12	0.026	0.08	15.0	14.5	0.37	341	1.69	0.01	0.82
ZZ98472		19.5	1.94	3.89	<0.05	0.03	0.09	0.022	0.08	16.1	15.7	0.41	218	1.63	0.01	0.82
ZZ98473		21.3	1.56	3.39	<0.05	<0.02	0.07	0.017	0.06	10.3	11.3	0.26	142	1.06	0.02	0.50
ZZ98474		24.9	2.05	4.50	<0.05	0.04	0.07	0.025	0.09	15.4	18.3	0.47	246	1.19	0.01	0.68
ZZ98475		20.6	1.11	3.18	<0.05	0.02	0.08	0.018	0.05	9.2	8.7	0.22	118	0.75	0.02	0.53
ZZ98476		23.1	1.60	3.22	<0.05	0.02	0.12	0.019	0.06	11.1	10.6	0.28	259	1.45	0.02	0.60
ZZ98477		30.8	2.05	3.68	<0.05	0.04	0.15	0.027	0.09	14.9	15.0	0.38	310	1.38	0.01	0.75
ZZ98478		40.3	2.13	4.61	0.05	0.05	0.16	0.033	0.10	19.6	19.4	0.47	272	1.54	0.01	0.87
ZZ98479		27.5	1.50	2.72	<0.05	0.04	0.09	0.016	0.06	12.1	10.4	0.31	412	1.10	0.03	0.70
ZZ98480		18.6	1.67	2.99	<0.05	0.05	0.15	0.023	0.10	14.6	11.7	0.37	284	1.28	0.02	0.59
ZZ98481		23.2	1.73	3.53	<0.05	0.04	0.13	0.027	0.07	16.1	13.7	0.37	199	1.16	0.02	0.77
ZZ98482		20.9	1.68	3.20	<0.05	0.04	0.10	0.020	0.06	13.5	11.8	0.32	401	1.12	0.02	0.63
ZZ98483		17.5	2.02	3.67	0.05	0.03	0.15	0.022	0.07	14.4	16.3	0.40	220	2.00	0.01	0.77
ZZ98484		10.3	2.21	4.85	<0.05	<0.02	0.06	0.019	0.05	12.9	13.6	0.36	208	1.03	<0.01	1.30
ZZ98485		12.6	1.50	4.13	<0.05	<0.02	0.04	0.016	0.05	11.1	8.8	0.20	183	1.23	<0.01	0.40
ZZ98486		14.3	1.83	3.84	<0.05	<0.02	0.03	0.014	0.06	8.5	7.6	0.16	180	1.56	0.01	0.54
ZZ98487		16.8	0.97	3.02	<0.05	0.03	0.09	0.016	0.06	12.1	10.6	0.31	98	0.36	0.01	0.62
ZZ98488		27.8	2.41	4.43	<0.05	<0.02	0.04	0.027	0.10	13.2	18.1	0.38	279	2.37	0.01	0.75
ZZ98489		23.0	1.67	3.47	<0.05	0.04	0.10	0.021	0.07	10.7	11.5	0.34	2190	3.34	0.02	0.52
ZZ98490		31.8	1.63	2.35	<0.05	0.04	0.11	0.014	0.04	8.0	5.5	0.21	3570	3.63	0.03	0.45



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Sample Description	Method	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	
	Analyte	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
	Units LOR	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		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	0.005
ZZ98451		35.5	1080	17.4	11.4	0.001	0.02	2.33	5.3	2.0	0.7	39.3	<0.01	0.04	5.3	0.021
ZZ98452		21.1	870	8.1	7.2	0.002	0.05	1.22	2.4	0.8	0.3	33.9	<0.01	0.03	1.6	0.025
ZZ98453		30.1	1000	15.8	10.7	0.001	0.02	2.10	4.3	1.9	0.5	33.1	<0.01	0.04	4.5	0.023
ZZ98454		22.5	770	10.3	8.4	0.001	0.02	1.25	3.2	0.9	0.4	30.1	<0.01	0.03	2.4	0.016
ZZ98455		23.0	700	9.1	6.9	0.001	0.01	1.20	3.2	0.9	0.4	28.3	<0.01	0.03	2.8	0.022
ZZ98456		36.4	1090	12.5	8.3	0.003	0.02	2.12	4.3	2.0	0.4	39.7	<0.01	0.05	4.7	0.024
ZZ98457		30.0	1210	14.5	11.8	0.001	0.05	2.03	4.3	1.9	0.7	38.4	<0.01	0.05	1.4	0.012
ZZ98458		29.8	930	14.2	11.3	0.002	0.03	2.02	4.5	2.3	0.7	32.3	<0.01	0.02	3.6	0.017
ZZ98459		40.0	880	14.3	12.0	0.003	0.04	2.18	5.3	4.7	0.7	45.8	<0.01	0.05	4.6	0.025
ZZ98460		20.9	850	10.9	6.7	0.001	0.01	1.52	2.6	1.4	0.4	26.1	<0.01	0.03	2.1	0.025
ZZ98461		24.6	900	11.7	7.9	0.001	<0.01	1.23	3.2	1.2	0.5	28.6	<0.01	0.04	3.1	0.030
ZZ98462		24.9	840	11.0	8.6	0.001	0.01	1.05	3.5	2.0	0.5	26.6	<0.01	0.02	3.1	0.032
ZZ98463		27.6	940	15.0	11.3	0.003	0.03	1.21	4.4	2.5	0.5	37.0	<0.01	0.04	3.5	0.017
ZZ98464		28.1	960	13.1	10.3	0.002	0.02	1.23	4.6	2.1	0.5	32.9	<0.01	0.04	4.8	0.030
ZZ98465		11.1	820	9.5	7.2	0.006	0.06	0.99	2.0	1.7	0.5	29.6	<0.01	0.02	2.1	0.017
ZZ98466		12.4	650	8.2	6.9	0.007	0.10	1.27	1.8	2.5	0.5	29.9	<0.01	0.02	1.7	0.017
ZZ98467		16.8	850	16.1	8.8	0.009	0.12	1.59	2.8	3.8	0.9	35.3	<0.01	0.03	1.8	0.018
ZZ98468		14.3	880	10.9	10.6	<0.001	0.04	0.88	2.4	1.0	0.5	28.1	<0.01	0.02	1.7	0.016
ZZ98469		16.9	870	12.3	10.4	0.001	0.02	1.02	3.0	1.1	0.4	28.3	<0.01	0.04	2.2	0.019
ZZ98470		21.4	880	14.6	11.5	0.001	0.02	1.27	3.5	1.3	0.5	28.7	<0.01	0.03	3.2	0.017
ZZ98471		22.5	900	14.0	10.4	0.002	0.03	1.12	3.5	1.8	0.5	30.1	<0.01	0.04	2.8	0.018
ZZ98472		20.6	870	11.4	8.5	0.001	<0.01	0.86	3.3	1.0	0.5	28.2	<0.01	0.03	4.1	0.030
ZZ98473		15.6	730	6.7	8.3	0.001	0.03	0.58	2.2	1.1	0.3	26.8	<0.01	0.03	1.1	0.018
ZZ98474		23.1	850	10.6	11.8	0.001	0.04	0.70	3.6	1.2	0.4	35.2	<0.01	0.04	2.7	0.020
ZZ98475		13.5	770	8.9	8.6	0.001	0.05	0.58	1.6	1.3	0.3	32.0	<0.01	0.02	0.6	0.014
ZZ98476		17.4	850	8.3	8.2	0.001	0.06	0.79	2.1	1.3	0.3	42.2	<0.01	0.02	0.9	0.013
ZZ98477		26.2	820	14.3	9.1	0.001	0.04	1.09	4.1	1.7	0.4	48.2	<0.01	0.04	3.2	0.012
ZZ98478		28.8	850	16.3	11.2	0.001	0.04	1.10	5.1	3.4	0.5	38.0	<0.01	0.03	3.9	0.014
ZZ98479		17.4	680	8.2	6.5	0.002	0.05	0.92	2.4	2.2	0.3	37.2	<0.01	0.02	1.7	0.024
ZZ98480		18.6	1260	9.6	8.8	0.002	0.05	1.04	3.5	1.7	0.4	57.5	<0.01	0.03	2.6	0.018
ZZ98481		17.2	960	12.1	8.9	0.002	0.06	0.85	3.2	1.7	0.4	42.8	<0.01	0.03	2.2	0.016
ZZ98482		17.4	980	9.1	8.8	0.002	0.06	0.90	2.4	1.8	0.3	44.1	<0.01	0.03	1.5	0.016
ZZ98483		17.3	910	10.6	8.3	0.001	0.02	0.89	3.1	1.1	0.4	31.2	<0.01	0.03	2.9	0.026
ZZ98484		15.6	670	11.2	7.0	<0.001	0.01	0.59	2.1	0.7	0.6	18.8	0.01	0.03	1.9	0.041
ZZ98485		11.7	660	9.1	8.2	<0.001	0.01	0.57	0.9	0.7	0.5	17.3	<0.01	0.02	0.3	0.018
ZZ98486		10.8	880	9.3	9.1	0.001	0.02	0.82	0.8	0.7	0.4	13.8	<0.01	0.02	0.2	0.020
ZZ98487		15.8	1050	7.2	7.9	0.011	0.10	0.68	2.3	5.6	0.4	38.2	<0.01	0.02	1.4	0.021
ZZ98488		24.7	960	11.7	10.2	<0.001	0.02	1.21	2.8	1.1	0.5	28.6	<0.01	0.04	1.4	0.022
ZZ98489		21.4	1170	8.5	9.8	0.009	0.08	0.85	1.9	4.5	0.4	48.2	<0.01	0.03	0.7	0.018
ZZ98490		19.3	1010	5.6	5.6	0.005	0.11	1.35	1.3	6.7	0.2	73.4	<0.01	0.02	0.4	0.016



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
		Tl	U	V	W	Y	Zn	Zr	Au
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ98451		0.25	2.05	57	0.18	13.00	158	2.8	0.006
ZZ98452		0.14	1.10	40	0.12	6.74	90	1.1	0.003
ZZ98453		0.22	1.62	55	0.12	11.20	138	1.7	0.005
ZZ98454		0.16	0.98	42	0.12	7.97	92	1.1	0.004
ZZ98455		0.14	0.88	39	0.13	8.20	87	0.9	0.004
ZZ98456		0.26	1.98	50	0.12	12.15	155	2.9	0.006
ZZ98457		0.22	1.65	60	0.33	10.80	110	<0.5	0.008
ZZ98458		0.20	1.99	52	0.19	11.30	115	0.9	0.004
ZZ98459		0.22	3.42	52	0.43	14.35	131	1.9	0.005
ZZ98460		0.16	1.06	42	0.11	7.89	93	<0.5	0.003
ZZ98461		0.16	1.13	47	0.16	9.58	104	<0.5	0.004
ZZ98462		0.17	2.11	45	0.28	9.97	95	<0.5	0.003
ZZ98463		0.22	1.26	55	0.31	12.10	128	0.7	0.006
ZZ98464		0.17	1.73	49	0.28	11.65	132	1.8	0.004
ZZ98465		0.13	1.26	30	0.18	6.92	80	1.0	0.003
ZZ98466		0.11	1.64	26	0.17	5.63	77	1.4	0.002
ZZ98467		0.17	1.67	40	0.13	8.98	97	1.2	0.006
ZZ98468		0.18	1.17	43	0.34	6.40	83	0.5	0.003
ZZ98469		0.19	1.14	47	0.14	8.12	89	0.5	0.005
ZZ98470		0.19	1.20	54	0.16	8.93	105	0.7	0.008
ZZ98471		0.19	1.46	53	0.15	9.15	111	0.8	0.004
ZZ98472		0.15	0.91	48	0.40	7.77	97	1.4	0.005
ZZ98473		0.12	0.76	40	0.09	6.51	61	0.6	0.003
ZZ98474		0.16	0.99	52	0.13	9.65	104	1.2	0.004
ZZ98475		0.13	0.96	34	0.10	6.04	61	0.7	0.002
ZZ98476		0.12	1.12	35	0.15	8.64	81	0.8	0.003
ZZ98477		0.18	1.23	45	0.17	10.90	116	1.7	0.006
ZZ98478		0.20	2.25	48	0.14	15.50	124	1.9	0.006
ZZ98479		0.11	1.62	31	0.12	9.86	66	1.5	0.003
ZZ98480		0.21	0.96	37	0.12	11.35	108	2.1	0.006
ZZ98481		0.16	1.44	37	0.13	11.90	88	1.7	0.006
ZZ98482		0.16	1.17	37	0.12	9.50	102	1.5	0.005
ZZ98483		0.14	1.66	44	0.15	7.77	110	1.4	0.003
ZZ98484		0.17	0.80	48	0.68	5.07	64	<0.5	0.003
ZZ98485		0.13	0.70	42	0.16	3.96	57	<0.5	0.002
ZZ98486		0.11	0.51	47	0.16	2.75	63	<0.5	0.001
ZZ98487		0.14	1.46	37	0.13	8.20	96	1.3	0.004
ZZ98488		0.18	0.80	56	0.16	6.77	118	<0.5	0.004
ZZ98489		0.14	1.69	43	0.11	8.08	123	1.3	0.006
ZZ98490		0.11	2.40	27	0.07	7.77	82	1.5	0.004



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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	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	ME-MS41 Cs ppm
		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	0.05
ZZ98491		0.21	0.46	1.19	6.6	<0.2	<10	500	0.42	0.17	0.95	1.02	23.4	5.3	23	0.71
ZZ98492		0.25	0.39	1.00	9.4	<0.2	<10	370	0.35	0.15	0.21	0.47	16.50	4.9	15	0.99
ZZ98493		0.29	0.42	1.38	10.6	<0.2	<10	520	0.49	0.28	0.43	0.43	29.9	7.9	26	1.47
ZZ98494		0.29	0.17	0.51	5.7	<0.2	<10	200	0.15	0.09	0.21	0.24	10.15	6.3	9	0.55
ZZ98495		0.33	0.34	1.29	9.0	<0.2	<10	490	0.44	0.22	0.39	0.48	33.5	7.2	25	1.35
ZZ98496		0.28	0.24	1.14	11.0	<0.2	<10	430	0.37	0.20	0.38	0.40	25.2	6.7	21	1.11
ZZ98497		0.23	0.33	1.03	10.9	<0.2	<10	460	0.40	0.20	0.35	0.77	26.4	6.7	20	1.10
ZZ98498		0.24	0.21	1.09	6.2	0.2	<10	470	0.39	0.16	0.35	0.27	24.7	5.1	18	1.17
ZZ98499		0.25	0.23	0.84	7.1	<0.2	<10	320	0.36	0.12	1.00	1.77	22.2	3.6	12	0.78
ZZ98500		0.21	0.29	0.92	12.6	<0.2	<10	420	0.36	0.13	1.07	0.53	21.0	5.5	15	0.86

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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	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.01	0.05
ZZ98491		23.9	1.64	3.48	<0.05	0.04	0.12	0.022	0.07	12.4	12.4	0.34	397	1.11	0.01	0.57
ZZ98492		22.0	1.46	3.24	<0.05	<0.02	0.09	0.018	0.06	8.3	10.3	0.20	219	1.32	0.02	0.42
ZZ98493		25.4	1.96	4.68	<0.05	0.02	0.12	0.032	0.08	15.5	14.7	0.41	188	1.13	0.01	0.84
ZZ98494		9.1	1.13	1.91	<0.05	<0.02	0.05	0.012	0.04	5.1	3.8	0.12	382	1.13	0.02	0.32
ZZ98495		21.9	1.82	4.11	<0.05	0.02	0.11	0.029	0.08	17.4	14.3	0.43	181	1.08	0.01	0.79
ZZ98496		18.4	1.96	3.73	<0.05	0.02	0.08	0.024	0.07	13.2	10.3	0.32	283	1.13	0.01	0.81
ZZ98497		24.2	1.70	3.28	<0.05	0.02	0.08	0.023	0.07	13.7	10.0	0.32	221	0.90	0.01	0.74
ZZ98498		19.5	1.41	3.51	<0.05	0.02	0.10	0.021	0.06	13.1	10.6	0.29	196	0.75	0.01	0.58
ZZ98499		21.7	0.92	2.57	<0.05	0.03	0.09	0.020	0.05	11.7	8.3	0.25	336	0.47	0.01	0.55
ZZ98500		16.8	1.54	2.83	<0.05	0.03	0.08	0.019	0.05	10.9	8.3	0.28	492	1.53	0.01	0.56

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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	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %
		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	0.005
ZZ98491		18.0	1280	8.8	9.9	0.008	0.07	0.78	2.1	4.6	0.4	47.0	<0.01	0.03	0.9	0.019
ZZ98492		14.9	550	9.2	7.4	<0.001	0.01	0.69	1.0	0.9	0.4	20.6	<0.01	0.03	0.2	0.014
ZZ98493		23.2	800	18.7	12.8	0.002	0.02	0.97	3.9	1.6	0.7	35.4	<0.01	0.04	2.7	0.016
ZZ98494		7.6	550	5.2	4.7	0.001	0.02	0.57	1.1	0.6	0.2	18.5	<0.01	0.01	0.5	0.018
ZZ98495		20.4	810	14.3	11.8	0.001	0.02	1.05	4.1	1.8	0.6	30.4	<0.01	0.03	4.1	0.021
ZZ98496		16.5	740	11.6	10.0	0.001	0.03	0.99	3.2	1.1	0.5	25.6	<0.01	0.01	2.6	0.019
ZZ98497		18.9	850	18.0	9.3	0.001	0.03	2.82	3.5	1.5	0.5	25.6	<0.01	0.02	2.7	0.019
ZZ98498		14.4	760	12.6	10.2	0.002	0.04	1.39	2.7	1.1	0.5	25.9	<0.01	0.02	1.7	0.012
ZZ98499		14.9	760	12.8	8.0	0.003	0.10	2.30	2.1	1.5	0.4	43.1	<0.01	0.02	1.3	0.016
ZZ98500		14.8	750	13.4	7.7	0.004	0.09	2.00	2.1	1.6	0.9	52.2	<0.01	0.03	1.1	0.016

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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14134316**

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Au-ICP21
	Analyte	Tl	U	V	W	Y	Zn	Zr	Au
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
LOR									
		0.02	0.05	1	0.05	0.05	2	0.5	0.001
ZZ98491		0.16	1.95	48	0.23	8.96	114	1.3	0.005
ZZ98492		0.14	0.72	38	0.12	5.55	67	<0.5	0.004
ZZ98493		0.23	1.33	52	0.27	8.47	102	0.7	0.004
ZZ98494		0.08	0.52	26	0.08	2.91	37	<0.5	0.002
ZZ98495		0.20	1.57	46	0.27	9.64	112	1.0	0.004
ZZ98496		0.17	1.21	47	0.30	6.79	82	0.6	0.004
ZZ98497		0.16	1.28	43	0.13	8.77	96	0.9	0.004
ZZ98498		0.17	1.18	36	0.43	7.78	81	0.6	0.004
ZZ98499		0.11	1.15	28	0.21	7.82	152	1.2	0.004
ZZ98500		0.13	1.20	35	0.08	7.31	81	1.1	0.005

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



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**CERTIFICATE OF ANALYSIS WH14134316**

<b>CERTIFICATE COMMENTS</b>	
	<b>ANALYTICAL COMMENTS</b>
Applies to Method:	Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g). ME-MS41
	<b>LABORATORY ADDRESSES</b>
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-ICP21 ME-MS41



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**CERTIFICATE WH14134318**

Project: SNAIL

This report is for 4 Rock samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2014.

The following have access to data associated with this certificate:

MATT DUMALA	JOAN MARIACHER
-------------	----------------

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

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

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

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14134318**

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 %
M896187		1.18	0.46	0.16	23.0	40	0.09	0.60	0.05	8.46	6.31	0.2	23	0.10	18.3	0.35
M896188		0.97	0.15	5.56	10.0	3900	1.09	0.17	0.22	0.36	34.2	8.8	84	2.74	35.8	2.97
M896189		1.38	0.13	0.69	4.0	110	0.10	0.10	0.02	0.08	18.30	0.2	28	0.78	1.7	0.25
M896190		0.83	0.03	2.38	6.8	390	0.65	0.11	0.57	0.65	29.6	3.2	10	1.54	7.0	1.41



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**CERTIFICATE OF ANALYSIS WH14134318**

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	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
M896187		0.97	0.05	0.1	0.176	0.03	3.5	3.6	0.03	76	0.31	0.01	0.6	1.8	70	64.9
M896188		12.80	0.16	1.6	0.046	1.41	17.8	38.5	0.77	172	2.09	1.45	7.1	31.6	870	9.9
M896189		1.61	0.14	0.7	<0.005	0.25	8.6	7.0	0.02	21	0.23	0.02	3.7	1.2	160	6.5
M896190		5.35	0.16	0.6	0.025	0.80	13.2	14.4	0.11	282	0.57	0.35	3.7	9.3	860	8.7



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**CERTIFICATE OF ANALYSIS WH14134318**

Sample Description	Method Analyte Units LOR	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		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	0.1	1
M896187		1.1	<0.002	0.13	4.30	0.3	<1	1.1	10.4	<0.05	<0.05	1.8	0.011	0.05	0.3	25
M896188		59.5	0.002	0.04	1.15	10.5	2	1.1	118.0	0.47	0.08	5.1	0.284	0.35	1.6	143
M896189		11.0	<0.002	0.03	2.07	0.9	<1	0.3	35.1	0.13	<0.05	2.3	0.049	0.15	0.6	43
M896190		39.6	<0.002	0.01	0.50	4.6	1	0.8	56.5	0.29	<0.05	5.1	0.115	0.22	1.5	48

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





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**CERTIFICATE OF ANALYSIS WH14134318**

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
M896187		9.1	1.1	1030	4.7
M896188		1.8	13.6	130	61.3
M896189		1.8	2.6	6	23.5
M896190		2.6	18.8	93	17.1

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



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**CERTIFICATE OF ANALYSIS WH14134318**

	<b>CERTIFICATE COMMENTS</b>										
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>										
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21		PUL-31	PUL-QC	SPL-21	WEI-21		
CRU-31	CRU-QC	LOG-21		PUL-31							
PUL-QC	SPL-21	WEI-21									
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.            ME-MS61</p>										



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**CERTIFICATE WH14139626**

Project: SNAIL  
 P.O. No.: Sept 3, 2014  
 This report is for 4 Rock samples submitted to our lab in Whitehorse, YT, Canada on 4-SEP-2014.  
 The following have access to data associated with this certificate:  
 JOAN MARIACHER

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS

To: SILVER RANGE RESOURCES LTD.  
 ATTN: JOAN MARIACHER  
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Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14139626**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA24 Au ppm 0.005
M896187		1.18	<0.005
M896188		0.97	<0.005
M896189		1.38	<0.005
M896190		0.83	<0.005

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



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**CERTIFICATE OF ANALYSIS WH14139626**

<b>CERTIFICATE COMMENTS</b>	
	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p>
Applies to Method:	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-AA24 FND-02



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**CERTIFICATE WH14140881**

Project: SNAIL

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 1-OCT-2014.

The following have access to data associated with this certificate:

MATT DUMALA	JOAN MARIACHER
-------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Sn-XRF10	Fusion XRF - Sn Ore Grade	XRF
ME-XRF10	Fusion XRF - Ore Grade	XRF
OA-GRA06	LOI for ME-XRF06	WST-SIM

To: SILVER RANGE RESOURCES LTD.  
 ATTN: JOAN MARIACHER  
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Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14140881**

Sample Description	Method Analyte Units LOR	Sn-XRF10 Sn % 0.01
M896179		0.07
M896180		0.76
M896181		0.56
M896182		0.38
M896184		0.08
M896185		0.12



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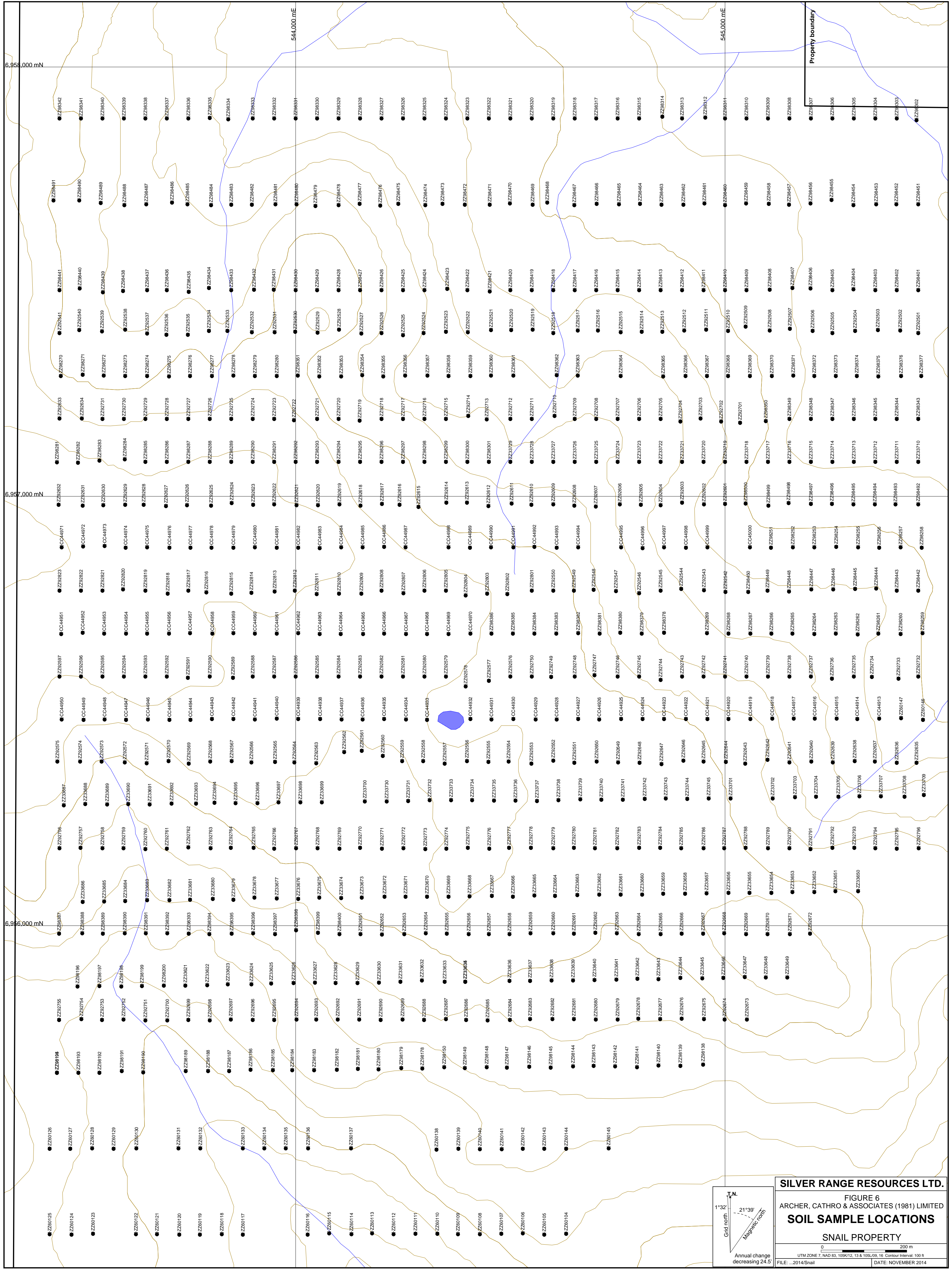
Project: SNAIL

**CERTIFICATE OF ANALYSIS WH14140881**

**CERTIFICATE COMMENTS**

<b>LABORATORY ADDRESSES</b>	
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. FND-02 ME-XRF10 OA-GRA06 Sn-XRF10





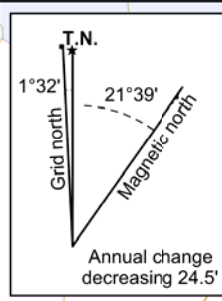
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FIGURE 6  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SOIL SAMPLE LOCATIONS**  
 SNAIL PROPERTY

Grid north 1°32' 21"39" Magnetic North  
 Annual change decreasing 24.5

0 200 m  
 UTM ZONE 7, NAD 83, 105K12, 13 & 105L09, 16 Contour Interval: 100 ft  
 FILE: ...2014/Snail DATE: NOVEMBER 2014





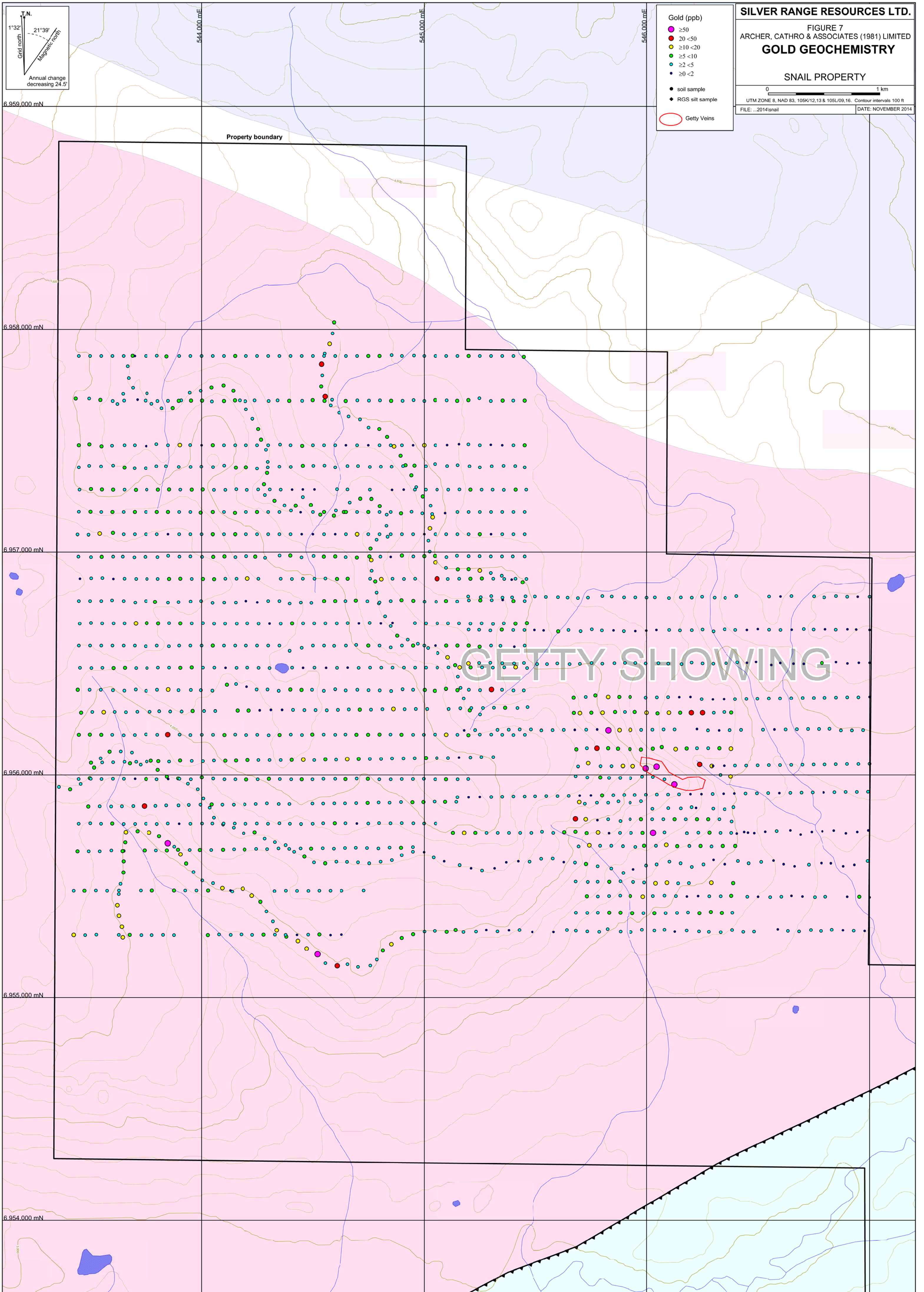
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FIGURE 7  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**GOLD GEOCHEMISTRY**

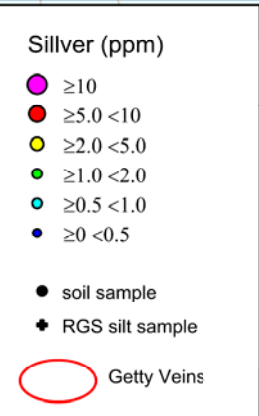
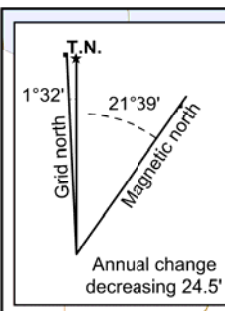
SNAIL PROPERTY

0 1 km  
UTM ZONE 8, NAD 83, 10SK/12,13 & 10SL/09,16. Contour intervals 100 ft  
FILE: ...2014\snail DATE: NOVEMBER 2014

- Gold (ppb)
- $\geq 50$
  - $20 < 50$
  - $\geq 10 < 20$
  - $\geq 5 < 10$
  - $\geq 2 < 5$
  - $\geq 0 < 2$
- soil sample
  - ◆ RGS silt sample
- Getty Veins







**SILVER RANGE RESOURCES LTD.**

FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

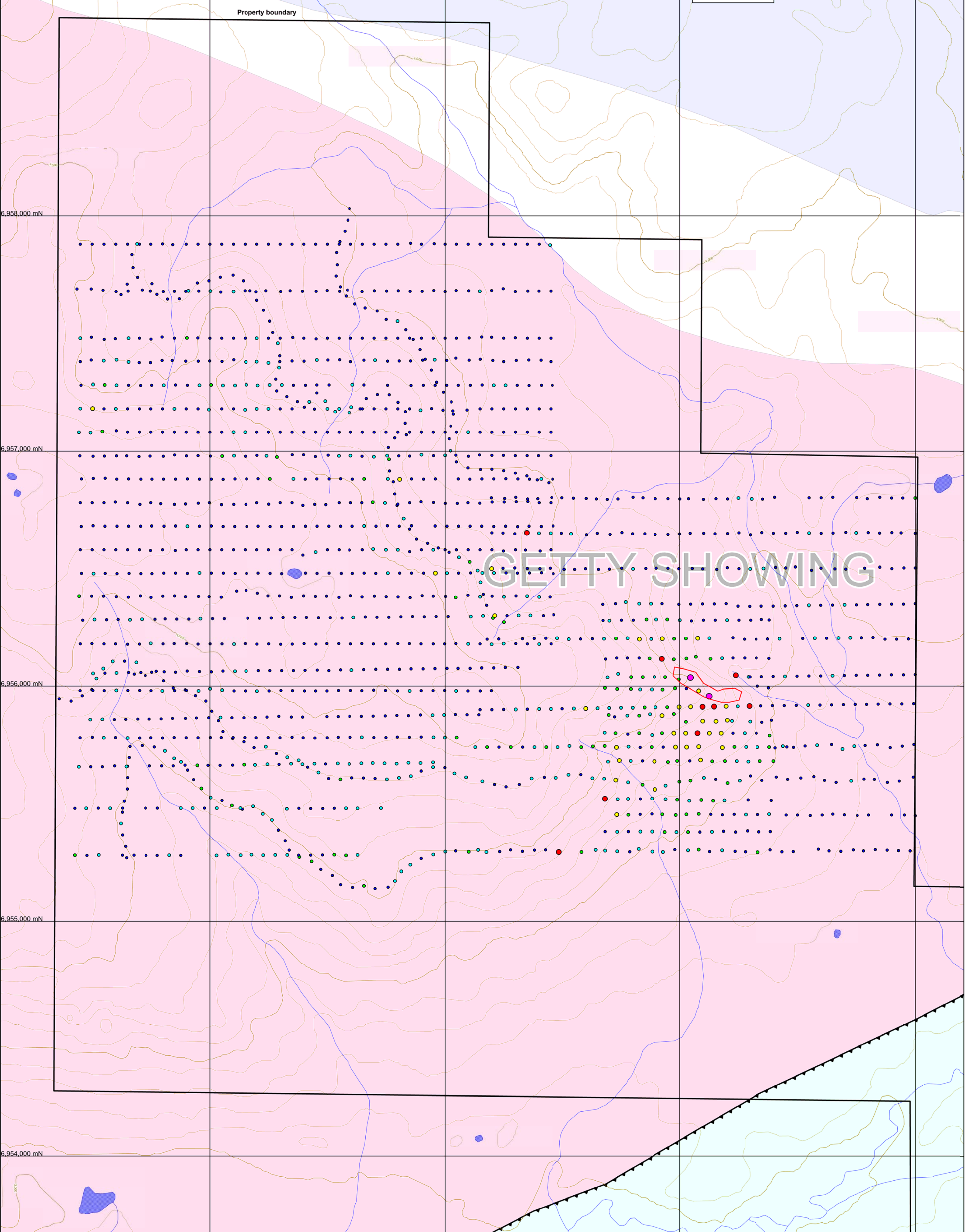
**SILVER GEOCHEMISTRY**

SNAIL PROPERTY

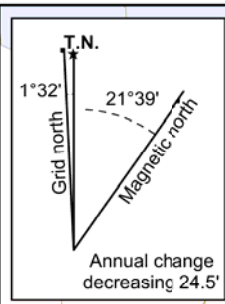
0 1 km

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

FILE: ...2014\anall DATE: NOVEMBER, 2014



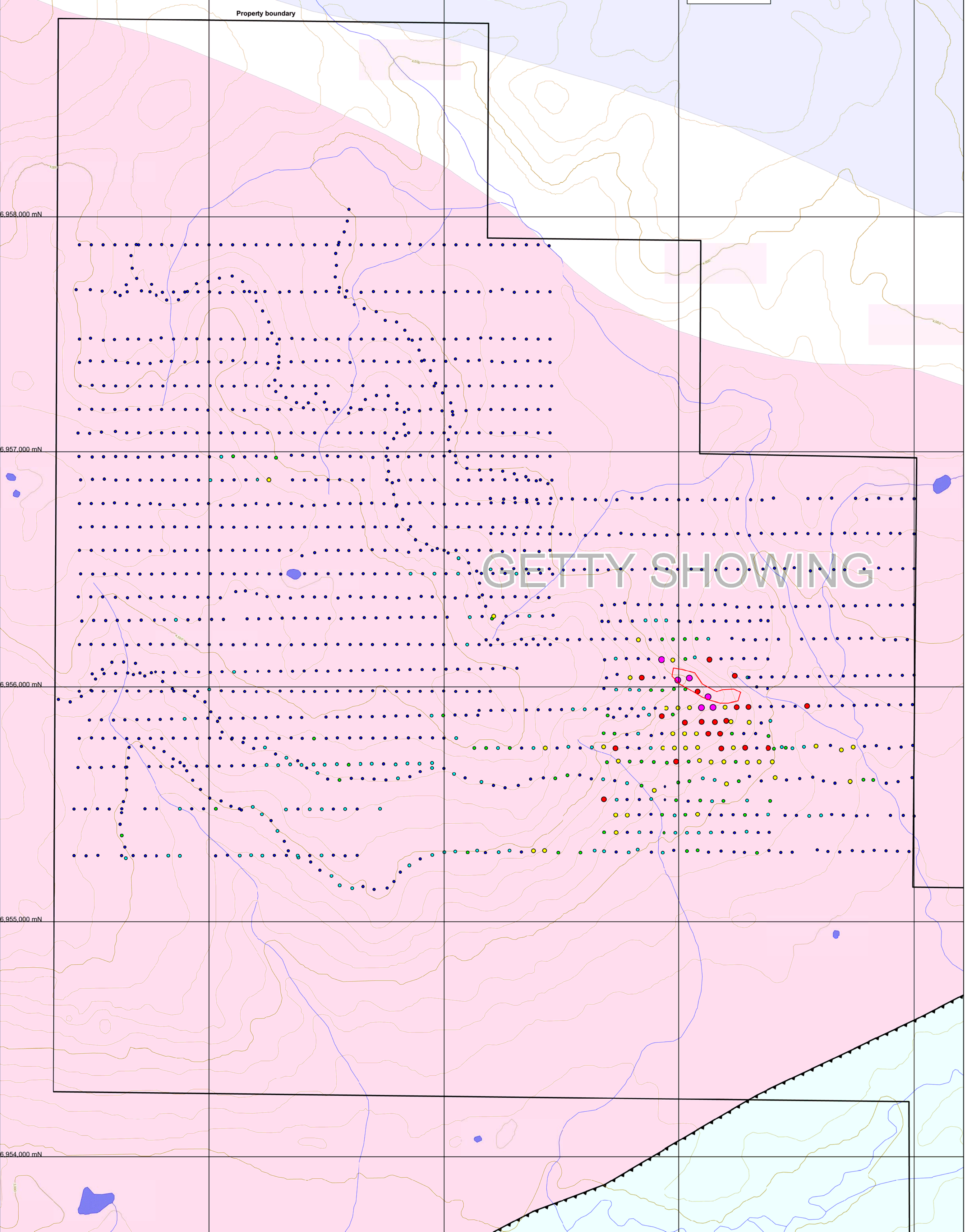




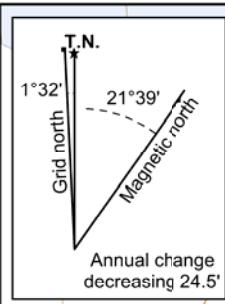
**SILVER RANGE RESOURCES LTD.**  
 FIGURE 9  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC GEOCHEMISTRY**  
 SNAIL PROPERTY

0 1 km  
 UTM ZONE 8, NAD 83, 105K/12.13 & 105L/09.16. Contour intervals 100 ft  
 FILE: ...2014\snail DATE: NOVEMBER 2014

- Arsenic (ppm)**
- ≥1,000
  - ≥500 <1,000
  - ≥200 <500
  - ≥100 <200
  - ≥50 <100
  - ≥0 <50
- soil sample  
 ● RGS silt sample  
 ○ Getty Veins







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FIGURE 10  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**COPPER GEOCHEMISTRY**

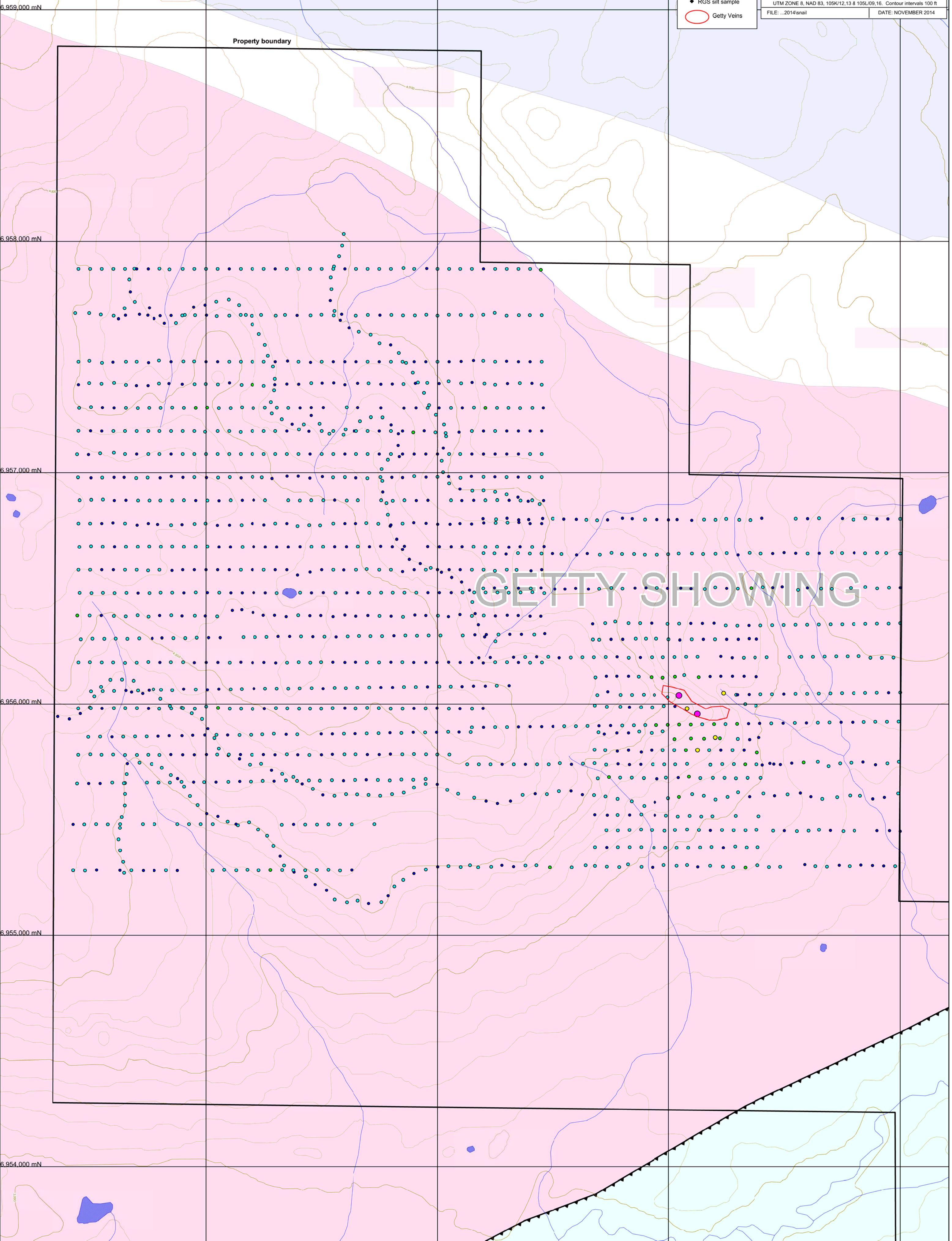
SNAIL PROPERTY

0 1 km

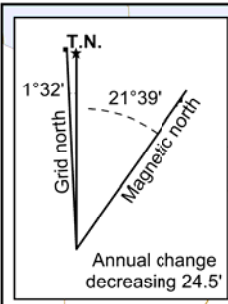
UTM ZONE 8, NAD 83, 105K/12, 13 & 105L/09, 16. Contour intervals 100 ft

FILE: ...2014\snail DATE: NOVEMBER 2014

- Copper (ppm)
- ≥500
  - ≥200 <500
  - ≥100 <200
  - ≥50 <100
  - ≥20 <50
  - ≥0 <20
- soil sample  
◆ RGS silt sample
- Getty Veins







**SILVER RANGE RESOURCES LTD.**

FIGURE 11  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**LEAD GEOCHEMISTRY**

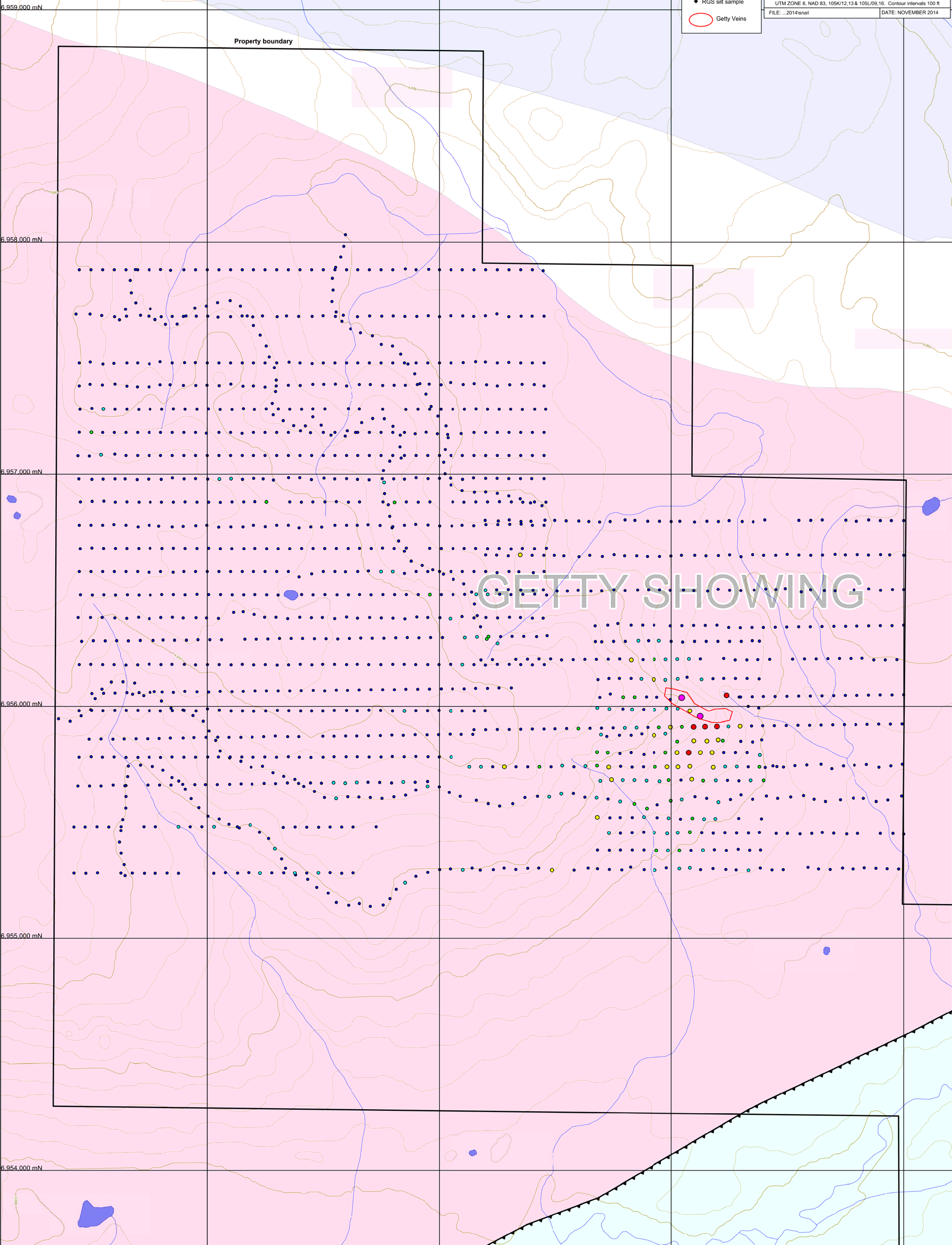
SNAIL PROPERTY

0 1 km

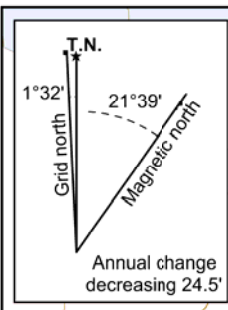
UTM ZONE 8, NAD 83, 10SK12.13 & 10SL09.16. Contour intervals 100 ft

FILE: ...2014\snail DATE: NOVEMBER 2014

- Lead (ppm)
- ≥1,000
  - ≥500 <1,000
  - ≥200 <500
  - ≥100 <200
  - ≥50 <100
  - ≥0 <50
- soil sample
- ◆ RGS silt sample
- Getty Veins







**SILVER RANGE RESOURCES LTD.**

FIGURE 12  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**ZINC GEOCHEMISTRY**

SNAIL PROPERTY

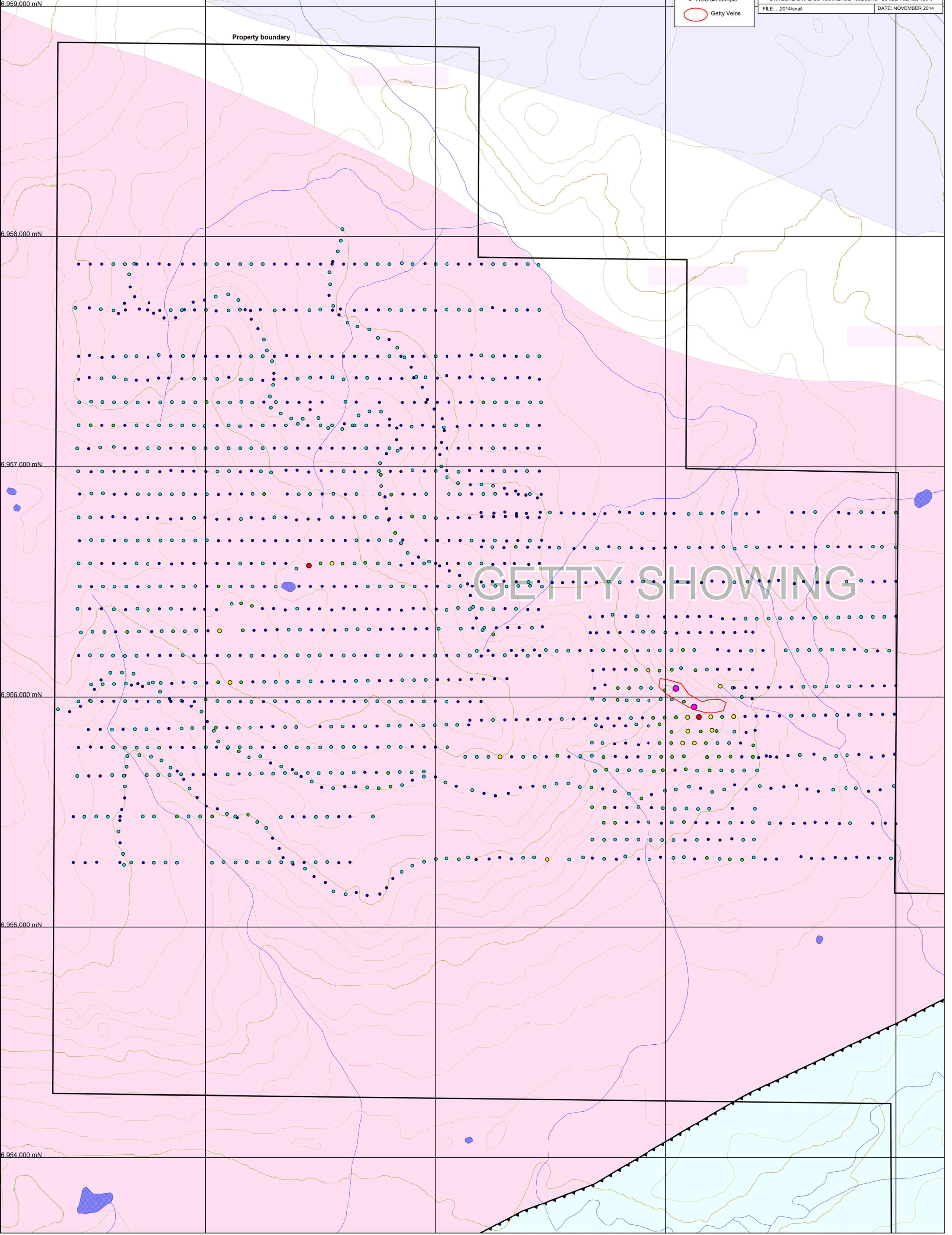
0 1 km  
UTM ZONE 8, NAD 83, 105K/12.13 & 105L/09.16. Contour intervals 100 ft.

FILE: ...2014\snail DATE: NOVEMBER 2014

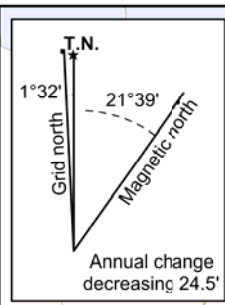
**Zinc (ppm)**

- ≥2,000
- ≥1,000 <2,000
- ≥500 <1,000
- ≥200 <500
- ≥100 <200
- ≥0 <100

● soil sample  
◆ RGS silt sample  
○ Getty Veins



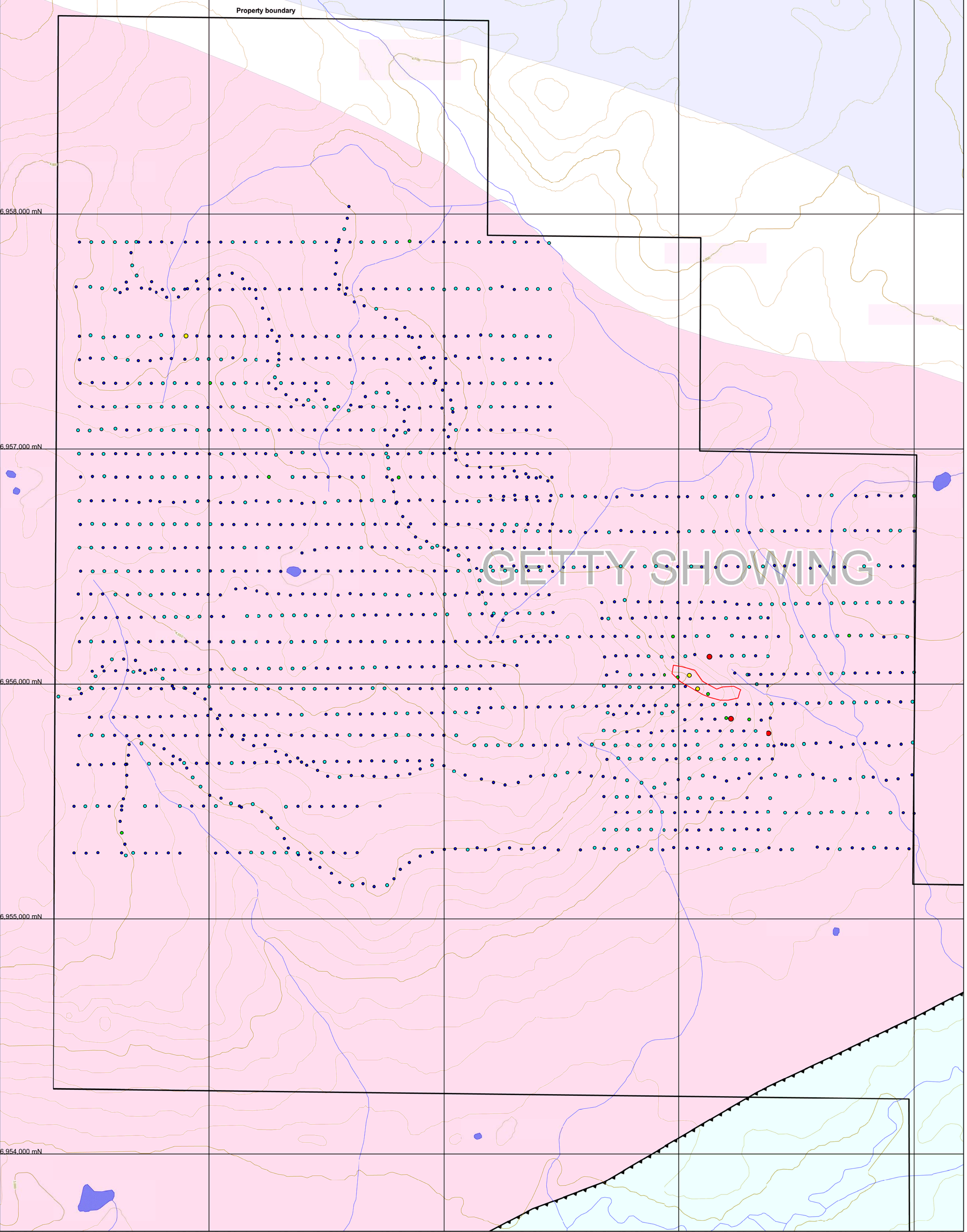




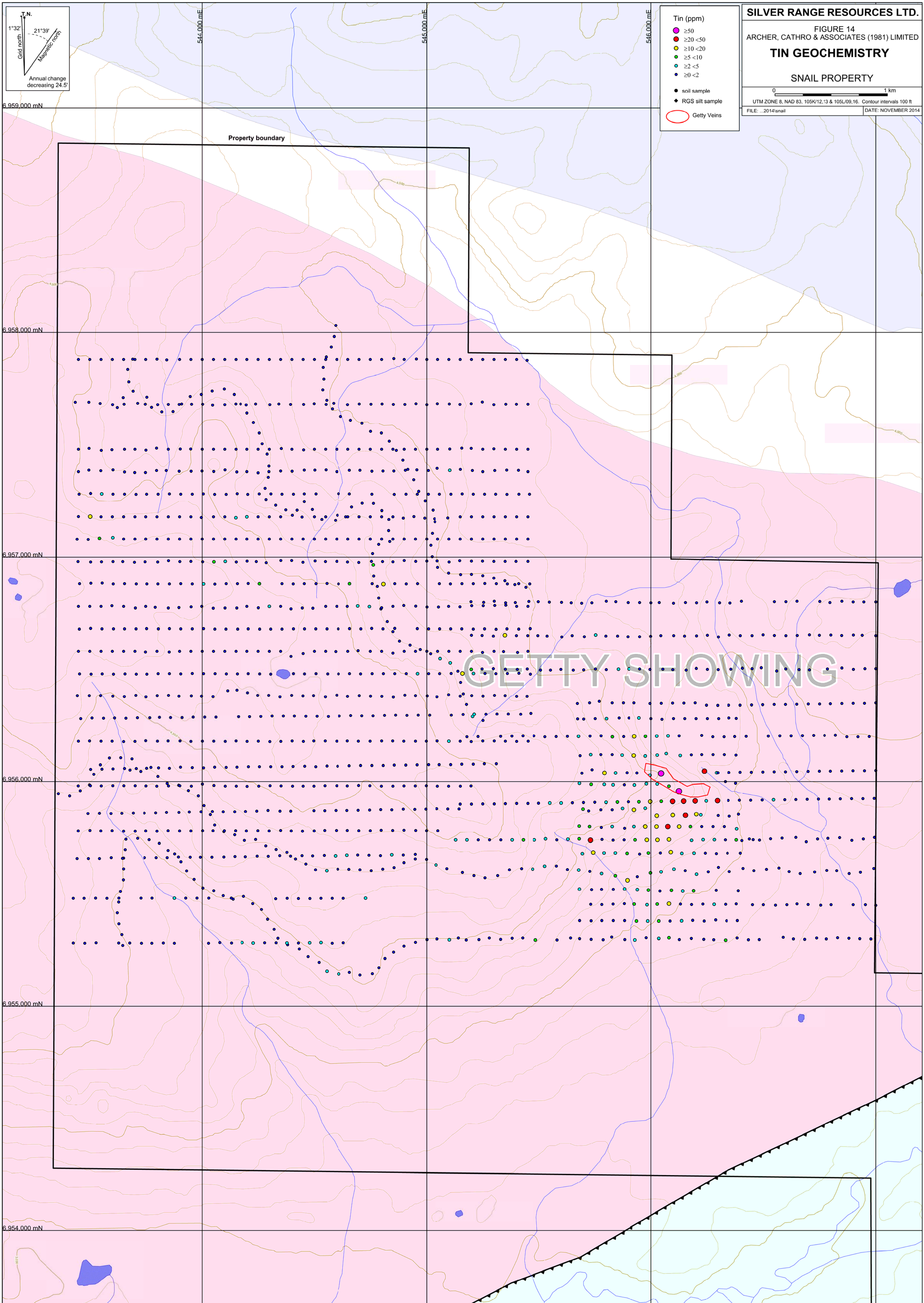
**SILVER RANGE RESOURCES LTD.**  
 FIGURE 13  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**MOLYBDENUM GEOCHEMISTRY**  
 SNAIL PROPERTY

0 1 km  
 UTM ZONE 8, NAD 83, 105K/12.13 & 105L/09.16. Contour intervals 100 ft  
 FILE: ...2014\snail DATE: NOVEMBER 2014

- Molybdenum (ppm)
- $\geq 50$
  - $\geq 20 < 50$
  - $\geq 10 < 20$
  - $\geq 5 < 10$
  - $\geq 2 < 5$
  - $\geq 0 < 2$
- soil sample  
 ◆ RGS silt sample  
 ○ Getty Veins







**SILVER RANGE RESOURCES LTD.**  
 FIGURE 14  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TIN GEOCHEMISTRY**  
 SNAIL PROPERTY

0 1 km  
 UTM ZONE 8, NAD 83, 105K/12, 13 & 105L/09, 16. Contour intervals 100 ft  
 FILE: ...2014tsnail DATE: NOVEMBER 2014

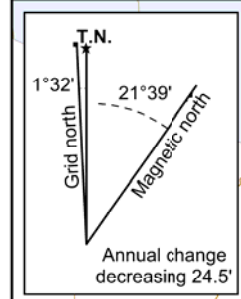
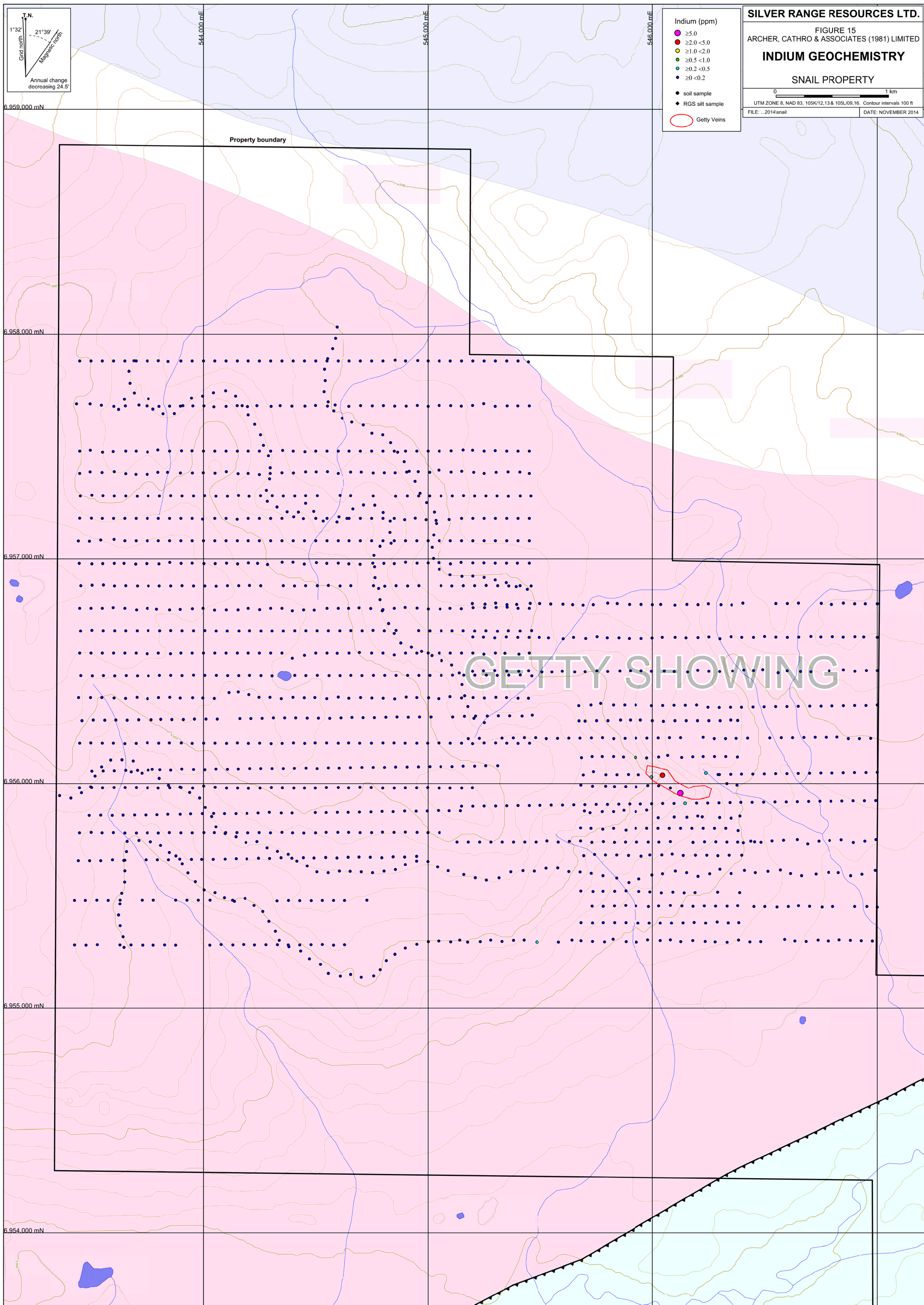
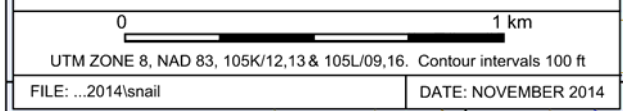
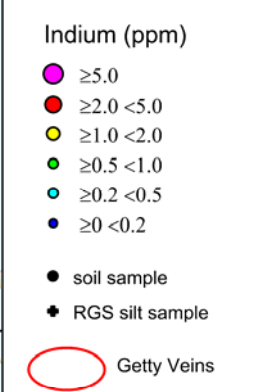
- Tin (ppm)
- $\geq 50$
  - $\geq 20 < 50$
  - $\geq 10 < 20$
  - $\geq 5 < 10$
  - $\geq 2 < 5$
- soil sample
  - ◆ RGS silt sample
  - Getty Veins

GETTY SHOWING

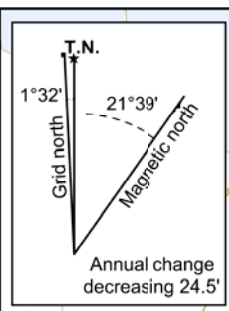


### INDIUM GEOCHEMISTRY

SNAIL PROPERTY





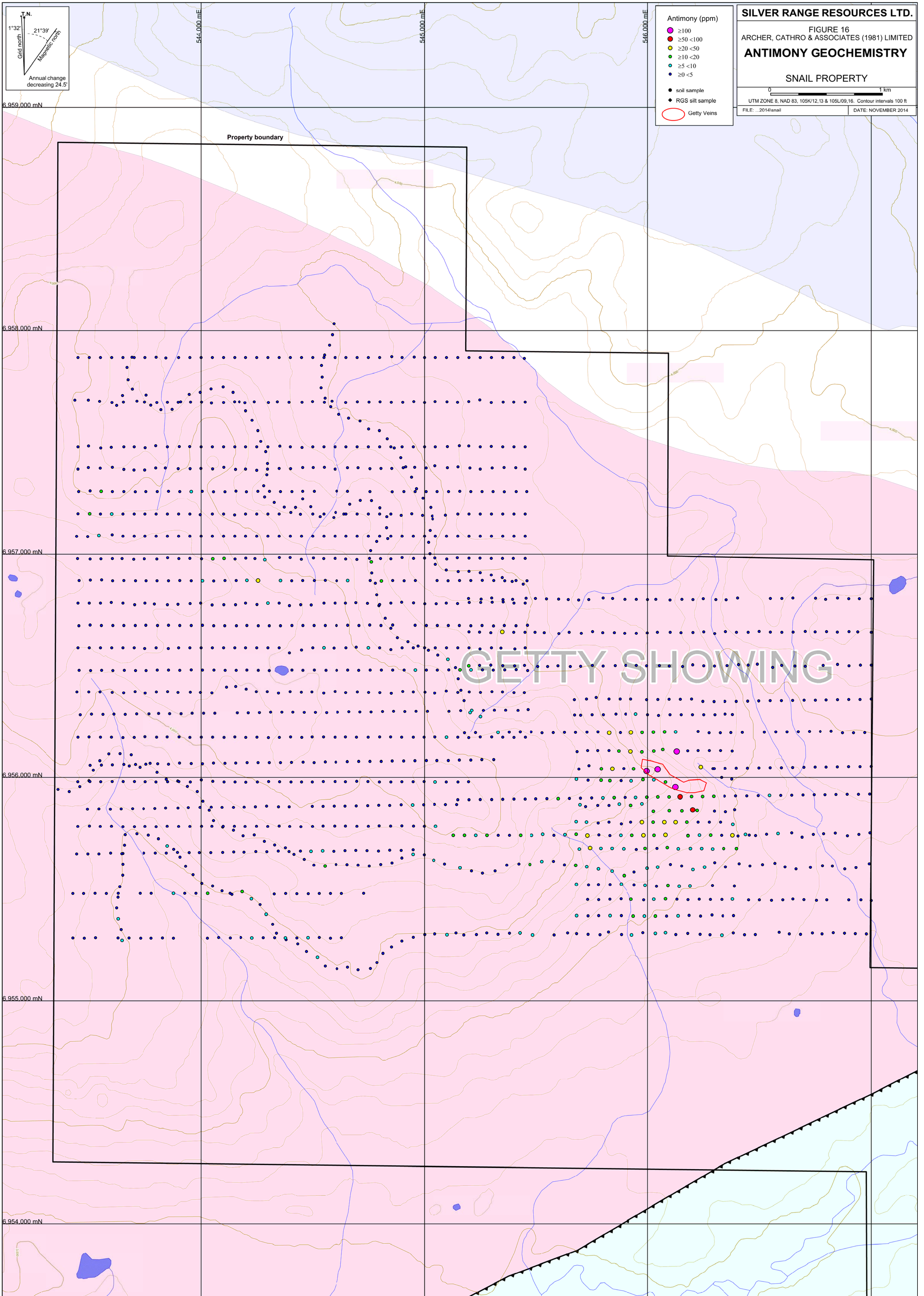


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FIGURE 16  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ANTIMONY GEOCHEMISTRY**  
SNAIL PROPERTY

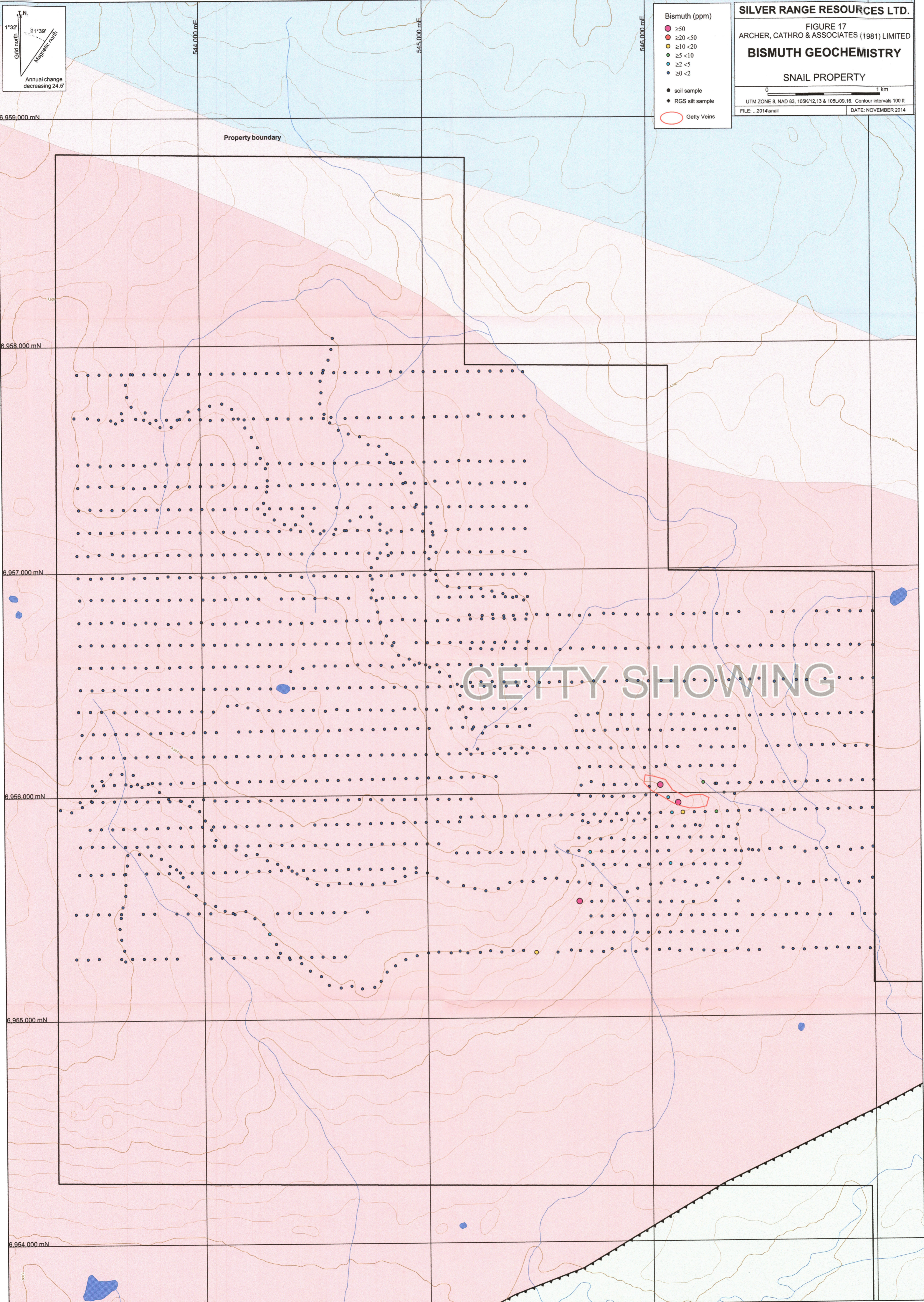
0 1 km  
UTM ZONE 8, NAD 83, 105K/12, 13 & 105L/09, 16. Contour intervals 100 ft  
FILE: .2014\snail DATE: NOVEMBER 2014

- Antimony (ppm)
- ≥100
  - ≥50 <100
  - ≥20 <50
  - ≥10 <20
  - ≥5 <10
  - ≥0 <5
- soil sample
  - ◆ RGS silt sample
  - Getty Veins





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FIGURE 17  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**BISMUTH GEOCHEMISTRY**

SNAIL PROPERTY

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

FILE: ...2014\snail DATE: NOVEMBER 2014

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