




## ASSESSMENT REPORT TITLE PAGE AND SUMMARY

**TITLE OF REPORT: Assessment Report on Silver Crown 6 Property**

**TOTAL COST: \$83,136.60**

AUTHOR(S): Ed Kruchkowski  
SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): ~~5670556~~  
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S): October 23 2017

YEAR OF WORK: 2017

PROPERTY NAME: Silver Crown 6

CLAIM NAME(S) (on which work was done): 508269

COMMODITIES SOUGHT: Au, Ag, Cu, Pb and Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104A 032

MINING DIVISION: Skeena

NTS / BCGS: 104A011

LATITUDE: 56 ° 08 ' \_\_\_\_\_ "

LONGITUDE: 129 ° 55 ' \_\_\_\_\_ " (at centre of work)

UTM Zone: 443687 EASTING: 6219260 NORTHING:

OWNER(S): Teuton Resource Corp.

MAILING ADDRESS: 2130 Crescent Road, Victoria BC, V8S 2H3

OPERATOR(S) [who paid for the work]: Decade Resources Ltd

MAILING ADDRESS: Box 211, Stewart BC, V0T 1W0

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**) Upper Middle Jurassic volcanoclastic rocks intruded by a later granodiorite stock that is subsequently faulted, altered and mineralized with pyrite veins.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

ARIS 29913

2017 Assessment Report on Silver Crown 6

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for ...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core 230.79m		508269	32,226.60
Non-core		508269	24,800.00
RELATED TECHNICAL			
Sampling / Assaying		508269	2,590.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail		508269	21,520.00
Trench (number/metres)			
Underground development (metres)			
Other			
		<b>TOTAL COST</b>	<b>\$83,136.60</b>

**Assessment Report On  
SILVER CROWN 6 PROPERTY**

**Mineral Claim # 508269  
Part of Red Cliff Property**

**Statement of exploration# 5670556**

**Located  
22 kilometres North of  
Stewart, British Columbia in the  
Skeena Mining Division**

**NTS 104A/4W  
LATITUDE 56 08' N  
LONGITUDE 129 55"W**

**On Behalf of  
Decade Resources Ltd  
Stewart, BC**

**by**

**Edward Kruckowski, B.Sc., P. Geo.**

**January 9 2018**

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## **SUMMARY**

The Silver Crown 6 property is located approximately 22 kilometers north of Stewart, British Columbia in the Skeena Mining Division. The property has been optioned by Decade Resources Ltd who can earn 100% interest in the property from Silver Grail Resources Ltd and Teuton Resources Corp. The property is comprised of one claim covering approximately 613 hectares. The claim extends two kilometres west from the confluence of American Creek with Bear River, encompassing part of Lydden Creek and overlying part of the Red Cliff property.

The claim lies within a belt of Jurassic volcanic rocks which extends from the Kitsault area (south of Stewart), north to the Stikine River area. The belt is a host to numerous precious and base metal deposits in a variety of geological settings including past producers Snip, Granduc and Premier-Big Missouri mines as well as the presently producing Eskay Creek deposit. In addition, ore reserves have been reported from a number of other properties including the Silver Coin, Red Mountain, Brucejack Lake – Suphurets area and Georgia River.

There are no known ore bodies on the property. To date, five types of mineralization have been located in the area of the property. The first type of mineralization consists of weakly sericitized andesitic rocks with minor fine grained pyrite on the west side of American Creek. This type of alteration-mineralization is similar to the area that hosts the gold bearing rocks on the Montrose zone within the Red Cliff property

The second type of mineralization consists of massive quartz, locally banded with black chlorite containing 10-25 % pyrite and local fine grained chalcopyrite. This type of mineralization appears in the footwall region of the Montrose zone and can be up to 30 m wide. It appears to occur along the west side of the claim in the Lydden Creek area.

The third type of mineralization consists of quartz-sulphide vein stockworks extending north from the Red Cliff property onto the northwest portion of the Silver Crown 6 claim. The vein stockworks are up to 20 meters wide and have been traced for over 100 meters of strike length on the Silver Crown claim. The extension on to the Silver Crown 6 claim is the north portion of a 2 km long shear zone that has been traced over 2 km on the adjoining Red Cliff Crown Granted claims. The Silver Crown 6 claim contains the extension of the Montrose zone defined on the adjoining Red Cliff property.

The fourth type of mineralization consists of massive red hematite veinlets containing coarse cube pyrite. This type of mineralization has only been seen in drill core and the south side of the Silver Crown 6 claim where it adjoins the Red Cliff property.

The fifth type of mineralization encountered on east edge of the property consists of northwest trending vuggy quartz-calcite veins and stockwork which form a mineralized zone at least 1.5 metres wide and at least 60 metres long. The zone contains galena, sphalerite, chalcopyrite and pyrite which form massive to semi-massive lenses, pods and stringers. Veins and stockwork

constitute 10 to 40 % of the mineralized zone and the sulphide content varies from 10 to 100% of the individual veins. In January to February 2008, a total of 1402.45 meters of diamond drilling was completed in 9 holes on the area of this mineralization. Drilling was conducted in an area where trenching in 2006 yielded an assay of 0.09 g/t Au, 167.3 g/t Ag, 1.72 % Cu, 22.7 % Pb and 8.44 % Zn over 1.5 meters of width within a massive sulphide lens. The best drill results were obtained from hole SCR-2008-2 which returned a 0.46 meter interval of 8.3 g/t Ag, 0.11 % Pb and 20.1 % Zn as well as hole SCR-2008-8 which returned 2.13 meters of 23.3 g/t Ag, 1.48 % Pb and 4.05 % Zn.

In the period July 20 to October 1, 2017, a total of 230.79 meters of diamond drilling was completed in 2 holes on the north central portion of the Silver Crown 6 property. Drilling was conducted in order to test a pyritic, altered intrusive as well as outline any occurrence of the Montrose zone trending north from the Red Cliff property. Drilling intersected highly pyritic intrusive, possibly granodiorite intruded into red volcanoclastic rocks. Drilling intersected gold values ranging from <0.005 to 0.057 g/t, silver values ranging from 0.2 to 23.7 g/t, copper values from <1 ppm to 0.062 %, lead values from 0.001 to 0.059 % and zinc values from 0.01 to 0.324 %.

A further exploration program including soil sampling, mapping and diamond drilling is recommended for the Silver Crown 6 property.

The total cost of the program is estimated to be \$400,000.00.

## **INTRODUCTION**

Decade Resources Ltd is earning a 100% interest in the Silver Crown 6 claim which is part of the Red Cliff property. This report is being prepared in order to summarize the 2017 drill results on the Silver Crown 6 claim.

### **Location and Access**

The Silver Crown 6 and Red Cliff claims are contiguous and are located about 22 kilometers north of Stewart, British Columbia near the confluence of the Bear River and American Creek. The Silver Crown 6 claim encompasses part of Lydden Creek. The claim area is approximately 56 degrees 08 minutes latitude and 129 degrees 55 minutes longitude on NTS sheet 104A/4W. Figure 1 shows the location of the Silver Crown 6 claim area.

Access to the property is via paved Highway 37A to the American Creek access road and then a trail extending along American Creek approximately 2.5 kilometers from the highway. A bridge across American Creek provides access to the drill road along the lower elevation portions of the Red Cliff Crown Granted claims. The trail extends north along Lydden Creek across the Crown Granted claims and on to the west portion of the Silver Crown 6 claim. Helicopters must be utilized for the higher areas of the claim.

## Physiography and Topography

In general the property is typified by the precipitous slopes of the Coast Mountains. Relief ranges from 150 m in the American Creek Valley to over 1 000 m near the western edge of the claim with a good portion of the property impassable on foot. The property is situated roughly in the centre of the American Creek Valley at its confluence with Bear River. The main topographic features of the property are American and Lydden Creeks. These fast flowing creek cascades through the central portion of the property, occupying steep-walled canyons. Between American Creek and Lydden Creek is a small knoll where the relief is not as extreme as elsewhere on the property.

Avalanches are a constant hazard on any of the steeper slopes throughout the year especially in the area of the Red Cliff Crown Granted claims. This is evidenced by large areas of slide alder and uprooted trees located in the area where Lydden Creek turns from east flowing to the south.

Vegetation varies from mature stands of western hemlock, blue spruce and Douglas fir at the lower elevations to barren rock and ice higher up. Tree line ranges from 1050 m to 1300 m with subalpine spruce thickets heather and alpine meadows occurring between 800 m and 1300 m. On the steeper slopes where avalanches are a frequent occurrence only a combination of slide alder, mountain ash, huckleberry, stinging nettle and devil's club can exist.

Water supply is plentiful as many glacial run-off streams drain into Lydden Creek and Bear River.

## Property Ownership

The property consists of approximately 613 hectares in one claim. Relevant claim information is presented below:

### List of Property Claims

<u>Name</u>	<u>Tenure</u>	<u>NTS Map Area</u>	<u>Area in ha</u>	<u>Expiry</u>
Silver Crown 6	508269	NTS 104 A/4	613.42	Nov. 30, 2019

Claim location is shown in Figure 2 copied from MINFILE database. The claim is situated in the Skeena Mining Division in the Province of British Columbia.

The property is owned jointly (50/50) by Vancouver based companies Silver Grail Resources Ltd. and Teuton Resources Corp.

Decade Resources Ltd. can earn an undivided 100% in the property, subject to a 2% Net Smelter Returns Royalty by agreeing to pay a total of \$100,000 cash, issuing a total of 300,000 shares of



Decade Resources to Silver Grail and Teuton; and incurring \$1,500,000 in exploration expenditures on the property. All cash and share payments are to be split equally between Silver Grail and Teuton. To date all cash payments have been made and the Company has an extension to complete the remaining work commitment of \$200,000.00.

### **Previous Work**

The Silver Crown 6 claim lies within a historically active mining and exploration area that extends from Stewart and Kitsault in the south to near Telegraph Creek in the north. Within this area, which has been referred to as the Stikine Arch, mining activity goes back to the turn of the century. Due to the large size of this area, it has been subdivided into Stewart, Sulphurets, Iskut River and Galore Creek camps. However, all of these individual areas are related to the Stikine Arch as a whole and are located in the area now referred to as the "Golden Triangle". Exploration for metals began in the Stewart region around 1898 after the discovery of mineralized float by a party of placer miners in the Bitter Creek area. Most of the exploration in the Stewart area has occurred in a few periods, namely at the beginning of the 20-th century, in the mid 1930's when many Crown Granted claims were located and in the period from 1970 till present.

Very little recorded exploration work has been conducted on the area of the Silver Crown 6 property although the area has been staked numerous times in past staking "rushes". The property is adjacent to the Terminus, Ruby Silver, Argenta and Red Cliff properties that have had limited production in the past and/or underground workings completed. Parts of the above properties have likely been included in the Silver Coin 6 property.

Reportedly in the 1930's, a prospector named Sam Deshaune sank a short shaft approximately 2.8 to 3 meters deep, about 30 meters to the north from the area of the 2006-2008 Silver Crown exploration by Decade on the east side of American Creek. It appears that the shaft was sunk in order to locate the source of mineralization found in overburden. Mineralized dump material was located in 2006 beside a collapsed shaft but the depth and size of the excavation could not be determined.

In the early 1970's, logging activities probably exposed the area of mineralization on then the Silver Crown 6 claim. In the period 1972-1973, John Lehto, a local Stewart prospector mined approximately 10 tonnes of ore of unknown grade from the area of the above shaft. Lehto probably intended to ship this ore directly to a smelter. This ore was mined from the area of trenches #1 and 2 excavated by Decade Resources in 2006 and 2007. In the 1980's, the area of the Silver Crown 6 claim was a part of the Tel modified grid claim owned by Joutel Resources Ltd.

The area of the Montrose extension on the Silver Crown 6 claim was sampled in 1988 by Joutel with one sample containing 0.20 oz ton Au in outcrop. Elements found to be anomalous in soils within this area included Au - 530 ppb, Ag - 4.6 ppm, Cu - 20 ppm and Pb - 770 ppm

During the geochemical program conducted by Decade from November 2006 to March 2007, a total of 75 float and 2 outcrop chip samples were collected. Float samples assayed from 0.01 to 0.15 g/t Au, <0.1 to 501.4 g/t Ag, 0.001 to 6.68 % Cu, <0.01 to 33.1 % Pb and 0.01 to 20.958 % Zn. The best chip line taken across a lens of massive sulphides assayed 0.09 g/t Au, 167.3 g/t Ag, 1.72 % Cu, 22.7 % Pb and 8.44 % Zn over 1.5 meters. A total of 29 soil samples were collected along access roads in the area. Anomalous silver, copper, lead and zinc values were indicated in the area of the quartz-sulphide mineralization with values up to 9.8 g/t Ag, 544 ppm Cu, 7367 ppm Pb and 3286 ppm Zn. A total of 15 samples were collected from pyritic rocks exposed in three trenches along the west side of American Creek. Assay results obtained from these samples were low.

In January to February 2008, a total of 1402.45 meters of diamond drilling was completed in 9 holes on the Silver Crown 6 property. Drilling was conducted in an area where trenching in 2006 yielded an assay of 0.09 g/t Au, 167.3 g/t Ag, 1.72 % Cu, 22.7 % Pb and 8.44 % Zn over 1.5 meters of width within a massive sulphide lens. The best drill results were obtained from hole SCR-2008-2 which returned a 0.46 meter interval of 8.3 g/t Ag, 0.11 % Pb and 20.1 % Zn as well as hole SCR-2008-8 which returned 2.13 meters of 23.3 g/t Ag, 1.48 % Pb and 4.05 % Zn.

In the period May 2012 to the end of October 2012, a program of drill trail construction was undertaken from the Red Cliff Crown Granted claims on to the Silver Crown 6 claim. The north extension of the Montrose mineral zone was exposed and 3 drill holes completed from a single drill pad. A total of 403.66 meters of diamond drilling was completed in 3 holes on the Silver Crown 6 property. Drilling intersected highly chloritic andesites that were weakly silicified and brecciated with a strong quartz-pyrite stockwork that formed 10 % of the core. Massive red hematite veins with pyrite are also present. Fine cube pyrite is throughout the core forming 5 % of the rock overall. Minor, local chalcopyrite was also noted within some of the quartz-pyrite stockwork. The best drill results were obtained from DDH-2012-Mon-72 which returned several intervals including 3.05 m of 15.61 g/t gold and 3.05 m of 2.63 g/t gold.

In April to November 2016, a total of 599.61 meters of diamond drilling was completed in 2 holes on the southwest edge of the Silver Crown 6 property. Drilling was conducted in an attempt to outline any occurrence of the Montrose zone trending south from the Red Cliff property. Drilling intersected red to maroon volcanoclastic rocks with numerous granodiorite dykes. No significant mineralization was intersected.

### **Personnel and Operations**

During the drill program, all personnel were accommodated in Stewart, BC. Supplies and personnel were transported from Stewart in pick-up trucks to the drill area staging via Highway 37A and the Red Cliff drill access road. A B-15 drill owned by Sunbeam Drilling of Stewart capable of drilling BTW sized core was used to complete the drilling. A 325 Caterpillar excavator and D-6 Caterpillar bulldozer provided by Kasum tractor of Stewart moved the drills and created the drill roads.

E. Kruchkowski, geologist located the drill holes and logged the core.

The drill and equipment for the overall Red Cliff and Silver Crown 6 property was mobilized to the drill area in May, 2017 and demobilized in early November 2017. Drilling on the Silver Crown 6 occurred in the period August 5 to August 11, 2017. A total of 1 day of mobilization and 1 day of demobilization from the Red Cliff portion of the property was required. In addition 1 day of excavator work was required to fix rock slides that had occurred due to avalanches.

Core was brought to Stewart on a daily basis where it was logged, cut and stored. Core is presently stored at the Decade shop at 426 King Street in Stewart BC.

Core was sawn in half using a diamond saw. Samples were delivered by Decade employees to Actlabs Ltd in Kamloops BC.

## **GEOLOGICAL SETTING**

### **Regional Geology**

The Silver Crown 6 claim, part of the Red Cliff property lies along the eastern edge of the Coast Crystalline Complex within the western boundary of the Bowser Basin. Rocks in the area belong to the Mesozoic Stuhini Group, Hazelton Group and Bowser Lake Group that have been intruded by plugs of both Cenozoic and Mesozoic age. Portions of the Stewart area are underlain by Triassic age Stuhini Group (Greig, C.F, 1994). The Stuhini Group rocks are either underlying or in fault contact with the Hazelton Group. These Triassic age rocks consist of dark gray, laminated to thickly bedded silty mudstone, and fine to medium grained and locally coarse-grained sandstone. Local heterolithic pebble to cobble conglomerate, massive tuffaceous mudstone and thick-bedded sedimentary breccia and conglomerate also form part of the Stuhini Group.

At the base of the Hazelton Group is the lower Lower Jurassic Marine (submergent) and non-marine (emergent) volcanoclastic Unuk River Formation. This is overlain at steep discordant angles by a second, lithologically similar, middle Lower Jurassic volcanic cycle (Betty Creek Formation), in turn overlain by an upper Lower Jurassic tuff horizon (Mt. Dilworth Formation). Middle Jurassic non-marine sediments with minor volcanics of the Salmon River Formation unconformably overlie the above sequence.

The lower Lower Jurassic Unuk River Formation forms a north-northwesterly trending belt extending from Alice Arm to the Iskut River, BC. Grove describes this formation as being green, red and purple volcanic breccia, volcanic conglomerate, sandstone and siltstone with minor crystal and lithic tuff, limestone, chert and minor coal. Also included in the sequence are pillow lavas and volcanic flows.

Alldrick has divided the Unuk River Formation into six members as follows:

1. Lower Andesite Member: >500 metres of massive to well-bedded ash tuff.
2. Lower Siltstone Member: 50 to >200 metres of thin-bedded dark grey to black argillite and siltstone.
3. Middle Andesite Member: >1500 metres of dust tuff, ash tuff, lapilli tuff and minor tuff breccia with interbedded graded sandstone and siltstone; massive pyroxene-phyric flows near the top of the member.
4. Upper Siltstone Member: 50 to >1000 metres of carbonaceous thin-bedded argillite, siltstone, sandstone; local basal conglomerate and coralline limestone.
5. Upper Andesite Member: 2000 metres of massive tuff with minor flows and local lenses of sediments.
6. Premier Porphyry Member: Orthoclase-megacrystic, plagioclase-hornblende-phyric andesite flows and tuff-breccia.

In the property area, the Unuk River Formation is unconformably overlain by middle Lower Jurassic rocks from the Betty Creek Formation. The Betty Creek Formation is another cycle of trough filling sub-marine pillow lavas, broken pillow breccias, andesitic and basaltic flows, green, red, purple and black volcanic breccia, with self erosional conglomerate, sandstone and siltstone and minor crystal and lithic tuffs, chert, limestone and lava.

The upper Lower Jurassic Mt. Dilworth Formation consists of a thin sequence varying from black carbonaceous tuffs to siliceous massive tuffs and felsic ash flows. Minor sediments and limestone are present in the sequence. Locally pyritic varieties form strong gossans.

The Middle Jurassic Salmon River Formation is a late to post volcanic episode of banded, predominantly dark colored siltstone, greywacke, sandstone, intercalated calcarenite rocks, minor limestone, argillite, conglomerate, littoral deposits, volcanic sediments and minor flows. Overlying the above sequences are the Upper Jurassic Bowser Lake Group rocks. These rocks mark the western edge of the Bowser Basin and are also located as remnants on mountaintops in the Stewart area. These rocks consist of dark gray to black clastic rocks including silty mudstone and thick beds of massive, dark green to dark gray, fine to medium grained arkosic litharenite.

According to E.W. Grove, the majority of the rocks from the Hazelton Group were derived from the erosion of andesitic volcanoes subsequently deposited as overlapping lenticular beds varying laterally in grain size from breccia to siltstone. Alldrick's work to the north of Stewart has shown several volcanic centers in the surveyed area. Lower Jurassic volcanic centers in the Unuk River Formation are located in the Big Missouri Premier area and in the Brucejack Lake area. Volcanic centers within the Lower Jurassic Betty Creek Formation are located in the Mitchell Glacier and Knipple Glacier areas. A portion of Alldrick's mapping for the BC Geological Survey which covers the property and adjacent areas is presented in Figure 3.

The Texas Creek Plutonic Suite in the Stewart-Unuk-Iskut area is comprised of a group of Early Jurassic granodioritic stocks, dykes, sills and a batholith. Alldrick (1993) believed the suite to be emplaced in a shallow volcanic setting below and within coeval andesitic stratovolcanos. The Premier Porphyry Dykes, dated at  $194.8 \pm 2$  Ma, are characterized by

potassium feldspar megacrysts and plagioclase and hornblende phenocrysts in a fine-grained to aphanitic groundmass (Alldrick, 1993). Only the lower members of the Unuk River Formation are cut by the dykes, which are thought to be subvolcanic feeders to the extrusive Premier Porphyry Member. The dykes are generally altered to a sericite-carbonate±chlorite±pyrite assemblage and are spatially associated with district mineralization.

In the Stewart area, the Early to Middle Eocene Hyder Plutonic Suite consists of a batholith and satellite stocks and dykes lying east of the main Coast Plutonic Complex. The Hyder plutonic rocks are genetically related to the Coast Plutonic intrusives having similar mineralogy and textures. The Hyder Dykes form prominent swarms of regional extent and randomly distributed, isolated dykes, particularly along the Portland Canal dyke swarm. Four dyke phases were recognized by Alldrick (1993): granodiorite porphyry, aplite, microdiorite, and lamprophyre dykes.

The Hazelton Group has been folded into north-northwest trending, doubly plunging syncline/anticline pairs with subvertical axial planes. Clastics of the Salmon River Formation occupy the cores of the synclines and display disharmonic tight to isoclinal folds at many scales (Alldrick, 1993).

Faults are abundant at both local and regional scales in the Stewart area. Alldrick (1993) described five groups of major faults:

- regional-scale north-striking, subvertical, ductile to brittle faults.
- northerly-striking moderately west-dipping normal and reverse faults.
- southeast to northeast striking brittle, subvertical "cross" faults with strong but narrow foliation envelopes and up to a kilometre of lateral offset.
- decollement surfaces or bedding plane slips near the base of the Salmon River Formation, due to ductility contrast with underlying dacitic volcanics during folding.
- mylonite bands at various orientations, a few metres wide at most.

This belt of Hazelton Group rocks is a host to numerous precious and base metal deposits in a variety of geological settings including past producers Anyox, Snip, Scotty Gold, Granduc and Premier-Big Missouri mines as well as the recently closed Eskay Creek mine. In addition, ore reserves have been reported from a number of other properties including Silver Coin, Big Missouri-Martha Ellen, Red Mountain, and Brucejack Lake – Suphurets Creek-Mitchell Creek, Homestake Ridge area and Georgia River. Deposits within the belt have been divided into two main distinct groups on the basis of metal suites and age. The first group includes the numerous Au-Ag±Cu vein and porphyry deposits that are associated with 193-198 Ma porphyritic intrusives of the Texas Plutonic Suite. The second includes Ag-rich galena-sphalerite vein systems related to biotite granodiorite intrusions of Middle Eocene age. Massive sulphide deposits are also present in different ages of the Jurassic volcanic rocks including Anyox and Granduc which are Besshi type VMS deposits in the Unuk River Formation. The Eskay Creek mine was a VMS deposit with epithermal gold-silver overprinting in Salmon River Formation

just at the contact with the Mount Dilworth Formation. The BA project is a Kuroko type VMS deposit that has been explored in the Salmon River Formation just above felsic rocks analogous with the Mount Dilworth Formation.

## **Local Geology**

Based upon the regional mapping of the British Columbia Department of Mines (Grove, E.W., 1982) most of the property appears to be underlain by lower Jurassic Unuk River Formation. Mapping in 1987 by Joutel Resources concurs in general with the regional mapping of Grove (1982). Red, maroon and green volcanic agglomerates, tuffs and breccias intruded by dykes of the Portland dyke swarm dominate the geology of the property.

Based on outcrops of mapped Triassic rocks to the east of the mapped area, it appears that the north trending sequence of volcanic rocks dips to the west in the property area. Consequently the oldest rocks in the property area occur in the vicinity of American Creek.

The most abundant rock type on the property area is a series of dark green to gray-green mafic volcanic tuffs. Clasts are sub-rounded to angular ranging in size from dust to lapilli. Most of the clasts are composed of green andesitic volcanic material similar to the matrix. In some places the clasts consist of hematitic or maroon-colored mafic volcanic material, and in other places crystals of hornblende and/or feldspar are present.

The hematitic mafic volcanic tuffs appear to be the second most abundant rock type. These vary in color from brick red to maroon generally forming distinct stratigraphic beds. However, in places the contact relations are gradational with hematitic clasts being present in a matrix consisting of green mafic volcanic tuff. In some areas irregular patches of hematitic material are present giving the rock a mottled appearance. The presence of this hematitic material may represent an alteration of the original rock type. Like the green mafic volcanic tuffs clast size varies from dust to lapilli, consisting of red and green lithic fragments, plus crystals fragments of feldspar and hornblende.

Of the coarser-grained volcanic rocks most appear to be represented by agglomerates in that the clasts are rounded to sub-rounded and matrix supported. Agglomerates which are predominately hematitic are for the most part more abundant than ones which are dominantly green.

The volcanic flows are massive, dark green, magnetic and only faintly foliated at the margins. The augite bearing flows contain 5-10% fine phenocrysts of augite which have been partially altered to chlorite. Amygdules are another distinctive feature of the volcanic flows. These are up to 2 cm long and commonly infilled by a mixture of calcite and quartz.

Intruding the volcanics are at least three phases of plutonic rocks. Although a sequence of crosscutting relationships have not been established the oldest appears to be a dyke-like body of feldspar porphyry. Later dykes include some quartz monzonites, diorites and a hornblende porphyry, most which are thought to belong to the Tertiary Portland Canal Dyke swarm. The

1987 report describes these as: “These are most prevalent in the upper portions of Lydden Creek near the Montrose Zone and in the vicinity of the Redcliff Workings. Although the dip of these dykes is roughly vertical, the strike is somewhat difficult to determine due to the steep topographic conditions where these dykes outcrop. However it is thought to be northwesterly, which is roughly the same direction as the Portland Canal Dyke Swarm. In outcrop these dykes are massive, fine-medium grained, contain biotite and hornblende and vary from quartz monzonites to granodiorites. Chilled margins approximately 50 cm wide are also a characteristic feature of some of the wider of these dykes”.

## **Deposit Types**

The project area is considered prospective for a number of deposit styles. The possible deposit types for the Red Cliff property are as follows:

### **1. Intrusion Related Thermal Aureole Gold-Copper Veins and Stockworks**

These intrusion related deposits are characterized by shear hosted quartz-pyrite veins and stockworks within and marginal to Texas Creek intrusions. Also includes pyritic breccias along intrusive contacts. Mineralization is syn-intrusive and forms along the thermal brittle-ductile transition envelope surrounding subvolcanic intrusions. Late magma movement generates local shearing and fracturing. Convecting hydrothermal fluids then precipitate gold-rich iron sulphides and gangue as en echelon vein sets and stockworks. Metal and alteration patterns are consistent with the distal portions of porphyry Cu-Au system. Alteration consists of an inner potassic zone of sericite-pyrite-quartz and an outer potassic zone where pyrite is replaced by pyrrhotite. Anomalous (>0.3 g/t Au) gold-silver mineralization develops at the transition from the pyrite to the pyrrhotite-dominant alteration zones. Examples of this type include the Snip Gold Mine (960,000 t @ 28.5g/t Au) and Johnny Mountain (207, 000 t @ 14.1g/t Au).

### **2. Low Sulphidation Epithermal Gold-Silver Veins and Breccia Veins**

Epithermal gold-silver base metal veins and breccia veins closely linked to structures and intrusions of the Early Jurassic Texas Creek plutonic suite. These deposits are formed from many pulses of mineralizing fluids localized above a local dome in the underlying Texas Creek batholith. Mixing of cool, meteoric groundwater with hot sulphur, chlorine and metal-bearing magmatic fluids is the most likely mechanism for base metal and gold-silver deposition. The deposits form shear hosted, en echelon sets of quartz-carbonate-chlorite-K-Feldspar+/-sulphide veins developed at the faulted margin of intrusions, as vein stockwork peripheral to breccia zones and as complex quartz-carbonate+/-sulphide-cemented breccia veins. Alteration is characterized by an inner siliceous zone, followed by an outer potassic (sericite) zone and more distal carbonate and chlorite zones. Examples of this deposit style include Silbak Premier (5.88 Mt @ 10.6lt Au and 227glt Ag) and Big Missouri 768,943t @ 2.37glt Au and 2.13glt Ag). In the Stewart area, the newly defined Silver Coin deposit is another example of a deposit hosted in low sulphidation epithermal gold-silver veins and breccia veins. It has a measured and indicated 24.1 MT at a grade of 1.08 g/t Au and 5.74 g/t Ag and an inferred 32.4 MT grading 0.78 g/t gold and 6.41 g/t Ag. The Brucejack Lake deposits also are examples of this type of

mineralization. These host a measured and indicate 107mt @2.86 g/t Au and 25.8 g/t Ag and an inferred 600mt @1.09 g/t Au and 10.2 g/t Ag.

### 3. Polymetallic silver-base metal epithermal veins plus or minus gold.

Sulphide rich veins containing sphalerite, galena silver and sulphosult minerals occur in carbonate and quartz gangue. These veins can be subdivided into those hosted by metasediments and another group hosted by volcanic or intrusive rocks. Veins are emplaced along faults and fractures in sedimentary basins dominated by clastic rocks that have been deformed, metamorphosed and intruded by igneous rocks. Galena, sphalerite, tetrahedrite-tennantite and other sulphosults, native silver, chalcopyrite, pyrite, arsenopyrite, stibnite are typical minerals within the veins. Some veins contain more chalcopyrite and gold at depth and Au grades are normally low for the amount of sulphides. Principal gangue minerals include quartz, calcite, ankerite, chlorite, and subordinate sericite, rhodochrosite, barite and fluorite. The Porter-Idaho property in the Stewart area is an example of this type of mineralization. In 1989, non compliant 43-101 reserves were 826,400 tonnes grading 668.5 grams per tonne silver, 5 per cent lead and 5 per cent zinc. Between 1922 and 1950, 27,268 tonnes of ore were periodically mined from the underground workings of the Prosperity and Porter Idaho mines. The production came from the D, Prosperity and Blind veins, and averaged 0.986 grams per tonne gold, 2692.1 grams per tonne silver, 5.08 per cent lead, 3,853 per cent zinc and 0.101 per cent copper.

### 4. Intrusion Related Gold-Silver-Copper Skarns

Skarn and vein-style mineralization occur along faults within brittle, calcareous rocks adjacent to Eocene biotite granodiorite to biotite-quartz monzonite. High gold/silver ratios and pyrrhotite dominated sulphide assemblages are characteristic of early Jurassic intrusive-related Au-pyrrhotite deposits. The Snippaker Creek skarns are examples of this deposit style.”

## **Mineralization**

To date, mineralization identified by exploration work are quartz-sulphide and sulphide stockworks hosted in a wide shear zone, various zones of sericite alteration and quartz-calcite-sulphide veins. The shear trends north-south along the length of the Crown Granted mineral claims and extends on to the Silver Crown 6 at the north end. Within this 2 kilometre length of shearing, various mineralized zones are present. From the south end of the shear, going towards the north, these include the Red Cliff, Chimney, Road, Waterpump, Lower Montrose and Montrose zones. Figure 6 shows the location of the mineral zones on the property relative to the Crown Granted claims.

There are six different mineralization types identified in the exploration activities. Mineralization noted is as follows:

1. Extremely fine grained pyrite in host rocks that have been pervasively altered to a mixture of sericite and quartz. Generally low gold values are associated with this mineralization.



2. Intensely silicified rocks, possibly intrusive with strong epidote and chlorite associated with quartz veins up to 5 metres wide, containing up to 25 % coarse pyrite and local minor chalcopyrite. This mineralization is located along the west side of the Montrose and Road zones. This mineralization has been called the Waterloo zone located on surface west of the above zones particularly the Montrose.
3. A stockwork of quartz veinlets carrying coarse-grained pyrite and chalcopyrite plus or minus visible gold. The Montrose, Lower Montrose and Waterpump zone contain this type of mineralization. The Red Cliff zone contains a minor amount of this type of mineralization.
4. Massive hematite veinlets with coarse cube pyrite along wide stockwork zones. The Montrose and Lower Montrose contain this type of mineralization.
5. Mineralization encountered on the property consists of northwest trending vuggy quartz-calcite-sulphide veins and stockwork which form a mineralized zone at least 1.5 metres wide and at least 60 metres long. The zone contains galena, sphalerite, chalcopyrite and pyrite which form massive to semi-massive lenses, pods and stringers. Quartz-calcite veins with sulphides are 1-2 cm wide. They constitute from 10 to 40 % of the mineralized zone. Sulphide content within individual veins varies from 10 to 100 %.

In appearance, the fine grained mineralization (Type 1) consists of 1 – 5 % fine grained disseminated and veined pyrite hosted by a sericite altered mafic volcanic. The sericite alteration of these rocks has been so pervasive that the color of the rock is now pale tan to light grey. Silicification has accompanied the sericitization resulting in stockworks of crosscutting quartz veins. Also associated with the quartz veins is a minor amount of carbonate plus veinlets of pyrite. Within the centre of each of these mineralized zones the quartz- pyrite content is highest as is the degree of sericite alteration. Outward from the centre of these mineralized zones the pyrite quartz content diminishes significantly then the sericite content gradually fades into unaltered rock. This mineralization is present along the east side of Lydden Creek.

Veins carrying sulphides are found in the Red Cliff, Chimney, Road, Waterpump, Lower Montrose and Montrose zones. Sulphide mineralization appears to be mainly pyrite containing minor gold, chalcopyrite, some bornite, pyrrhotite and occasionally sphalerite and galena. Where the sulphides occur in fractures, silicification has also occurred making the rock hard and brittle. Quartz stringers appear to be banded with the sulphides and sheared volcanic rock in the fractures.

In the Red Cliff zone, the mineralization (Type 2 and 3) consists of irregular veins and pods of massive pyrite, chalcopyrite, minor sphalerite and bornite which are hosted by a matrix of quartz. Surrounding the mineralization is a poorly developed zone of sericite alteration. The mineralization appears to be within a zone that is at least 20 metres wide. Based on assay data there appears to be several episodes of copper-gold mineralization. It appears that an early stage

of mineralization is a copper rich – low gold value stage followed by copper-rich-high gold value stage

The Montrose zone at depth and along the exposed north end of mineralization on the Silver Crown 6 claim contains coarse cube pyrite hosted in a matrix of red, massive hematite veinlets (Type 4). Veins are 1-2 cm wide forming up to 10 % of the rock.

The quartz-calcite-sulphide mineralization (Type 5) is located on the east side of the claim. It has been traced for 25 meters to the west from a surface exposure into silicified wall rock. Drilling this mineralization has intersected several of these quartz-calcite-sulphide veins that have elevated silver values.

## **DRILLING**

During the period of July 20 to October 1, 2017, Decade Resources completed a total of 230.79 meters of BTW size diamond drilling in 2 holes. Figure 4 shows location of drilling on the Silver Coin 6 claim. A summary of hole azimuths, dips and total depths are shown in the table below:

**Table 1 Drill Hole Summary**

<b>DRILL HOLE No.</b>	<b>AZIMUTH Degrees</b>	<b>DIP Degrees</b>	<b>TOTAL DEPTH Meters</b>
2017-MON-10	350	-60	98.17
2017-MON-11	350	-70	132.62

The predominant rock type intersected consisted of a highly sericite altered light grey intrusive, possibly granodiorite that has disseminated pyrite mineralization as well as veins and stringers of pyrite. Overall pyrite content can vary from 2 to 5 %. It intrudes into a red, highly calcareous red to marron volcanoclastic that is part of the Betty Creek formation. Calcite in the form of veining that is parallel to strong foliation forms up to 20-25 % of the volcanoclastic rock unit. It is highly chloritic with minor local rhodochrosite and narrow hematite veinlets. Minor narrow dykes of a black, fine grained diabase were also intersected within the granodiorite.

Drilling intersected gold values ranging from <0.005 to 0.057 g/t, silver values ranging from 0.2 to 23.7 g/t, copper values from <1 ppm to 0.062 %, lead values from 0.001 to 0.059 % and zinc values from 0.01 to 0.324 %.

Figure 5 shows the Geological Cross Section- DDH 2017-MON 10 and DDH 2017-MON-11 while Figure 6 shows the Cross Section- Au Values-DDH 2017-MON 10 and DDH 2017-MON-11. Figure 7 shows the Cross Section- Ag Values-DDH 2017-MON 10 and DDH 2017-MON-11.

APPENDIX I shows the drill logs for the 2 drill holes while APPENDIX II shows the Assay Results (30 element ICP).

## **INTERPRETATION AND CONCLUSIONS**

The Silver Crown 6 property is located approximately 22 kilometers north of Stewart, British Columbia in the Skeena Mining Division.

The property is comprised of one claim covering approximately 613 hectares. The claim extends two kilometres west from the confluence of American Creek with Bear River.

The claim lies within a belt of Jurassic volcanic rocks which extends from the Kitsault area (south of Stewart), north to the Stikine River area.

Five types of mineralization have been located on the property: weakly pyritic, sericitized andesitic, massive quartz, locally banded with black chlorite containing 10-25 % pyrite and local fine grained chalcopryrite, quartz-sulphide vein stockworks, massive red hematite veinlets containing coarse cube pyrite and vuggy quartz-calcite –sulphide veins.

In the period May 2012 to the end of October 2012, a total of 403.66 meters of diamond drilling was completed in 3 holes on the south edge of the Silver Crown 6 property. Drilling intersected highly chloritic andesites that were weakly silicified and brecciated with a strong quartz-pyrite stockwork that formed 10 % of the core. Massive red hematite veins with pyrite are also present. The best drill results were obtained from DDH-2012-Mon-72 which returned several intervals including 3.05 m of 15.61 g/t gold and 3.05 m of 2.63 g/t gold.

During the period of July 20 to October 1, 2017, a total of 230.79 meters of BTW size diamond drilling in 2 holes was completed.

Drilling intersected gold values ranging from <0.005 to 0.057 g/t, silver values ranging from 0.2 to 23.7 g/t, copper values from <1 ppm to 0.062 %, lead values from 0.001 to 0.059 % and zinc values from 0.01 to 0.324 %.

An exploration program including soil sampling, mapping and diamond drilling is recommended for the Silver Crown 6 property.

## **RECOMMENDATIONS AND BUDGET**

It is recommended that in the next exploration phase consist of soil sampling to test to the north of the exposed Montrose zone on the Silver Crown 6 claim. Based on positive results of the soil sampling, a program of drilling is also recommended.

### **Estimated Cost of the Program**

Geologist, 60 days @ \$600.00/ day	\$36,000.00
Field assistant, 60 days @ \$300.00/day	\$18,000.00
Drilling 1500 metres @ \$140.00/ metre (all inclusive)	\$135,000.00
Soil Sampling (all inclusive-\$50,000.00)	\$50,000.00
Accommodation and food (in Stewart)	\$25,000.00
Vehicle rental	\$25,000.00
6- wheel drive vehicles	\$20,000.00
Bulldozer/excavator cost	\$30,000.00
Core cutting	\$3,000.00
Assaying 200 samples @ \$27.00/sample	\$5,400.00
Freight	\$4,000.00
Report	\$10,000.00
Drafting	\$5,000.00
Contingency	\$23,600.00
	<hr/>
<b>Total</b>	<b>\$400,000.00</b>

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## **CERTIFICATE of AUTHORS' QUALIFICATIONS**

I, Edward R. Kruchkowski, geologist, residing at 23 Temple Bay, N.E., in the City of Calgary, in the Province of Alberta, hereby certify that:

1. I received a Bachelor of Science degree in Geology from the University of Alberta in 1972.
2. I have been practicing my profession continuously since graduation.
3. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia.
5. I am a consulting geologist working on behalf of Decade Resources Ltd.
6. This report is based on a review of reports, documents, maps and other technical data on the property area.
7. I am familiar with these types of deposits having conducted exploration programs on these types of occurrences in the Stewart region.

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Date:

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E.R. Kruchkowski, B.Sc.

## STATEMENT OF EXPLORATION COSTS

E Kruchkowski –July 20 to October 1 2017 (14 days @ \$700/day)	\$9,800.00
Drill hole location, drill supervision and core logging.	
Core cutting	\$600.00
Matthew Wesley-August 13-14 2017	
2 pick-up trucks @ \$150.00/day for 14 days	\$3,000.00
Includes core delivery to Kamloops	
3 Polaris ranger-6 wheel drive vehicle @ \$200/day for 14 days	\$7,800.00
Report Writing	\$1,000.00
Drafting	\$1,000.00
Fuel Charges – gasoline and diesel	\$1,500.00
Kasum Tractor equipment for job	\$17,020.00
(includes site preparation – pulling drill to and from site)	
D-6- 7 days at \$1360/day(8 hours at \$170/hour)	
Cat 325 excavator- 30 hours @ \$250/hour	
Trucking of drills and Kasum tractor equipment	\$4,500.00
5 low boy trips from American Creek to and from Stewart	
Drilling 230.79m @ \$140/m	\$32,226.60
Hotel and Meal Expenses 14 days @ \$150.00/day	\$2,100
Assaying – 74 samples @ \$35/sample	\$2,590.00
<b>Total</b>	<b><u>\$83,136.60</u></b>

APPENDIX I  
DRILL LOGS  
DDH 2017 MON-10 and DDH 2017MON 11



## RED CLIFF DRILL LOGS

<b>DDH # 2017-MON-10</b>		<b>Core Size</b> <u>BTW</u>		<b>Logged by:</b> <u>E Kruchkowski</u>								
<b>Azimuth</b> <u>350 degrees</u>		<b>Start</b> <u>August 5/2017</u>		<b>Total depth</b> <u>132.62m</u>								
<b>Dip</b> <u>-60 degrees</u>		<b>Complete</b> <u>----August 9/2017-----</u>		<b>Co-ordinate</b> <u>443687E 6219260N</u>								
<b>Reflex Survey</b>		<b>Depth (m)</b>		120.73								
		<b>Azimuth (degrees)</b>		350.1								
		<b>Dip (degrees)</b>		57.6								
<b>Elevation</b> <u>690m</u>												
METERAGE		ROCK TYPE	ROCK, ALTERATION, MINERALIZATION	SAMPLE INTERVAL(meters)				ASSAY/GEOCHEM				
FROM	TO		STRUCTURE DESCRIPTION	Sple No.	FROM	TO	Width	Au g/t	Ag g/t	Cu %	Pb %	Zn %
0.00	10.37	<b>Casing</b>										
10.37	40.85	<b>Intrusive</b>	Medium grained, equigranular latite with 40% subhedral to euheadral feldpspar	65167	10.37	13.17	2.80	<0.005	15.800	0.005	0.017	0.006
				65168	13.17	14.79	1.62	0.006	3.700	0.003	0.005	0.002
				65169	14.79	17.99	3.20	<0.005	7.100	0.003	0.008	0.004
			- non magnetic	65170	Blank			0.119	< 0.2	0.000	0.000	0.004
				65171	17.99	19.45	1.46	0.007	15.100	0.005	0.019	0.008
			Highly broken and rusty	65172	19.45	21.34	1.89	0.008	1.900	0.001	0.004	0.007
				65173	21.34	22.87	1.52	0.005	3.000	0.002	0.004	0.006
			Local strong sericite alteration	65174	22.87	25.91	3.05	0.012	2.600	0.002	0.011	0.015
				65175	25.91	28.96	3.05	0.005	3.500	0.002	0.011	0.015
			Local zone of fine grained pyrite along veinlets + stringers	65176	28.96	30.49	1.52	0.005	7.600	0.003	0.014	0.007
			over core lengths of 1-3 m	65177	30.49	32.01	1.52	<0.005	1.500	0.001	0.004	0.006
				65178	32.01	35.06	3.05	<0.005	1.200	0.001	0.003	0.014
			@ 10.37 m to 13.17 m - coarse seams of fine grained pyrite	65179	35.06	36.28	1.22	<0.005	0.700	0.000	0.003	0.014
			with 1-2 cm, with pyrite approximately 7%	65180	STD			1.900	0.600	0.016	0.001	0.007
				65181	36.28	38.26	1.98	0.040	7.800	0.002	0.019	0.009
			@ 17.99 m to 19.45 m - coarse seams of fine grained pyrite	65182	38.26	40.85	2.59	0.017	1.900	0.001	0.009	0.012
			up to 10 cm wide - pyrite is approximately 10%	65183	40.85	43.90	3.05	0.024	0.200	0.003	0.001	0.022
				65184	43.90	45.43	1.52	0.007	2.600	0.001	0.010	0.025
			@ 19.45 m to 36.59 m - minor local pyrite veinlets up to	65185	45.43	47.26	1.83	<0.005	0.600	0.001	0.001	0.009
			0.5 cm - pyrite is approximately 2%	65186	47.26	50.30	3.05	<0.005	2.700	0.001	0.006	0.016
				65187	50.30	51.52	1.22	<0.005	5.200	0.002	0.035	0.069
			@ 32.01 m to 35.06 m - very highly broken	65188	51.52	53.35	1.83	0.008	1.400	0.001	0.007	0.015
				65189	53.35	55.95	2.59	<0.005	2.400	0.001	0.009	0.023
			@ 36.28 m to 38.17 m - highly pyritic with seams of fine	65190	blank			<0.005	< 0.2	0.001	0.001	0.004
			grained pyrite	65191	55.95	57.93	1.98	0.008	9.500	0.124	0.087	0.154
			pyrite veins - highly weathered - sericitic with pale yellow	65192	57.93	59.45	1.52	0.035	7.400	0.019	0.019	0.029
			weathering pyrite seams up to 4 cm, approximately 9%	65193	59.45	61.89	2.44	0.016	10.600	0.062	0.022	0.044



## RED CLIFF DRILL LOGS

<b>DDH # 2017-MON-11</b>		<b>Core Size</b> ___ BTW		<b>Logged by:</b> _E Kruchkowski_										
<b>Azimuth</b> 350 degrees ___		<b>Start</b> ___ August 9/2017		<b>Total depth</b> ___ 98.17m										
<b>Dip</b> ___ -70 degrees ___		<b>Complete</b> ---August 11/2017-----		<b>Co-ordinate</b> ___ 443687E 6219260N										
<b>Reflex Survey</b>			<b>Depth (m)</b>		90.24									
			<b>Azimuth (degrees)</b>		352.8									
<b>Elevation</b> ___ 690m ___			<b>Dip (degrees)</b>		69.9									
<b>METERAGE</b>		<b>ROCK TYPE</b>	<b>ROCK, ALTERATION, MINERALIZATION</b>			<b>SAMPLE INTERVAL(meters)</b>				<b>ASSAY/GEOCHEM</b>				
<b>FROM</b>	<b>TO</b>		<b>STRUCTURE DESCRIPTION</b>			<b>Sple No.</b>	<b>FROM</b>	<b>TO</b>	<b>Width</b>	<b>Au g/t</b>	<b>Ag g/t</b>	<b>Cu %</b>	<b>Pb %</b>	<b>Zn %</b>
0.00	9.76	<b>Casing</b>				65257	9.76	12.80	3.05	<0.005	2.800	0.001	0.003	0.008
						65258	12.80	15.85	3.05	<0.005	10.400	0.003	0.013	0.013
9.76	98.17	<b>Intrusive</b>	Grey, coarse grained equigranular, very rusty with narrow			65259	15.85	18.90	3.05	<0.005	5.600	0.002	0.007	0.006
			fine grained pyrite veinlets; highly broken			65260	STD			9.020	117.000	0.011	0.001	0.006
						65261	18.90	21.95	3.05	0.014	7.400	0.003	0.008	0.009
			Overall pyrite is approximately 7-9%			65262	21.95	25.00	3.05	<0.005	6.300	0.002	0.013	0.018
						65263	25.00	26.52	1.52	0.007	5.700	0.002	0.010	0.009
			@ 11.28 m to 11.89 m - clay and gouge			65264	26.52	28.05	1.52	<0.005	3.000	0.002	0.008	0.012
						65265	28.05	31.10	3.05	<0.005	3.600	0.002	0.008	0.024
			@ 43.29 m to 49.39 m - very broken and rusty			65266	31.10	34.15	3.05	<0.005	4.500	0.001	0.010	0.017
						65267	34.15	37.20	3.05	0.005	2.200	0.001	0.005	0.008
			49.39 m to 82.32 m - strong fine grained pyrite veining,			65268	37.20	40.24	3.05	0.011	4.700	0.001	0.012	0.018
			approximately 10%			65269	40.24	43.29	3.05	0.005	5.300	0.002	0.014	0.015
						65270	Blank			<0.005	< 0.2	0.000	0.000	0.004
			local fine grained pale sphalerite - Arsenopyrite?			65271	43.29	46.34	3.05	0.051	23.700	0.006	0.059	0.021
			approximately 0.5%			65272	46.34	49.39	3.05	0.019	9.800	0.002	0.018	0.021
						65273	49.39	52.439	3.04878	<0.005	2.600	0.001	0.013	0.014
			veining appears to be 40% to CA			65274	52.439	55.488	3.04878	<0.005	2.600	0.002	0.020	0.018
						65275	55.488	58.537	3.04878	0.006	4.600	0.004	0.038	0.053
			@ 71.95 m to 85.37 m - appears to be contact zone with			65276	58.54	61.59	3.05	<0.005	3.000	0.001	0.010	0.015
			silicified appearing rock with pyrite stringers			65277	61.59	64.63	3.05	0.024	11.900	0.012	0.078	0.150
						65278	64.63	67.68	3.05	0.005	1.600	0.002	0.005	0.017
			@ 85.37 m to 89.63 m - highly weathered and rusty			65279	67.68	70.73	3.05	0.007	2.500	0.001	0.034	0.250
						65280	STD			9.300	81.000	0.011	0.001	0.006
			@ 88.41 m to 97.56 m - highly broken and sheared with poor			65281	70.73	73.78	3.05	0.015	1.000	0.001	0.017	0.043
			recovery			65282	73.78	76.83	3.05	<0.005	0.300	0.001	0.007	0.039
						65283	76.83	79.88	3.05	0.008	1.600	0.001	0.010	0.043
			@ 97.56 m to 98.17 m - highly weathered, weakly pyritic			65284	79.88	82.93	3.05	<0.005	0.900	0.001	0.008	0.324
						65285	82.93	85.98	3.05	<0.005	0.400	0.001	0.004	0.019



APPENDIX II  
ASSAY RESULTS  
ACTLABS FILE 08614 and 09156

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	157	0.3	4.6	14	3190
65094	131	1.1	12.9	128	3260
65095	1210	0.9	10	138	2900
65096	11	< 0.2	< 0.5	3	2750
65097	18	< 0.2	< 0.5	< 1	2250
65098	10	< 0.2	< 0.5	< 1	1890
65099	8	< 0.2	< 0.5	< 1	1690
65100	1870	0.7	< 0.5	160	1240
65101	11	< 0.2	< 0.5	< 1	1590
65102	12	< 0.2	< 0.5	< 1	1860
65103	6	< 0.2	< 0.5	< 1	1770
65104	7	< 0.2	< 0.5	4	1590
65105	9	< 0.2	< 0.5	25	1870
65106	12	< 0.2	< 0.5	< 1	1760
65107	10	< 0.2	< 0.5	< 1	1810
65108	6	< 0.2	< 0.5	82	2010
65109	70	< 0.2	< 0.5	1	2110
65110	9	< 0.2	< 0.5	5	505
65111	14	< 0.2	< 0.5	19	2300
65112	26	0.6	18.2	37	2400
65113	60	0.3	3.1	13	2670
65114	30	< 0.2	< 0.5	7	2390
65115	65	0.4	1	154	2530
65116	91	0.9	7.1	164	2400
65117	160	0.8	3.3	8	2270
65118	109	1.5	17.1	26	2250
65119	52	< 0.2	< 0.5	3	2030
65120	1910	0.5	0.7	153	1220
65121	18	< 0.2	< 0.5	< 1	1890
65122	541	0.6	5	16	2130
65123	170	0.6	< 0.5	188	2070

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	170	< 0.2	2.5	30	2220
65125	22	1.5	26	91	2250
65126	8	< 0.2	< 0.5	39	1740
65127	26	0.7	26.4	128	1670
65128	10	< 0.2	< 0.5	2	1480
65129	96	< 0.2	< 0.5	< 1	1530
65130	< 5	< 0.2	< 0.5	11	581
65131	16	2.3	84.3	122	1770
65132	9	< 0.2	< 0.5	< 1	1640
65133	6	< 0.2	< 0.5	3	1800
65134	6	< 0.2	2.6	90	1930
65135	< 5	< 0.2	1	4	1840
65136	10	1.2	63.4	316	1870
65137	< 5	< 0.2	< 0.5	2	2020
65138	10	< 0.2	< 0.5	18	1710
65139	994	4.8	1.2	2940	2280
65140	1830	0.6	0.7	160	1240
65141	36	< 0.2	< 0.5	9	1940
65142	13	< 0.2	< 0.5	58	2220
65143	586	0.9	< 0.5	561	2960
65144	92	< 0.2	< 0.5	41	1160
65145	2090	0.8	< 0.5	295	2680
65146	1850	1.4	20.9	132	2950
65147	184	0.3	8.7	74	3020
65148	2200	2.4	45.5	330	3070
65149	616	1.7	47.6	249	3330
65150	16	< 0.2	< 0.5	2	502
65151	9	< 0.2	15.5	73	3750
65152	168	14.1	18.4	> 10000	3770
65153	36	< 0.2	12.5	27	3290
65154	10	< 0.2	0.6	14	2980

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	32	< 0.2	6.4	30	2990
65156	11	< 0.2	< 0.5	5	1920
65157	16	< 0.2	0.7	75	2370
65158	77	2.3	< 0.5	2170	2350
65159	145	0.3	< 0.5	461	1840
65160	1870	0.6	0.5	154	1220
65161	266	0.5	< 0.5	240	2060
65162	111	< 0.2	< 0.5	60	2220
65163	1070	0.3	0.7	1080	2340
65164	> 5000	6.3	1.1	> 10000	1860
65165	30	< 0.2	< 0.5	355	2310
65166	21	< 0.2	< 0.5	91	2260
65167	< 5	15.8	1	50	382
65168	6	3.7	< 0.5	26	120
65169	< 5	7.1	< 0.5	25	496
65170	119	< 0.2	< 0.5	4	626
65171	7	15.1	1.1	47	157
65172	8	1.9	0.6	13	319
65173	5	3	0.5	16	231
65174	12	2.6	0.6	16	565
65175	5	3.5	1.6	19	908
65176	5	7.6	1.2	25	159
65177	< 5	1.5	0.6	6	258
65178	< 5	1.2	1	6	708
65179	< 5	0.7	0.9	2	678
65180	1900	0.6	0.6	160	1280
65181	40	7.8	1.2	18	211
65182	17	1.9	0.9	12	468
65183	24	0.2	0.9	28	1030
65184	7	2.6	2.9	10	413
65185	< 5	0.6	< 0.5	5	502



**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	< 5	2.7	1.2	8	474
65187	< 5	5.2	8.1	21	547
65188	8	1.4	1.3	5	617
65189	< 5	2.4	2.1	8	567
65190	< 5	< 0.2	< 0.5	8	417
65191	8	9.5	15.3	1240	125
65192	35	7.4	3.5	194	89
65193	16	10.6	4.9	622	742
65194	< 5	2.1	3.1	30	750
65195	9	2.7	2.7	49	768
65196	< 5	4.3	25.5	13	236
65197	< 5	0.2	3	7	737
65198	201	0.6	1.6	5	797
65199	< 5	0.2	0.6	6	859
65200	1880	0.5	< 0.5	158	1250
65201	< 5	1.7	2.4	21	579
65202	20	0.2	2.6	2	840
65203	< 5	< 0.2	1.5	< 1	841
65204	< 5	0.3	1.4	3	628
65205	12	1.3	5	59	825
65206	15	0.3	0.6	117	868
65207	15	< 0.2	< 0.5	65	1180
65208	15	0.4	< 0.5	219	798
64985	32	< 0.2	1.3	9	2850
64986	5	< 0.2	< 0.5	39	2820
64987	< 5	< 0.2	< 0.5	5	2910
64988	29	0.4	12.6	49	2590
64989	20	0.6	23.2	26	2390
64990	< 5	< 0.2	< 0.5	18	527
64991	25	0.3	10.4	23	2100
64992	23	< 0.2	1.6	23	2440

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	200	0.4	31.5	127	2490
64994	55	< 0.2	< 0.5	16	2660
64995	22	< 0.2	0.9	87	2420
64996	6	0.3	12.9	192	2660
64997	< 5	< 0.2	0.6	105	2220
64998	< 5	< 0.2	< 0.5	63	2220
64999	11	< 0.2	< 0.5	73	2480
65000	71	77.7	164	1920	1560
64969	18	< 0.2	< 0.5	4	3390
64970	< 5	< 0.2	< 0.5	3	1000
64971	37	< 0.2	0.6	10	3110
64972	13	0.3	0.5	12	3450
64973	980	0.7	5.2	169	3440
64974	400	1.7	23.2	141	3180
64975	< 5	< 0.2	< 0.5	44	1170
64976	14	0.3	3	30	3680
64977	16	0.4	2.7	26	2490
64978	26	0.7	13.3	397	2640
64979	16	0.6	< 0.5	296	2610
64980	82	76.3	163	1870	1540
64981	< 5	0.7	< 0.5	448	2490
64982	< 5	< 0.2	< 0.5	22	2560
64983	5	< 0.2	< 0.5	7	2630
64984	16	< 0.2	< 0.5	9	2740
64946	9	1	< 0.5	< 1	2490
64947	13	< 0.2	0.6	2	2240
64948	6	< 0.2	< 0.5	< 1	2470
64949	12	< 0.2	1.6	139	2500
64950	< 5	< 0.2	< 0.5	8	549
64951	< 5	< 0.2	< 0.5	64	3170
64952	13	< 0.2	2.2	37	3160

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	20	< 0.2	4.8	205	3380
64954	8	< 0.2	< 0.5	8	3010
64955	26	< 0.2	4.4	4	2200
64956	38	< 0.2	< 0.5	53	1440
64957	16	< 0.2	< 0.5	2	1710
64958	6	< 0.2	2.3	25	1910
64959	< 5	< 0.2	< 0.5	32	2290
64960	1910	0.6	< 0.5	149	1230
64961	8	0.4	< 0.5	47	2200
64962	< 5	0.6	< 0.5	54	1740
64963	< 5	0.7	< 0.5	50	1940
64964	7	< 0.2	< 0.5	34	2490
64965	< 5	< 0.2	< 0.5	56	2460
64966	9	< 0.2	< 0.5	< 1	2630
64967	25	< 0.2	< 0.5	18	2620
64968	< 5	< 0.2	< 0.5	5	2580
64903	< 5	< 0.2	14.4	27	2250
64904	217	0.7	11.5	410	2510
64905	63	0.4	3.7	52	2740
64906	151	< 0.2	8.1	127	2130
64907	179	< 0.2	< 0.5	18	2160
64908	75	0.3	1.7	209	2320
64909	8	< 0.2	3.3	81	2020
64910	< 5	< 0.2	< 0.5	2	748
64911	11	< 0.2	1.7	150	2110
64912	22	< 0.2	< 0.5	68	2190
64913	8	< 0.2	3	70	1890
64914	< 5	< 0.2	0.6	173	1230
64915	< 5	< 0.2	1.1	59	1240
64916	< 5	< 0.2	< 0.5	25	1370
64917	< 5	< 0.2	1.1	15	1810

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	11	< 0.2	3.1	16	838
64919	< 5	< 0.2	< 0.5	4	862
64920	< 5	< 0.2	< 0.5	2	941
64921	< 5	< 0.2	< 0.5	< 1	1770
64922	< 5	< 0.2	< 0.5	< 1	1400
64923	< 5	< 0.2	< 0.5	< 1	1610
64924	< 5	< 0.2	< 0.5	4	1540
64925	< 5	< 0.2	1	55	1830
64926	7	0.2	3.8	123	1800
64927	< 5	< 0.2	2.1	45	1690
64928	< 5	0.4	1.1	270	1630
64929	< 5	< 0.2	2.5	100	1690
64930	< 5	< 0.2	0.7	26	1830
64931	< 5	0.2	1.7	72	2050
64932	< 5	< 0.2	1.2	19	1890
64933	< 5	< 0.2	1.1	2	1520
64934	< 5	< 0.2	1.2	14	1830
64935	9	< 0.2	7	30	2090
64936	18	< 0.2	5.4	21	1930
64937	11	< 0.2	15.2	41	2870
64938	13	< 0.2	31.2	107	3050
64939	29	< 0.2	17.6	135	3550
64940	1710	0.5	< 0.5	161	1360
64941	55	< 0.2	3	404	3020
64942	38	< 0.2	5.9	13	2740
64943	23	< 0.2	0.9	< 1	3180
64944	33	< 0.2	< 0.5	< 1	2990
64945	21	< 0.2	< 0.5	2	2030
64584	8	< 0.2	0.6	108	2510
64585	145	< 0.2	1.2	5	2940
64586	105	< 0.2	< 0.5	< 1	3310

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	48	0.3	2.3	118	3190
64588	8	< 0.2	0.9	2	3690
64589	378	< 0.2	< 0.5	< 1	3570
64590	11	< 0.2	4.3	16	2820
64591	8	< 0.2	3.6	2	3330
64592	9	< 0.2	4.2	38	2150
64593	64	0.3	3.5	206	1710
64594	< 5	< 0.2	< 0.5	557	2100
64595	< 5	< 0.2	0.6	130	2170
64596	10	0.4	< 0.5	393	2570
64597	8	< 0.2	0.9	29	2410
64598	13	< 0.2	1.5	43	2700
64551	< 5	< 0.2	< 0.5	10	2550
64552	6	< 0.2	< 0.5	93	2500
64553	< 5	< 0.2	< 0.5	2	817
64554	5	< 0.2	< 0.5	10	895
64555	10	< 0.2	< 0.5	< 1	2850
64556	21	< 0.2	< 0.5	< 1	3010
64557	32	< 0.2	1	14	3300
64558	63	0.3	10.8	63	3590
64559	393	1.6	120	239	3430
64560	157	0.6	55	109	3980
64561	78	0.3	29.5	59	3790
64562	10	< 0.2	6.6	13	3590
64563	436	0.8	92.5	257	3560
64564	82	0.3	23.7	65	3870
64565	93	< 0.2	< 0.5	2	3300
64566	31	< 0.2	3.4	19	4220
64567	130	0.3	21.4	49	3890
64568	29	< 0.2	< 0.5	2	2910
64569	20	< 0.2	< 0.5	< 1	2690

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	23	< 0.2	< 0.5	< 1	2100
64571	< 5	< 0.2	< 0.5	< 1	1930
64572	5	< 0.2	0.6	16	2570
64573	< 5	< 0.2	< 0.5	5	2440
64574	37	< 0.2	0.6	1	2700
64575	98	< 0.2	1.8	9	3160
64576	102	0.5	1.4	37	3650
64577	26	0.2	< 0.5	4	3450
64578	19	0.4	< 0.5	233	2750
64579	166	0.2	< 0.5	38	2620
64580	983	0.4	1	216	2690
64581	60	0.9	0.8	206	2420
64582	16	< 0.2	< 0.5	49	2470
64583	7	< 0.2	< 0.5	7	2560
64599	7	< 0.2	0.7	115	2470
64600	1910	0.6	0.8	166	1380
64601	124	< 0.2	1	116	2520
64602	5	< 0.2	1	26	2970
64603	< 5	< 0.2	0.6	3	2760
64604	< 5	< 0.2	1.6	< 1	3060
64605	14	< 0.2	0.7	2	2950
64606	215	3.8	138	137	2330
64607	7	< 0.2	1	8	3180
64608	6	< 0.2	1.2	17	3050
64609	< 5	0.2	5.5	75	3130
64610	< 5	< 0.2	< 0.5	2	691
64611	5	0.2	8.3	95	2270
64612	7	0.5	6.4	145	1680
64613	19	4.2	3.8	1420	2820
64614	391	2.4	33.1	211	2160
64615	11	0.2	12	30	2720

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	5	< 0.2	7.2	11	2840
64617	< 5	< 0.2	9.3	14	3170
64618	9	< 0.2	14.4	16	3030
64619	28	1.3	32.8	169	3190
64620	1850	0.6	0.6	157	1360
64621	19	0.2	23.3	20	3870
64639	57	0.3	1.3	20	3950
64640	2140	0.6	< 0.5	160	1340
64641	609	0.9	11.1	102	3010
64642	317	1.4	30.5	302	3210
64643	56	0.4	1.2	132	2990
64644	30	< 0.2	< 0.5	4	2760
64645	7	< 0.2	< 0.5	< 1	3340
64646	863	< 0.2	< 0.5	37	3270
64647	20	< 0.2	< 0.5	179	3840
64648	44	0.2	5.1	161	3640
GR21	140	10.2	2.6	9	133
GR22	149	1	< 0.5	5	164
GR23	> 5000	> 100	1060	433	37
GR24	> 5000	98	5.1	8	76
GR25	> 5000	> 100	1650	3180	56
GR26	60	10	1	23	98
GR27	46	9.6	4.1	59	154
GR28	182	10.5	1.4	67	118
GR29	5	1.1	1	10	982
GR30	14	1	< 0.5	4	149
GR31	88	41.9	5	178	60
GR32	22	5.6	< 0.5	64	78
GR33	45	8.5	3.8	103	63
GR34	277	35.8	< 0.5	92	106
GR35	70	7.2	< 0.5	12	70

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	56	3.9	< 0.5	54	72
GR37	7	0.8	< 0.5	119	874
GR38	14	1	< 0.5	5	68
GR39	7	1.1	< 0.5	24	1630
GR40	207	12.7	0.9	104	106
GR41	778	96.9	2.1	4550	112
GR42	12	1.6	< 0.5	6	131
GR43	2340	80	0.9	32	77
AP-5	264	7.4	< 0.5	2830	1070
AP-6	< 5	0.3	1.6	2	2600
AP-7	< 5	< 0.2	< 0.5	40	892
AP-8	< 5	< 0.2	< 0.5	20	854
AP-9	< 5	< 0.2	< 0.5	16	823
AP-10	14	0.5	< 0.5	6	142
AP-11	13	2.4	< 0.5	29	462
AP-12	38	1.5	< 0.5	10	99
AP-13	11	1.1	2.2	5	548
AP-14	781	> 100	21.1	1540	221
AP-15	258	86.4	1.4	> 10000	636
AP-16	17	7	< 0.5	15	70
AP-17	7	0.4	< 0.5	31	715
PEK-1	27	3.6	< 0.5	1470	1170
PEK-2	< 5	< 0.2	0.7	25	1890
PEK-3	6	0.3	< 0.5	8	412
GRKM-01	25	< 0.2	< 0.5	41	447
RCKM-1	3790	2.1	0.7	181	931
RCKM-2	83	7.9	0.9	9660	512
RCKM-3	118	5	< 0.5	343	44
RCKM-4	83	8.9	1.2	84	142
RCKM-5	< 5	0.3	< 0.5	11	774
RCKM-6	78	< 0.2	< 0.5	3	1070



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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	2620	4.6	< 0.5	4440	773
RCKM-8	138	0.8	< 0.5	1200	605
RCKM-9	23	7.4	< 0.5	6390	1820
RCKM-10	8	< 0.2	< 0.5	561	927
64622	77	1.8	21.9	296	3480
64623	51	0.5	8	15	3930
64624	70	1.5	16.2	259	2590
64625	172	0.6	19.6	151	3080
64626	22	< 0.2	7.1	39	1860
64627	< 5	< 0.2	5.8	148	2080
64628	273	< 0.2	7.1	289	1340
64629	485	< 0.2	1	346	2670
64630	7	< 0.2	< 0.5	6	628
64631	958	0.4	2.4	452	2790
64632	30	< 0.2	1.5	427	3230
64633	403	0.4	1.6	745	2830
64634	174	0.5	2.5	1080	3030
64635	173	< 0.2	1.3	425	3480
64636	115	< 0.2	4.8	520	3040
64637	44	< 0.2	2.3	368	3450
64638	8	< 0.2	2	294	3380

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	1	7	1160	1040	3.23
65094	1	8	1830	1740	3.56
65095	2	9	524	1190	3.29
65096	< 1	7	10	345	3.29
65097	< 1	10	7	234	3.1
65098	< 1	9	3	233	3.19
65099	< 1	9	4	150	3.21
65100	10	33	13	70	1.88
65101	< 1	7	5	112	3.19
65102	< 1	7	2	141	3.33
65103	< 1	8	< 2	149	3.2
65104	< 1	8	7	157	3.21
65105	< 1	9	33	149	3.12
65106	< 1	5	3	128	3.05
65107	< 1	9	4	110	3.54
65108	1	10	5	192	3.79
65109	< 1	6	< 2	219	3.63
65110	2	3	7	43	2.16
65111	< 1	8	91	290	3.31
65112	< 1	9	560	1910	3.29
65113	< 1	8	441	713	3.5
65114	< 1	9	25	333	3.28
65115	< 1	7	64	454	3.39
65116	< 1	12	722	831	3.23
65117	< 1	6	713	601	2.97
65118	< 1	9	2700	1880	3.2
65119	< 1	8	10	268	3.53
65120	10	33	13	69	1.8
65121	< 1	5	5	276	3.29
65122	< 1	7	489	521	3.23
65123	< 1	7	185	314	2.91

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	< 1	8	333	512	3.47
65125	< 1	9	2600	3150	3.32
65126	< 1	10	188	264	3.57
65127	< 1	9	832	3020	3.36
65128	< 1	8	20	128	2.99
65129	< 1	9	5	234	2.99
65130	2	2	11	64	2.25
65131	1	8	4850	6750	3.13
65132	< 1	9	3	236	3.02
65133	< 1	10	7	300	2.89
65134	< 1	6	623	518	3.22
65135	< 1	7	113	407	2.83
65136	2	8	2200	4750	2.97
65137	< 1	7	< 2	324	3.2
65138	< 1	6	17	212	2.59
65139	5	9	926	338	3.62
65140	10	33	15	70	1.84
65141	< 1	7	88	235	3.37
65142	< 1	7	41	173	3.23
65143	< 1	9	24	395	4.1
65144	2	34	11	151	2.86
65145	< 1	7	16	358	4.57
65146	< 1	9	1670	2660	3.56
65147	< 1	10	1080	1390	3.46
65148	< 1	8	3820	5340	3.71
65149	< 1	10	4560	5440	4.01
65150	2	2	25	52	1.98
65151	< 1	22	38	1790	4.16
65152	< 1	16	211	2270	4.49
65153	< 1	21	72	1640	4.16
65154	< 1	21	13	494	4.49

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	< 1	16	364	1050	3.93
65156	< 1	7	6	191	3.1
65157	< 1	7	105	333	3.65
65158	1	9	40	332	3.7
65159	< 1	7	< 2	145	3.36
65160	10	36	14	69	1.84
65161	< 1	9	19	186	3.15
65162	< 1	5	19	262	3.23
65163	< 1	16	12	211	4.12
65164	< 1	10	9	140	3.8
65165	< 1	23	10	164	4.55
65166	< 1	21	< 2	178	4.43
65167	19	4	171	64	0.67
65168	8	< 1	52	21	0.51
65169	18	1	80	36	0.49
65170	2	3	2	39	1.98
65171	29	3	186	80	0.59
65172	12	3	38	65	0.7
65173	7	2	44	58	0.75
65174	6	2	111	150	0.8
65175	6	< 1	113	150	0.93
65176	12	< 1	140	65	0.56
65177	5	2	43	63	0.61
65178	3	1	32	144	0.95
65179	2	1	26	144	1.4
65180	10	34	13	71	1.93
65181	15	1	189	90	0.69
65182	2	4	93	122	1.03
65183	< 1	27	7	216	3.08
65184	8	2	96	249	1.07
65185	2	2	11	91	0.97

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	5	3	60	155	0.97
65187	22	3	346	686	0.71
65188	6	2	67	148	0.78
65189	7	< 1	93	233	0.96
65190	< 1	2	14	39	1.68
65191	13	< 1	874	1540	0.76
65192	15	2	186	293	0.62
65193	23	2	219	435	0.8
65194	5	< 1	82	295	1.15
65195	4	1	158	336	1.04
65196	22	2	222	1700	0.81
65197	4	3	70	313	1.24
65198	3	1	92	208	1.01
65199	5	< 1	26	122	0.98
65200	10	28	14	69	1.88
65201	7	1	96	231	0.99
65202	1	2	44	681	1.9
65203	< 1	< 1	5	299	1.26
65204	2	1	23	248	0.98
65205	10	3	198	274	1.38
65206	5	1	49	101	1.52
65207	1	2	16	111	1.88
65208	< 1	< 1	23	62	1.33
64985	< 1	9	38	437	2.71
64986	< 1	9	28	281	2.62
64987	< 1	5	19	285	2.98
64988	< 1	11	714	1450	3.1
64989	< 1	9	923	2800	2.86
64990	1	3	16	55	2.31
64991	< 1	9	409	1230	2.73
64992	< 1	10	111	438	2.71

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	1	6	394	3150	2.98
64994	< 1	7	14	418	3.45
64995	< 1	11	45	356	2.74
64996	< 1	8	254	1100	3.25
64997	< 1	9	14	261	3.08
64998	< 1	9	< 2	212	3.17
64999	< 1	7	14	290	3.42
65000	8	16	> 5000	> 10000	1.74
64969	< 1	9	9	240	3.62
64970	< 1	1	3	95	1.99
64971	1	11	19	197	3.34
64972	< 1	11	22	308	3.2
64973	< 1	14	95	916	3.11
64974	< 1	11	1250	2920	2.84
64975	1	33	12	134	2.77
64976	< 1	14	74	768	3.44
64977	< 1	8	98	504	2.88
64978	< 1	6	230	1370	2.82
64979	< 1	7	120	329	2.96
64980	7	15	> 5000	> 10000	1.7
64981	< 1	5	11	270	3.18
64982	< 1	9	32	258	2.95
64983	< 1	10	139	352	3.1
64984	< 1	12	50	387	3.38
64946	< 1	12	< 2	254	3.66
64947	< 1	13	2	257	3.14
64948	< 1	15	< 2	377	3.79
64949	1	11	138	478	3.8
64950	< 1	3	12	52	2.34
64951	< 1	14	6	357	3.75
64952	< 1	13	6	586	4.1

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	< 1	14	7	779	3.98
64954	< 1	15	< 2	385	3.88
64955	< 1	10	6	739	3.36
64956	< 1	9	4	222	2.88
64957	< 1	8	4	200	2.66
64958	< 1	9	< 2	383	2.78
64959	< 1	10	6	166	3.6
64960	10	29	14	68	1.91
64961	1	11	13	125	2.95
64962	< 1	9	17	94	2.79
64963	1	14	31	88	2.93
64964	< 1	9	17	210	3.33
64965	< 1	6	< 2	267	3.72
64966	< 1	11	3	312	3.47
64967	< 1	10	11	338	3.82
64968	< 1	7	8	412	3.7
64903	< 1	6	4	2060	3.13
64904	< 1	7	147	2510	3.35
64905	< 1	11	126	640	2.61
64906	< 1	8	445	1110	3.31
64907	< 1	8	21	316	3.64
64908	< 1	9	47	616	3.59
64909	< 1	9	< 2	426	4.7
64910	< 1	2	3	66	2.52
64911	2	9	5	454	4.82
64912	< 1	12	7	186	4.84
64913	< 1	10	13	399	3.87
64914	< 1	2	17	209	2.08
64915	2	6	25	136	1.86
64916	< 1	4	13	169	2.59
64917	< 1	10	7	342	3.68

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	4	5	4	650	2.33
64919	4	3	< 2	74	2.45
64920	1	5	< 2	99	2.6
64921	< 1	6	< 2	148	4.24
64922	< 1	6	< 2	78	3.38
64923	< 1	7	3	169	3.6
64924	< 1	3	10	155	3.05
64925	< 1	7	32	117	2.57
64926	1	8	48	285	2.57
64927	< 1	8	5	226	2.59
64928	< 1	8	85	168	2.73
64929	< 1	7	5	291	2.56
64930	< 1	6	< 2	150	3.09
64931	< 1	7	< 2	255	3.26
64932	< 1	6	< 2	230	2.99
64933	< 1	9	< 2	189	2.63
64934	< 1	8	< 2	207	2.57
64935	< 1	7	< 2	1290	2.9
64936	< 1	5	5	674	2.58
64937	< 1	10	7	1640	3.25
64938	< 1	8	20	3110	3.04
64939	< 1	8	228	2560	3.66
64940	9	36	13	74	1.94
64941	< 1	12	7	552	4.19
64942	< 1	8	281	607	2.96
64943	< 1	8	< 2	454	4.3
64944	< 1	8	< 2	334	3.94
64945	< 1	8	< 2	144	3.25
64584	< 1	17	44	355	3.21
64585	< 1	18	46	549	3.59
64586	< 1	17	6	448	3.79



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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	1	18	333	577	4.07
64588	< 1	19	3	883	4.79
64589	< 1	21	3	757	5.16
64590	< 1	7	6	923	3.63
64591	< 1	5	5	546	3.72
64592	< 1	5	18	598	3.12
64593	2	4	235	905	2.54
64594	< 1	4	4	220	3.28
64595	< 1	5	2	178	3.21
64596	< 1	6	9	194	3.45
64597	< 1	4	21	454	3.28
64598	< 1	6	12	344	3.33
64551	< 1	11	< 2	263	3.28
64552	< 1	8	4	327	3.52
64553	< 1	6	4	88	3.04
64554	2	9	4	51	3.34
64555	< 1	11	3	296	2.85
64556	< 1	7	4	341	3.15
64557	< 1	9	66	532	3.16
64558	< 1	9	1280	1180	3.25
64559	1	9	> 5000	> 10000	3.22
64560	5	10	2130	7090	3.7
64561	2	11	1140	3610	2.82
64562	< 1	9	578	1170	3.15
64563	5	7	2050	> 10000	3.31
64564	3	8	1400	2810	3.11
64565	< 1	6	9	292	2.35
64566	< 1	11	373	754	3
64567	1	7	2110	2550	3.16
64568	< 1	8	49	307	2.77
64569	< 1	8	15	303	2.83

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	< 1	8	4	207	2.57
64571	< 1	8	7	248	2.48
64572	< 1	6	648	680	3.04
64573	< 1	4	16	350	2.65
64574	< 1	7	26	519	2.65
64575	< 1	7	535	560	2.92
64576	< 1	11	42	432	3.57
64577	< 1	18	11	365	3.63
64578	< 1	15	26	293	3.84
64579	< 1	9	5	169	4.16
64580	< 1	12	12	461	3.95
64581	< 1	10	55	407	3.67
64582	< 1	16	12	203	3.76
64583	< 1	15	10	233	3.36
64599	< 1	7	10	185	3.22
64600	9	32	12	74	1.96
64601	< 1	7	19	343	3.61
64602	< 1	5	7	240	3.48
64603	< 1	8	10	242	3.7
64604	< 1	6	8	447	3.81
64605	< 1	7	35	431	3.52
64606	< 1	5	> 5000	> 10000	2.58
64607	< 1	10	19	506	3.04
64608	< 1	11	36	560	3.04
64609	< 1	9	65	1380	3.5
64610	< 1	< 1	5	51	2.1
64611	< 1	5	113	2130	2.75
64612	< 1	2	126	1840	2.4
64613	< 1	4	149	1590	3.73
64614	< 1	5	4450	5020	3.03
64615	< 1	8	94	2510	3.7

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	< 1	9	23	1450	3.56
64617	< 1	11	25	1470	3.61
64618	1	10	34	1900	3.39
64619	2	16	1470	3980	3.53
64620	10	32	15	74	1.86
64621	< 1	11	522	2570	3.45
64639	< 1	13	404	504	3.15
64640	9	29	14	74	1.82
64641	< 1	9	1470	1510	2.45
64642	< 1	6	3220	3820	3.29
64643	< 1	9	201	351	3.12
64644	< 1	10	42	289	3.14
64645	< 1	15	5	324	3.44
64646	< 1	12	22	357	3.07
64647	< 1	10	36	558	3.7
64648	< 1	13	112	784	3.31
GR21	19	5	157	215	0.4
GR22	3	7	9	27	0.72
GR23	2	2	> 5000	> 10000	0.05
GR24	8	3	2510	246	0.11
GR25	5	1	> 5000	> 10000	0.2
GR26	< 1	5	96	176	2.58
GR27	21	4	4370	344	0.13
GR28	3	5	409	119	0.46
GR29	< 1	9	42	214	3.78
GR30	3	3	19	38	0.18
GR31	3	3	> 5000	395	0.26
GR32	2	4	489	14	0.17
GR33	< 1	3	564	284	0.09
GR34	2	5	> 5000	11	0.1
GR35	2	2	525	44	0.13

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	1	1	208	39	0.21
GR37	2	5	45	51	0.72
GR38	2	5	27	6	0.19
GR39	< 1	4	89	11	0.11
GR40	2	3	283	42	0.33
GR41	11	7	> 5000	68	0.36
GR42	10	3	20	24	0.55
GR43	17	4	502	52	0.36
AP-5	< 1	10	4	78	2.39
AP-6	< 1	8	14	86	1.33
AP-7	< 1	6	8	63	2.04
AP-8	< 1	15	10	127	2.94
AP-9	< 1	5	6	93	2.11
AP-10	< 1	7	53	71	1.41
AP-11	1	3	141	61	1.66
AP-12	< 1	4	506	114	1.67
AP-13	2	5	171	168	1.82
AP-14	3	3	> 5000	> 10000	1.55
AP-15	2	3	8	10	0.17
AP-16	2	2	348	89	1.87
AP-17	5	5	11	56	2.84
PEK-1	< 1	7	43	66	2.96
PEK-2	< 1	1	11	15	0.94
PEK-3	< 1	2	28	22	0.55
GRKM-01	1	3	6	29	0.7
RCKM-1	11	5	67	132	1.52
RCKM-2	11	4	69	182	0.76
RCKM-3	12	3	34	10	0.76
RCKM-4	4	4	159	63	0.26
RCKM-5	< 1	12	11	38	3.92
RCKM-6	< 1	14	4	47	5.07

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	2	8	23	42	2.95
RCKM-8	27	7	7	29	2.68
RCKM-9	1	8	5	120	3.44
RCKM-10	< 1	1	< 2	48	2.02
64622	1	15	2970	2520	3.03
64623	< 1	12	493	1420	2.83
64624	< 1	10	> 5000	2810	2.69
64625	< 1	9	1750	3000	2.77
64626	< 1	< 1	217	868	1.3
64627	< 1	3	119	1020	1.41
64628	< 1	4	381	1690	1.44
64629	< 1	8	52	444	3.54
64630	< 1	3	11	68	2.08
64631	< 1	9	18	400	3.68
64632	< 1	9	3	517	4.05
64633	< 1	10	30	623	3.49
64634	< 1	9	35	1190	3.74
64635	< 1	10	9	510	4.32
64636	< 1	11	17	670	3.85
64637	< 1	9	13	570	4.62
64638	< 1	13	428	1240	4.34

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Report Date: 8/9/2017

Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	< 2	< 10	727	< 0.5	< 2
65094	< 2	< 10	630	< 0.5	< 2
65095	19	< 10	87	< 0.5	< 2
65096	< 2	< 10	459	< 0.5	< 2
65097	< 2	< 10	205	< 0.5	< 2
65098	< 2	< 10	131	< 0.5	< 2
65099	< 2	< 10	161	< 0.5	< 2
65100	2300	88	36	< 0.5	53
65101	< 2	< 10	183	< 0.5	< 2
65102	< 2	< 10	227	< 0.5	< 2
65103	< 2	< 10	175	< 0.5	< 2
65104	< 2	< 10	516	< 0.5	< 2
65105	< 2	< 10	422	< 0.5	< 2
65106	< 2	< 10	178	< 0.5	< 2
65107	< 2	< 10	299	< 0.5	4
65108	3	< 10	283	< 0.5	2
65109	< 2	< 10	193	< 0.5	< 2
65110	< 2	< 10	158	< 0.5	< 2
65111	2	< 10	151	< 0.5	< 2
65112	8	< 10	32	< 0.5	< 2
65113	8	< 10	43	< 0.5	< 2
65114	7	< 10	72	< 0.5	4
65115	3	< 10	286	< 0.5	< 2
65116	7	< 10	47	< 0.5	< 2
65117	18	< 10	17	< 0.5	< 2
65118	13	< 10	19	< 0.5	< 2
65119	3	< 10	351	< 0.5	< 2
65120	2230	87	35	< 0.5	49
65121	3	< 10	594	< 0.5	< 2
65122	18	< 10	94	< 0.5	< 2
65123	7	< 10	195	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	< 2	< 10	216	< 0.5	< 2
65125	5	< 10	31	< 0.5	< 2
65126	3	< 10	166	< 0.5	< 2
65127	< 2	< 10	155	< 0.5	< 2
65128	< 2	< 10	207	< 0.5	5
65129	< 2	< 10	190	< 0.5	< 2
65130	< 2	< 10	257	< 0.5	< 2
65131	4	< 10	53	< 0.5	< 2
65132	< 2	< 10	224	< 0.5	< 2
65133	< 2	< 10	175	< 0.5	< 2
65134	< 2	< 10	278	< 0.5	< 2
65135	< 2	< 10	128	< 0.5	< 2
65136	< 2	< 10	35	< 0.5	< 2
65137	< 2	< 10	196	< 0.5	< 2
65138	< 2	< 10	217	< 0.5	< 2
65139	< 2	< 10	74	< 0.5	< 2
65140	2310	85	35	< 0.5	51
65141	3	< 10	421	< 0.5	< 2
65142	< 2	< 10	240	< 0.5	< 2
65143	10	< 10	40	< 0.5	< 2
65144	4	< 10	89	< 0.5	< 2
65145	7	< 10	33	0.8	< 2
65146	15	< 10	96	< 0.5	< 2
65147	4	< 10	144	< 0.5	< 2
65148	3	< 10	105	< 0.5	< 2
65149	11	< 10	54	0.5	< 2
65150	< 2	< 10	200	< 0.5	< 2
65151	4	< 10	142	< 0.5	< 2
65152	26	< 10	22	< 0.5	< 2
65153	34	< 10	81	< 0.5	< 2
65154	14	< 10	145	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	41	< 10	89	< 0.5	< 2
65156	3	< 10	915	< 0.5	< 2
65157	< 2	< 10	284	< 0.5	< 2
65158	14	< 10	36	< 0.5	< 2
65159	3	< 10	300	< 0.5	< 2
65160	2230	88	35	< 0.5	51
65161	55	< 10	14	< 0.5	< 2
65162	< 2	< 10	301	< 0.5	< 2
65163	65	< 10	16	< 0.5	< 2
65164	34	< 10	< 10	< 0.5	< 2
65165	8	< 10	54	< 0.5	< 2
65166	< 2	< 10	152	< 0.5	< 2
65167	649	< 10	< 10	< 0.5	< 2
65168	116	< 10	20	< 0.5	< 2
65169	312	< 10	11	< 0.5	< 2
65170	< 2	< 10	273	< 0.5	< 2
65171	702	< 10	< 10	< 0.5	4
65172	97	< 10	37	< 0.5	< 2
65173	116	< 10	26	< 0.5	< 2
65174	78	< 10	58	< 0.5	< 2
65175	202	< 10	20	< 0.5	< 2
65176	264	< 10	< 10	< 0.5	< 2
65177	66	< 10	42	< 0.5	< 2
65178	49	< 10	94	< 0.5	< 2
65179	11	< 10	126	0.7	< 2
65180	2280	93	37	< 0.5	54
65181	359	< 10	13	< 0.5	< 2
65182	50	< 10	90	< 0.5	< 2
65183	14	< 10	141	0.6	< 2
65184	189	< 10	25	0.6	< 2
65185	30	< 10	184	< 0.5	2



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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	244	< 10	18	0.6	< 2
65187	565	< 10	< 10	< 0.5	< 2
65188	163	< 10	23	< 0.5	3
65189	332	< 10	21	0.8	< 2
65190	< 2	< 10	179	< 0.5	< 2
65191	392	< 10	10	< 0.5	< 2
65192	543	< 10	< 10	< 0.5	< 2
65193	688	< 10	< 10	0.5	< 2
65194	122	< 10	42	0.8	< 2
65195	145	< 10	31	< 0.5	< 2
65196	1060	< 10	< 10	< 0.5	< 2
65197	276	< 10	13	0.6	< 2
65198	163	< 10	29	0.7	< 2
65199	193	< 10	25	0.6	< 2
65200	2240	89	36	< 0.5	52
65201	282	< 10	16	0.7	3
65202	36	< 10	410	1	4
65203	5	< 10	147	< 0.5	< 2
65204	14	< 10	225	< 0.5	2
65205	51	< 10	999	1	< 2
65206	19	< 10	79	< 0.5	< 2
65207	11	< 10	115	< 0.5	< 2
65208	11	< 10	367	< 0.5	< 2
64985	12	< 10	79	< 0.5	< 2
64986	16	< 10	71	< 0.5	< 2
64987	7	< 10	156	< 0.5	< 2
64988	36	< 10	22	< 0.5	2
64989	32	< 10	35	< 0.5	< 2
64990	< 2	< 10	181	< 0.5	3
64991	46	< 10	20	< 0.5	< 2
64992	10	< 10	74	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	28	< 10	33	< 0.5	< 2
64994	8	< 10	178	< 0.5	< 2
64995	6	< 10	184	< 0.5	< 2
64996	5	< 10	150	< 0.5	< 2
64997	< 2	< 10	202	0.5	< 2
64998	3	< 10	275	< 0.5	< 2
64999	18	< 10	50	< 0.5	< 2
65000	85	< 10	15	< 0.5	< 2
64969	25	< 10	82	< 0.5	< 2
64970	< 2	< 10	425	< 0.5	< 2
64971	78	< 10	61	< 0.5	< 2
64972	21	< 10	64	< 0.5	< 2
64973	25	< 10	20	< 0.5	< 2
64974	20	< 10	21	< 0.5	< 2
64975	3	< 10	117	< 0.5	< 2
64976	10	< 10	58	< 0.5	< 2
64977	15	< 10	63	0.5	< 2
64978	11	< 10	43	< 0.5	< 2
64979	7	< 10	102	< 0.5	< 2
64980	82	< 10	14	< 0.5	< 2
64981	9	< 10	244	< 0.5	< 2
64982	< 2	< 10	171	< 0.5	< 2
64983	4	< 10	164	< 0.5	< 2
64984	< 2	< 10	203	< 0.5	< 2
64946	< 2	< 10	1220	< 0.5	< 2
64947	3	< 10	1230	< 0.5	2
64948	< 2	< 10	1010	< 0.5	< 2
64949	5	< 10	141	< 0.5	< 2
64950	2	< 10	197	< 0.5	< 2
64951	< 2	< 10	303	< 0.5	2
64952	< 2	< 10	166	0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	< 2	< 10	154	0.5	< 2
64954	< 2	< 10	172	0.5	< 2
64955	< 2	< 10	202	0.6	< 2
64956	5	< 10	458	0.8	< 2
64957	10	< 10	284	< 0.5	< 2
64958	4	< 10	287	< 0.5	< 2
64959	6	< 10	361	< 0.5	< 2
64960	2180	98	34	< 0.5	48
64961	6	< 10	76	< 0.5	< 2
64962	5	< 10	37	< 0.5	< 2
64963	6	< 10	45	< 0.5	< 2
64964	10	< 10	150	< 0.5	< 2
64965	60	< 10	240	0.5	< 2
64966	62	< 10	807	< 0.5	< 2
64967	84	< 10	431	< 0.5	< 2
64968	38	< 10	358	< 0.5	< 2
64903	17	< 10	433	0.5	< 2
64904	42	< 10	932	0.5	< 2
64905	26	< 10	26	< 0.5	< 2
64906	16	< 10	440	< 0.5	< 2
64907	867	< 10	331	0.5	< 2
64908	2060	< 10	275	< 0.5	< 2
64909	< 2	< 10	247	< 0.5	< 2
64910	< 2	< 10	323	< 0.5	< 2
64911	< 2	< 10	85	< 0.5	< 2
64912	8	< 10	61	< 0.5	< 2
64913	5	< 10	398	0.7	< 2
64914	< 2	< 10	239	< 0.5	< 2
64915	< 2	< 10	255	< 0.5	3
64916	2	< 10	396	< 0.5	3
64917	7	< 10	388	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	8	< 10	65	< 0.5	< 2
64919	3	< 10	264	< 0.5	< 2
64920	< 2	< 10	489	< 0.5	< 2
64921	< 2	< 10	330	< 0.5	< 2
64922	< 2	< 10	655	0.5	< 2
64923	< 2	< 10	803	< 0.5	< 2
64924	< 2	< 10	1060	< 0.5	< 2
64925	4	< 10	264	< 0.5	< 2
64926	19	< 10	384	0.5	< 2
64927	< 2	< 10	781	< 0.5	< 2
64928	4	< 10	781	< 0.5	< 2
64929	4	< 10	1040	0.5	< 2
64930	< 2	< 10	452	< 0.5	< 2
64931	3	< 10	364	< 0.5	< 2
64932	< 2	< 10	1350	< 0.5	< 2
64933	6	< 10	744	< 0.5	< 2
64934	< 2	< 10	580	< 0.5	< 2
64935	< 2	< 10	561	0.5	< 2
64936	3	< 10	496	0.5	< 2
64937	2	< 10	924	0.6	< 2
64938	< 2	< 10	928	0.6	< 2
64939	< 2	< 10	1560	0.5	< 2
64940	2250	83	38	< 0.5	51
64941	7	< 10	354	< 0.5	< 2
64942	10	< 10	77	< 0.5	< 2
64943	4	< 10	382	0.5	< 2
64944	3	< 10	794	< 0.5	< 2
64945	10	< 10	292	< 0.5	< 2
64584	15	< 10	102	< 0.5	< 2
64585	9	< 10	229	< 0.5	< 2
64586	< 2	< 10	721	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	11	< 10	134	< 0.5	< 2
64588	5	< 10	665	0.5	5
64589	< 2	< 10	1180	< 0.5	< 2
64590	< 2	< 10	569	0.5	< 2
64591	4	< 10	1500	< 0.5	< 2
64592	< 2	< 10	1670	0.6	< 2
64593	25	< 10	1200	< 0.5	< 2
64594	2	< 10	738	< 0.5	< 2
64595	< 2	< 10	208	< 0.5	< 2
64596	12	< 10	153	< 0.5	2
64597	8	< 10	315	< 0.5	< 2
64598	6	< 10	59	< 0.5	< 2
64551	6	< 10	392	< 0.5	< 2
64552	18	< 10	83	< 0.5	< 2
64553	3	< 10	97	< 0.5	< 2
64554	< 2	< 10	116	< 0.5	< 2
64555	< 2	< 10	205	< 0.5	< 2
64556	< 2	< 10	192	0.5	2
64557	< 2	< 10	217	< 0.5	< 2
64558	< 2	< 10	347	< 0.5	< 2
64559	7	< 10	17	< 0.5	< 2
64560	10	< 10	15	< 0.5	< 2
64561	5	< 10	44	< 0.5	< 2
64562	4	< 10	110	< 0.5	< 2
64563	39	< 10	17	< 0.5	< 2
64564	34	< 10	45	< 0.5	< 2
64565	< 2	< 10	676	< 0.5	< 2
64566	2	< 10	1350	< 0.5	< 2
64567	11	< 10	128	< 0.5	3
64568	< 2	< 10	229	< 0.5	< 2
64569	4	< 10	215	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	< 2	< 10	235	< 0.5	< 2
64571	4	< 10	211	< 0.5	< 2
64572	2	< 10	299	< 0.5	< 2
64573	< 2	< 10	159	< 0.5	< 2
64574	4	< 10	431	< 0.5	< 2
64575	< 2	< 10	408	< 0.5	< 2
64576	46	< 10	30	< 0.5	< 2
64577	16	< 10	127	< 0.5	< 2
64578	19	< 10	124	< 0.5	< 2
64579	29	< 10	44	< 0.5	< 2
64580	5	< 10	132	< 0.5	< 2
64581	70	< 10	24	< 0.5	2
64582	22	< 10	85	< 0.5	< 2
64583	17	< 10	137	< 0.5	< 2
64599	15	< 10	140	< 0.5	< 2
64600	2270	85	37	< 0.5	50
64601	17	< 10	291	< 0.5	< 2
64602	5	< 10	129	< 0.5	< 2
64603	6	< 10	236	< 0.5	< 2
64604	< 2	< 10	425	0.5	< 2
64605	7	< 10	326	< 0.5	< 2
64606	11	< 10	52	< 0.5	< 2
64607	3	< 10	93	< 0.5	< 2
64608	6	< 10	105	< 0.5	< 2
64609	3	< 10	184	< 0.5	< 2
64610	< 2	< 10	222	< 0.5	< 2
64611	6	< 10	471	< 0.5	< 2
64612	3	< 10	500	< 0.5	< 2
64613	7	< 10	275	< 0.5	< 2
64614	31	< 10	51	< 0.5	< 2
64615	59	< 10	349	0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	10	< 10	236	< 0.5	< 2
64617	42	< 10	324	< 0.5	< 2
64618	114	< 10	208	< 0.5	< 2
64619	222	< 10	153	< 0.5	< 2
64620	2220	94	36	< 0.5	52
64621	35	< 10	52	< 0.5	< 2
64639	36	< 10	45	< 0.5	< 2
64640	2230	93	36	< 0.5	50
64641	30	< 10	46	< 0.5	< 2
64642	15	< 10	43	< 0.5	< 2
64643	14	< 10	68	< 0.5	< 2
64644	< 2	< 10	413	< 0.5	< 2
64645	2	< 10	370	< 0.5	< 2
64646	< 2	< 10	226	< 0.5	< 2
64647	< 2	< 10	334	< 0.5	< 2
64648	8	< 10	41	< 0.5	< 2
GR21	16	< 10	49	< 0.5	< 2
GR22	< 2	< 10	47	< 0.5	< 2
GR23	9	< 10	< 10	< 0.5	< 2
GR24	3	< 10	20	< 0.5	< 2
GR25	14	< 10	< 10	< 0.5	< 2
GR26	< 2	< 10	50	< 0.5	< 2
GR27	< 2	< 10	28	< 0.5	3
GR28	5	< 10	62	< 0.5	< 2
GR29	4	< 10	356	1	< 2
GR30	< 2	< 10	16	< 0.5	< 2
GR31	5	< 10	45	< 0.5	8
GR32	5	< 10	28	< 0.5	< 2
GR33	9	< 10	13	< 0.5	< 2
GR34	19	< 10	27	< 0.5	26
GR35	3	< 10	32	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	6	< 10	43	< 0.5	< 2
GR37	< 2	< 10	106	< 0.5	< 2
GR38	3	< 10	24	< 0.5	< 2
GR39	3	< 10	21	< 0.5	3
GR40	16	< 10	< 10	< 0.5	2
GR41	17	< 10	< 10	< 0.5	< 2
GR42	216	< 10	88	< 0.5	< 2
GR43	10	< 10	< 10	< 0.5	3
AP-5	4	< 10	136	< 0.5	< 2
AP-6	< 2	< 10	554	< 0.5	< 2
AP-7	3	< 10	320	0.7	< 2
AP-8	< 2	< 10	174	0.9	< 2
AP-9	< 2	< 10	175	0.9	< 2
AP-10	< 2	< 10	12	0.6	< 2
AP-11	< 2	< 10	31	< 0.5	< 2
AP-12	< 2	< 10	461	< 0.5	3
AP-13	< 2	< 10	1130	0.7	< 2
AP-14	5	< 10	233	< 0.5	5
AP-15	2	< 10	78	< 0.5	< 2
AP-16	< 2	< 10	12	0.6	< 2
AP-17	3	< 10	642	0.6	< 2
PEK-1	6	< 10	260	0.5	< 2
PEK-2	< 2	< 10	1580	< 0.5	< 2
PEK-3	< 2	< 10	138	< 0.5	< 2
GRKM-01	< 2	< 10	104	< 0.5	< 2
RCKM-1	26	< 10	12	< 0.5	3
RCKM-2	45	< 10	< 10	< 0.5	< 2
RCKM-3	39	< 10	< 10	< 0.5	5
RCKM-4	58	< 10	< 10	< 0.5	11
RCKM-5	2	< 10	< 10	< 0.5	4
RCKM-6	< 2	< 10	466	0.8	< 2



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Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	9	< 10	< 10	< 0.5	< 2
RCKM-8	13	< 10	< 10	< 0.5	6
RCKM-9	4	< 10	396	< 0.5	< 2
RCKM-10	< 2	< 10	278	< 0.5	< 2
64622	53	< 10	21	< 0.5	< 2
64623	30	< 10	46	< 0.5	< 2
64624	19	< 10	32	< 0.5	< 2
64625	10	< 10	167	< 0.5	< 2
64626	< 2	< 10	366	< 0.5	< 2
64627	3	< 10	189	< 0.5	< 2
64628	< 2	< 10	273	< 0.5	< 2
64629	5	< 10	263	< 0.5	< 2
64630	< 2	< 10	299	< 0.5	< 2
64631	24	< 10	51	< 0.5	< 2
64632	< 2	< 10	297	< 0.5	< 2
64633	26	< 10	44	< 0.5	< 2
64634	25	< 10	82	< 0.5	< 2
64635	< 2	< 10	311	< 0.5	< 2
64636	2	< 10	674	< 0.5	< 2
64637	5	< 10	375	< 0.5	< 2
64638	3	< 10	212	< 0.5	< 2

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	3.66	24	12	5.92	< 10
65094	2.64	27	13	6.46	< 10
65095	3.23	23	6	7.07	< 10
65096	4.44	24	7	5.28	< 10
65097	4.41	25	8	5.61	< 10
65098	3.82	26	8	5.14	< 10
65099	3.91	25	7	5.08	< 10
65100	6.2	81	34	4.51	< 10
65101	4.12	24	7	5.31	< 10
65102	4.03	25	7	5.46	< 10
65103	4.22	24	5	5.08	< 10
65104	2.89	24	6	5.16	< 10
65105	4.54	24	8	5.26	< 10
65106	4.09	25	6	5.39	< 10
65107	4.13	25	8	5.48	< 10
65108	2.58	25	7	6.11	< 10
65109	3.12	24	6	5.99	< 10
65110	1.64	6	22	2.42	< 10
65111	3.91	26	7	6.05	< 10
65112	3.06	26	6	6.67	< 10
65113	2.71	23	8	6.87	< 10
65114	3.24	27	6	5.91	< 10
65115	3.27	24	6	5.31	< 10
65116	3.09	26	5	5.31	< 10
65117	3.29	25	7	5.95	< 10
65118	2.74	25	6	6.25	< 10
65119	3.19	27	8	5.38	< 10
65120	6.13	79	33	4.36	< 10
65121	3.53	24	6	5.14	< 10
65122	4.16	25	8	5.48	< 10
65123	4	24	6	5.14	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	4.19	25	8	5.15	< 10
65125	3.27	33	7	6.32	< 10
65126	3.21	27	8	5.36	< 10
65127	3.53	27	7	5.33	< 10
65128	6.73	19	11	4.09	< 10
65129	3.88	26	6	5.17	< 10
65130	1.4	9	20	2.76	< 10
65131	3.61	25	6	5.43	< 10
65132	3.7	25	8	5.12	< 10
65133	3.79	24	7	5.16	< 10
65134	3.24	23	8	5.46	< 10
65135	3.47	25	7	5.2	< 10
65136	3.21	25	7	5.94	< 10
65137	3.66	26	6	5.16	< 10
65138	3.3	22	7	4.99	< 10
65139	3.09	29	6	7.81	< 10
65140	6.19	82	34	4.46	< 10
65141	3.18	26	7	5.39	< 10
65142	3.67	24	6	6.03	< 10
65143	1.13	25	14	9.3	< 10
65144	3.49	29	87	5.69	10
65145	1.51	29	8	9.03	< 10
65146	3.28	26	10	6.01	< 10
65147	3.15	24	9	5.56	< 10
65148	1.85	23	6	6.35	< 10
65149	2.49	28	12	6.72	< 10
65150	2.21	5	13	2.31	< 10
65151	3.32	26	34	6.92	< 10
65152	1.05	40	33	11.4	10
65153	2.75	31	32	7.13	< 10
65154	3.21	32	36	6.56	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	3.2	33	26	6.42	< 10
65156	4	24	6	5.42	< 10
65157	2.8	24	8	7.41	< 10
65158	0.95	20	6	10	< 10
65159	0.77	10	10	8.71	< 10
65160	6.14	80	34	4.39	< 10
65161	0.48	24	6	10.5	< 10
65162	2.46	23	4	5.94	< 10
65163	0.57	33	25	11.2	< 10
65164	0.52	24	32	13.6	< 10
65165	2.73	31	39	7.6	< 10
65166	3.32	30	41	6.93	< 10
65167	0.06	8	12	7.84	< 10
65168	0.05	5	13	2.31	< 10
65169	0.03	4	14	5.27	< 10
65170	1.28	7	17	2.64	< 10
65171	0.02	7	10	8.98	< 10
65172	0.2	6	21	2.31	< 10
65173	0.04	4	16	3.24	< 10
65174	0.18	7	14	2.68	< 10
65175	0.15	7	21	3.54	< 10
65176	0.08	9	12	4.81	< 10
65177	0.09	7	20	2.23	< 10
65178	0.11	5	15	2.51	< 10
65179	0.2	6	6	2.24	< 10
65180	6.33	81	34	4.6	< 10
65181	0.05	5	10	4.26	< 10
65182	0.24	11	21	2.56	< 10
65183	1.63	28	55	6.18	10
65184	0.12	8	10	2.9	< 10
65185	0.17	5	16	1.93	< 10

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Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	0.32	7	14	3.47	< 10
65187	0.86	10	11	4.5	< 10
65188	0.99	5	11	2.35	< 10
65189	0.16	7	3	3.57	< 10
65190	1.22	6	16	2.15	< 10
65191	0.1	12	6	3.44	< 10
65192	0.1	24	5	5.3	< 10
65193	0.17	27	6	5.52	< 10
65194	0.99	9	3	2.3	< 10
65195	0.66	10	6	2.45	< 10
65196	0.11	8	9	9.95	< 10
65197	0.58	6	5	4.64	< 10
65198	1.13	5	3	2.47	< 10
65199	1.43	6	2	2.38	< 10
65200	6.18	82	34	4.47	< 10
65201	0.52	8	3	3.36	< 10
65202	0.28	10	2	3.06	< 10
65203	0.17	6	< 1	2.2	< 10
65204	0.14	6	5	1.74	< 10
65205	0.18	12	2	3.35	< 10
65206	1.26	10	4	2.9	< 10
65207	1.83	15	5	3.11	< 10
65208	2.54	12	2	1.34	< 10
64985	3.22	25	5	6.07	< 10
64986	3.74	29	6	6.42	< 10
64987	4.75	26	5	5.52	< 10
64988	1.93	30	6	7.67	< 10
64989	2.24	30	4	7.14	< 10
64990	1.66	7	15	2.83	< 10
64991	2.13	35	5	7.21	< 10
64992	3.43	27	5	5.85	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	2.52	32	5	6.55	< 10
64994	2.74	29	5	6.22	< 10
64995	3.57	25	5	5.71	< 10
64996	4.25	27	6	6.33	< 10
64997	3.59	28	6	5.72	< 10
64998	3.66	24	5	5.91	< 10
64999	3.23	32	7	6.41	< 10
65000	2.16	19	27	4.39	< 10
64969	0.55	23	11	8.93	< 10
64970	1.59	8	10	3.4	< 10
64971	2.48	26	18	7.96	10
64972	3.18	25	12	7.04	< 10
64973	1.68	31	14	8.16	< 10
64974	3.13	29	14	7.06	< 10
64975	2.69	29	81	5.14	10
64976	3.2	21	21	6.4	< 10
64977	3.15	22	5	5.06	< 10
64978	3.4	22	4	5.86	< 10
64979	3.39	24	5	5.49	< 10
64980	2.07	19	26	4.33	< 10
64981	3.79	24	4	5.39	< 10
64982	4.79	26	8	5.66	< 10
64983	5.03	26	9	6.05	< 10
64984	4.57	26	9	5.82	< 10
64946	3.12	31	13	6.04	< 10
64947	3.25	29	12	5.45	< 10
64948	3.42	30	13	6.09	< 10
64949	3.28	27	15	6.32	< 10
64950	1.67	7	14	2.91	< 10
64951	5.33	28	12	5.38	< 10
64952	3.03	29	14	5.95	< 10

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Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	3.03	30	14	6.79	< 10
64954	2.71	28	15	6.65	< 10
64955	1.56	31	7	5.42	< 10
64956	1.11	22	7	4.85	< 10
64957	1.88	24	7	4.69	< 10
64958	2.43	24	7	5.11	< 10
64959	4.03	30	14	5.88	< 10
64960	6.09	78	33	4.33	< 10
64961	4.61	29	9	5.33	< 10
64962	3.2	35	7	5.44	< 10
64963	3.71	36	7	5.46	< 10
64964	3.31	30	7	5.65	< 10
64965	3.55	25	7	5.64	< 10
64966	4.22	28	10	6.28	< 10
64967	3.97	29	9	6.01	< 10
64968	3.34	26	7	6.2	< 10
64903	1.13	24	5	5.47	< 10
64904	0.38	24	7	6.65	< 10
64905	2.85	29	7	5.86	< 10
64906	1.63	25	6	7.05	< 10
64907	1.7	26	6	6.53	< 10
64908	0.5	27	8	7.68	< 10
64909	0.53	21	6	10.4	< 10
64910	1.64	9	9	3.37	< 10
64911	0.61	28	7	12.9	10
64912	0.55	31	8	12.3	< 10
64913	1.26	22	11	6.77	< 10
64914	1.17	11	3	7.15	< 10
64915	2.79	10	4	4.73	< 10
64916	1.61	11	5	6.62	< 10
64917	0.88	19	5	10.7	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	0.39	42	6	5.49	< 10
64919	0.76	25	5	6.84	< 10
64920	0.92	15	4	6.11	< 10
64921	2.48	23	4	7.41	< 10
64922	2.43	19	5	5.92	< 10
64923	2.36	24	6	7.85	< 10
64924	3.57	19	7	6.04	< 10
64925	4.25	17	11	4.98	< 10
64926	2.77	20	14	5.25	< 10
64927	3.65	18	13	4.78	< 10
64928	3.65	20	14	5.12	< 10
64929	3.93	18	13	5.08	< 10
64930	2.6	17	12	5.04	< 10
64931	3.83	17	13	5.21	< 10
64932	3.81	17	12	5.16	< 10
64933	3.24	17	12	4.99	< 10
64934	3.89	17	12	4.9	< 10
64935	3.68	17	7	4.71	< 10
64936	3.56	14	4	4.07	< 10
64937	3.81	22	8	5.9	< 10
64938	3.68	23	8	5.53	< 10
64939	1.58	22	9	6.83	< 10
64940	7.57	69	30	4.56	< 10
64941	0.67	23	6	9.29	< 10
64942	3.79	21	3	6.25	< 10
64943	1.44	26	3	7.79	< 10
64944	2.77	25	3	6.78	10
64945	1.57	23	4	7.1	< 10
64584	5.65	24	24	5.38	< 10
64585	5.23	27	34	6.11	< 10
64586	5.33	27	24	6.17	< 10



**Final Report**  
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Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	4.44	27	34	6.24	< 10
64588	4.23	29	42	6.74	< 10
64589	3.73	28	37	6.63	< 10
64590	1.3	20	14	6.35	< 10
64591	3.03	19	4	6.01	10
64592	1.39	20	4	6.43	< 10
64593	0.69	21	4	6.37	< 10
64594	1.95	17	4	8.46	< 10
64595	1.22	16	4	8.17	< 10
64596	0.73	22	3	9.55	< 10
64597	0.77	20	4	6.58	< 10
64598	0.93	20	5	7.15	< 10
64551	3.94	22	6	5.64	< 10
64552	3.26	24	6	6.13	< 10
64553	1.56	52	5	7.49	< 10
64554	1.79	60	5	7.25	< 10
64555	5.32	22	12	5.5	< 10
64556	5.17	22	10	5.85	< 10
64557	4.39	20	10	5.39	< 10
64558	2.73	24	15	5.84	< 10
64559	1.56	20	11	6.81	< 10
64560	0.91	21	11	9.04	< 10
64561	4.56	16	15	5.8	< 10
64562	3.63	18	12	5.45	< 10
64563	1.75	23	14	7.09	< 10
64564	3.85	20	9	5.99	< 10
64565	6.08	14	8	5	< 10
64566	4.7	18	9	5.66	< 10
64567	3.84	20	10	5.69	< 10
64568	5.34	18	10	5.41	< 10
64569	4.78	22	9	5.71	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	4.74	21	9	5.45	< 10
64571	4.38	21	8	5.49	< 10
64572	4.01	21	4	5.33	< 10
64573	5.08	20	5	5.05	< 10
64574	4.52	21	5	5.51	< 10
64575	5.04	22	8	5.51	< 10
64576	1.52	25	11	9.26	< 10
64577	4.15	27	22	6.44	< 10
64578	3.01	23	18	7.22	< 10
64579	0.58	26	8	11.1	< 10
64580	1.38	26	15	8.34	< 10
64581	1.01	27	11	10.2	< 10
64582	3.47	26	25	6.88	< 10
64583	5.68	26	21	5.82	< 10
64599	3	17	6	6.26	< 10
64600	7.69	72	30	4.63	< 10
64601	1.6	23	8	6.93	< 10
64602	2.85	23	8	6.76	10
64603	3.47	22	7	6.6	< 10
64604	3.08	24	5	6.54	< 10
64605	3.73	24	5	6.19	< 10
64606	2.15	13	3	4.43	< 10
64607	4.06	24	11	5.6	< 10
64608	3.07	27	11	5.87	< 10
64609	1.77	26	12	6.28	< 10
64610	2.01	6	11	3.02	< 10
64611	0.57	16	4	4.45	< 10
64612	0.66	11	3	3.46	< 10
64613	0.33	23	2	7.46	< 10
64614	1.24	18	5	5.71	< 10
64615	1.78	24	8	6.04	< 10

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**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	3.23	22	9	5.72	< 10
64617	3.6	23	10	6.26	< 10
64618	2.03	23	13	6.15	< 10
64619	1.75	30	13	6.59	< 10
64620	7.39	73	29	4.33	< 10
64621	2.93	25	13	6.72	< 10
64639	4.75	27	12	6.37	< 10
64640	7.26	72	29	4.34	< 10
64641	4.57	23	7	5.83	< 10
64642	4.89	27	8	6.28	< 10
64643	5.48	29	8	5.85	< 10
64644	4.56	22	11	5.94	< 10
64645	4.56	25	15	6.6	< 10
64646	4.72	22	9	6.08	< 10
64647	3.34	22	11	6.72	< 10
64648	3.17	24	10	6.41	< 10
GR21	0.05	3	11	1.78	< 10
GR22	0.11	4	22	1.65	< 10
GR23	< 0.01	14	5	3.69	< 10
GR24	0.02	< 1	15	1.61	< 10
GR25	0.01	26	7	3.09	< 10
GR26	0.04	6	8	4.57	< 10
GR27	0.01	2	15	1.61	< 10
GR28	0.01	10	21	3.18	< 10
GR29	0.38	15	14	4.92	10
GR30	0.02	1	24	1	< 10
GR31	< 0.01	1	11	2.56	< 10
GR32	< 0.01	7	21	1.26	< 10
GR33	0.02	36	10	5.12	< 10
GR34	0.01	1	19	4.39	< 10
GR35	0.02	6	15	1.85	< 10

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**Activation Laboratories**

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Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	0.01	12	15	1.54	< 10
GR37	0.04	16	17	2.64	< 10
GR38	0.01	1	22	0.9	< 10
GR39	0.87	10	16	1.48	< 10
GR40	0.01	16	10	10.7	< 10
GR41	0.02	22	15	6.65	< 10
GR42	0.16	6	11	2.28	< 10
GR43	< 0.01	32	13	6.69	< 10
AP-5	3.06	21	8	3.26	< 10
AP-6	> 10.0	12	2	6.15	< 10
AP-7	1.6	11	7	3.34	< 10
AP-8	2.8	17	28	4.94	10
AP-9	1.72	15	5	4.27	< 10
AP-10	0.05	29	5	4.86	< 10
AP-11	0.07	11	4	5.42	< 10
AP-12	0.03	5	2	7.51	< 10
AP-13	0.18	9	4	3.29	< 10
AP-14	0.15	8	6	2.96	< 10
AP-15	5.78	2	10	0.53	< 10
AP-16	0.09	9	2	3.43	< 10
AP-17	0.44	28	3	6.68	< 10
PEK-1	3.95	13	7	3.26	< 10
PEK-2	> 10.0	3	3	1.07	< 10
PEK-3	2.16	4	8	1.87	< 10
GRKM-01	0.3	4	19	1.44	< 10
RCKM-1	0.04	14	9	8.09	< 10
RCKM-2	0.06	17	8	8.54	< 10
RCKM-3	0.02	122	5	8.22	< 10
RCKM-4	0.02	110	16	7.68	< 10
RCKM-5	0.17	102	8	12.5	< 10
RCKM-6	0.44	16	17	10.7	10

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Report Date: 8/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	0.09	112	11	13.3	< 10
RCKM-8	0.14	289	3	17.8	< 10
RCKM-9	0.47	19	4	11.4	< 10
RCKM-10	0.64	7	4	4.42	< 10
64622	1.11	33	8	6.83	< 10
64623	4.31	26	9	6.53	< 10
64624	0.6	20	8	6	< 10
64625	1.49	21	4	5.83	< 10
64626	3.19	10	1	3.57	< 10
64627	2.35	12	< 1	3.85	< 10
64628	0.79	10	< 1	3.3	< 10
64629	0.53	23	8	9.31	< 10
64630	1.5	6	12	2.97	< 10
64631	0.41	28	8	9.93	< 10
64632	0.5	19	8	9.25	< 10
64633	0.46	25	8	8.76	< 10
64634	0.4	27	9	9.76	< 10
64635	0.46	18	9	10.2	10
64636	0.82	23	7	8.09	< 10
64637	0.58	23	9	10.9	10
64638	0.58	29	7	7.27	10

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	< 1	0.4	< 10	2.13	0.034
65094	2	0.42	< 10	2.38	0.031
65095	< 1	0.36	< 10	1.95	0.024
65096	< 1	0.4	11	2.2	0.035
65097	< 1	0.32	< 10	2.16	0.033
65098	< 1	0.24	< 10	2.36	0.035
65099	< 1	0.29	< 10	2.32	0.033
65100	< 1	0.07	18	0.36	0.129
65101	< 1	0.31	< 10	2.15	0.033
65102	< 1	0.3	< 10	2.32	0.038
65103	< 1	0.28	< 10	2.46	0.034
65104	< 1	0.28	< 10	2.38	0.035
65105	< 1	0.5	< 10	1.84	0.047
65106	< 1	0.34	< 10	2.04	0.034
65107	< 1	0.51	< 10	2.27	0.056
65108	2	0.34	< 10	2.68	0.04
65109	1	0.29	< 10	2.63	0.041
65110	< 1	0.41	14	0.64	0.127
65111	< 1	0.29	< 10	2.31	0.034
65112	2	0.33	< 10	2.25	0.032
65113	< 1	0.36	< 10	2.45	0.034
65114	< 1	0.42	< 10	2.16	0.044
65115	< 1	0.31	< 10	2.63	0.037
65116	< 1	0.37	< 10	2.47	0.04
65117	< 1	0.36	< 10	2.22	0.038
65118	3	0.44	< 10	2.28	0.043
65119	< 1	0.42	< 10	2.51	0.047
65120	< 1	0.07	18	0.35	0.125
65121	< 1	0.32	< 10	2.45	0.041
65122	< 1	0.47	< 10	2.24	0.034
65123	< 1	0.53	< 10	1.67	0.055

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	< 1	0.44	< 10	2.24	0.04
65125	2	0.51	< 10	2.17	0.04
65126	1	0.48	< 10	2.39	0.042
65127	2	0.54	< 10	2.13	0.047
65128	< 1	0.35	< 10	1.59	0.04
65129	< 1	0.54	< 10	1.88	0.047
65130	< 1	0.79	15	0.82	0.155
65131	5	0.53	< 10	1.98	0.039
65132	< 1	0.52	< 10	2.08	0.041
65133	< 1	0.48	< 10	2.05	0.037
65134	< 1	0.58	< 10	2.14	0.045
65135	< 1	0.49	< 10	1.93	0.039
65136	6	0.53	< 10	1.94	0.038
65137	< 1	0.65	< 10	1.99	0.051
65138	< 1	0.52	< 10	1.69	0.035
65139	2	0.47	< 10	2.6	0.039
65140	< 1	0.07	18	0.36	0.126
65141	< 1	0.65	< 10	2.32	0.053
65142	< 1	0.72	< 10	1.9	0.05
65143	2	0.55	< 10	2.53	0.032
65144	< 1	0.1	12	2.55	0.08
65145	< 1	1.31	< 10	2.61	0.05
65146	< 1	0.5	< 10	2.72	0.044
65147	< 1	0.41	< 10	2.74	0.041
65148	4	0.45	< 10	2.66	0.043
65149	5	0.34	< 10	3.32	0.037
65150	< 1	0.47	10	0.75	0.166
65151	< 1	0.2	< 10	3.78	0.026
65152	3	0.12	< 10	4.03	0.019
65153	3	0.17	< 10	3.99	0.03
65154	1	0.26	< 10	4.29	0.056

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	1	0.34	< 10	3.48	0.033
65156	< 1	0.52	< 10	2.1	0.061
65157	4	0.54	10	2.27	0.059
65158	2	0.62	< 10	1.93	0.037
65159	4	0.74	< 10	1.47	0.042
65160	< 1	0.07	18	0.35	0.126
65161	2	0.39	< 10	1.87	0.017
65162	3	0.43	< 10	2.29	0.029
65163	< 1	0.25	< 10	2.97	0.019
65164	1	0.22	< 10	2.82	0.017
65165	< 1	0.12	< 10	4.08	0.025
65166	2	0.1	< 10	4.18	0.04
65167	2	0.27	< 10	0.26	0.026
65168	< 1	0.36	11	0.14	0.029
65169	3	0.34	12	0.1	0.029
65170	< 1	0.85	24	0.76	0.114
65171	3	0.34	< 10	0.15	0.03
65172	< 1	0.3	20	0.32	0.027
65173	1	0.34	17	0.28	0.027
65174	< 1	0.37	21	0.26	0.037
65175	< 1	0.28	15	0.44	0.035
65176	< 1	0.3	11	0.18	0.026
65177	< 1	0.3	17	0.21	0.034
65178	< 1	0.26	19	0.49	0.038
65179	< 1	0.51	22	0.57	0.042
65180	< 1	0.08	19	0.36	0.137
65181	2	0.36	15	0.26	0.029
65182	< 1	0.29	22	0.55	0.038
65183	2	0.08	22	2.57	0.065
65184	< 1	0.48	21	0.28	0.042
65185	< 1	0.33	20	0.45	0.05



**Final Report**  
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Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	< 1	0.45	16	0.32	0.031
65187	3	0.44	11	0.28	0.038
65188	< 1	0.45	16	0.3	0.04
65189	< 1	0.5	21	0.12	0.029
65190	< 1	0.49	13	0.56	0.103
65191	2	0.34	16	0.11	0.055
65192	3	0.32	< 10	0.07	0.062
65193	2	0.43	< 10	0.14	0.052
65194	< 1	0.5	19	0.45	0.054
65195	< 1	0.3	18	0.53	0.071
65196	10	0.38	< 10	0.19	0.042
65197	2	0.47	11	0.55	0.054
65198	< 1	0.51	21	0.39	0.039
65199	1	0.43	16	0.5	0.044
65200	< 1	0.08	18	0.35	0.133
65201	2	0.54	18	0.26	0.042
65202	1	0.52	26	0.69	0.045
65203	< 1	0.23	12	0.64	0.041
65204	< 1	0.23	15	0.47	0.04
65205	< 1	0.59	24	0.13	0.05
65206	< 1	0.49	17	0.58	0.059
65207	< 1	0.48	13	0.94	0.04
65208	< 1	0.54	25	0.39	0.075
64985	< 1	0.5	12	1.85	0.025
64986	< 1	0.35	11	1.78	0.028
64987	< 1	0.48	12	2.11	0.033
64988	2	0.43	11	2.29	0.024
64989	4	0.52	11	2.02	0.021
64990	< 1	0.55	13	0.74	0.137
64991	1	0.53	< 10	1.81	0.018
64992	< 1	0.5	11	1.69	0.023

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	5	0.52	< 10	1.91	0.021
64994	< 1	0.44	12	2.54	0.028
64995	< 1	0.51	< 10	1.81	0.028
64996	2	0.52	11	2.22	0.028
64997	< 1	0.59	< 10	1.9	0.032
64998	2	0.47	10	2.17	0.032
64999	< 1	0.41	10	2.43	0.024
65000	< 1	0.16	< 10	1.3	0.254
64969	< 1	0.21	< 10	2.65	0.018
64970	< 1	1.04	< 10	0.77	0.078
64971	2	0.2	< 10	2.31	0.019
64972	1	0.41	< 10	1.97	0.028
64973	< 1	0.46	< 10	2.17	0.022
64974	2	0.57	< 10	1.88	0.029
64975	< 1	0.05	13	2.54	0.071
64976	3	0.47	< 10	2.6	0.026
64977	< 1	0.75	< 10	1.58	0.034
64978	< 1	0.61	< 10	1.72	0.035
64979	< 1	0.56	< 10	1.83	0.041
64980	1	0.16	< 10	1.26	0.242
64981	< 1	0.54	10	2.15	0.042
64982	< 1	0.42	< 10	1.99	0.039
64983	< 1	0.39	< 10	2.17	0.041
64984	2	0.34	< 10	2.53	0.042
64946	2	0.48	< 10	3.11	0.05
64947	< 1	0.35	< 10	2.63	0.043
64948	1	0.45	< 10	3.16	0.054
64949	2	0.39	< 10	3.02	0.045
64950	< 1	0.6	11	0.79	0.132
64951	< 1	0.42	< 10	3.24	0.026
64952	2	0.59	11	3.07	0.025

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	< 1	0.55	< 10	2.69	0.024
64954	1	0.59	< 10	2.41	0.023
64955	< 1	0.58	12	1.65	0.03
64956	< 1	0.97	14	1.04	0.038
64957	< 1	0.72	12	1.11	0.036
64958	< 1	0.61	< 10	1.36	0.042
64959	< 1	0.35	< 10	2.77	0.05
64960	< 1	0.07	19	0.34	0.138
64961	< 1	0.54	< 10	1.85	0.035
64962	3	0.49	< 10	1.8	0.033
64963	< 1	0.49	< 10	1.89	0.034
64964	< 1	0.4	< 10	2.28	0.033
64965	2	0.47	11	2.75	0.036
64966	2	0.35	< 10	2.55	0.044
64967	< 1	0.5	< 10	2.7	0.048
64968	< 1	0.35	11	2.86	0.041
64903	< 1	0.64	13	1.89	0.04
64904	3	0.71	13	1.7	0.041
64905	< 1	0.49	< 10	1.53	0.023
64906	3	0.37	11	1.96	0.026
64907	< 1	0.58	11	1.95	0.031
64908	< 1	0.35	< 10	2.25	0.029
64909	< 1	0.38	11	2.95	0.028
64910	< 1	1.18	13	1.32	0.125
64911	3	0.33	< 10	2.77	0.025
64912	< 1	0.25	< 10	3.18	0.02
64913	2	0.47	13	2.57	0.043
64914	< 1	0.35	14	0.97	0.034
64915	< 1	0.38	16	0.63	0.043
64916	< 1	0.26	15	1.05	0.052
64917	2	0.47	< 10	1.93	0.035

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	< 1	0.59	< 10	0.77	0.026
64919	3	0.46	14	1.06	0.045
64920	< 1	0.49	15	1.14	0.053
64921	< 1	0.43	10	2.5	0.034
64922	< 1	0.41	10	1.81	0.04
64923	5	0.47	12	2	0.041
64924	< 1	0.51	12	1.45	0.047
64925	< 1	0.23	15	1.48	0.073
64926	< 1	0.23	15	1.54	0.076
64927	< 1	0.28	13	1.59	0.08
64928	< 1	0.26	13	1.84	0.078
64929	< 1	0.32	14	1.62	0.08
64930	< 1	0.2	10	2.74	0.057
64931	< 1	0.21	11	2.9	0.061
64932	< 1	0.2	< 10	2.85	0.068
64933	< 1	0.33	11	2.56	0.068
64934	< 1	0.36	12	1.96	0.067
64935	< 1	0.57	12	1.97	0.042
64936	< 1	0.67	12	1.47	0.043
64937	< 1	0.63	< 10	2.07	0.042
64938	< 1	0.74	11	1.65	0.044
64939	2	0.64	< 10	2.03	0.044
64940	< 1	0.08	19	0.36	0.136
64941	< 1	0.37	< 10	2.71	0.031
64942	< 1	0.38	10	1.99	0.039
64943	1	0.38	< 10	3.29	0.03
64944	1	0.35	10	3.09	0.044
64945	< 1	0.45	< 10	1.97	0.034
64584	< 1	0.33	< 10	2.78	0.033
64585	< 1	0.27	< 10	3.25	0.029
64586	< 1	0.31	< 10	3.37	0.047

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	< 1	0.45	< 10	3.39	0.13
64588	< 1	0.92	< 10	3.6	0.233
64589	< 1	1.85	< 10	3.38	0.225
64590	< 1	0.55	13	2.42	0.047
64591	< 1	0.3	10	3.15	0.064
64592	< 1	0.75	14	1.91	0.069
64593	< 1	0.58	12	1.39	0.045
64594	< 1	0.38	10	2.11	0.053
64595	2	0.26	< 10	2.04	0.046
64596	< 1	0.36	< 10	2.09	0.039
64597	< 1	0.49	14	2.05	0.036
64598	< 1	0.41	< 10	2.11	0.029
64551	< 1	0.45	10	2.22	0.033
64552	< 1	0.39	< 10	2.52	0.019
64553	4	0.4	10	1.42	0.035
64554	< 1	0.59	12	1.44	0.029
64555	< 1	0.32	< 10	2.03	0.035
64556	< 1	0.39	< 10	2.1	0.039
64557	< 1	0.41	< 10	1.99	0.044
64558	< 1	0.23	< 10	2.22	0.028
64559	9	0.4	< 10	1.96	0.023
64560	7	0.39	< 10	2.17	0.019
64561	2	0.41	< 10	1.59	0.021
64562	< 1	0.52	< 10	1.82	0.03
64563	10	0.35	< 10	2.2	0.022
64564	2	0.34	< 10	1.96	0.029
64565	< 1	0.52	< 10	1.17	0.037
64566	< 1	0.45	< 10	1.71	0.048
64567	2	0.4	< 10	1.98	0.029
64568	< 1	0.58	< 10	1.67	0.037
64569	< 1	0.49	< 10	1.99	0.037

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	< 1	0.58	< 10	1.87	0.035
64571	< 1	0.53	< 10	1.87	0.029
64572	< 1	0.47	< 10	2.19	0.031
64573	< 1	0.47	< 10	1.9	0.034
64574	< 1	0.49	< 10	1.83	0.035
64575	1	0.42	< 10	1.96	0.034
64576	2	0.41	< 10	2.17	0.022
64577	< 1	0.37	< 10	2.84	0.034
64578	< 1	0.35	< 10	2.62	0.032
64579	< 1	0.4	< 10	2.32	0.02
64580	4	0.38	11	2.6	0.02
64581	< 1	0.38	< 10	2.32	0.018
64582	2	0.24	< 10	3.17	0.038
64583	< 1	0.24	< 10	2.93	0.038
64599	1	0.32	< 10	1.86	0.021
64600	< 1	0.08	20	0.36	0.137
64601	< 1	0.32	11	2.38	0.026
64602	< 1	0.35	< 10	2.32	0.031
64603	2	0.48	10	2.26	0.03
64604	< 1	0.39	13	2.9	0.035
64605	< 1	0.49	< 10	2.32	0.028
64606	5	0.54	< 10	1.42	0.021
64607	< 1	0.27	< 10	2.17	0.023
64608	< 1	0.28	< 10	2.18	0.025
64609	< 1	0.35	12	2.5	0.029
64610	< 1	0.61	14	0.81	0.085
64611	< 1	0.48	16	1.66	0.038
64612	< 1	0.56	16	1.19	0.034
64613	< 1	0.55	19	2.15	0.036
64614	< 1	0.52	< 10	2.03	0.024
64615	< 1	0.49	11	2.76	0.03

**Final Report**  
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Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	< 1	0.5	11	2.58	0.031
64617	< 1	0.53	10	2.49	0.035
64618	< 1	0.44	< 10	2.37	0.03
64619	4	0.43	< 10	2.61	0.028
64620	< 1	0.07	18	0.36	0.129
64621	3	0.53	12	2.33	0.031
64639	1	0.3	< 10	2.45	0.036
64640	< 1	0.07	18	0.36	0.126
64641	2	0.53	11	1.35	0.034
64642	3	0.61	12	1.9	0.039
64643	< 1	0.52	15	1.88	0.036
64644	1	0.49	11	1.97	0.052
64645	2	0.37	< 10	2.39	0.056
64646	< 1	0.4	12	1.99	0.05
64647	2	0.45	< 10	2.51	0.077
64648	3	0.51	< 10	2.25	0.033
GR21	< 1	0.19	< 10	0.04	0.031
GR22	< 1	0.2	11	0.21	0.067
GR23	10	0.02	< 10	< 0.01	0.03
GR24	< 1	0.05	< 10	0.01	0.046
GR25	15	0.1	< 10	0.01	0.022
GR26	< 1	0.21	< 10	0.21	0.121
GR27	< 1	0.05	< 10	0.02	0.027
GR28	< 1	0.24	< 10	0.03	0.031
GR29	2	0.47	38	1.73	0.1
GR30	< 1	0.05	< 10	0.02	0.031
GR31	2	0.16	< 10	0.02	0.03
GR32	< 1	0.1	< 10	0.01	0.03
GR33	< 1	0.05	< 10	< 0.01	0.025
GR34	< 1	0.07	11	< 0.01	0.041
GR35	< 1	0.09	16	0.01	0.02

**Final Report**  
**Activation Laboratories**

Report Number: A17-08614

Report Date: 8/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	< 1	0.12	< 10	0.01	0.015
GR37	< 1	0.38	< 10	0.04	0.024
GR38	< 1	0.11	< 10	0.01	0.019
GR39	< 1	0.05	< 10	0.01	0.021
GR40	3	0.2	< 10	0.02	0.016
GR41	< 1	0.21	< 10	0.02	0.018
GR42	< 1	0.3	11	0.07	0.028
GR43	< 1	0.22	< 10	0.02	0.015
AP-5	< 1	0.07	13	1	0.139
AP-6	< 1	0.62	< 10	0.26	0.044
AP-7	< 1	0.68	17	0.87	0.069
AP-8	< 1	0.48	42	1.53	0.076
AP-9	< 1	0.4	18	1.21	0.074
AP-10	< 1	0.59	13	0.21	0.052
AP-11	< 1	0.7	16	0.2	0.07
AP-12	2	0.78	21	0.17	0.072
AP-13	< 1	0.58	32	0.21	0.073
AP-14	12	0.63	15	0.4	0.025
AP-15	2	0.01	< 10	0.12	0.022
AP-16	< 1	1.02	12	0.24	0.035
AP-17	2	0.72	11	1.62	0.06
PEK-1	< 1	0.14	< 10	0.78	0.067
PEK-2	1	0.34	10	0.27	0.046
PEK-3	< 1	0.05	< 10	0.23	0.15
GRKM-01	< 1	0.12	< 10	0.48	0.079
RCKM-1	2	0.22	< 10	0.32	0.021
RCKM-2	2	0.3	24	0.1	0.024
RCKM-3	< 1	0.43	< 10	0.03	0.018
RCKM-4	< 1	0.12	< 10	0.01	0.023
RCKM-5	< 1	0.74	< 10	1.48	0.026
RCKM-6	< 1	1.29	14	3.26	0.216



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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	2	0.36	< 10	1.62	0.024
RCKM-8	< 1	0.44	< 10	0.88	0.017
RCKM-9	< 1	0.33	< 10	1.94	0.026
RCKM-10	< 1	0.44	13	0.86	0.029
64622	2	0.58	< 10	1.83	0.018
64623	4	0.4	< 10	1.9	0.024
64624	4	0.54	11	1.48	0.022
64625	< 1	0.55	< 10	1.57	0.026
64626	< 1	0.43	14	0.5	0.06
64627	< 1	0.36	16	0.57	0.049
64628	< 1	0.56	16	0.41	0.059
64629	1	0.31	< 10	2.36	0.021
64630	< 1	0.84	14	0.83	0.19
64631	1	0.26	< 10	2.52	0.018
64632	1	0.21	< 10	2.88	0.021
64633	2	0.22	< 10	2.39	0.018
64634	< 1	0.17	< 10	2.5	0.016
64635	2	0.18	< 10	2.94	0.018
64636	2	0.22	< 10	2.95	0.03
64637	2	0.23	< 10	3.36	0.026
64638	< 1	0.3	< 10	3.67	0.033

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Report Number: A17-08614

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	0.1	0.05	4	8	195
65094	0.115	0.1	4	7	375
65095	0.109	0.77	4	7	83
65096	0.111	0.01	2	8	159
65097	0.107	< 0.01	2	8	168
65098	0.106	< 0.01	5	11	228
65099	0.115	< 0.01	2	11	279
65100	0.106	0.45	8	3	115
65101	0.113	< 0.01	5	11	312
65102	0.115	< 0.01	4	9	161
65103	0.105	< 0.01	3	8	152
65104	0.107	0.05	4	8	127
65105	0.11	0.15	3	9	165
65106	0.115	< 0.01	2	9	173
65107	0.113	< 0.01	4	11	185
65108	0.117	0.02	3	9	123
65109	0.112	< 0.01	3	9	158
65110	0.07	0.01	< 2	5	212
65111	0.106	0.46	2	8	143
65112	0.114	1.66	5	8	113
65113	0.12	1.44	5	8	99
65114	0.116	0.86	4	9	148
65115	0.112	0.24	< 2	9	144
65116	0.112	0.79	2	8	131
65117	0.115	2.01	5	8	143
65118	0.113	1.99	3	9	117
65119	0.117	0.11	4	11	240
65120	0.104	0.44	10	3	111
65121	0.118	0.02	3	10	321
65122	0.114	0.95	4	9	166
65123	0.114	0.47	4	10	201

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	0.109	0.26	5	13	323
65125	0.119	2.16	5	10	192
65126	0.116	0.3	< 2	13	271
65127	0.12	0.55	5	12	251
65128	0.094	< 0.01	8	9	478
65129	0.115	< 0.01	2	10	224
65130	0.086	0.04	< 2	5	180
65131	0.116	1.12	3	9	190
65132	0.113	< 0.01	2	10	198
65133	0.109	< 0.01	3	8	146
65134	0.114	0.23	4	9	137
65135	0.122	0.02	< 2	8	125
65136	0.105	1.31	4	7	99
65137	0.105	< 0.01	< 2	9	128
65138	0.105	< 0.01	2	7	113
65139	0.099	0.65	3	8	107
65140	0.107	0.45	9	3	114
65141	0.113	0.01	3	9	121
65142	0.109	0.16	4	9	105
65143	0.086	1.05	3	12	45
65144	0.164	0.16	5	12	202
65145	0.111	1.3	5	16	61
65146	0.112	0.84	3	13	105
65147	0.11	0.27	3	11	111
65148	0.114	0.66	< 2	10	70
65149	0.106	0.82	5	13	88
65150	0.076	0.01	< 2	5	170
65151	0.076	0.18	2	18	83
65152	0.073	3.69	6	18	32
65153	0.077	0.71	4	19	71
65154	0.08	0.26	5	24	91

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	0.086	0.92	4	16	112
65156	0.109	0.07	< 2	9	187
65157	0.108	0.08	3	10	109
65158	0.108	1.23	4	9	46
65159	0.113	0.06	6	9	101
65160	0.104	0.44	8	3	113
65161	0.092	4.07	8	6	16
65162	0.119	0.11	4	10	89
65163	0.091	3.14	6	13	26
65164	0.069	5.72	4	15	24
65165	0.081	0.38	< 2	21	186
65166	0.086	0.02	4	25	177
65167	0.036	7.04	10	2	13
65168	0.024	1.67	3	2	9
65169	0.051	2.97	6	1	12
65170	0.084	< 0.01	< 2	6	157
65171	0.047	6.06	14	1	13
65172	0.049	1.37	4	1	7
65173	0.048	1.1	4	1	10
65174	0.048	0.66	3	2	13
65175	0.042	1.71	4	2	11
65176	0.04	4.47	8	1	5
65177	0.047	1.15	< 2	1	7
65178	0.051	0.58	2	2	10
65179	0.056	0.47	2	2	13
65180	0.107	0.46	10	3	116
65181	0.037	2.22	6	1	7
65182	0.059	0.55	< 2	3	13
65183	0.193	0.01	3	9	102
65184	0.047	1.06	3	2	19
65185	0.05	0.25	< 2	2	14

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	0.047	2.16	6	2	20
65187	0.045	3.63	6	2	44
65188	0.05	1.14	5	2	49
65189	0.052	1.42	7	1	22
65190	0.059	0.03	< 2	4	142
65191	0.046	2.4	10	1	19
65192	0.044	5.08	13	1	10
65193	0.047	4.76	10	1	17
65194	0.055	0.89	5	2	74
65195	0.052	0.88	3	2	62
65196	0.044	10.4	16	2	6
65197	0.054	3.24	6	2	26
65198	0.055	1.08	3	2	53
65199	0.052	1.18	4	2	74
65200	0.105	0.45	9	3	114
65201	0.056	2.49	5	2	30
65202	0.111	0.12	3	3	18
65203	0.073	< 0.01	< 2	3	8
65204	0.056	0.02	< 2	2	10
65205	0.081	0.04	3	4	26
65206	0.074	0.47	3	3	40
65207	0.081	0.47	< 2	3	49
65208	0.069	0.09	< 2	3	66
64985	0.135	1.23	4	10	105
64986	0.137	1.55	6	10	133
64987	0.134	0.06	4	9	185
64988	0.135	2.9	4	9	54
64989	0.129	3.49	5	9	66
64990	0.08	0.1	3	5	181
64991	0.131	3.61	5	9	70
64992	0.129	0.72	3	9	123

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	0.137	1.7	4	9	73
64994	0.14	0.35	3	10	93
64995	0.128	0.33	3	9	125
64996	0.145	0.32	3	9	154
64997	0.134	0.23	5	10	156
64998	0.131	0.14	5	10	126
64999	0.131	0.85	5	11	119
65000	0.04	2.27	163	4	94
64969	0.123	0.78	3	13	30
64970	0.069	0.01	< 2	4	71
64971	0.12	0.75	5	15	112
64972	0.13	0.61	4	14	191
64973	0.095	2.41	4	10	74
64974	0.091	2.57	3	11	102
64975	0.148	0.15	3	9	175
64976	0.098	0.81	4	12	106
64977	0.106	0.85	5	8	99
64978	0.102	1.37	6	7	106
64979	0.104	0.73	4	8	108
64980	0.039	2.17	169	4	90
64981	0.108	0.23	5	7	124
64982	0.095	0.06	3	10	143
64983	0.096	0.42	3	11	167
64984	0.095	0.02	3	11	131
64946	0.102	0.04	3	12	237
64947	0.094	0.04	4	9	250
64948	0.099	0.03	3	13	229
64949	0.098	0.05	< 2	14	113
64950	0.079	0.05	2	5	197
64951	0.073	0.01	5	11	225
64952	0.102	0.02	6	12	108

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	0.097	0.17	4	12	108
64954	0.095	0.02	3	11	103
64955	0.14	0.02	4	13	194
64956	0.162	0.03	2	10	66
64957	0.143	0.04	3	9	73
64958	0.132	0.07	3	11	90
64959	0.105	0.13	4	18	177
64960	0.1	0.43	9	3	113
64961	0.11	1	2	10	127
64962	0.126	1.52	7	10	96
64963	0.136	1.3	4	10	114
64964	0.126	0.26	2	9	92
64965	0.111	0.01	3	11	130
64966	0.104	0.02	3	10	261
64967	0.102	0.01	2	11	181
64968	0.11	0.01	< 2	10	143
64903	0.131	< 0.01	3	8	35
64904	0.144	0.06	4	9	31
64905	0.131	1.54	3	9	81
64906	0.123	0.12	4	9	137
64907	0.136	0.03	< 2	10	158
64908	0.138	0.2	3	10	47
64909	0.131	0.04	3	13	30
64910	0.121	< 0.01	3	7	212
64911	0.122	0.59	6	11	16
64912	0.118	0.77	7	11	12
64913	0.156	0.03	2	12	72
64914	0.153	< 0.01	3	7	59
64915	0.149	0.02	4	7	182
64916	0.143	< 0.01	4	8	278
64917	0.143	0.09	4	9	38

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	0.095	0.87	4	4	15
64919	0.129	0.3	6	5	51
64920	0.131	0.02	4	5	72
64921	0.123	< 0.01	5	10	193
64922	0.117	0.02	3	10	248
64923	0.129	0.01	7	8	175
64924	0.12	0.08	6	8	280
64925	0.125	0.03	4	13	132
64926	0.134	0.02	8	14	216
64927	0.126	0.02	4	13	320
64928	0.136	0.03	6	13	271
64929	0.126	0.02	3	13	263
64930	0.11	< 0.01	3	11	67
64931	0.113	0.03	3	11	78
64932	0.113	0.02	< 2	10	134
64933	0.116	0.03	4	11	113
64934	0.117	0.1	3	10	121
64935	0.106	0.04	4	8	63
64936	0.094	0.01	7	7	56
64937	0.113	0.04	5	11	84
64938	0.116	0.04	5	12	91
64939	0.107	0.06	3	10	71
64940	0.106	0.48	10	3	115
64941	0.119	0.07	6	12	36
64942	0.13	0.48	4	11	139
64943	0.124	0.01	4	13	37
64944	0.128	0.02	3	14	115
64945	0.139	0.13	4	10	99
64584	0.082	0.4	5	14	198
64585	0.073	0.3	5	18	173
64586	0.073	0.04	3	19	408



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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	0.086	0.35	5	24	2680
64588	0.073	0.01	4	25	290
64589	0.079	0.02	7	24	305
64590	0.127	0.02	5	12	47
64591	0.116	0.12	5	14	140
64592	0.132	0.03	5	12	133
64593	0.128	0.08	4	11	90
64594	0.12	0.07	6	13	187
64595	0.109	< 0.01	4	12	135
64596	0.122	0.43	8	12	72
64597	0.136	0.2	3	10	41
64598	0.112	0.51	3	11	103
64551	0.132	0.19	5	11	117
64552	0.127	0.55	7	11	144
64553	0.144	0.66	3	10	124
64554	0.144	0.64	4	10	134
64555	0.1	< 0.01	3	10	97
64556	0.108	< 0.01	4	10	105
64557	0.103	0.02	4	10	89
64558	0.068	0.05	2	9	68
64559	0.109	1.78	3	11	39
64560	0.119	2.75	5	11	26
64561	0.097	0.89	4	10	101
64562	0.123	0.38	3	11	174
64563	0.099	1.87	5	9	66
64564	0.108	0.63	5	10	157
64565	0.118	0.04	4	10	188
64566	0.108	0.07	2	11	312
64567	0.106	0.3	4	10	187
64568	0.112	0.03	4	11	114
64569	0.113	0.06	3	10	151

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	0.112	0.02	5	9	160
64571	0.109	0.02	5	9	132
64572	0.116	0.05	3	9	111
64573	0.112	0.04	4	12	168
64574	0.112	0.01	5	8	134
64575	0.107	0.04	5	9	164
64576	0.109	2.35	6	9	38
64577	0.094	0.42	6	14	111
64578	0.093	0.61	4	13	153
64579	0.104	1.56	5	9	20
64580	0.104	0.59	5	11	70
64581	0.105	3.11	5	8	49
64582	0.087	0.61	3	18	133
64583	0.086	0.31	4	16	181
64599	0.117	0.3	4	11	273
64600	0.108	0.45	10	3	118
64601	0.124	0.21	4	14	160
64602	0.119	0.45	5	16	140
64603	0.126	0.26	4	14	187
64604	0.125	0.06	4	11	146
64605	0.116	0.18	3	10	139
64606	0.099	1.37	4	5	58
64607	0.112	0.14	5	9	105
64608	0.112	0.46	4	8	80
64609	0.119	0.2	3	10	51
64610	0.091	0.02	2	6	215
64611	0.089	0.05	3	5	21
64612	0.082	0.1	< 2	4	22
64613	0.07	0.16	4	4	28
64614	0.11	1.12	4	8	37
64615	0.126	0.13	8	10	49

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	0.115	0.05	4	11	98
64617	0.118	0.18	6	11	119
64618	0.108	0.27	8	12	60
64619	0.125	0.48	11	13	57
64620	0.104	0.45	10	3	111
64621	0.117	0.68	5	14	91
64639	0.1	1.17	5	12	133
64640	0.104	0.45	10	3	111
64641	0.111	1.63	6	9	132
64642	0.105	1.3	5	11	131
64643	0.103	0.68	5	10	161
64644	0.099	0.01	6	12	136
64645	0.095	0.01	5	15	136
64646	0.102	< 0.01	5	12	139
64647	0.101	0.06	5	12	108
64648	0.097	1.07	6	10	97
GR21	0.004	1.11	< 2	< 1	2
GR22	0.041	0.1	2	1	7
GR23	0.001	6.99	5	< 1	2
GR24	0.002	0.64	3	< 1	3
GR25	0.003	10.1	23	< 1	3
GR26	0.013	0.01	3	4	30
GR27	0.006	0.15	< 2	< 1	3
GR28	0.013	1.14	5	< 1	3
GR29	0.105	< 0.01	3	5	35
GR30	0.002	< 0.01	< 2	< 1	2
GR31	0.01	0.73	8	< 1	12
GR32	0.002	0.53	< 2	< 1	2
GR33	< 0.001	5.25	3	< 1	1
GR34	0.025	0.29	4	< 1	2
GR35	0.003	0.65	< 2	< 1	2

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	0.01	0.64	2	< 1	2
GR37	0.041	0.15	< 2	1	4
GR38	0.004	0.09	< 2	< 1	3
GR39	0.007	0.22	2	< 1	47
GR40	0.009	10.8	7	< 1	1
GR41	0.017	6.49	12	< 1	6
GR42	0.07	0.72	39	< 1	9
GR43	0.002	6.58	4	< 1	< 1
AP-5	0.189	0.04	3	11	381
AP-6	0.134	0.02	5	8	116
AP-7	0.096	< 0.01	< 2	8	118
AP-8	0.215	< 0.01	6	6	114
AP-9	0.118	< 0.01	7	11	200
AP-10	0.077	2.8	3	4	8
AP-11	0.127	1.25	4	5	16
AP-12	0.125	0.17	4	7	83
AP-13	0.129	0.03	< 2	3	32
AP-14	0.083	0.27	13	4	56
AP-15	0.007	0.34	4	< 1	63
AP-16	0.059	2.75	< 2	2	14
AP-17	0.132	0.01	5	8	40
PEK-1	0.146	0.03	4	7	554
PEK-2	0.032	0.05	2	3	1580
PEK-3	0.058	< 0.01	2	4	82
GRKM-01	0.035	< 0.01	< 2	3	59
RCKM-1	0.018	4.11	6	2	4
RCKM-2	0.037	7.24	5	2	5
RCKM-3	0.021	8.17	5	< 1	3
RCKM-4	0.007	5.11	4	< 1	4
RCKM-5	0.086	4.74	6	11	5
RCKM-6	0.106	0.03	4	24	34

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	0.05	5.62	7	9	6
RCKM-8	0.076	13.4	14	6	3
RCKM-9	0.085	0.11	6	5	34
RCKM-10	0.045	0.03	3	1	24
64622	0.11	1.51	8	11	20
64623	0.113	1.14	6	11	70
64624	0.132	1.06	5	10	13
64625	0.129	0.38	6	9	35
64626	0.136	0.02	4	5	63
64627	0.145	< 0.01	3	4	43
64628	0.152	< 0.01	2	4	19
64629	0.114	0.13	5	11	37
64630	0.077	< 0.01	3	5	129
64631	0.103	0.71	9	10	11
64632	0.111	0.02	5	11	14
64633	0.106	0.81	4	12	13
64634	0.096	0.38	5	12	12
64635	0.106	0.04	6	13	12
64636	0.111	0.05	6	13	33
64637	0.117	0.17	4	13	21
64638	0.12	0.03	4	17	15

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65093	0.03	< 20	2	< 2	< 10
65094	0.01	< 20	< 1	< 2	< 10
65095	0.09	< 20	< 1	< 2	< 10
65096	0.07	< 20	2	< 2	< 10
65097	0.09	< 20	< 1	< 2	< 10
65098	0.28	< 20	< 1	< 2	< 10
65099	0.21	< 20	< 1	< 2	< 10
65100	0.1	< 20	4	< 2	< 10
65101	0.2	< 20	< 1	< 2	< 10
65102	0.23	< 20	< 1	< 2	< 10
65103	0.13	< 20	< 1	< 2	< 10
65104	0.21	< 20	< 1	< 2	< 10
65105	0.15	< 20	4	< 2	< 10
65106	0.26	< 20	2	< 2	< 10
65107	0.27	< 20	< 1	< 2	< 10
65108	0.25	< 20	2	< 2	< 10
65109	0.25	< 20	< 1	< 2	< 10
65110	0.21	< 20	< 1	< 2	< 10
65111	0.26	< 20	< 1	< 2	< 10
65112	0.19	< 20	2	< 2	< 10
65113	0.23	< 20	< 1	< 2	< 10
65114	0.28	< 20	1	< 2	< 10
65115	0.28	< 20	5	< 2	< 10
65116	0.26	< 20	< 1	< 2	< 10
65117	0.28	< 20	4	< 2	< 10
65118	0.27	< 20	< 1	< 2	< 10
65119	0.31	< 20	< 1	< 2	< 10
65120	0.09	< 20	4	< 2	< 10
65121	0.29	< 20	1	< 2	< 10
65122	0.29	< 20	2	< 2	< 10
65123	0.25	< 20	< 1	< 2	< 10

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Report Date: 8/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65124	0.35	< 20	10	< 2	< 10
65125	0.32	< 20	< 1	< 2	< 10
65126	0.35	< 20	2	< 2	< 10
65127	0.32	< 20	< 1	< 2	< 10
65128	0.23	< 20	< 1	< 2	< 10
65129	0.24	< 20	3	< 2	< 10
65130	0.24	< 20	< 1	< 2	< 10
65131	0.27	< 20	3	< 2	< 10
65132	0.28	< 20	3	< 2	< 10
65133	0.28	< 20	2	< 2	< 10
65134	0.29	< 20	2	< 2	< 10
65135	0.3	< 20	< 1	< 2	< 10
65136	0.23	< 20	< 1	< 2	< 10
65137	0.2	< 20	1	< 2	< 10
65138	0.24	< 20	< 1	< 2	< 10
65139	0.22	< 20	< 1	< 2	< 10
65140	0.1	< 20	5	< 2	< 10
65141	0.28	< 20	3	< 2	< 10
65142	0.22	< 20	< 1	< 2	< 10
65143	0.19	< 20	< 1	< 2	< 10
65144	0.44	< 20	2	< 2	< 10
65145	0.26	< 20	< 1	< 2	< 10
65146	0.33	< 20	< 1	< 2	< 10
65147	0.32	< 20	2	< 2	< 10
65148	0.34	< 20	6	< 2	< 10
65149	0.37	< 20	5	< 2	< 10
65150	0.18	< 20	4	< 2	< 10
65151	0.25	< 20	4	< 2	< 10
65152	0.23	< 20	< 1	< 2	< 10
65153	0.25	< 20	3	< 2	< 10
65154	0.3	< 20	< 1	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65155	0.23	< 20	1	< 2	< 10
65156	0.21	< 20	3	< 2	< 10
65157	0.16	< 20	< 1	< 2	< 10
65158	0.13	< 20	< 1	< 2	< 10
65159	0.17	< 20	< 1	< 2	< 10
65160	0.1	< 20	6	< 2	< 10
65161	0.21	< 20	2	< 2	< 10
65162	0.32	< 20	3	< 2	< 10
65163	0.24	< 20	< 1	< 2	< 10
65164	0.21	< 20	< 1	< 2	< 10
65165	0.21	< 20	< 1	< 2	< 10
65166	0.22	< 20	4	< 2	< 10
65167	< 0.01	< 20	< 1	< 2	< 10
65168	< 0.01	< 20	2	< 2	< 10
65169	< 0.01	< 20	2	3	< 10
65170	0.23	< 20	2	< 2	< 10
65171	< 0.01	< 20	1	< 2	< 10
65172	< 0.01	< 20	< 1	< 2	< 10
65173	< 0.01	< 20	3	< 2	< 10
65174	< 0.01	< 20	2	< 2	< 10
65175	< 0.01	< 20	< 1	< 2	< 10
65176	< 0.01	< 20	< 1	2	< 10
65177	< 0.01	< 20	< 1	< 2	< 10
65178	< 0.01	< 20	3	< 2	< 10
65179	< 0.01	< 20	1	< 2	< 10
65180	0.1	< 20	6	< 2	< 10
65181	< 0.01	< 20	< 1	< 2	< 10
65182	0.05	< 20	< 1	< 2	< 10
65183	0.32	< 20	< 1	< 2	< 10
65184	< 0.01	< 20	< 1	< 2	< 10
65185	< 0.01	< 20	2	< 2	< 10



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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65186	< 0.01	< 20	< 1	< 2	< 10
65187	< 0.01	< 20	< 1	2	< 10
65188	< 0.01	< 20	< 1	< 2	< 10
65189	< 0.01	< 20	3	< 2	< 10
65190	0.19	< 20	2	< 2	< 10
65191	< 0.01	< 20	< 1	3	< 10
65192	< 0.01	< 20	< 1	4	< 10
65193	< 0.01	< 20	< 1	3	< 10
65194	< 0.01	< 20	< 1	< 2	< 10
65195	< 0.01	< 20	< 1	< 2	< 10
65196	< 0.01	< 20	< 1	8	< 10
65197	< 0.01	< 20	4	4	< 10
65198	< 0.01	< 20	< 1	< 2	< 10
65199	< 0.01	< 20	3	3	< 10
65200	0.1	< 20	7	< 2	< 10
65201	< 0.01	< 20	< 1	3	< 10
65202	< 0.01	< 20	< 1	< 2	< 10
65203	< 0.01	< 20	3	< 2	< 10
65204	< 0.01	< 20	2	< 2	< 10
65205	< 0.01	< 20	< 1	< 2	< 10
65206	< 0.01	< 20	< 1	< 2	< 10
65207	< 0.01	< 20	< 1	< 2	< 10
65208	0.07	< 20	3	< 2	< 10
64985	0.32	< 20	< 1	< 2	< 10
64986	0.28	< 20	< 1	< 2	< 10
64987	0.26	< 20	< 1	< 2	< 10
64988	0.28	< 20	2	< 2	< 10
64989	0.33	< 20	2	< 2	< 10
64990	0.24	< 20	3	< 2	< 10
64991	0.33	< 20	3	< 2	< 10
64992	0.29	< 20	< 1	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64993	0.18	< 20	5	< 2	< 10
64994	0.16	< 20	< 1	< 2	< 10
64995	0.04	< 20	1	< 2	< 10
64996	0.02	< 20	< 1	< 2	< 10
64997	< 0.01	< 20	4	< 2	< 10
64998	0.03	< 20	4	< 2	< 10
64999	0.11	< 20	< 1	< 2	< 10
65000	0.13	< 20	< 1	< 2	< 10
64969	0.17	< 20	< 1	< 2	< 10
64970	0.17	< 20	< 1	< 2	< 10
64971	0.05	< 20	< 1	< 2	< 10
64972	< 0.01	< 20	< 1	< 2	< 10
64973	0.01	< 20	1	< 2	< 10
64974	0.07	< 20	< 1	< 2	< 10
64975	0.44	< 20	5	< 2	< 10
64976	< 0.01	< 20	< 1	< 2	< 10
64977	< 0.01	< 20	3	< 2	< 10
64978	0.06	< 20	< 1	< 2	< 10
64979	0.13	< 20	5	< 2	< 10
64980	0.13	< 20	< 1	< 2	< 10
64981	0.13	< 20	< 1	< 2	< 10
64982	0.25	< 20	< 1	< 2	< 10
64983	0.16	< 20	< 1	< 2	< 10
64984	0.23	< 20	4	< 2	< 10
64946	0.35	< 20	< 1	< 2	< 10
64947	0.32	< 20	2	< 2	< 10
64948	0.31	< 20	< 1	< 2	< 10
64949	0.32	< 20	5	< 2	< 10
64950	0.24	< 20	4	< 2	< 10
64951	0.29	< 20	3	< 2	< 10
64952	0.37	< 20	4	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64953	0.39	< 20	10	< 2	< 10
64954	0.35	< 20	4	< 2	< 10
64955	0.18	< 20	8	< 2	< 10
64956	0.08	< 20	< 1	< 2	< 10
64957	0.19	< 20	3	< 2	< 10
64958	0.26	< 20	4	< 2	< 10
64959	0.4	< 20	4	< 2	< 10
64960	0.1	< 20	7	< 2	< 10
64961	0.3	< 20	< 1	< 2	< 10
64962	0.26	< 20	1	< 2	< 10
64963	0.3	< 20	8	< 2	< 10
64964	0.32	< 20	5	< 2	< 10
64965	0.09	< 20	< 1	< 2	< 10
64966	< 0.01	< 20	< 1	< 2	< 10
64967	0.05	< 20	< 1	< 2	< 10
64968	0.12	< 20	4	< 2	< 10
64903	0.08	< 20	< 1	< 2	< 10
64904	0.02	< 20	3	< 2	< 10
64905	0.14	< 20	< 1	< 2	< 10
64906	0.24	< 20	4	< 2	< 10
64907	0.16	< 20	< 1	< 2	< 10
64908	0.11	< 20	< 1	< 2	< 10
64909	0.1	< 20	1	3	< 10
64910	0.28	< 20	6	< 2	< 10
64911	0.11	< 20	< 1	< 2	< 10
64912	0.22	< 20	< 1	< 2	< 10
64913	0.32	< 20	4	< 2	< 10
64914	0.18	< 20	2	< 2	< 10
64915	0.23	< 20	6	3	< 10
64916	0.25	< 20	3	< 2	< 10
64917	0.22	< 20	< 1	11	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64918	0.09	< 20	5	3	< 10
64919	0.16	< 20	3	3	< 10
64920	0.05	< 20	< 1	2	< 10
64921	0.09	< 20	2	7	< 10
64922	0.18	< 20	1	5	< 10
64923	0.02	< 20	< 1	2	< 10
64924	0.03	< 20	< 1	9	< 10
64925	0.32	< 20	4	< 2	< 10
64926	0.4	< 20	2	4	< 10
64927	0.37	< 20	2	< 2	< 10
64928	0.32	< 20	< 1	< 2	< 10
64929	0.33	< 20	7	< 2	< 10
64930	0.18	< 20	5	< 2	< 10
64931	0.22	< 20	< 1	< 2	< 10
64932	0.26	< 20	< 1	3	< 10
64933	0.27	< 20	8	< 2	< 10
64934	0.2	< 20	2	< 2	< 10
64935	0.2	< 20	5	< 2	< 10
64936	0.21	< 20	3	6	< 10
64937	0.27	< 20	< 1	5	< 10
64938	0.21	< 20	5	< 2	< 10
64939	0.13	< 20	< 1	< 2	< 10
64940	0.1	< 20	8	< 2	< 10
64941	0.17	< 20	< 1	3	< 10
64942	0.21	< 20	< 1	< 2	< 10
64943	0.24	< 20	1	< 2	< 10
64944	0.24	< 20	< 1	< 2	< 10
64945	0.16	< 20	< 1	2	< 10
64584	0.29	< 20	< 1	< 2	< 10
64585	0.32	< 20	< 1	< 2	< 10
64586	0.3	< 20	6	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64587	0.32	< 20	4	< 2	< 10
64588	0.32	< 20	< 1	< 2	< 10
64589	0.32	< 20	< 1	< 2	< 10
64590	0.03	< 20	< 1	3	< 10
64591	0.09	< 20	< 1	< 2	< 10
64592	0.1	< 20	2	< 2	< 10
64593	0.2	< 20	< 1	< 2	< 10
64594	0.28	< 20	5	< 2	< 10
64595	0.27	< 20	1	< 2	< 10
64596	0.19	< 20	1	< 2	< 10
64597	0.02	< 20	1	19	< 10
64598	0.07	< 20	< 1	7	< 10
64551	0.19	< 20	< 1	< 2	< 10
64552	0.06	< 20	< 1	8	< 10
64553	0.07	< 20	3	6	< 10
64554	0.04	< 20	2	6	< 10
64555	0.31	< 20	3	< 2	< 10
64556	0.3	< 20	4	< 2	< 10
64557	0.24	< 20	< 1	< 2	< 10
64558	0.18	< 20	2	< 2	< 10
64559	0.25	< 20	< 1	< 2	< 10
64560	0.25	< 20	3	4	< 10
64561	0.24	< 20	< 1	2	< 10
64562	0.3	< 20	< 1	< 2	< 10
64563	0.25	< 20	2	< 2	< 10
64564	0.24	< 20	3	< 2	< 10
64565	0.27	< 20	< 1	3	< 10
64566	0.25	< 20	6	< 2	< 10
64567	0.27	< 20	4	< 2	< 10
64568	0.31	< 20	< 1	< 2	< 10
64569	0.3	< 20	4	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64570	0.31	< 20	7	3	< 10
64571	0.33	< 20	7	3	< 10
64572	0.32	< 20	5	< 2	< 10
64573	0.31	< 20	< 1	< 2	< 10
64574	0.3	< 20	< 1	< 2	< 10
64575	0.33	< 20	< 1	< 2	< 10
64576	0.29	< 20	< 1	< 2	< 10
64577	0.31	< 20	4	< 2	< 10
64578	0.26	< 20	< 1	6	< 10
64579	0.23	< 20	10	< 2	< 10
64580	0.31	< 20	5	< 2	< 10
64581	0.04	< 20	2	2	< 10
64582	0.17	< 20	< 1	4	< 10
64583	0.29	< 20	8	< 2	< 10
64599	0.11	< 20	1	4	< 10
64600	0.1	< 20	6	5	< 10
64601	0.21	< 20	2	< 2	< 10
64602	0.16	< 20	< 1	< 2	< 10
64603	0.11	< 20	< 1	< 2	< 10
64604	0.05	< 20	< 1	10	< 10
64605	< 0.01	< 20	< 1	< 2	< 10
64606	< 0.01	< 20	4	< 2	< 10
64607	< 0.01	< 20	< 1	< 2	< 10
64608	0.01	< 20	4	3	< 10
64609	0.14	< 20	< 1	4	< 10
64610	0.24	< 20	5	< 2	< 10
64611	0.05	< 20	< 1	3	< 10
64612	0.1	< 20	< 1	6	< 10
64613	0.11	< 20	4	5	< 10
64614	0.19	< 20	3	3	< 10
64615	0.16	< 20	< 1	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64616	0.19	< 20	< 1	< 2	< 10
64617	0.14	< 20	3	< 2	< 10
64618	0.24	< 20	< 1	< 2	< 10
64619	0.25	< 20	4	< 2	< 10
64620	0.1	< 20	7	< 2	< 10
64621	0.25	< 20	1	< 2	< 10
64639	0.23	< 20	3	< 2	< 10
64640	0.1	< 20	7	< 2	< 10
64641	0.34	< 20	3	< 2	< 10
64642	0.32	< 20	2	< 2	< 10
64643	0.29	< 20	3	< 2	< 10
64644	0.29	< 20	4	< 2	< 10
64645	0.27	< 20	< 1	< 2	< 10
64646	0.24	< 20	< 1	< 2	< 10
64647	0.12	< 20	6	< 2	< 10
64648	0.18	< 20	< 1	< 2	< 10
GR21	< 0.01	< 20	< 1	< 2	< 10
GR22	< 0.01	< 20	4	< 2	< 10
GR23	< 0.01	< 20	< 1	< 2	< 10
GR24	< 0.01	< 20	< 1	< 2	< 10
GR25	< 0.01	< 20	< 1	< 2	< 10
GR26	< 0.01	< 20	< 1	< 2	< 10
GR27	< 0.01	< 20	< 1	< 2	< 10
GR28	< 0.01	< 20	< 1	< 2	< 10
GR29	< 0.01	< 20	< 1	< 2	< 10
GR30	< 0.01	< 20	1	< 2	< 10
GR31	< 0.01	< 20	< 1	< 2	< 10
GR32	< 0.01	< 20	< 1	< 2	< 10
GR33	< 0.01	< 20	< 1	< 2	< 10
GR34	< 0.01	< 20	2	< 2	< 10
GR35	< 0.01	< 20	< 1	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR36	< 0.01	< 20	< 1	< 2	< 10
GR37	< 0.01	< 20	4	< 2	< 10
GR38	< 0.01	< 20	< 1	< 2	< 10
GR39	< 0.01	< 20	< 1	< 2	< 10
GR40	< 0.01	< 20	2	< 2	< 10
GR41	< 0.01	< 20	< 1	< 2	< 10
GR42	< 0.01	< 20	< 1	< 2	< 10
GR43	< 0.01	< 20	< 1	< 2	< 10
AP-5	0.32	< 20	5	< 2	< 10
AP-6	0.01	< 20	4	< 2	< 10
AP-7	0.27	< 20	8	< 2	< 10
AP-8	< 0.01	< 20	< 1	< 2	< 10
AP-9	0.26	< 20	2	< 2	< 10
AP-10	< 0.01	< 20	< 1	< 2	< 10
AP-11	< 0.01	< 20	< 1	< 2	< 10
AP-12	< 0.01	< 20	< 1	2	< 10
AP-13	< 0.01	< 20	< 1	< 2	< 10
AP-14	< 0.01	< 20	2	< 2	< 10
AP-15	< 0.01	< 20	7	< 2	< 10
AP-16	< 0.01	< 20	< 1	< 2	< 10
AP-17	0.03	< 20	< 1	< 2	< 10
PEK-1	0.29	< 20	4	< 2	< 10
PEK-2	0.08	< 20	3	< 2	< 10
PEK-3	0.02	< 20	2	< 2	< 10
GRKM-01	0.09	< 20	< 1	< 2	< 10
RCKM-1	0.01	< 20	3	< 2	< 10
RCKM-2	0.01	< 20	< 1	< 2	< 10
RCKM-3	< 0.01	< 20	3	< 2	< 10
RCKM-4	< 0.01	< 20	11	< 2	< 10
RCKM-5	0.06	< 20	3	< 2	< 10
RCKM-6	0.17	< 20	< 1	< 2	< 10



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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
RCKM-7	0.05	< 20	1	< 2	< 10
RCKM-8	0.05	< 20	3	< 2	< 10
RCKM-9	0.24	< 20	3	< 2	< 10
RCKM-10	0.13	< 20	3	< 2	< 10
64622	0.28	< 20	2	< 2	< 10
64623	0.22	< 20	< 1	< 2	< 10
64624	0.3	< 20	2	< 2	< 10
64625	0.28	< 20	< 1	< 2	< 10
64626	0.17	< 20	1	< 2	< 10
64627	0.1	< 20	< 1	< 2	< 10
64628	0.13	< 20	2	< 2	< 10
64629	0.17	< 20	2	< 2	< 10
64630	0.22	< 20	1	< 2	< 10
64631	0.15	< 20	3	< 2	< 10
64632	0.19	< 20	4	< 2	< 10
64633	0.2	< 20	< 1	< 2	< 10
64634	0.17	< 20	< 1	< 2	< 10
64635	0.18	< 20	< 1	< 2	< 10
64636	0.22	< 20	1	< 2	< 10
64637	0.2	< 20	< 1	< 2	< 10
64638	0.26	< 20	1	< 2	< 10

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65093	94	< 10	7	2	
65094	87	< 10	8	2	
65095	85	< 10	9	3	
65096	87	< 10	10	2	
65097	102	< 10	10	3	
65098	115	< 10	10	5	
65099	114	< 10	10	4	
65100	41	19	12	9	
65101	114	< 10	10	4	
65102	103	< 10	11	4	
65103	96	< 10	10	2	
65104	99	< 10	10	3	
65105	94	< 10	11	3	
65106	95	< 10	11	4	
65107	116	< 10	11	4	
65108	110	< 10	10	4	
65109	106	< 10	10	4	
65110	59	< 10	8	2	
65111	100	< 10	10	4	
65112	103	< 10	10	4	
65113	104	< 10	10	5	
65114	105	< 10	10	5	
65115	108	< 10	10	4	
65116	105	< 10	9	5	
65117	106	< 10	9	5	
65118	111	< 10	9	5	
65119	117	< 10	10	5	
65120	40	19	11	9	
65121	106	< 10	10	5	
65122	106	< 10	10	5	
65123	109	< 10	11	3	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65124	150	< 10	11	4	
65125	129	< 10	10	6	
65126	150	< 10	11	7	
65127	130	< 10	11	6	
65128	105	< 10	8	4	
65129	125	< 10	10	5	
65130	70	< 10	9	2	
65131	111	< 10	10	6	
65132	102	< 10	10	4	
65133	89	< 10	11	4	
65134	98	< 10	11	4	
65135	89	< 10	12	4	
65136	89	< 10	11	4	
65137	99	< 10	12	3	
65138	91	< 10	11	3	
65139	112	< 10	9	4	
65140	41	19	12	10	
65141	105	< 10	13	3	
65142	105	< 10	13	3	
65143	124	< 10	9	3	
65144	116	< 10	7	11	
65145	170	< 10	10	3	
65146	127	< 10	13	4	
65147	118	< 10	12	4	
65148	110	< 10	12	3	
65149	140	< 10	11	4	
65150	57	< 10	7	2	
65151	143	< 10	9	3	
65152	172	< 10	6	4	
65153	166	< 10	10	4	
65154	195	< 10	11	5	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65155	133	< 10	11	4	
65156	114	< 10	12	4	
65157	129	< 10	12	3	
65158	123	< 10	11	4	
65159	114	< 10	10	5	
65160	40	18	12	9	
65161	84	< 10	8	4	
65162	96	< 10	14	4	
65163	152	< 10	9	5	
65164	152	< 10	6	5	16.9
65165	179	< 10	9	4	
65166	220	< 10	10	5	
65167	24	< 10	3	5	
65168	16	< 10	2	3	
65169	22	< 10	2	3	
65170	73	< 10	8	2	
65171	24	< 10	2	5	
65172	21	< 10	5	3	
65173	23	< 10	3	3	
65174	20	< 10	4	3	
65175	26	< 10	5	3	
65176	17	< 10	3	4	
65177	19	< 10	4	3	
65178	24	< 10	5	2	
65179	18	< 10	5	2	
65180	42	19	12	7	
65181	19	< 10	2	3	
65182	33	< 10	6	4	
65183	109	< 10	9	8	
65184	17	< 10	5	3	
65185	22	< 10	5	2	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65186	18	< 10	5	3	
65187	13	< 10	4	3	
65188	12	< 10	5	2	
65189	10	< 10	5	3	
65190	55	< 10	7	2	
65191	10	< 10	4	3	
65192	10	< 10	3	3	
65193	13	< 10	4	3	
65194	17	< 10	6	2	
65195	24	< 10	6	2	
65196	17	< 10	3	4	
65197	18	< 10	5	3	
65198	12	< 10	5	2	
65199	13	< 10	5	2	
65200	41	17	12	7	
65201	13	< 10	5	3	
65202	30	< 10	10	2	
65203	30	< 10	5	1	
65204	21	< 10	4	1	
65205	21	< 10	7	1	
65206	28	< 10	7	2	
65207	31	< 10	7	2	
65208	23	< 10	11	5	
64985	126	< 10	13	5	
64986	130	< 10	12	7	
64987	121	< 10	14	6	
64988	115	< 10	13	5	
64989	110	< 10	12	6	
64990	68	< 10	9	2	
64991	103	< 10	11	5	
64992	103	< 10	13	4	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64993	111	< 10	11	4	
64994	129	< 10	12	6	
64995	118	< 10	8	3	
64996	135	< 10	11	2	
64997	107	< 10	10	2	
64998	123	< 10	9	2	
64999	126	< 10	9	4	
65000	72	14	7	3	
64969	212	< 10	8	3	
64970	46	< 10	6	< 1	
64971	121	< 10	7	2	
64972	130	< 10	9	2	
64973	138	< 10	7	2	
64974	124	< 10	8	3	
64975	104	< 10	6	6	
64976	120	< 10	7	2	
64977	89	< 10	6	2	
64978	91	< 10	8	2	
64979	93	< 10	10	2	
64980	71	< 10	7	3	
64981	95	< 10	11	2	
64982	119	< 10	14	3	
64983	130	< 10	12	3	
64984	120	< 10	14	3	
64946	126	< 10	13	3	
64947	103	< 10	12	3	
64948	129	< 10	12	3	
64949	139	< 10	12	3	
64950	70	< 10	9	2	
64951	84	< 10	12	2	
64952	92	< 10	14	3	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64953	86	< 10	14	3	
64954	83	< 10	13	3	
64955	111	< 10	15	4	
64956	109	< 10	13	2	
64957	100	< 10	15	3	
64958	113	< 10	13	4	
64959	160	< 10	14	6	
64960	41	18	12	5	
64961	99	< 10	13	4	
64962	102	< 10	13	4	
64963	127	< 10	13	5	
64964	112	< 10	15	3	
64965	117	< 10	10	2	
64966	119	< 10	7	2	
64967	126	< 10	9	2	
64968	117	< 10	10	2	
64903	106	< 10	10	3	
64904	115	< 10	10	2	
64905	98	< 10	9	4	
64906	159	< 10	10	6	
64907	149	< 10	12	4	
64908	132	< 10	10	3	
64909	157	< 10	10	4	
64910	60	< 10	10	2	
64911	127	< 10	9	4	
64912	142	< 10	8	5	
64913	120	< 10	11	6	
64914	88	< 10	14	5	
64915	67	< 10	16	6	
64916	88	< 10	14	7	
64917	139	< 10	11	6	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64918	46	< 10	7	4	
64919	58	< 10	11	5	
64920	57	< 10	10	3	
64921	109	< 10	11	5	
64922	89	< 10	11	6	
64923	85	< 10	10	3	
64924	80	< 10	11	3	
64925	120	< 10	13	10	
64926	134	< 10	13	10	
64927	133	< 10	12	10	
64928	127	< 10	12	9	
64929	131	< 10	13	11	
64930	107	< 10	11	6	
64931	106	< 10	11	7	
64932	99	< 10	10	7	
64933	117	< 10	12	8	
64934	110	< 10	11	7	
64935	83	< 10	12	5	
64936	71	< 10	11	4	
64937	103	< 10	13	4	
64938	102	< 10	13	4	
64939	96	< 10	10	3	
64940	38	18	12	8	
64941	146	< 10	10	4	
64942	130	< 10	13	6	
64943	144	< 10	10	5	
64944	155	< 10	13	6	
64945	173	< 10	11	5	
64584	116	< 10	11	3	
64585	122	< 10	11	4	
64586	144	< 10	11	3	



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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64587	176	< 10	11	4	
64588	199	< 10	10	5	
64589	213	< 10	9	4	
64590	141	< 10	8	3	
64591	164	< 10	9	3	
64592	134	< 10	12	4	
64593	100	< 10	15	5	
64594	147	< 10	13	10	
64595	171	< 10	10	7	
64596	161	< 10	11	7	
64597	135	< 10	8	3	
64598	163	< 10	9	4	
64551	118	< 10	11	5	
64552	119	< 10	8	4	
64553	133	< 10	9	4	
64554	123	< 10	11	4	
64555	93	< 10	13	4	
64556	107	< 10	13	4	
64557	100	< 10	12	3	
64558	87	< 10	7	3	
64559	96	< 10	9	5	
64560	105	< 10	9	5	
64561	66	< 10	10	4	
64562	85	< 10	13	4	
64563	85	< 10	9	4	
64564	75	< 10	9	4	
64565	71	< 10	12	4	
64566	85	< 10	10	5	
64567	83	< 10	10	5	
64568	95	< 10	13	5	
64569	104	< 10	12	5	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64570	110	< 10	13	5	
64571	103	< 10	13	5	
64572	90	< 10	14	4	
64573	101	< 10	14	5	
64574	92	< 10	13	5	
64575	88	< 10	13	4	
64576	94	< 10	10	4	
64577	107	< 10	12	3	
64578	108	< 10	11	4	
64579	107	< 10	9	4	
64580	137	< 10	11	5	
64581	102	< 10	7	3	
64582	164	< 10	10	4	
64583	148	< 10	12	4	
64599	116	< 10	9	5	
64600	39	18	12	8	
64601	141	< 10	11	6	
64602	166	< 10	11	6	
64603	137	< 10	10	5	
64604	90	< 10	10	3	
64605	81	< 10	7	2	
64606	46	< 10	7	2	
64607	71	< 10	8	1	
64608	70	< 10	7	2	
64609	96	< 10	10	3	
64610	66	< 10	9	2	
64611	44	< 10	7	2	
64612	33	< 10	8	2	
64613	44	< 10	8	3	
64614	74	< 10	9	3	
64615	108	< 10	12	2	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64616	101	< 10	12	2	
64617	100	< 10	11	2	
64618	97	< 10	12	3	
64619	129	< 10	13	3	
64620	39	19	12	7	
64621	133	< 10	15	3	
64639	101	< 10	11	4	
64640	39	19	12	7	
64641	73	< 10	14	4	
64642	92	< 10	13	3	
64643	80	< 10	13	3	
64644	98	< 10	12	3	
64645	109	< 10	12	3	
64646	105	< 10	12	3	
64647	102	< 10	9	3	
64648	86	< 10	11	3	
GR21	9	< 10	< 1	1	
GR22	18	< 10	1	2	
GR23	1	< 10	< 1	< 1	18.6
GR24	4	< 10	< 1	< 1	10.6
GR25	6	< 10	< 1	1	5.66
GR26	28	< 10	3	2	
GR27	3	< 10	< 1	< 1	
GR28	8	< 10	< 1	2	
GR29	39	< 10	16	3	
GR30	3	< 10	< 1	< 1	
GR31	10	< 10	< 1	< 1	
GR32	4	< 10	< 1	< 1	
GR33	3	< 10	< 1	1	
GR34	4	< 10	1	1	
GR35	5	< 10	1	< 1	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
GR36	6	< 10	< 1	< 1	
GR37	18	< 10	3	< 1	
GR38	4	< 10	< 1	< 1	
GR39	3	< 10	2	< 1	
GR40	11	< 10	< 1	3	
GR41	7	< 10	< 1	2	
GR42	26	< 10	4	2	
GR43	12	< 10	< 1	3	
AP-5	103	< 10	13	5	
AP-6	53	< 10	15	2	
AP-7	72	< 10	10	7	
AP-8	53	< 10	11	2	
AP-9	121	< 10	13	4	
AP-10	38	< 10	11	2	
AP-11	44	< 10	5	2	
AP-12	58	< 10	3	2	
AP-13	25	< 10	8	2	
AP-14	33	< 10	5	1	
AP-15	4	< 10	1	< 1	
AP-16	19	< 10	5	2	
AP-17	115	< 10	13	2	
PEK-1	122	< 10	9	5	
PEK-2	24	< 10	5	4	
PEK-3	42	< 10	5	1	
GRKM-01	29	< 10	5	< 1	
RCKM-1	32	< 10	2	4	
RCKM-2	28	< 10	3	8	
RCKM-3	10	< 10	< 1	4	
RCKM-4	5	< 10	1	3	
RCKM-5	135	< 10	6	3	
RCKM-6	237	< 10	6	3	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
RCKM-7	106	< 10	3	3	
RCKM-8	64	< 10	3	4	
RCKM-9	118	< 10	9	4	
RCKM-10	22	< 10	9	4	
64622	104	< 10	10	4	
64623	122	< 10	11	5	
64624	113	< 10	13	6	
64625	109	< 10	11	5	
64626	53	< 10	13	3	
64627	47	< 10	12	3	
64628	51	< 10	13	3	
64629	189	< 10	12	5	
64630	71	< 10	9	2	
64631	184	< 10	7	3	
64632	176	< 10	9	4	
64633	149	< 10	8	4	
64634	151	< 10	8	4	
64635	166	< 10	8	4	
64636	219	< 10	9	5	
64637	212	< 10	10	5	
64638	202	< 10	12	4	

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		28.7	2.8	1070	751
GXR-1 Cert		31	3.3	1110	852
GXR-1 Meas		29.6	2.8	1150	798
GXR-1 Cert		31	3.3	1110	852
GXR-1 Meas		28.1	2.7	1120	815
GXR-1 Cert		31	3.3	1110	852
GXR-1 Meas		28.9	3	1150	857
GXR-1 Cert		31	3.3	1110	852
GXR-4 Meas		3.4	0.6	6330	130
GXR-4 Cert		4	0.86	6520	155
GXR-4 Meas		3.5	< 0.5	6380	134
GXR-4 Cert		4	0.86	6520	155
GXR-4 Meas		3.3	< 0.5	6140	140
GXR-4 Cert		4	0.86	6520	155
GXR-4 Meas		3.4	< 0.5	6270	144
GXR-4 Cert		4	0.86	6520	155
GXR-6 Meas		0.2	< 0.5	61	925
GXR-6 Cert		1.3	1	66	1010
GXR-6 Meas		0.3	< 0.5	64	996
GXR-6 Cert		1.3	1	66	1010
GXR-6 Meas		0.2	0.7	66	1090
GXR-6 Cert		1.3	1	66	1010
GXR-6 Meas		< 0.2	< 0.5	64	1060
GXR-6 Cert		1.3	1	66	1010
OREAS 922 (AQUA REGIA) Meas		0.8	< 0.5	2280	766
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730
OREAS 922 (AQUA REGIA) Meas		1	0.5	2330	772
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730
OREAS 922 (AQUA REGIA) Meas		0.7	0.7	2270	813
OREAS 922 (AQUA REGIA) Cert		0.851	0.28	2176	730
OREAS 923 (AQUA REGIA) Meas		1.7	0.6	4300	836

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Cert		1.62	0.4	4248	850
OREAS 923 (AQUA REGIA) Meas		1.7	< 0.5	4340	845
OREAS 923 (AQUA REGIA) Cert		1.62	0.4	4248	850
OREAS 923 (AQUA REGIA) Meas		1.4	< 0.5	4570	940
OREAS 923 (AQUA REGIA) Cert		1.62	0.4	4248	850
SdAR-M2 (U.S.G.S.) Meas			5.8	261	
SdAR-M2 (U.S.G.S.) Cert			5.1	236.0000	
OxL118 Meas					
OxL118 Cert					
OxP116 Meas					
OxP116 Cert					
OREAS 223 (Fire Assay) Meas	1760				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1770				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1770				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1800				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1830				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1760				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1840				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1740				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1790				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1750				
OREAS 223 (Fire Assay) Cert	1780				

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas	1810				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 223 (Fire Assay) Meas	1690				
OREAS 223 (Fire Assay) Cert	1780				
OREAS 224 (Fire Assay) Meas	2150				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2250				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2200				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2210				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2150				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2150				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2120				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2170				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2160				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2110				
OREAS 224 (Fire Assay) Cert	2150				
65098 Orig	10				
65098 Dup	9				
65105 Orig		< 0.2	< 0.5	26	1890
65105 Dup		< 0.2	0.6	24	1850
65109 Orig	68				
65109 Dup	72				
65119 Orig		< 0.2	< 0.5	4	2020



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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup		< 0.2	0.6	3	2050
65121 Orig	19				
65121 Dup	16				
65132 Orig		< 0.2	< 0.5	< 1	1650
65132 Dup		< 0.2	< 0.5	< 1	1630
65133 Orig	6				
65133 Dup	6				
65142 Orig	13	< 0.2	< 0.5	58	2220
65142 Split PREP DUP	9	< 0.2	< 0.5	31	2160
65143 Orig	595				
65143 Dup	576				
65145 Orig		0.9	0.5	300	2740
65145 Dup		0.7	< 0.5	290	2620
65155 Orig	37				
65155 Dup	27				
65167 Orig	9				
65167 Dup	< 5				
65168 Orig		3.6	< 0.5	26	119
65168 Dup		3.8	< 0.5	27	122
65178 Orig	5				
65178 Dup	< 5				
65182 Orig		1.8	0.8	12	458
65182 Dup		1.9	1	12	478
65190 Orig	< 5				
65190 Dup	< 5				
65192 Orig	35	7.4	3.5	194	89
65192 Split PREP DUP	30	7.3	3.8	194	87
65194 Orig		2.2	3.1	30	745
65194 Dup		2.1	3.2	29	756
65201 Orig	6				
65201 Dup	< 5				

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig		0.4	< 0.5	217	794
65208 Dup		0.4	< 0.5	222	802
64988 Orig	28				
64988 Dup	30				
65000 Orig	82	78.2	167	1930	1570
65000 Dup	60	77.1	160	1920	1550
64980 Orig	82				
64982 Orig		< 0.2	< 0.5	23	2590
64982 Dup		< 0.2	< 0.5	22	2530
64947 Orig	13	< 0.2	0.6	2	2240
64947 Split PREP DUP	6	< 0.2	< 0.5	3	2310
64951 Orig	< 5				
64951 Dup	< 5				
64955 Orig		< 0.2	4.5	4	2230
64955 Dup		< 0.2	4.3	4	2180
64963 Orig	< 5				
64963 Dup	< 5				
64903 Orig		< 0.2	14.1	27	2230
64903 Dup		< 0.2	14.7	28	2270
64909 Orig	7				
64909 Dup	8				
64920 Orig	< 5				
64920 Dup	< 5				
64921 Orig		< 0.2	0.6	< 1	1770
64921 Dup		< 0.2	< 0.5	< 1	1770
64931 Orig	< 5	0.2	1.7	72	2050
64931 Split PREP DUP	< 5	0.2	1.3	71	2010
64931 Split PREP DUP	< 5				
64934 Orig		< 0.2	1.2	15	1860
64934 Dup		< 0.2	1.1	14	1800
64943 Orig	21				

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup	25				
64585 Orig		< 0.2	0.9	5	2880
64585 Dup		< 0.2	1.4	5	3000
64592 Orig	11				
64592 Dup	7				
64551 Orig		< 0.2	< 0.5	10	2580
64551 Dup		< 0.2	< 0.5	10	2520
64556 Orig	21				
64556 Dup	21				
64568 Orig	30				
64568 Dup	27				
64571 Orig	< 5	< 0.2	< 0.5	< 1	1930
64571 Split PREP DUP	< 5	< 0.2	< 0.5	< 1	1880
64573 Orig		< 0.2	< 0.5	5	2420
64573 Dup		< 0.2	< 0.5	5	2460
64578 Orig	19				
64578 Dup	19				
64602 Orig		< 0.2	0.9	26	3000
64602 Dup		< 0.2	1	25	2940
64605 Orig	15				
64605 Dup	13				
64615 Orig		0.2	11.9	29	2720
64615 Dup		0.2	12.1	30	2730
64617 Orig	5				
64617 Dup	< 5				
64645 Orig	9				
64645 Dup	5				
64646 Orig		< 0.2	< 0.5	36	3230
64646 Dup		< 0.2	< 0.5	37	3310
GR25 Orig	> 5000	> 100	1650	3180	56
GR25 Split PREP DUP	> 5000	> 100	1640	3150	87

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig	185				
GR28 Dup	179				
GR33 Orig		8.6	4	106	64
GR33 Dup		8.3	3.6	101	62
GR40 Orig	176				
GR40 Dup	238				
AP-8 Orig		< 0.2	< 0.5	20	881
AP-8 Dup		< 0.2	< 0.5	19	826
AP-10 Orig	19				
AP-10 Dup	9				
GRKM-01 Orig		< 0.2	< 0.5	42	462
GRKM-01 Dup		< 0.2	< 0.5	39	432
64622 Orig	76				
64622 Dup	77				
64625 Orig		0.7	20.1	156	3150
64625 Dup		0.5	19.2	146	3000
64630 Orig	5				
64630 Dup	9				
64636 Orig	119				
64636 Dup	110				
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank	5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank	< 5				

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	15	28	695	643	0.38
GXR-1 Cert	18	41	730	760	3.52
GXR-1 Meas	16	37	715	667	0.38
GXR-1 Cert	18	41	730	760	3.52
GXR-1 Meas	14	38	674	683	0.37
GXR-1 Cert	18	41	730	760	3.52
GXR-1 Meas	14	34	683	691	0.37
GXR-1 Cert	18	41	730	760	3.52
GXR-4 Meas	343	43	45	68	2.89
GXR-4 Cert	310	42	52	73	7.2
GXR-4 Meas	350	42	46	67	2.87
GXR-4 Cert	310	42	52	73	7.2
GXR-4 Meas	310	40	44	69	2.7
GXR-4 Cert	310	42	52	73	7.2
GXR-4 Meas	312	39	43	71	2.73
GXR-4 Cert	310	42	52	73	7.2
GXR-6 Meas	2	24	96	112	6.82
GXR-6 Cert	2.4	27	101	118	17.7
GXR-6 Meas	1	25	102	120	7.28
GXR-6 Cert	2.4	27	101	118	17.7
GXR-6 Meas	2	25	100	126	7.25
GXR-6 Cert	2.4	27	101	118	17.7
GXR-6 Meas	1	23	99	121	6.9
GXR-6 Cert	2.4	27	101	118	17.7
OREAS 922 (AQUA REGIA) Meas	1	37	67	256	3.09
OREAS 922 (AQUA REGIA) Cert	0.69	34.3	60	256	2.72
OREAS 922 (AQUA REGIA) Meas	1	39	68	265	3.15
OREAS 922 (AQUA REGIA) Cert	0.69	34.3	60	256	2.72
OREAS 922 (AQUA REGIA) Meas	1	37	66	270	2.96
OREAS 922 (AQUA REGIA) Cert	0.69	34.3	60	256	2.72
OREAS 923 (AQUA REGIA) Meas	1	34	86	323	3.1

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Cert	0.84	32.7	81	335	2.8
OREAS 923 (AQUA REGIA) Meas	< 1	33	85	324	3.06
OREAS 923 (AQUA REGIA) Cert	0.84	32.7	81	335	2.8
OREAS 923 (AQUA REGIA) Meas	< 1	35	89	351	3.04
OREAS 923 (AQUA REGIA) Cert	0.84	32.7	81	335	2.8
SdAR-M2 (U.S.G.S.) Meas	15	51	1000	891	
SdAR-M2 (U.S.G.S.) Cert	13	49	808	760	
OxL118 Meas					
OxL118 Cert					
OxP116 Meas					
OxP116 Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	< 1	10	34	152	3.18
65105 Dup	< 1	9	31	147	3.06
65109 Orig					
65109 Dup					
65119 Orig	< 1	7	12	267	3.51



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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup	< 1	8	8	269	3.55
65121 Orig					
65121 Dup					
65132 Orig	< 1	9	2	239	3.02
65132 Dup	< 1	9	3	234	3.02
65133 Orig					
65133 Dup					
65142 Orig	< 1	7	41	173	3.23
65142 Split PREP DUP	< 1	11	29	171	3.05
65143 Orig					
65143 Dup					
65145 Orig	< 1	7	18	365	4.69
65145 Dup	< 1	7	15	352	4.46
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	9	< 1	51	21	0.49
65168 Dup	8	2	53	22	0.52
65178 Orig					
65178 Dup					
65182 Orig	2	4	91	120	1.01
65182 Dup	2	4	95	124	1.04
65190 Orig					
65190 Dup					
65192 Orig	15	2	186	293	0.62
65192 Split PREP DUP	14	2	181	289	0.59
65194 Orig	5	< 1	81	292	1.09
65194 Dup	5	1	84	298	1.21
65201 Orig					
65201 Dup					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig	< 1	< 1	22	62	1.31
65208 Dup	< 1	< 1	23	63	1.35
64988 Orig					
64988 Dup					
65000 Orig	7	16	> 5000	> 10000	1.76
65000 Dup	8	16	> 5000	> 10000	1.72
64980 Orig					
64982 Orig	< 1	8	32	262	2.99
64982 Dup	< 1	10	32	254	2.9
64947 Orig	< 1	13	2	257	3.14
64947 Split PREP DUP	< 1	9	3	265	3.21
64951 Orig					
64951 Dup					
64955 Orig	< 1	10	7	747	3.42
64955 Dup	< 1	10	5	730	3.31
64963 Orig					
64963 Dup					
64903 Orig	< 1	7	5	2030	3.11
64903 Dup	< 1	5	4	2080	3.15
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	< 1	6	3	149	4.22
64921 Dup	< 1	5	< 2	148	4.26
64931 Orig	< 1	7	< 2	255	3.26
64931 Split PREP DUP	< 1	8	< 2	249	3.18
64931 Split PREP DUP					
64934 Orig	< 1	8	< 2	210	2.62
64934 Dup	< 1	7	2	204	2.52
64943 Orig					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup					
64585 Orig	< 1	18	44	537	3.49
64585 Dup	< 1	18	48	560	3.69
64592 Orig					
64592 Dup					
64551 Orig	< 1	10	< 2	266	3.34
64551 Dup	< 1	12	3	259	3.22
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	< 1	8	7	248	2.48
64571 Split PREP DUP	< 1	10	6	240	2.43
64573 Orig	< 1	5	17	347	2.63
64573 Dup	< 1	2	16	353	2.68
64578 Orig					
64578 Dup					
64602 Orig	< 1	6	6	243	3.52
64602 Dup	< 1	4	8	237	3.43
64605 Orig					
64605 Dup					
64615 Orig	< 1	7	94	2500	3.66
64615 Dup	< 1	9	94	2510	3.74
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	< 1	12	22	351	3.01
64646 Dup	< 1	11	21	363	3.12
GR25 Orig	5	1	> 5000	> 10000	0.2
GR25 Split PREP DUP	5	3	> 5000	> 10000	0.35

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig					
GR28 Dup					
GR33 Orig	< 1	2	574	288	0.09
GR33 Dup	< 1	4	555	280	0.09
GR40 Orig					
GR40 Dup					
AP-8 Orig	< 1	16	10	130	3.05
AP-8 Dup	< 1	14	10	123	2.83
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	1	3	6	30	0.73
GRKM-01 Dup	1	3	6	29	0.68
64622 Orig					
64622 Dup					
64625 Orig	1	9	1780	3080	2.82
64625 Dup	< 1	9	1720	2920	2.73
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	369	< 10	177	0.8	1430
GXR-1 Cert	427	15	750	1.22	1380
GXR-1 Meas	393	< 10	210	0.9	1490
GXR-1 Cert	427	15	750	1.22	1380
GXR-1 Meas	374	< 10	218	0.8	1400
GXR-1 Cert	427	15	750	1.22	1380
GXR-1 Meas	374	11	214	0.8	1420
GXR-1 Cert	427	15	750	1.22	1380
GXR-4 Meas	106	< 10	47	1.5	7
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-4 Meas	103	< 10	33	1.5	12
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-4 Meas	94	< 10	22	1.4	9
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-4 Meas	97	< 10	31	1.5	14
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-6 Meas	186	< 10	729	0.9	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
GXR-6 Meas	206	< 10	774	1	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
GXR-6 Meas	210	< 10	824	1	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
GXR-6 Meas	200	< 10	783	0.9	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
OREAS 922 (AQUA REGIA) Meas	7		80	0.8	7
OREAS 922 (AQUA REGIA) Cert	6.12		70	0.65	10.3
OREAS 922 (AQUA REGIA) Meas	2		79	0.8	4
OREAS 922 (AQUA REGIA) Cert	6.12		70	0.65	10.3
OREAS 922 (AQUA REGIA) Meas	4		80	0.8	3
OREAS 922 (AQUA REGIA) Cert	6.12		70	0.65	10.3
OREAS 923 (AQUA REGIA) Meas	< 2		64	0.7	14

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Cert	7.07		54	0.61	21.8
OREAS 923 (AQUA REGIA) Meas	3		62	0.7	9
OREAS 923 (AQUA REGIA) Cert	7.07		54	0.61	21.8
OREAS 923 (AQUA REGIA) Meas	8		68	0.7	17
OREAS 923 (AQUA REGIA) Cert	7.07		54	0.61	21.8
SdAR-M2 (U.S.G.S.) Meas			112	5.8	< 2
SdAR-M2 (U.S.G.S.) Cert			990	6.6	1.05
OxL118 Meas					
OxL118 Cert					
OxP116 Meas					
OxP116 Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	< 2	< 10	424	< 0.5	< 2
65105 Dup	< 2	< 10	421	< 0.5	< 2
65109 Orig					
65109 Dup					
65119 Orig	2	< 10	350	< 0.5	2



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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup	4	< 10	351	< 0.5	< 2
65121 Orig					
65121 Dup					
65132 Orig	< 2	< 10	223	< 0.5	< 2
65132 Dup	2	< 10	225	< 0.5	< 2
65133 Orig					
65133 Dup					
65142 Orig	< 2	< 10	240	< 0.5	< 2
65142 Split PREP DUP	< 2	< 10	204	< 0.5	< 2
65143 Orig					
65143 Dup					
65145 Orig	6	< 10	37	0.8	< 2
65145 Dup	7	< 10	29	0.8	< 2
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	113	< 10	20	< 0.5	< 2
65168 Dup	120	< 10	20	< 0.5	< 2
65178 Orig					
65178 Dup					
65182 Orig	48	< 10	94	< 0.5	< 2
65182 Dup	52	< 10	86	< 0.5	2
65190 Orig					
65190 Dup					
65192 Orig	543	< 10	< 10	< 0.5	< 2
65192 Split PREP DUP	533	< 10	< 10	< 0.5	< 2
65194 Orig	124	< 10	46	0.8	2
65194 Dup	121	< 10	39	0.8	< 2
65201 Orig					
65201 Dup					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig	10	< 10	362	< 0.5	< 2
65208 Dup	12	< 10	372	< 0.5	< 2
64988 Orig					
64988 Dup					
65000 Orig	84	< 10	15	< 0.5	< 2
65000 Dup	87	< 10	15	< 0.5	< 2
64980 Orig					
64982 Orig	10	< 10	171	< 0.5	< 2
64982 Dup	< 2	< 10	171	< 0.5	< 2
64947 Orig	3	< 10	1230	< 0.5	2
64947 Split PREP DUP	< 2	< 10	1300	< 0.5	< 2
64951 Orig					
64951 Dup					
64955 Orig	< 2	< 10	207	0.6	< 2
64955 Dup	< 2	< 10	197	0.6	< 2
64963 Orig					
64963 Dup					
64903 Orig	25	< 10	423	0.5	< 2
64903 Dup	9	< 10	442	0.5	< 2
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	< 2	< 10	329	< 0.5	< 2
64921 Dup	< 2	< 10	331	< 0.5	< 2
64931 Orig	3	< 10	364	< 0.5	< 2
64931 Split PREP DUP	< 2	< 10	356	< 0.5	< 2
64931 Split PREP DUP					
64934 Orig	< 2	< 10	589	< 0.5	< 2
64934 Dup	< 2	< 10	570	< 0.5	< 2
64943 Orig					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup					
64585 Orig	10	< 10	226	< 0.5	< 2
64585 Dup	9	< 10	232	< 0.5	< 2
64592 Orig					
64592 Dup					
64551 Orig	5	< 10	388	< 0.5	< 2
64551 Dup	6	< 10	395	< 0.5	< 2
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	4	< 10	211	< 0.5	< 2
64571 Split PREP DUP	4	< 10	212	< 0.5	< 2
64573 Orig	< 2	< 10	155	< 0.5	< 2
64573 Dup	< 2	< 10	163	< 0.5	< 2
64578 Orig					
64578 Dup					
64602 Orig	5	< 10	129	< 0.5	< 2
64602 Dup	4	< 10	129	< 0.5	< 2
64605 Orig					
64605 Dup					
64615 Orig	59	< 10	346	0.5	< 2
64615 Dup	60	< 10	352	0.5	< 2
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	< 2	< 10	222	< 0.5	< 2
64646 Dup	< 2	< 10	230	< 0.5	< 2
GR25 Orig	14	< 10	< 10	< 0.5	< 2
GR25 Split PREP DUP	14	< 10	< 10	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig					
GR28 Dup					
GR33 Orig	9	< 10	15	< 0.5	< 2
GR33 Dup	9	< 10	11	< 0.5	< 2
GR40 Orig					
GR40 Dup					
AP-8 Orig	< 2	< 10	180	1	< 2
AP-8 Dup	< 2	< 10	169	0.9	< 2
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	< 2	< 10	109	< 0.5	< 2
GRKM-01 Dup	< 2	< 10	99	< 0.5	< 2
64622 Orig					
64622 Dup					
64625 Orig	13	< 10	135	< 0.5	< 2
64625 Dup	7	< 10	199	< 0.5	< 2
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.69	7	8	22.2	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-1 Meas	0.71	7	7	23.3	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-1 Meas	0.81	5	6	22.3	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-1 Meas	0.82	5	6	22.7	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-4 Meas	0.8	15	64	3.08	< 10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-4 Meas	0.81	16	65	3.14	< 10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-4 Meas	0.94	13	54	2.96	< 10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-4 Meas	0.96	14	56	3	< 10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-6 Meas	0.14	14	86	5.23	10
GXR-6 Cert	0.18	13.8	96	5.58	35
GXR-6 Meas	0.14	14	92	5.43	20
GXR-6 Cert	0.18	13.8	96	5.58	35
GXR-6 Meas	0.17	13	81	5.47	20
GXR-6 Cert	0.18	13.8	96	5.58	35
GXR-6 Meas	0.16	13	78	5.21	10
GXR-6 Cert	0.18	13.8	96	5.58	35
OREAS 922 (AQUA REGIA) Meas	0.38	22	56	5.4	< 10
OREAS 922 (AQUA REGIA) Cert	0.324	19.4	40.7	5.05	7.62
OREAS 922 (AQUA REGIA) Meas	0.38	23	55	5.47	< 10
OREAS 922 (AQUA REGIA) Cert	0.324	19.4	40.7	5.05	7.62
OREAS 922 (AQUA REGIA) Meas	0.45	18	47	5.11	< 10
OREAS 922 (AQUA REGIA) Cert	0.324	19.4	40.7	5.05	7.62
OREAS 923 (AQUA REGIA) Meas	0.38	25	51	6.06	< 10

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Cert	0.326	22.2	39.4	5.91	8.01
OREAS 923 (AQUA REGIA) Meas	0.37	25	50	6.05	< 10
OREAS 923 (AQUA REGIA) Cert	0.326	22.2	39.4	5.91	8.01
OREAS 923 (AQUA REGIA) Meas	0.47	21	44	6.04	< 10
OREAS 923 (AQUA REGIA) Cert	0.326	22.2	39.4	5.91	8.01
SdAR-M2 (U.S.G.S.) Meas		16	11		< 10
SdAR-M2 (U.S.G.S.) Cert		12.4	49.6		17.6
OxL118 Meas					
OxL118 Cert					
OxP116 Meas					
OxP116 Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	4.58	25	8	5.34	< 10
65105 Dup	4.49	23	8	5.17	< 10
65109 Orig					
65109 Dup					
65119 Orig	3.23	27	8	5.33	< 10



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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup	3.15	27	8	5.43	< 10
65121 Orig					
65121 Dup					
65132 Orig	3.71	25	8	5.13	< 10
65132 Dup	3.69	25	7	5.11	< 10
65133 Orig					
65133 Dup					
65142 Orig	3.67	24	6	6.03	< 10
65142 Split PREP DUP	3.47	23	8	5.88	< 10
65143 Orig					
65143 Dup					
65145 Orig	1.54	29	9	9.22	< 10
65145 Dup	1.48	29	8	8.84	< 10
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	0.05	5	13	2.26	< 10
65168 Dup	0.05	5	12	2.36	< 10
65178 Orig					
65178 Dup					
65182 Orig	0.23	10	22	2.51	< 10
65182 Dup	0.24	11	21	2.61	< 10
65190 Orig					
65190 Dup					
65192 Orig	0.1	24	5	5.3	< 10
65192 Split PREP DUP	0.1	24	8	5.21	< 10
65194 Orig	0.98	9	3	2.27	< 10
65194 Dup	1	9	4	2.32	< 10
65201 Orig					
65201 Dup					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig	2.53	12	2	1.33	< 10
65208 Dup	2.56	12	2	1.35	< 10
64988 Orig					
64988 Dup					
65000 Orig	2.18	19	27	4.42	< 10
65000 Dup	2.14	19	27	4.36	< 10
64980 Orig					
64982 Orig	4.86	26	8	5.75	< 10
64982 Dup	4.72	26	7	5.57	< 10
64947 Orig	3.25	29	12	5.45	< 10
64947 Split PREP DUP	3.34	30	13	5.68	< 10
64951 Orig					
64951 Dup					
64955 Orig	1.58	31	7	5.47	< 10
64955 Dup	1.54	31	7	5.36	< 10
64963 Orig					
64963 Dup					
64903 Orig	1.12	24	5	5.39	< 10
64903 Dup	1.15	24	5	5.55	< 10
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	2.47	22	3	7.41	< 10
64921 Dup	2.48	24	4	7.42	< 10
64931 Orig	3.83	17	13	5.21	< 10
64931 Split PREP DUP	3.76	18	11	5.16	< 10
64931 Split PREP DUP					
64934 Orig	3.82	17	13	4.98	< 10
64934 Dup	3.96	16	12	4.82	< 10
64943 Orig					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup					
64585 Orig	5.13	27	33	5.99	< 10
64585 Dup	5.33	28	35	6.23	< 10
64592 Orig					
64592 Dup					
64551 Orig	3.91	22	6	5.71	< 10
64551 Dup	3.97	22	6	5.56	< 10
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	4.38	21	8	5.49	< 10
64571 Split PREP DUP	4.27	20	8	5.41	< 10
64573 Orig	5.04	20	5	5.02	< 10
64573 Dup	5.13	20	5	5.07	< 10
64578 Orig					
64578 Dup					
64602 Orig	2.88	23	8	6.86	10
64602 Dup	2.82	23	8	6.65	10
64605 Orig					
64605 Dup					
64615 Orig	1.78	24	8	6	< 10
64615 Dup	1.79	24	9	6.09	< 10
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	4.65	21	9	5.97	< 10
64646 Dup	4.79	22	10	6.18	< 10
GR25 Orig	0.01	26	7	3.09	< 10
GR25 Split PREP DUP	0.01	26	11	3.42	< 10

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig					
GR28 Dup					
GR33 Orig	0.02	37	11	5.19	< 10
GR33 Dup	0.02	35	10	5.06	< 10
GR40 Orig					
GR40 Dup					
AP-8 Orig	2.9	17	28	5.1	10
AP-8 Dup	2.7	17	27	4.78	10
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	0.31	4	19	1.49	< 10
GRKM-01 Dup	0.28	3	18	1.4	< 10
64622 Orig					
64622 Dup					
64625 Orig	1.53	22	4	6	< 10
64625 Dup	1.45	21	4	5.66	< 10
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Report Number: A17-08614

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank					

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	2	0.03	< 10	0.13	0.055
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-1 Meas	2	0.03	< 10	0.14	0.054
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-1 Meas	4	0.03	< 10	0.13	0.055
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-1 Meas	3	0.03	< 10	0.13	0.051
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-4 Meas	2	1.68	46	1.57	0.147
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-4 Meas	< 1	1.68	47	1.61	0.142
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-4 Meas	< 1	1.54	46	1.57	0.134
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-4 Meas	< 1	1.56	47	1.58	0.131
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-6 Meas	3	1.01	< 10	0.36	0.082
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
GXR-6 Meas	1	1.08	11	0.39	0.087
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
GXR-6 Meas	2	1.09	10	0.4	0.088
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
GXR-6 Meas	3	1.01	< 10	0.38	0.079
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
OREAS 922 (AQUA REGIA) Meas		0.47	41	1.37	0.035
OREAS 922 (AQUA REGIA) Cert		0.376	32.5	1.33	0.021
OREAS 922 (AQUA REGIA) Meas		0.46	41	1.43	0.033
OREAS 922 (AQUA REGIA) Cert		0.376	32.5	1.33	0.021
OREAS 922 (AQUA REGIA) Meas		0.45	39	1.38	0.03
OREAS 922 (AQUA REGIA) Cert		0.376	32.5	1.33	0.021
OREAS 923 (AQUA REGIA) Meas		0.41	37	1.47	

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Cert		0.322	30.0	1.43	
OREAS 923 (AQUA REGIA) Meas		0.38	36	1.47	
OREAS 923 (AQUA REGIA) Cert		0.322	30.0	1.43	
OREAS 923 (AQUA REGIA) Meas		0.41	37	1.51	
OREAS 923 (AQUA REGIA) Cert		0.322	30.0	1.43	
SdAR-M2 (U.S.G.S.) Meas	1		49		
SdAR-M2 (U.S.G.S.) Cert	1.44		46.6		
OxL118 Meas					
OxL118 Cert					
OxP116 Meas					
OxP116 Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	< 1	0.5	< 10	1.88	0.048
65105 Dup	< 1	0.49	< 10	1.81	0.046
65109 Orig					
65109 Dup					
65119 Orig	< 1	0.42	< 10	2.5	0.047



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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup	< 1	0.42	< 10	2.52	0.047
65121 Orig					
65121 Dup					
65132 Orig	< 1	0.52	< 10	2.09	0.04
65132 Dup	< 1	0.53	< 10	2.07	0.041
65133 Orig					
65133 Dup					
65142 Orig	< 1	0.72	< 10	1.9	0.05
65142 Split PREP DUP	2	0.62	< 10	1.85	0.046
65143 Orig					
65143 Dup					
65145 Orig	< 1	1.34	< 10	2.66	0.052
65145 Dup	< 1	1.27	< 10	2.56	0.049
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	< 1	0.35	11	0.14	0.029
65168 Dup	< 1	0.37	11	0.14	0.029
65178 Orig					
65178 Dup					
65182 Orig	< 1	0.28	22	0.54	0.039
65182 Dup	< 1	0.3	22	0.56	0.038
65190 Orig					
65190 Dup					
65192 Orig	3	0.32	< 10	0.07	0.062
65192 Split PREP DUP	3	0.31	< 10	0.07	0.059
65194 Orig	< 1	0.46	19	0.44	0.052
65194 Dup	< 1	0.53	20	0.46	0.056
65201 Orig					
65201 Dup					

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig	< 1	0.52	25	0.39	0.074
65208 Dup	< 1	0.55	26	0.39	0.076
64988 Orig					
64988 Dup					
65000 Orig	< 1	0.16	< 10	1.31	0.255
65000 Dup	< 1	0.16	< 10	1.29	0.253
64980 Orig					
64982 Orig	< 1	0.42	< 10	2.02	0.039
64982 Dup	< 1	0.42	< 10	1.96	0.039
64947 Orig	< 1	0.35	< 10	2.63	0.043
64947 Split PREP DUP	1	0.36	< 10	2.75	0.046
64951 Orig					
64951 Dup					
64955 Orig	< 1	0.59	12	1.67	0.031
64955 Dup	< 1	0.56	12	1.64	0.028
64963 Orig					
64963 Dup					
64903 Orig	< 1	0.64	13	1.87	0.04
64903 Dup	< 1	0.64	13	1.91	0.04
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	< 1	0.42	10	2.5	0.034
64921 Dup	3	0.43	10	2.49	0.033
64931 Orig	< 1	0.21	11	2.9	0.061
64931 Split PREP DUP	< 1	0.2	10	2.85	0.057
64931 Split PREP DUP					
64934 Orig	< 1	0.37	13	1.97	0.069
64934 Dup	1	0.35	12	1.95	0.066
64943 Orig					

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup					
64585 Orig	1	0.26	< 10	3.19	0.028
64585 Dup	< 1	0.28	< 10	3.31	0.031
64592 Orig					
64592 Dup					
64551 Orig	< 1	0.46	11	2.25	0.033
64551 Dup	< 1	0.45	10	2.19	0.032
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	< 1	0.53	< 10	1.87	0.029
64571 Split PREP DUP	< 1	0.54	< 10	1.83	0.031
64573 Orig	2	0.46	< 10	1.9	0.033
64573 Dup	< 1	0.49	< 10	1.9	0.034
64578 Orig					
64578 Dup					
64602 Orig	5	0.36	< 10	2.35	0.031
64602 Dup	< 1	0.35	< 10	2.29	0.031
64605 Orig					
64605 Dup					
64615 Orig	< 1	0.48	10	2.74	0.029
64615 Dup	< 1	0.51	11	2.78	0.031
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	< 1	0.39	11	1.96	0.049
64646 Dup	3	0.41	12	2.03	0.05
GR25 Orig	15	0.1	< 10	0.01	0.022
GR25 Split PREP DUP	14	0.15	< 10	0.02	0.043

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig					
GR28 Dup					
GR33 Orig	< 1	0.05	< 10	< 0.01	0.025
GR33 Dup	< 1	0.05	< 10	< 0.01	0.024
GR40 Orig					
GR40 Dup					
AP-8 Orig	< 1	0.49	44	1.58	0.078
AP-8 Dup	< 1	0.46	40	1.48	0.073
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	< 1	0.12	< 10	0.5	0.083
GRKM-01 Dup	< 1	0.11	< 10	0.47	0.075
64622 Orig					
64622 Dup					
64625 Orig	< 1	0.56	10	1.62	0.026
64625 Dup	2	0.54	< 10	1.53	0.026
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 1	< 0.01	< 10	< 0.01	0.01
Method Blank	< 1	< 0.01	< 10	< 0.01	0.011
Method Blank	< 1	< 0.01	< 10	< 0.01	0.012
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 1	< 0.01	< 10	< 0.01	0.014
Method Blank	< 1	< 0.01	< 10	< 0.01	0.015
Method Blank	< 1	< 0.01	< 10	< 0.01	0.011
Method Blank					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.043	0.2	83	1	182
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-1 Meas	0.043	0.21	88	1	182
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-1 Meas	0.043	0.2	80	1	178
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-1 Meas	0.044	0.19	90	1	177
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-4 Meas	0.125	1.7	5	7	75
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-4 Meas	0.127	1.75	3	7	75
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-4 Meas	0.121	1.63	5	7	72
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-4 Meas	0.123	1.69	2	7	73
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-6 Meas	0.032	0.01	2	21	32
GXR-6 Cert	0.035	0.016	3.6	27.6	35
GXR-6 Meas	0.034	0.01	3	22	34
GXR-6 Cert	0.035	0.016	3.6	27.6	35
GXR-6 Meas	0.034	0.01	3	21	34
GXR-6 Cert	0.035	0.016	3.6	27.6	35
GXR-6 Meas	0.032	0.01	3	20	31
GXR-6 Cert	0.035	0.016	3.6	27.6	35
OREAS 922 (AQUA REGIA) Meas	0.063	0.37	3	4	17
OREAS 922 (AQUA REGIA) Cert	0.063	0.386	0.57	3.15	15.0
OREAS 922 (AQUA REGIA) Meas	0.066	0.38	2	4	18
OREAS 922 (AQUA REGIA) Cert	0.063	0.386	0.57	3.15	15.0
OREAS 922 (AQUA REGIA) Meas	0.064	0.36	< 2	4	16
OREAS 922 (AQUA REGIA) Cert	0.063	0.386	0.57	3.15	15.0
OREAS 923 (AQUA REGIA) Meas	0.061	0.65	< 2	4	15

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 923 (AQUA REGIA) Cert	0.061	0.684	0.58	3.09	13.6
OREAS 923 (AQUA REGIA) Meas	0.062	0.66	2	4	15
OREAS 923 (AQUA REGIA) Cert	0.061	0.684	0.58	3.09	13.6
OREAS 923 (AQUA REGIA) Meas	0.062	0.68	4	4	16
OREAS 923 (AQUA REGIA) Cert	0.061	0.684	0.58	3.09	13.6
SdAR-M2 (U.S.G.S.) Meas				3	24
SdAR-M2 (U.S.G.S.) Cert				4.1	144
OxL118 Meas					
OxL118 Cert					
OxP116 Meas					
OxP116 Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	0.112	0.15	3	9	167
65105 Dup	0.108	0.15	3	9	163
65109 Orig					
65109 Dup					
65119 Orig	0.116	0.11	4	11	241



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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup	0.118	0.11	5	11	238
65121 Orig					
65121 Dup					
65132 Orig	0.114	< 0.01	2	10	197
65132 Dup	0.112	< 0.01	2	10	199
65133 Orig					
65133 Dup					
65142 Orig	0.109	0.16	4	9	105
65142 Split PREP DUP	0.109	0.1	3	8	98
65143 Orig					
65143 Dup					
65145 Orig	0.113	1.33	5	16	63
65145 Dup	0.109	1.28	5	15	60
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	0.024	1.62	4	2	8
65168 Dup	0.025	1.72	3	2	9
65178 Orig					
65178 Dup					
65182 Orig	0.058	0.54	< 2	3	12
65182 Dup	0.06	0.56	< 2	3	13
65190 Orig					
65190 Dup					
65192 Orig	0.044	5.08	13	1	10
65192 Split PREP DUP	0.043	5.13	13	1	10
65194 Orig	0.054	0.88	5	2	73
65194 Dup	0.055	0.9	5	2	75
65201 Orig					
65201 Dup					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig	0.068	0.09	< 2	3	65
65208 Dup	0.069	0.09	< 2	3	67
64988 Orig					
64988 Dup					
65000 Orig	0.04	2.28	165	4	94
65000 Dup	0.039	2.27	161	4	94
64980 Orig					
64982 Orig	0.097	0.06	3	10	145
64982 Dup	0.094	0.06	3	10	142
64947 Orig	0.094	0.04	4	9	250
64947 Split PREP DUP	0.097	0.04	4	10	260
64951 Orig					
64951 Dup					
64955 Orig	0.141	0.02	5	14	197
64955 Dup	0.138	0.02	4	13	191
64963 Orig					
64963 Dup					
64903 Orig	0.129	< 0.01	4	8	34
64903 Dup	0.133	< 0.01	3	8	36
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	0.122	0.02	5	10	190
64921 Dup	0.124	< 0.01	6	10	195
64931 Orig	0.113	0.03	3	11	78
64931 Split PREP DUP	0.113	0.02	4	11	77
64931 Split PREP DUP					
64934 Orig	0.119	0.03	2	11	124
64934 Dup	0.114	0.16	4	10	119
64943 Orig					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup					
64585 Orig	0.071	0.29	5	18	168
64585 Dup	0.075	0.3	4	19	179
64592 Orig					
64592 Dup					
64551 Orig	0.135	0.21	5	11	119
64551 Dup	0.129	0.17	4	11	116
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	0.109	0.02	5	9	132
64571 Split PREP DUP	0.107	< 0.01	4	9	128
64573 Orig	0.111	0.03	4	11	166
64573 Dup	0.112	0.05	4	12	171
64578 Orig					
64578 Dup					
64602 Orig	0.12	0.43	6	17	142
64602 Dup	0.119	0.47	5	16	139
64605 Orig					
64605 Dup					
64615 Orig	0.128	0.12	7	10	49
64615 Dup	0.125	0.14	9	10	49
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	0.101	< 0.01	6	12	137
64646 Dup	0.103	< 0.01	3	12	141
GR25 Orig	0.003	10.1	23	< 1	3
GR25 Split PREP DUP	0.003	10.1	21	< 1	3

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig					
GR28 Dup					
GR33 Orig	< 0.001	5.4	3	< 1	1
GR33 Dup	< 0.001	5.09	3	< 1	1
GR40 Orig					
GR40 Dup					
AP-8 Orig	0.222	< 0.01	5	6	118
AP-8 Dup	0.208	< 0.01	6	5	110
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	0.036	< 0.01	< 2	3	62
GRKM-01 Dup	0.033	< 0.01	< 2	3	55
64622 Orig					
64622 Dup					
64625 Orig	0.132	0.39	5	9	35
64625 Dup	0.126	0.37	6	9	34
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Report Number: A17-08614

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	0.03	< 2	< 1	< 1
Method Blank					

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	< 0.01	< 20	15	< 2	28
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-1 Meas	< 0.01	< 20	7	< 2	30
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-1 Meas	< 0.01	< 20	17	< 2	34
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-1 Meas	< 0.01	< 20	12	< 2	34
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-4 Meas	0.14	< 20	2	4	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-4 Meas	0.15	< 20	3	2	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-4 Meas	0.14	< 20	3	< 2	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-4 Meas	0.14	< 20	3	3	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-6 Meas		< 20	< 1	< 2	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
GXR-6 Meas		< 20	< 1	< 2	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
GXR-6 Meas		< 20	4	< 2	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
GXR-6 Meas		< 20	< 1	< 2	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
OREAS 922 (AQUA REGIA) Meas		< 20		< 2	< 10
OREAS 922 (AQUA REGIA) Cert		14.5		0.14	1.98
OREAS 922 (AQUA REGIA) Meas		< 20		< 2	< 10
OREAS 922 (AQUA REGIA) Cert		14.5		0.14	1.98
OREAS 922 (AQUA REGIA) Meas		< 20		< 2	< 10
OREAS 922 (AQUA REGIA) Cert		14.5		0.14	1.98
OREAS 923 (AQUA REGIA) Meas		< 20		< 2	< 10



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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	0.15	< 20	6	< 2	< 10
65105 Dup	0.15	< 20	2	< 2	< 10
65109 Orig					
65109 Dup					
65119 Orig	0.31	< 20	< 1	< 2	< 10



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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65119 Dup	0.31	< 20	3	< 2	< 10
65121 Orig					
65121 Dup					
65132 Orig	0.28	< 20	4	< 2	< 10
65132 Dup	0.27	< 20	2	< 2	< 10
65133 Orig					
65133 Dup					
65142 Orig	0.22	< 20	< 1	< 2	< 10
65142 Split PREP DUP	0.22	< 20	3	< 2	< 10
65143 Orig					
65143 Dup					
65145 Orig	0.27	< 20	< 1	< 2	< 10
65145 Dup	0.25	< 20	1	< 2	< 10
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	< 0.01	< 20	3	< 2	< 10
65168 Dup	< 0.01	< 20	1	< 2	< 10
65178 Orig					
65178 Dup					
65182 Orig	0.05	< 20	< 1	< 2	< 10
65182 Dup	0.05	< 20	< 1	< 2	< 10
65190 Orig					
65190 Dup					
65192 Orig	< 0.01	< 20	< 1	4	< 10
65192 Split PREP DUP	< 0.01	< 20	4	3	< 10
65194 Orig	< 0.01	< 20	< 1	< 2	< 10
65194 Dup	< 0.01	< 20	< 1	< 2	< 10
65201 Orig					
65201 Dup					

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Orig	0.07	< 20	3	< 2	< 10
65208 Dup	0.08	< 20	3	< 2	< 10
64988 Orig					
64988 Dup					
65000 Orig	0.13	< 20	2	< 2	< 10
65000 Dup	0.13	< 20	< 1	< 2	< 10
64980 Orig					
64982 Orig	0.25	< 20	< 1	< 2	< 10
64982 Dup	0.24	< 20	5	< 2	< 10
64947 Orig	0.32	< 20	2	< 2	< 10
64947 Split PREP DUP	0.34	< 20	3	< 2	< 10
64951 Orig					
64951 Dup					
64955 Orig	0.18	< 20	9	< 2	< 10
64955 Dup	0.18	< 20	8	< 2	< 10
64963 Orig					
64963 Dup					
64903 Orig	0.08	< 20	< 1	< 2	< 10
64903 Dup	0.08	< 20	< 1	< 2	< 10
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	0.09	< 20	2	4	< 10
64921 Dup	0.09	< 20	1	10	< 10
64931 Orig	0.22	< 20	< 1	< 2	< 10
64931 Split PREP DUP	0.22	< 20	< 1	< 2	< 10
64931 Split PREP DUP					
64934 Orig	0.2	< 20	2	< 2	< 10
64934 Dup	0.19	< 20	2	< 2	< 10
64943 Orig					

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64943 Dup					
64585 Orig	0.31	< 20	< 1	2	< 10
64585 Dup	0.33	< 20	5	< 2	< 10
64592 Orig					
64592 Dup					
64551 Orig	0.19	< 20	< 1	< 2	< 10
64551 Dup	0.19	< 20	3	3	< 10
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	0.33	< 20	7	3	< 10
64571 Split PREP DUP	0.32	< 20	4	< 2	< 10
64573 Orig	0.3	< 20	< 1	< 2	< 10
64573 Dup	0.32	< 20	3	< 2	< 10
64578 Orig					
64578 Dup					
64602 Orig	0.16	< 20	< 1	< 2	< 10
64602 Dup	0.16	< 20	< 1	< 2	< 10
64605 Orig					
64605 Dup					
64615 Orig	0.17	< 20	< 1	< 2	< 10
64615 Dup	0.16	< 20	1	< 2	< 10
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	0.23	< 20	9	< 2	< 10
64646 Dup	0.24	< 20	< 1	< 2	< 10
GR25 Orig	< 0.01	< 20	< 1	< 2	< 10
GR25 Split PREP DUP	< 0.01	< 20	2	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GR28 Orig					
GR28 Dup					
GR33 Orig	< 0.01	< 20	1	< 2	< 10
GR33 Dup	< 0.01	< 20	< 1	< 2	< 10
GR40 Orig					
GR40 Dup					
AP-8 Orig	< 0.01	< 20	< 1	< 2	< 10
AP-8 Dup	< 0.01	< 20	< 1	< 2	< 10
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	0.1	< 20	4	< 2	< 10
GRKM-01 Dup	0.09	< 20	< 1	< 2	< 10
64622 Orig					
64622 Dup					
64625 Orig	0.28	< 20	< 1	< 2	< 10
64625 Dup	0.28	< 20	9	< 2	< 10
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank	< 0.01	< 20	< 1	3	< 10
Method Blank	< 0.01	< 20	< 1	3	< 10
Method Blank					

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
GXR-1 Meas	83	142	24	11	
GXR-1 Cert	80	164	32	38	
GXR-1 Meas	85	147	25	12	
GXR-1 Cert	80	164	32	38	
GXR-1 Meas	79	141	24	12	
GXR-1 Cert	80	164	32	38	
GXR-1 Meas	80	142	24	12	
GXR-1 Cert	80	164	32	38	
GXR-4 Meas	88	12	12	8	
GXR-4 Cert	87	30.8	14	186	
GXR-4 Meas	89	13	12	9	
GXR-4 Cert	87	30.8	14	186	
GXR-4 Meas	80	12	11	8	
GXR-4 Cert	87	30.8	14	186	
GXR-4 Meas	82	12	12	8	
GXR-4 Cert	87	30.8	14	186	
GXR-6 Meas	167	< 10	6	5	
GXR-6 Cert	186	1.9	14	110	
GXR-6 Meas	179	< 10	6	6	
GXR-6 Cert	186	1.9	14	110	
GXR-6 Meas	172	< 10	5	5	
GXR-6 Cert	186	1.9	14	110	
GXR-6 Meas	165	< 10	5	5	
GXR-6 Cert	186	1.9	14	110	
OREAS 922 (AQUA REGIA) Meas	40	< 10	22	16	
OREAS 922 (AQUA REGIA) Cert	29.4	1.12	16.0	22.3	
OREAS 922 (AQUA REGIA) Meas	40	< 10	22	19	
OREAS 922 (AQUA REGIA) Cert	29.4	1.12	16.0	22.3	
OREAS 922 (AQUA REGIA) Meas	38	< 10	21	27	
OREAS 922 (AQUA REGIA) Cert	29.4	1.12	16.0	22.3	
OREAS 923 (AQUA REGIA) Meas	40	< 10	20	23	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
OREAS 923 (AQUA REGIA) Cert	30.6	1.96	14.3	22.5	
OREAS 923 (AQUA REGIA) Meas	39	< 10	19	29	
OREAS 923 (AQUA REGIA) Cert	30.6	1.96	14.3	22.5	
OREAS 923 (AQUA REGIA) Meas	38	< 10	20	25	
OREAS 923 (AQUA REGIA) Cert	30.6	1.96	14.3	22.5	
SdAR-M2 (U.S.G.S.) Meas	21	< 10	19	5	
SdAR-M2 (U.S.G.S.) Cert	25.2	2.8	32.7	259	
OxL118 Meas					5.71
OxL118 Cert					5.828
OxP116 Meas					14.9
OxP116 Cert					14.92
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 223 (Fire Assay) Meas					
OREAS 223 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
65098 Orig					
65098 Dup					
65105 Orig	95	< 10	11	3	
65105 Dup	93	< 10	11	3	
65109 Orig					
65109 Dup					
65119 Orig	117	< 10	10	5	



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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65119 Dup	117	< 10	10	5	
65121 Orig					
65121 Dup					
65132 Orig	102	< 10	10	4	
65132 Dup	101	< 10	10	4	
65133 Orig					
65133 Dup					
65142 Orig	105	< 10	13	3	
65142 Split PREP DUP	99	< 10	13	3	
65143 Orig					
65143 Dup					
65145 Orig	173	< 10	10	4	
65145 Dup	167	< 10	10	3	
65155 Orig					
65155 Dup					
65167 Orig					
65167 Dup					
65168 Orig	16	< 10	2	3	
65168 Dup	17	< 10	2	3	
65178 Orig					
65178 Dup					
65182 Orig	32	< 10	6	4	
65182 Dup	34	< 10	6	4	
65190 Orig					
65190 Dup					
65192 Orig	10	< 10	3	3	
65192 Split PREP DUP	10	< 10	3	3	
65194 Orig	16	< 10	6	2	
65194 Dup	18	< 10	6	2	
65201 Orig					
65201 Dup					

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65208 Orig	23	< 10	11	5	
65208 Dup	23	< 10	11	5	
64988 Orig					
64988 Dup					
65000 Orig	73	12	7	3	
65000 Dup	71	16	7	3	
64980 Orig					
64982 Orig	121	< 10	14	3	
64982 Dup	118	< 10	14	3	
64947 Orig	103	< 10	12	3	
64947 Split PREP DUP	107	< 10	12	4	
64951 Orig					
64951 Dup					
64955 Orig	112	< 10	15	4	
64955 Dup	109	< 10	15	4	
64963 Orig					
64963 Dup					
64903 Orig	105	< 10	10	2	
64903 Dup	107	< 10	10	3	
64909 Orig					
64909 Dup					
64920 Orig					
64920 Dup					
64921 Orig	109	< 10	11	5	
64921 Dup	109	< 10	11	5	
64931 Orig	106	< 10	11	7	
64931 Split PREP DUP	105	< 10	11	7	
64931 Split PREP DUP					
64934 Orig	113	< 10	12	7	
64934 Dup	107	< 10	11	7	
64943 Orig					

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64943 Dup					
64585 Orig	119	< 10	11	4	
64585 Dup	126	< 10	12	4	
64592 Orig					
64592 Dup					
64551 Orig	119	< 10	11	5	
64551 Dup	117	< 10	11	5	
64556 Orig					
64556 Dup					
64568 Orig					
64568 Dup					
64571 Orig	103	< 10	13	5	
64571 Split PREP DUP	103	< 10	13	4	
64573 Orig	98	< 10	13	5	
64573 Dup	103	< 10	14	5	
64578 Orig					
64578 Dup					
64602 Orig	168	< 10	11	6	
64602 Dup	163	< 10	10	6	
64605 Orig					
64605 Dup					
64615 Orig	106	< 10	12	3	
64615 Dup	110	< 10	12	2	
64617 Orig					
64617 Dup					
64645 Orig					
64645 Dup					
64646 Orig	103	< 10	12	3	
64646 Dup	107	< 10	13	3	
GR25 Orig	6	< 10	< 1	1	5.66
GR25 Split PREP DUP	9	< 10	1	1	6.57

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
GR28 Orig					
GR28 Dup					
GR33 Orig	3	< 10	< 1	1	
GR33 Dup	3	< 10	< 1	1	
GR40 Orig					
GR40 Dup					
AP-8 Orig	55	< 10	11	2	
AP-8 Dup	51	< 10	10	2	
AP-10 Orig					
AP-10 Dup					
GRKM-01 Orig	30	< 10	5	< 1	
GRKM-01 Dup	28	< 10	4	< 1	
64622 Orig					
64622 Dup					
64625 Orig	111	< 10	11	5	
64625 Dup	107	< 10	11	5	
64630 Orig					
64630 Dup					
64636 Orig					
64636 Dup					
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank					

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	1370	0.4	6	89	2830
64650	11	< 0.2	< 0.5	1	893
64651	490	0.6	12	329	3160
64652	63	< 0.2	5.6	30	3450
64653	15	< 0.2	0.7	67	3480
64654	37	0.3	1.1	156	2960
64655	8	< 0.2	1.7	23	3120
64656	19	1.9	8.8	370	3560
64657	92	0.3	2.4	57	3470
64658	15	0.4	13.4	29	3580
64659	13	< 0.2	2.7	7	3860
64660	> 5000	> 100	< 0.5	112	785
64661	46	0.6	44.3	105	3450
64662	10	< 0.2	0.5	8	3700
64663	5	< 0.2	< 0.5	4	3700
64664	10	< 0.2	< 0.5	10	3580
64665	177	0.3	29.2	63	2490
64666	6	< 0.2	< 0.5	1	1430
64667	15	< 0.2	< 0.5	20	2380
64668	17	< 0.2	< 0.5	1	2330
64669	43	< 0.2	< 0.5	2	2120
64670	< 5	< 0.2	< 0.5	< 1	653
64671	22	< 0.2	< 0.5	1	2130
64672	11	< 0.2	6.2	18	2210
64673	7	< 0.2	3.7	119	2220
64674	< 5	< 0.2	< 0.5	10	2090
64675	< 5	< 0.2	< 0.5	1	2260
64676	10	< 0.2	< 0.5	< 1	2160
64677	6	< 0.2	1	18	2320
64678	6	< 0.2	2.1	53	2280
64679	8	< 0.2	1.2	19	2140

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	69	85.9	174	1960	1690
64681	382	< 0.2	< 0.5	18	2150
64682	122	< 0.2	< 0.5	1	2120
64683	5	< 0.2	< 0.5	1	2260
64684	< 5	< 0.2	< 0.5	< 1	2280
64685	67	< 0.2	< 0.5	< 1	2670
64686	22	< 0.2	< 0.5	< 1	2790
64687	< 5	< 0.2	< 0.5	< 1	3020
64688	11	0.5	23.5	111	2840
64689	8	0.8	24.5	67	3070
64690	< 5	< 0.2	< 0.5	2	605
64691	16	2.8	97	547	2980
64692	< 5	< 0.2	1.5	2	3150
64693	< 5	< 0.2	0.7	6	3110
64694	46	2.6	25.2	414	2190
64695	< 5	< 0.2	0.6	3	1150
64696	18	0.3	0.8	17	970
64697	7	0.2	< 0.5	30	1060
64698	15	0.3	0.6	370	1290
64699	< 5	< 0.2	< 0.5	16	1210
64700	62	89	180	2040	1730
65208	50	< 0.2	3.1	48	3540
65209	12	< 0.2	< 0.5	< 1	2500
65210	< 5	< 0.2	< 0.5	< 1	570
65211	< 5	< 0.2	< 0.5	1	1710
65212	< 5	< 0.2	< 0.5	< 1	1740
65213	< 5	< 0.2	< 0.5	< 1	1680
65214	19	< 0.2	< 0.5	20	1850
65215	5	< 0.2	2.1	10	2180
65216	16	0.9	8.5	16	2140
65217	11	< 0.2	< 0.5	4	2360

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	11	< 0.2	0.5	7	2380
65219	< 5	< 0.2	0.9	5	2560
65220	1850	0.6	< 0.5	165	1400
65221	7	< 0.2	< 0.5	7	2390
65222	13	< 0.2	< 0.5	20	2120
65223	25	< 0.2	0.6	7	2190
65224	26	< 0.2	< 0.5	< 1	2180
65225	18	0.2	1.4	9	2410
65226	27	0.3	11.5	30	2600
65227	11	< 0.2	< 0.5	4	2890
65228	11	< 0.2	0.7	10	2810
65229	15	< 0.2	0.9	18	2750
65230	< 5	< 0.2	< 0.5	2	491
65231	49	0.4	52.4	48	2570
65232	34	< 0.2	< 0.5	4	2430
65233	48	< 0.2	3.7	9	2270
65234	15	< 0.2	< 0.5	3	2410
65235	32	< 0.2	< 0.5	7	2370
65236	273	0.5	11.8	44	2270
65237	141	< 0.2	< 0.5	21	2530
65238	16	< 0.2	< 0.5	21	2300
65239	8	< 0.2	1.8	20	2270
65240	1790	0.7	< 0.5	158	1320
65241	15	< 0.2	< 0.5	< 1	2200
65242	7	< 0.2	0.6	< 1	2450
65243	11	< 0.2	< 0.5	6	2600
65244	13	0.6	7.7	159	2480
65245	56	< 0.2	< 0.5	22	2100
65246	22	< 0.2	< 0.5	< 1	1820
65247	6	< 0.2	9.5	13	2150
65248	< 5	< 0.2	< 0.5	2	2240



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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	10	< 0.2	0.7	10	2350
65250	< 5	< 0.2	< 0.5	3	226
65251	6	< 0.2	8.3	30	2490
65252	9	< 0.2	3.8	31	2310
65253	< 5	< 0.2	< 0.5	1	1790
65254	< 5	< 0.2	< 0.5	< 1	1380
65255	< 5	< 0.2	< 0.5	2	1780
65256	63	< 0.2	< 0.5	< 1	1850
65257	< 5	2.8	< 0.5	8	670
65258	< 5	10.4	1.6	33	243
65259	< 5	5.6	0.5	19	408
65260	> 5000	> 100	< 0.5	107	774
65261	14	7.4	1	29	364
65262	< 5	6.3	1.1	21	264
65263	7	5.7	0.7	20	233
65264	< 5	3	0.5	17	254
65265	< 5	3.6	1.6	16	684
65266	< 5	4.5	1.3	8	644
65267	5	2.2	< 0.5	7	597
65268	11	4.7	2	12	496
65269	5	5.3	2.2	15	264
65270	< 5	< 0.2	< 0.5	1	527
65271	51	23.7	1.7	57	293
65272	19	9.8	2.5	20	574
65273	< 5	2.6	1.5	10	434
65274	< 5	2.6	2	22	588
65275	6	4.6	6.8	38	451
65276	< 5	3	1.4	14	594
65277	24	11.9	16.4	121	496
65278	5	1.6	0.9	19	938
65279	7	2.5	29	11	397

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	> 5000	> 100	< 0.5	107	778
65281	15	1	4.5	7	794
65282	< 5	0.3	3	5	743
65283	8	1.6	4.2	12	419
65284	< 5	0.9	39	8	649
65285	< 5	0.4	1.9	6	565
65286	< 5	1.2	1.4	10	291
65287	< 5	0.4	< 0.5	64	1060
65288	< 5	< 0.2	0.5	7	2110
65289	< 5	0.4	< 0.5	31	1020
65290	< 5	< 0.2	< 0.5	2	597
65368	718	1.7	12.5	243	4190
65369	141	0.7	6.7	188	3020
65370	< 5	< 0.2	< 0.5	5	553
65371	286	1.2	5.4	343	3390
65372	55	1.3	6.8	568	4430
65373	79	1.5	5.6	528	4810
65374	241	0.8	10.9	394	2980
65375	14	< 0.2	31.4	159	1890
65376	< 5	< 0.2	13.4	38	1540
65377	< 5	< 0.2	7.4	31	2270
65378	< 5	< 0.2	0.8	6	2140
65379	52	0.3	29.7	60	2290
65380	> 5000	> 100	< 0.5	110	791
65381	38	< 0.2	4.9	46	3310
65382	66	< 0.2	19	124	3300
65383	370	0.3	22.3	411	3770
65384	397	1.1	59.2	297	3520
65385	135	0.4	13.2	289	3280
65386	72	< 0.2	2.4	2	3180
65387	140	< 0.2	0.7	< 1	3640

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	62	0.3	12.7	106	4020
65389	22	0.6	25.4	67	4320
65390	< 5	< 0.2	< 0.5	5	544
65391	40	< 0.2	2.7	< 1	4560
65392	4740	5.6	6.3	876	4680
65393	> 5000	11.3	9.4	8540	4780
65394	150	5.4	9.1	3300	4040
65395	307	4.6	14.9	2600	4620
65396	19	< 0.2	12.2	87	3940
65397	28	1.3	20.6	640	3900
65398	1800	23.7	21.7	> 10000	3060
65399	1170	0.7	15.9	99	3890
65400	> 5000	> 100	< 0.5	107	758
65401	204	0.8	14.9	581	4110
65402	145	< 0.2	4.2	9	3810
65403	39	< 0.2	13.5	71	4150
65404	5	< 0.2	19.8	39	3880
65405	102	2	22.4	323	3860
65406	53	0.7	32.4	64	3680
65407	274	6.6	12.9	8380	3410
65408	48	0.6	3.7	500	3910
65409	30	< 0.2	3.1	27	3640
65410	< 5	< 0.2	< 0.5	7	613
65411	135	< 0.2	< 0.5	24	3700
65412	50	< 0.2	< 0.5	16	3460
65413	18	< 0.2	0.9	71	3270
65414	48	1.6	2	1540	3020
65415	8	< 0.2	1.9	237	3730
65416	64	1.3	1.7	1140	3430
65417	52	0.6	19.9	147	3520
65418	27	< 0.2	8.4	105	3580

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	680	3.3	4.5	4010	3680
65420	1720	0.5	< 0.5	147	1240
65421	998	2.3	5.3	2600	2250
65422	165	1.2	30.5	1180	3480
65423	7	< 0.2	0.5	31	3610
65424	45	< 0.2	< 0.5	1	3870
65425	93	< 0.2	1	1	3500
65426	32	0.5	1.2	105	3110
65427	69	< 0.2	< 0.5	3	2890
65428	31	< 0.2	< 0.5	< 1	2720
65429	273	0.3	1	11	2640
65430	< 5	< 0.2	< 0.5	3	497
65431	< 5	< 0.2	< 0.5	26	2210
65432	< 5	< 0.2	0.6	< 1	1750
65433	< 5	< 0.2	< 0.5	< 1	1470
65434	7	< 0.2	< 0.5	26	1570
65435	195	0.7	< 0.5	148	877
65436	52	0.3	0.7	26	1330
65437	32	0.5	< 0.5	17	1410
65438	39	0.3	0.6	24	1170
65439	62	< 0.2	0.7	15	1270
65440	> 5000	> 100	< 0.5	114	788
65441	58	0.4	0.8	141	1380
65442	655	2.7	1.8	7410	1090
65443	62	< 0.2	5.3	165	1110
65444	54	0.8	< 0.5	57	715

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	< 1	7	121	736	2.95
64650	1	1	20	51	1.91
64651	< 1	6	208	1340	2.91
64652	< 1	6	87	778	3.03
64653	< 1	4	51	411	3.03
64654	< 1	5	92	351	2.66
64655	< 1	5	25	527	3.1
64656	< 1	4	268	891	2.38
64657	< 1	9	79	575	3.29
64658	< 1	9	277	1380	3.44
64659	< 1	11	128	698	3.74
64660	5	14	12	66	2.8
64661	< 1	10	282	5120	3.14
64662	< 1	13	38	463	4.04
64663	< 1	10	19	352	3.7
64664	< 1	12	21	256	3.35
64665	< 1	5	440	1520	3.16
64666	< 1	3	9	178	1.77
64667	< 1	6	72	337	3.26
64668	< 1	4	14	288	3.13
64669	< 1	6	26	316	3.09
64670	< 1	2	17	50	2.01
64671	< 1	4	17	404	3.15
64672	< 1	6	94	721	2.9
64673	< 1	3	71	648	3.33
64674	< 1	6	23	370	2.96
64675	< 1	6	19	393	2.96
64676	< 1	7	18	383	2.94
64677	< 1	7	133	480	3
64678	< 1	9	310	540	3.37
64679	< 1	8	95	427	3.34

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	6	15	> 5000	> 10000	1.85
64681	< 1	8	7	341	3.46
64682	< 1	7	5	250	3.44
64683	< 1	7	< 2	240	3.72
64684	< 1	7	4	183	3.05
64685	< 1	6	< 2	289	4.08
64686	< 1	7	< 2	235	3.68
64687	< 1	6	< 2	377	3.96
64688	< 1	6	668	2690	3.72
64689	< 1	5	2790	2870	3.65
64690	1	2	10	47	2.26
64691	2	5	2690	9020	4.01
64692	< 1	8	31	564	3.61
64693	< 1	7	24	368	3.41
64694	1	5	1260	2670	3.04
64695	< 1	4	< 2	60	4.91
64696	1	5	3	67	4.07
64697	< 1	47	30	139	3.22
64698	< 1	6	3	114	4.38
64699	< 1	4	5	56	3.68
64700	7	15	> 5000	> 10000	1.91
65208	< 1	9	247	586	3.13
65209	< 1	5	< 2	256	3.54
65210	< 1	2	7	49	2.24
65211	< 1	9	< 2	120	3.21
65212	< 1	5	3	129	3.05
65213	< 1	5	< 2	131	3.2
65214	< 1	8	20	265	3.67
65215	< 1	8	12	356	3.55
65216	< 1	6	822	1030	3.19
65217	< 1	6	125	360	2.86

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	< 1	6	169	271	3.27
65219	< 1	7	11	235	3.4
65220	9	32	16	74	1.98
65221	< 1	8	26	345	3.9
65222	< 1	6	53	334	3.18
65223	< 1	8	50	220	3.17
65224	< 1	8	< 2	204	3.29
65225	< 1	7	22	351	3.43
65226	< 1	9	81	1250	3.37
65227	< 1	6	29	345	3.19
65228	< 1	8	39	434	3.65
65229	< 1	6	7	435	3.42
65230	< 1	2	7	49	2.11
65231	< 1	8	375	2990	3.44
65232	< 1	6	7	234	3.28
65233	< 1	7	44	545	3.24
65234	< 1	8	< 2	265	3.41
65235	< 1	9	162	323	3.26
65236	< 1	7	1070	620	3.11
65237	< 1	6	79	342	3.37
65238	< 1	7	71	389	3.13
65239	< 1	7	200	424	3.26
65240	8	26	11	72	1.93
65241	< 1	9	< 2	236	3.1
65242	< 1	6	11	352	3.35
65243	< 1	7	175	442	3.53
65244	< 1	7	1160	1050	3.3
65245	< 1	8	8	368	3.44
65246	< 1	6	2	204	2.98
65247	< 1	7	27	1080	3.07
65248	< 1	8	8	239	2.82

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	< 1	6	353	368	3.13
65250	< 1	2	11	19	1.07
65251	< 1	7	238	611	3.17
65252	< 1	4	737	470	2.81
65253	< 1	7	12	223	2.76
65254	< 1	7	4	94	2.35
65255	< 1	7	< 2	110	2.56
65256	< 1	7	< 2	139	3.03
65257	4	2	31	75	0.99
65258	16	2	127	129	0.71
65259	13	2	70	61	0.72
65260	6	13	13	64	2.71
65261	18	3	84	94	0.82
65262	8	2	128	179	0.97
65263	9	2	98	92	0.54
65264	6	1	82	119	0.63
65265	7	2	81	240	1.08
65266	4	3	101	167	1.07
65267	4	1	47	84	0.77
65268	6	2	119	175	1.15
65269	6	3	143	149	1.36
65270	< 1	3	4	40	2.04
65271	46	5	593	208	1.11
65272	22	2	178	208	1.22
65273	10	4	131	137	1.2
65274	12	2	201	183	0.86
65275	11	2	376	526	1.01
65276	7	2	96	150	1.02
65277	15	2	782	1500	1.33
65278	3	2	52	171	1.26
65279	22	3	335	2500	1.07



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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	5	13	12	64	2.64
65281	5	2	166	430	1.35
65282	2	1	65	393	1.38
65283	13	< 1	104	425	0.78
65284	18	2	76	3240	0.88
65285	3	2	41	193	1.34
65286	7	2	45	77	0.83
65287	2	4	9	80	2.13
65288	< 1	7	3	190	3.8
65289	2	4	19	89	2.13
65290	1	2	12	42	2.24
65368	1	7	137	2720	4.04
65369	3	5	134	1580	3.09
65370	2	3	4	46	2.31
65371	3	5	276	1830	3.83
65372	2	5	213	2320	4.21
65373	1	7	113	2620	4.57
65374	< 1	9	980	4290	3.48
65375	< 1	3	495	3420	2.04
65376	< 1	< 1	57	1490	1.74
65377	< 1	1	9	1130	1.9
65378	< 1	< 1	26	362	1.81
65379	2	5	296	3190	2.13
65380	5	15	10	65	2.72
65381	< 1	10	< 2	1110	3.55
65382	< 1	10	283	2060	3.65
65383	< 1	9	263	4200	3.73
65384	< 1	10	669	4640	3.34
65385	< 1	11	94	1740	3.64
65386	< 1	10	< 2	617	3.4
65387	< 1	11	7	576	4.02

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	< 1	9	735	2790	3.97
65389	< 1	11	1870	3000	4.21
65390	< 1	2	4	45	2.19
65391	< 1	12	31	835	4.36
65392	< 1	12	624	2270	4.56
65393	< 1	8	231	2040	4.55
65394	< 1	8	351	2100	4.15
65395	< 1	9	499	3100	4.45
65396	< 1	12	212	1760	3.62
65397	< 1	7	306	2740	3.76
65398	2	8	1330	2790	3.01
65399	< 1	10	325	2240	3.4
65400	5	15	10	63	2.66
65401	< 1	11	324	2140	3.83
65402	< 1	8	42	921	3.62
65403	< 1	12	206	2060	4.01
65404	< 1	11	19	2270	4.2
65405	5	6	1110	2350	3.98
65406	2	9	203	3630	3.77
65407	2	11	573	1850	3.43
65408	< 1	9	165	1120	4.22
65409	< 1	9	5	690	3.56
65410	< 1	3	< 2	56	2
65411	< 1	10	25	544	4.11
65412	< 1	10	11	504	3.8
65413	< 1	7	< 2	572	3.6
65414	< 1	11	186	800	3.91
65415	< 1	11	40	769	4.6
65416	< 1	12	127	941	4.24
65417	< 1	11	83	2390	3.39
65418	< 1	11	149	1320	3.42

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	< 1	11	44	1150	4.16
65420	8	29	11	68	1.8
65421	< 1	6	28	797	2.5
65422	< 1	12	29	3110	3.81
65423	< 1	13	< 2	594	3.85
65424	< 1	12	3	610	3.98
65425	< 1	12	< 2	576	3.95
65426	< 1	13	17	553	3.91
65427	< 1	14	4	374	3.71
65428	< 1	12	7	340	4.15
65429	< 1	13	8	299	4.32
65430	1	2	5	42	1.69
65431	< 1	12	2	226	4.62
65432	< 1	12	< 2	101	4.9
65433	< 1	9	< 2	73	4.68
65434	< 1	12	6	96	4.57
65435	26	9	17	61	2.72
65436	1	12	16	105	3.77
65437	< 1	11	13	99	3.6
65438	1	10	15	56	3.07
65439	< 1	8	11	56	3.27
65440	6	15	11	66	2.72
65441	2	10	9	105	3.38
65442	4	5	9	139	3
65443	1	7	12	220	3.34
65444	3	9	17	78	2.71

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Report Date: 18/9/2017

Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	22	< 10	35	< 0.5	< 2
64650	3	< 10	66	< 0.5	< 2
64651	18	< 10	21	< 0.5	< 2
64652	9	< 10	23	< 0.5	< 2
64653	8	< 10	42	< 0.5	2
64654	12	< 10	41	< 0.5	< 2
64655	6	< 10	151	< 0.5	< 2
64656	15	< 10	45	0.6	< 2
64657	9	< 10	93	0.5	< 2
64658	16	< 10	62	< 0.5	< 2
64659	14	< 10	64	< 0.5	< 2
64660	9	< 10	185	< 0.5	< 2
64661	32	< 10	33	< 0.5	< 2
64662	< 2	< 10	210	< 0.5	< 2
64663	2	< 10	197	< 0.5	< 2
64664	4	< 10	70	< 0.5	< 2
64665	3	< 10	123	< 0.5	< 2
64666	3	< 10	333	< 0.5	< 2
64667	2	< 10	56	< 0.5	< 2
64668	< 2	< 10	1610	< 0.5	< 2
64669	< 2	< 10	1590	< 0.5	< 2
64670	< 2	< 10	259	< 0.5	< 2
64671	< 2	< 10	1120	< 0.5	< 2
64672	< 2	< 10	573	< 0.5	< 2
64673	5	< 10	1010	< 0.5	< 2
64674	4	< 10	542	< 0.5	< 2
64675	< 2	< 10	1280	< 0.5	< 2
64676	< 2	< 10	1500	< 0.5	< 2
64677	< 2	< 10	934	< 0.5	< 2
64678	< 2	< 10	767	< 0.5	2
64679	< 2	< 10	1390	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	86	< 10	25	< 0.5	< 2
64681	2	< 10	1040	< 0.5	< 2
64682	< 2	< 10	1710	< 0.5	< 2
64683	4	< 10	1720	< 0.5	< 2
64684	< 2	< 10	1200	< 0.5	2
64685	< 2	< 10	936	0.6	< 2
64686	< 2	< 10	1140	0.5	< 2
64687	7	< 10	280	< 0.5	< 2
64688	< 2	< 10	284	< 0.5	< 2
64689	5	< 10	187	< 0.5	< 2
64690	2	< 10	275	< 0.5	< 2
64691	3	< 10	87	< 0.5	< 2
64692	< 2	< 10	332	< 0.5	< 2
64693	7	< 10	401	< 0.5	< 2
64694	5	< 10	116	0.6	< 2
64695	2	< 10	286	< 0.5	< 2
64696	< 2	< 10	17	0.6	< 2
64697	7	< 10	78	< 0.5	3
64698	4	< 10	337	0.7	< 2
64699	< 2	< 10	167	0.6	< 2
64700	85	< 10	16	< 0.5	< 2
65208	4	< 10	411	< 0.5	< 2
65209	3	< 10	249	< 0.5	< 2
65210	< 2	< 10	249	< 0.5	< 2
65211	< 2	< 10	365	< 0.5	< 2
65212	6	< 10	256	< 0.5	2
65213	< 2	< 10	209	< 0.5	< 2
65214	9	< 10	137	< 0.5	2
65215	10	< 10	219	< 0.5	< 2
65216	45	< 10	24	< 0.5	< 2
65217	7	< 10	185	< 0.5	< 2

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Report Date: 18/9/2017

Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	5	< 10	170	< 0.5	< 2
65219	4	< 10	207	< 0.5	< 2
65220	2310	109	40	< 0.5	51
65221	5	< 10	196	< 0.5	< 2
65222	3	< 10	246	< 0.5	< 2
65223	8	< 10	255	< 0.5	< 2
65224	3	< 10	220	< 0.5	< 2
65225	< 2	< 10	230	< 0.5	< 2
65226	9	< 10	41	< 0.5	< 2
65227	6	< 10	132	< 0.5	< 2
65228	4	< 10	149	< 0.5	< 2
65229	< 2	< 10	244	< 0.5	< 2
65230	< 2	< 10	274	< 0.5	< 2
65231	7	< 10	35	< 0.5	< 2
65232	2	< 10	228	< 0.5	< 2
65233	5	< 10	251	< 0.5	< 2
65234	4	< 10	289	< 0.5	< 2
65235	2	< 10	279	< 0.5	< 2
65236	< 2	< 10	123	< 0.5	< 2
65237	< 2	< 10	229	< 0.5	< 2
65238	2	< 10	209	< 0.5	< 2
65239	< 2	< 10	287	< 0.5	< 2
65240	2150	103	36	< 0.5	47
65241	5	< 10	224	< 0.5	< 2
65242	2	< 10	374	< 0.5	< 2
65243	3	< 10	179	< 0.5	< 2
65244	< 2	< 10	174	< 0.5	< 2
65245	< 2	< 10	372	< 0.5	< 2
65246	< 2	< 10	396	< 0.5	< 2
65247	< 2	< 10	299	< 0.5	< 2
65248	3	< 10	232	< 0.5	< 2

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Report Date: 18/9/2017

Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	4	< 10	60	< 0.5	2
65250	< 2	< 10	99	< 0.5	< 2
65251	< 2	< 10	201	< 0.5	4
65252	< 2	< 10	196	< 0.5	< 2
65253	3	< 10	743	< 0.5	< 2
65254	3	< 10	992	< 0.5	< 2
65255	3	< 10	216	< 0.5	< 2
65256	< 2	< 10	272	< 0.5	< 2
65257	110	< 10	34	< 0.5	< 2
65258	337	< 10	< 10	< 0.5	< 2
65259	201	< 10	10	< 0.5	< 2
65260	11	< 10	178	< 0.5	5
65261	282	< 10	10	< 0.5	< 2
65262	107	< 10	24	< 0.5	< 2
65263	242	< 10	< 10	< 0.5	< 2
65264	105	< 10	36	< 0.5	< 2
65265	121	< 10	31	< 0.5	< 2
65266	82	< 10	14	0.5	< 2
65267	89	< 10	22	< 0.5	< 2
65268	421	< 10	< 10	0.6	< 2
65269	578	< 10	< 10	1	< 2
65270	3	< 10	531	< 0.5	< 2
65271	1660	< 10	< 10	< 0.5	< 2
65272	549	< 10	< 10	0.7	< 2
65273	515	< 10	10	0.7	< 2
65274	344	< 10	10	0.5	< 2
65275	640	< 10	< 10	0.6	< 2
65276	549	< 10	< 10	0.6	< 2
65277	548	< 10	< 10	0.5	< 2
65278	73	< 10	98	0.6	< 2
65279	323	< 10	< 10	0.6	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	8	< 10	180	< 0.5	< 2
65281	211	< 10	18	0.6	< 2
65282	85	< 10	36	0.6	< 2
65283	196	< 10	< 10	< 0.5	< 2
65284	78	< 10	26	< 0.5	< 2
65285	23	< 10	839	0.8	< 2
65286	91	< 10	196	0.6	< 2
65287	32	< 10	726	< 0.5	< 2
65288	12	< 10	394	< 0.5	< 2
65289	18	< 10	260	0.5	< 2
65290	< 2	< 10	186	< 0.5	< 2
65368	16	< 10	728	0.6	< 2
65369	15	< 10	132	< 0.5	< 2
65370	< 2	< 10	308	< 0.5	< 2
65371	22	< 10	532	0.5	< 2
65372	33	< 10	621	0.5	< 2
65373	31	< 10	913	< 0.5	< 2
65374	7	13	630	0.9	< 2
65375	< 2	11	514	0.7	< 2
65376	2	< 10	361	< 0.5	< 2
65377	< 2	< 10	249	< 0.5	< 2
65378	< 2	< 10	222	< 0.5	< 2
65379	11	< 10	54	0.5	< 2
65380	8	< 10	184	< 0.5	< 2
65381	< 2	< 10	1210	0.6	< 2
65382	4	< 10	480	0.6	< 2
65383	2	< 10	1340	0.5	< 2
65384	3	< 10	34	< 0.5	< 2
65385	5	< 10	1380	0.5	< 2
65386	< 2	< 10	1810	0.5	< 2
65387	< 2	< 10	1080	0.5	3



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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	4	< 10	913	< 0.5	< 2
65389	3	< 10	309	< 0.5	< 2
65390	< 2	< 10	259	< 0.5	< 2
65391	2	< 10	328	< 0.5	3
65392	4	< 10	28	< 0.5	< 2
65393	9	< 10	15	< 0.5	< 2
65394	22	< 10	12	< 0.5	< 2
65395	23	< 10	29	< 0.5	< 2
65396	2	< 10	357	< 0.5	< 2
65397	5	< 10	42	< 0.5	< 2
65398	115	< 10	< 10	< 0.5	< 2
65399	3	< 10	69	< 0.5	3
65400	8	< 10	179	< 0.5	< 2
65401	3	< 10	49	< 0.5	< 2
65402	2	< 10	357	< 0.5	< 2
65403	5	< 10	518	< 0.5	< 2
65404	3	< 10	443	< 0.5	< 2
65405	49	< 10	< 10	< 0.5	< 2
65406	43	< 10	26	< 0.5	< 2
65407	33	< 10	< 10	< 0.5	< 2
65408	4	< 10	326	< 0.5	< 2
65409	8	< 10	363	< 0.5	< 2
65410	< 2	< 10	212	< 0.5	< 2
65411	7	< 10	424	< 0.5	< 2
65412	9	< 10	804	< 0.5	< 2
65413	2	< 10	752	< 0.5	< 2
65414	< 2	< 10	986	< 0.5	< 2
65415	5	< 10	440	< 0.5	< 2
65416	9	< 10	281	< 0.5	< 2
65417	48	< 10	13	< 0.5	< 2
65418	15	< 10	26	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	24	< 10	12	< 0.5	< 2
65420	2060	95	32	< 0.5	45
65421	14	< 10	25	< 0.5	< 2
65422	18	< 10	18	< 0.5	< 2
65423	4	< 10	415	< 0.5	< 2
65424	5	< 10	1010	< 0.5	< 2
65425	3	< 10	1240	< 0.5	< 2
65426	< 2	< 10	248	< 0.5	< 2
65427	3	< 10	1040	< 0.5	< 2
65428	< 2	< 10	636	< 0.5	< 2
65429	4	< 10	768	< 0.5	< 2
65430	3	< 10	165	< 0.5	< 2
65431	5	< 10	644	< 0.5	4
65432	< 2	< 10	191	< 0.5	< 2
65433	2	< 10	255	< 0.5	< 2
65434	< 2	< 10	33	< 0.5	< 2
65435	56	< 10	< 10	< 0.5	5
65436	52	< 10	13	< 0.5	4
65437	85	< 10	21	< 0.5	2
65438	114	< 10	< 10	< 0.5	< 2
65439	124	< 10	14	< 0.5	< 2
65440	8	< 10	187	< 0.5	< 2
65441	79	< 10	15	< 0.5	3
65442	16	< 10	11	< 0.5	< 2
65443	10	< 10	60	0.6	< 2
65444	148	< 10	< 10	0.5	5

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	1.87	20	4	6.57	< 10
64650	3.19	5	9	2.6	< 10
64651	2.45	20	4	6.87	< 10
64652	3.11	22	4	6.64	< 10
64653	3.61	16	4	6.31	< 10
64654	3.64	20	4	6.18	< 10
64655	3.54	21	4	5.69	< 10
64656	4.87	22	3	5.45	< 10
64657	4.04	24	7	6.55	< 10
64658	3.75	25	8	6.38	< 10
64659	3.71	25	9	6.85	< 10
64660	1.68	10	26	4.23	< 10
64661	3.39	27	10	7.1	< 10
64662	4.02	26	13	6.9	< 10
64663	4.95	27	11	6.98	10
64664	5.42	23	13	6.91	< 10
64665	3.52	23	4	5.49	< 10
64666	2.51	11	2	2.79	< 10
64667	3.48	20	5	5.37	< 10
64668	3.91	19	5	4.9	< 10
64669	3.59	18	6	4.67	< 10
64670	1.92	5	8	2.68	< 10
64671	3.2	19	5	5.08	< 10
64672	4.06	20	5	4.89	< 10
64673	3.84	19	4	5.34	< 10
64674	3.94	19	4	5.11	< 10
64675	4.31	20	4	4.93	< 10
64676	4.25	19	5	4.88	< 10
64677	3.83	21	6	5.36	< 10
64678	3.41	22	5	5.44	< 10
64679	3.41	22	6	5.34	< 10

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	2.41	17	23	4.13	< 10
64681	3.43	23	6	5.69	< 10
64682	3.71	21	6	5.34	< 10
64683	3.19	22	6	5.48	< 10
64684	4.46	20	6	5.13	< 10
64685	2.07	25	6	6.77	10
64686	3.42	21	6	6.12	< 10
64687	2.86	25	5	6.52	10
64688	2.56	23	6	6.26	< 10
64689	1.98	23	6	6.65	10
64690	1.89	6	11	2.71	< 10
64691	1.6	27	5	6.82	< 10
64692	3.09	22	5	6.25	< 10
64693	2.42	22	9	5.97	10
64694	2.04	20	7	4.99	< 10
64695	0.96	25	7	10.2	< 10
64696	0.67	37	5	9.29	< 10
64697	3.88	24	84	5.86	10
64698	2.39	22	8	7.02	< 10
64699	3.36	15	7	5.65	< 10
64700	2.46	18	24	4.33	< 10
65208	4.86	18	9	5.69	< 10
65209	3.92	21	6	6	< 10
65210	1.66	5	9	3.33	< 10
65211	4.23	20	6	5.35	< 10
65212	4.19	22	5	5.31	< 10
65213	4.19	21	6	5.36	< 10
65214	2.91	23	6	5.98	< 10
65215	3.82	22	6	5.68	< 10
65216	3.29	22	5	6.47	< 10
65217	4.65	16	5	4.87	< 10

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	3.52	19	6	5.68	< 10
65219	4.32	21	6	5.65	< 10
65220	6.84	71	29	4.33	< 10
65221	3.61	22	6	6.02	< 10
65222	4.17	24	6	5.47	< 10
65223	4.07	22	6	5.52	< 10
65224	3.49	21	6	5.53	< 10
65225	3.3	22	6	5.68	< 10
65226	3.52	24	6	6.46	< 10
65227	5.24	22	5	5.61	< 10
65228	3.48	22	6	6.11	< 10
65229	3.82	22	6	5.74	< 10
65230	1.41	20	10	3.69	< 10
65231	3.53	24	6	6.49	< 10
65232	4.17	20	7	5.37	< 10
65233	3.89	22	6	5.34	< 10
65234	3.99	20	7	5.65	< 10
65235	3.89	22	6	5.48	< 10
65236	4.57	23	6	5.4	< 10
65237	4.32	22	6	5.79	< 10
65238	3.81	21	6	5.48	< 10
65239	3.99	19	6	5.33	< 10
65240	6.51	68	28	4.24	< 10
65241	3.81	20	7	5.15	< 10
65242	3.48	21	6	5.77	< 10
65243	3.28	20	6	5.96	< 10
65244	3.48	21	6	5.36	< 10
65245	3.56	21	6	5.29	< 10
65246	3.89	20	6	5.05	< 10
65247	4.24	21	6	5.09	< 10
65248	3.98	21	6	4.98	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	3.22	21	6	6.14	< 10
65250	0.99	2	9	1.02	< 10
65251	3.78	20	5	5.75	< 10
65252	3.86	19	6	5.52	< 10
65253	4.23	19	7	4.92	< 10
65254	4.3	21	6	4.8	< 10
65255	4.84	20	6	4.78	< 10
65256	3.93	21	6	5.3	< 10
65257	0.36	4	11	2.82	< 10
65258	0.04	5	9	6.36	< 10
65259	0.06	5	10	4.18	< 10
65260	1.67	9	25	4.19	< 10
65261	0.05	6	13	3.87	< 10
65262	0.03	2	11	3.79	< 10
65263	0.05	4	6	4.32	< 10
65264	0.04	4	11	3.01	< 10
65265	0.06	5	10	3.77	< 10
65266	0.21	6	7	3.49	< 10
65267	1.02	6	11	2.58	< 10
65268	0.34	9	12	4.93	< 10
65269	0.17	7	3	5.76	< 10
65270	1.79	6	10	2.54	< 10
65271	0.08	11	4	16.2	< 10
65272	0.13	5	2	6.32	< 10
65273	0.28	9	4	4.74	< 10
65274	0.95	6	4	4.29	< 10
65275	0.67	9	3	6.23	< 10
65276	0.75	7	4	4.31	< 10
65277	0.75	11	4	7.08	< 10
65278	1.17	7	6	2.04	< 10
65279	0.49	8	2	6.43	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	1.62	9	25	4.18	< 10
65281	0.72	6	5	3.71	< 10
65282	0.9	6	3	2.64	< 10
65283	0.77	6	11	3.3	< 10
65284	1.03	6	8	2.26	< 10
65285	0.39	5	8	1.8	< 10
65286	0.14	5	5	1.98	< 10
65287	0.96	12	5	2.83	< 10
65288	2.62	23	7	5.72	< 10
65289	1.27	9	6	3	< 10
65290	2.59	5	12	2.78	< 10
65368	0.43	26	8	8.09	< 10
65369	0.21	18	7	7.05	< 10
65370	1.59	6	13	2.16	< 10
65371	0.17	20	6	8.16	< 10
65372	0.29	24	5	10	< 10
65373	0.26	23	5	12.3	< 10
65374	0.46	18	6	6.62	< 10
65375	2.02	11	5	3.56	< 10
65376	1.53	12	2	3.88	< 10
65377	2.42	11	2	4.28	< 10
65378	3.17	11	3	4.07	< 10
65379	4.06	16	4	4.98	< 10
65380	1.67	9	26	4.28	< 10
65381	3.55	23	8	6.32	< 10
65382	2.29	25	7	6.71	< 10
65383	2.83	26	7	6.45	< 10
65384	4.09	24	8	6.28	< 10
65385	3	26	7	6.48	< 10
65386	4.49	25	7	5.96	< 10
65387	3.44	25	8	6.28	< 10

**Final Report**  
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Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	3.02	25	9	6.39	< 10
65389	2.87	26	9	6.53	< 10
65390	1.6	6	9	2.12	< 10
65391	3.21	27	8	6.58	< 10
65392	0.56	30	9	8.14	< 10
65393	0.57	24	8	10.3	< 10
65394	0.71	23	10	9.33	< 10
65395	0.53	25	9	10.3	10
65396	3.39	23	8	6.25	< 10
65397	1.73	24	8	7.53	< 10
65398	0.46	30	9	15.7	< 10
65399	2.97	20	7	6.8	< 10
65400	1.62	9	25	4.15	< 10
65401	2.76	23	8	7.27	< 10
65402	3.27	23	6	5.67	< 10
65403	2.65	23	7	6.53	< 10
65404	1.82	19	7	6.18	< 10
65405	0.32	28	9	11.6	< 10
65406	1.06	26	7	8.2	< 10
65407	0.57	28	7	11.4	< 10
65408	2.07	23	9	6.8	< 10
65409	3.44	25	8	5.8	< 10
65410	1.62	8	7	2.47	< 10
65411	3.87	25	8	6.56	< 10
65412	3.66	25	7	6.16	< 10
65413	3.11	24	7	5.8	< 10
65414	0.97	25	7	6.1	< 10
65415	1.61	26	8	7.03	< 10
65416	0.87	30	11	7.64	< 10
65417	1.92	34	13	7.95	< 10
65418	3.14	23	13	6.52	< 10



**Final Report**  
**Activation Laboratories**

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	0.51	22	12	9.65	< 10
65420	6.12	63	27	4.1	< 10
65421	0.34	12	8	5.49	< 10
65422	1.36	28	13	7.87	< 10
65423	3.54	24	13	6.14	< 10
65424	4.01	26	17	6.33	< 10
65425	3.52	25	16	6.14	< 10
65426	3.73	26	13	6.23	< 10
65427	4.29	25	14	6.15	< 10
65428	3.22	29	17	6.66	< 10
65429	3.21	26	17	6.92	< 10
65430	1.78	6	9	1.88	< 10
65431	1.58	27	17	8.67	< 10
65432	1.27	29	17	9.57	< 10
65433	1.41	27	17	9.44	< 10
65434	0.58	65	17	11.3	< 10
65435	0.26	430	15	13.1	< 10
65436	0.61	79	13	11.3	< 10
65437	0.73	30	12	9.63	< 10
65438	0.66	28	8	9.88	< 10
65439	0.61	29	7	9.64	< 10
65440	1.66	9	27	4.41	< 10
65441	0.58	29	8	10.5	< 10
65442	0.49	52	7	10.4	< 10
65443	0.99	28	6	7.57	< 10
65444	0.41	36	4	9.5	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	2	0.61	< 10	1.8	0.029
64650	< 1	0.17	< 10	0.81	0.058
64651	2	0.51	< 10	1.91	0.027
64652	5	0.44	< 10	2.11	0.034
64653	1	0.45	11	2.09	0.034
64654	< 1	0.55	10	1.67	0.032
64655	4	0.55	< 10	2.11	0.037
64656	1	0.69	< 10	1.55	0.033
64657	< 1	0.52	< 10	2.35	0.036
64658	3	0.45	< 10	2.69	0.034
64659	1	0.35	< 10	3.32	0.032
64660	< 1	0.39	< 10	0.92	0.433
64661	4	0.31	< 10	2.68	0.029
64662	< 1	0.29	< 10	3.5	0.053
64663	3	0.11	< 10	3.36	0.041
64664	< 1	0.14	< 10	2.81	0.047
64665	< 1	0.61	< 10	2.07	0.042
64666	1	0.43	< 10	1.01	0.034
64667	4	0.72	< 10	2.05	0.041
64668	< 1	0.71	10	1.97	0.063
64669	2	0.78	10	1.85	0.064
64670	< 1	0.61	11	0.8	0.112
64671	< 1	0.72	10	1.97	0.059
64672	2	0.59	< 10	1.95	0.05
64673	2	0.76	10	2.19	0.064
64674	< 1	0.74	< 10	1.71	0.053
64675	< 1	0.6	< 10	1.9	0.057
64676	< 1	0.68	< 10	1.8	0.062
64677	< 1	0.43	< 10	2.28	0.044
64678	< 1	0.61	< 10	2.41	0.049
64679	< 1	0.62	< 10	2.36	0.053

**Final Report**  
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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	< 1	0.16	< 10	1.34	0.282
64681	< 1	0.74	< 10	2.35	0.06
64682	2	0.71	< 10	2.46	0.063
64683	2	0.73	< 10	2.7	0.063
64684	< 1	0.68	< 10	2.11	0.052
64685	1	0.47	10	3.13	0.056
64686	2	0.48	11	2.86	0.063
64687	1	0.42	< 10	3.23	0.049
64688	4	0.53	< 10	2.72	0.042
64689	< 1	0.35	10	2.82	0.042
64690	< 1	0.67	12	0.81	0.111
64691	4	0.49	< 10	3.07	0.032
64692	1	0.33	10	2.82	0.038
64693	2	0.34	10	2.56	0.041
64694	3	0.95	11	1.29	0.034
64695	4	0.48	12	2.52	0.026
64696	< 1	0.69	< 10	2.05	0.027
64697	4	0.23	15	2.79	0.126
64698	2	0.63	< 10	2.43	0.032
64699	2	0.32	< 10	1.74	0.035
64700	< 1	0.17	< 10	1.4	0.282
65208	< 1	0.5	11	1.75	0.035
65209	3	0.45	< 10	2.38	0.038
65210	< 1	0.71	11	0.71	0.23
65211	< 1	0.71	11	2.26	0.053
65212	< 1	0.44	< 10	2.45	0.039
65213	1	0.43	< 10	2.36	0.042
65214	2	0.44	< 10	2.63	0.048
65215	4	0.41	< 10	2.49	0.046
65216	4	0.39	< 10	2.36	0.039
65217	< 1	0.31	< 10	2.03	0.033

**Final Report**  
**Activation Laboratories**

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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	2	0.3	< 10	2.33	0.032
65219	3	0.27	< 10	2.5	0.033
65220	2	0.08	18	0.38	0.156
65221	2	0.36	< 10	3	0.03
65222	< 1	0.39	< 10	2.1	0.035
65223	< 1	0.35	< 10	2.16	0.035
65224	2	0.34	< 10	2.33	0.033
65225	2	0.35	< 10	2.51	0.033
65226	3	0.3	< 10	2.59	0.035
65227	2	0.26	< 10	2.46	0.031
65228	1	0.41	< 10	2.7	0.037
65229	2	0.32	< 10	2.58	0.032
65230	< 1	0.63	< 10	0.74	0.262
65231	3	0.41	< 10	2.48	0.035
65232	2	0.43	< 10	2.25	0.043
65233	4	0.37	< 10	2.3	0.034
65234	3	0.37	< 10	2.42	0.032
65235	2	0.37	< 10	2.34	0.034
65236	2	0.45	< 10	2.04	0.036
65237	3	0.39	< 10	2.43	0.037
65238	< 1	0.29	< 10	2.22	0.03
65239	< 1	0.45	< 10	2.32	0.035
65240	< 1	0.08	17	0.36	0.145
65241	< 1	0.38	< 10	2.28	0.035
65242	2	0.3	< 10	2.49	0.035
65243	1	0.4	< 10	2.55	0.037
65244	1	0.29	< 10	2.69	0.035
65245	2	0.4	< 10	2.7	0.044
65246	< 1	0.36	< 10	2.35	0.039
65247	< 1	0.38	< 10	2.28	0.037
65248	< 1	0.34	< 10	2.03	0.032

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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	5	0.34	< 10	2.27	0.032
65250	< 1	0.26	10	0.24	0.093
65251	< 1	0.35	< 10	2.31	0.036
65252	4	0.4	< 10	1.9	0.035
65253	< 1	0.54	< 10	1.87	0.047
65254	< 1	0.56	< 10	1.71	0.046
65255	< 1	0.42	< 10	1.87	0.036
65256	3	0.38	< 10	2.52	0.039
65257	< 1	0.31	16	0.5	0.028
65258	1	0.33	10	0.21	0.029
65259	< 1	0.3	12	0.3	0.027
65260	< 1	0.37	< 10	0.9	0.424
65261	1	0.42	13	0.24	0.033
65262	1	0.4	14	0.36	0.026
65263	1	0.31	10	0.14	0.026
65264	1	0.3	14	0.2	0.035
65265	< 1	0.4	15	0.46	0.031
65266	< 1	0.41	15	0.45	0.035
65267	1	0.37	15	0.31	0.038
65268	4	0.5	12	0.42	0.034
65269	3	0.68	14	0.29	0.036
65270	< 1	0.83	13	0.8	0.151
65271	11	0.36	< 10	0.35	0.03
65272	4	0.57	13	0.22	0.039
65273	3	0.67	14	0.24	0.046
65274	4	0.49	14	0.25	0.043
65275	4	0.6	< 10	0.26	0.043
65276	2	0.58	11	0.33	0.044
65277	6	0.49	< 10	0.58	0.066
65278	1	0.51	17	0.59	0.076
65279	14	0.56	< 10	0.34	0.059

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	< 1	0.37	< 10	0.89	0.412
65281	4	0.54	15	0.45	0.074
65282	6	0.52	13	0.56	0.07
65283	10	0.37	10	0.31	0.054
65284	53	0.37	13	0.42	0.047
65285	1	0.66	25	0.24	0.07
65286	1	0.48	25	0.06	0.056
65287	< 1	0.67	16	0.91	0.066
65288	4	0.61	< 10	2.5	0.042
65289	< 1	0.68	15	0.96	0.084
65290	< 1	0.55	< 10	0.57	0.162
65368	10	0.72	< 10	2.04	0.043
65369	3	0.55	< 10	1.61	0.024
65370	< 1	0.71	11	0.85	0.353
65371	< 1	0.74	< 10	1.76	0.031
65372	4	0.56	< 10	2.11	0.029
65373	4	0.41	< 10	2.54	0.032
65374	3	1.15	12	1.22	0.036
65375	< 1	1.03	16	0.39	0.055
65376	< 1	0.7	18	0.42	0.076
65377	< 1	0.55	19	0.63	0.081
65378	< 1	0.46	17	0.72	0.081
65379	2	0.72	11	0.91	0.057
65380	< 1	0.38	< 10	0.91	0.429
65381	4	0.57	11	2.67	0.075
65382	2	0.44	< 10	2.83	0.04
65383	3	0.53	< 10	2.61	0.054
65384	5	0.54	< 10	2.19	0.029
65385	< 1	0.65	< 10	2.36	0.056
65386	2	0.62	< 10	2.29	0.063
65387	1	0.64	< 10	2.83	0.059

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	2	0.57	< 10	2.79	0.051
65389	3	0.57	< 10	3.13	0.046
65390	< 1	0.64	11	0.87	0.32
65391	2	0.6	< 10	3.33	0.039
65392	2	0.54	< 10	3.35	0.031
65393	4	0.39	< 10	3.33	0.02
65394	3	0.41	< 10	3.09	0.023
65395	1	0.47	< 10	3.15	0.022
65396	5	0.59	< 10	2.29	0.036
65397	7	0.48	< 10	2.46	0.027
65398	3	0.34	< 10	1.96	0.018
65399	4	0.51	< 10	2.1	0.027
65400	< 1	0.37	< 10	0.89	0.409
65401	2	0.59	< 10	2.4	0.037
65402	2	0.68	< 10	2.19	0.04
65403	3	0.71	< 10	2.47	0.032
65404	3	0.87	< 10	2.51	0.033
65405	2	0.5	< 10	2.69	0.021
65406	5	0.45	17	2.58	0.019
65407	2	0.35	< 10	2.49	0.017
65408	4	0.72	< 10	2.89	0.039
65409	< 1	0.54	< 10	2.45	0.035
65410	< 1	0.6	11	1.05	0.204
65411	2	0.6	< 10	3.03	0.047
65412	3	0.52	< 10	2.71	0.047
65413	< 1	0.39	< 10	2.86	0.042
65414	2	0.56	< 10	2.88	0.035
65415	< 1	0.51	< 10	3.68	0.037
65416	1	0.54	< 10	3.19	0.031
65417	4	0.32	< 10	2.67	0.019
65418	< 1	0.34	< 10	2.87	0.02

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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	3	0.23	< 10	3.61	0.016
65420	< 1	0.07	16	0.36	0.131
65421	< 1	0.17	< 10	2.17	0.017
65422	4	0.29	< 10	3.31	0.021
65423	4	0.39	< 10	3.22	0.035
65424	< 1	0.36	< 10	3.42	0.047
65425	5	0.36	< 10	3.44	0.053
65426	5	0.39	< 10	3.19	0.035
65427	2	0.27	< 10	3.17	0.054
65428	3	0.31	11	3.64	0.043
65429	2	0.3	11	3.55	0.044
65430	< 1	0.46	11	0.81	0.161
65431	2	0.21	< 10	3.5	0.04
65432	5	0.19	< 10	3.52	0.025
65433	2	0.24	< 10	2.85	0.024
65434	2	0.25	< 10	2.98	0.016
65435	1	0.35	< 10	1.39	0.018
65436	3	0.48	< 10	2.08	0.017
65437	4	0.39	< 10	2.06	0.017
65438	1	0.58	< 10	1.59	0.018
65439	< 1	0.57	< 10	1.7	0.019
65440	1	0.39	< 10	0.94	0.421
65441	< 1	0.5	< 10	1.87	0.019
65442	2	0.55	< 10	1.71	0.019
65443	< 1	0.7	10	1.71	0.027
65444	4	0.74	< 10	1.18	0.019



**Final Report**  
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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	0.113	1.55	4	9	65
64650	0.087	< 0.01	< 2	4	160
64651	0.108	2	6	8	75
64652	0.109	1.19	4	9	99
64653	0.106	0.61	4	9	151
64654	0.105	0.67	5	8	137
64655	0.109	0.47	5	8	141
64656	0.105	1.52	4	7	224
64657	0.101	0.86	8	12	134
64658	0.098	1.15	6	11	118
64659	0.099	1.01	6	14	109
64660	0.078	0.11	7	6	149
64661	0.086	2.21	5	13	91
64662	0.087	0.04	5	22	111
64663	0.084	0.11	5	21	145
64664	0.078	0.49	5	20	159
64665	0.122	0.7	6	8	101
64666	0.071	< 0.01	2	5	79
64667	0.122	0.33	4	8	160
64668	0.127	0.05	4	8	264
64669	0.121	0.05	2	8	215
64670	0.09	< 0.01	< 2	5	163
64671	0.132	0.03	6	9	158
64672	0.122	0.14	3	8	153
64673	0.13	0.06	4	9	169
64674	0.132	0.02	5	9	160
64675	0.115	0.04	3	8	234
64676	0.116	0.05	5	8	207
64677	0.114	0.05	4	8	197
64678	0.111	0.08	3	9	180
64679	0.118	0.05	5	9	189

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	0.04	2.26	181	4	104
64681	0.115	0.03	5	10	170
64682	0.113	0.05	5	10	239
64683	0.119	0.05	4	10	230
64684	0.116	0.04	5	8	206
64685	0.133	0.02	5	16	114
64686	0.122	0.03	4	14	169
64687	0.124	< 0.01	4	13	96
64688	0.127	0.29	3	12	97
64689	0.122	0.32	5	12	72
64690	0.085	< 0.01	< 2	7	258
64691	0.122	0.61	5	11	62
64692	0.126	0.02	5	12	120
64693	0.133	0.04	5	13	104
64694	0.113	0.61	5	9	111
64695	0.117	0.09	3	10	107
64696	0.143	1.44	5	7	25
64697	0.17	0.24	3	12	85
64698	0.13	0.14	7	12	213
64699	0.112	0.02	7	12	391
64700	0.042	2.25	182	4	104
65208	0.122	0.09	4	9	127
65209	0.117	< 0.01	5	9	120
65210	0.083	< 0.01	< 2	6	200
65211	0.12	< 0.01	3	11	140
65212	0.113	< 0.01	6	10	174
65213	0.118	< 0.01	5	11	253
65214	0.129	0.57	6	11	144
65215	0.118	0.22	5	11	198
65216	0.12	2.34	7	8	86
65217	0.093	0.51	5	7	128

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	0.117	0.4	3	8	108
65219	0.111	0.12	6	9	138
65220	0.107	0.45	10	3	122
65221	0.12	0.15	5	11	147
65222	0.117	0.27	5	10	194
65223	0.108	0.33	7	9	173
65224	0.115	0.06	5	9	165
65225	0.119	0.26	4	9	134
65226	0.116	1.26	5	9	123
65227	0.113	0.51	6	8	179
65228	0.117	0.45	5	9	138
65229	0.114	0.29	5	8	150
65230	0.085	0.1	< 2	5	201
65231	0.116	1.39	6	9	129
65232	0.107	0.16	6	9	157
65233	0.121	0.2	6	10	193
65234	0.116	0.02	5	10	198
65235	0.114	0.27	5	9	196
65236	0.112	0.56	4	9	199
65237	0.11	0.29	3	9	184
65238	0.101	0.13	3	8	186
65239	0.11	0.06	3	9	163
65240	0.102	0.43	9	3	115
65241	0.109	0.09	5	9	142
65242	0.116	0.06	4	9	165
65243	0.112	0.34	4	10	111
65244	0.115	0.23	4	9	159
65245	0.114	0.05	4	12	183
65246	0.111	0.05	5	10	202
65247	0.114	0.11	5	10	181
65248	0.111	0.04	5	9	133

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	0.109	0.86	7	8	100
65250	0.025	< 0.01	< 2	2	124
65251	0.113	0.38	4	9	131
65252	0.118	0.34	3	8	149
65253	0.111	0.1	4	8	219
65254	0.116	0.04	5	9	231
65255	0.11	< 0.01	4	8	128
65256	0.112	< 0.01	4	9	109
65257	0.047	1.09	4	2	10
65258	0.042	4.2	9	2	8
65259	0.041	3.04	7	1	6
65260	0.076	0.11	7	6	148
65261	0.039	1.8	7	2	12
65262	0.052	1.15	6	2	9
65263	0.043	2.98	7	1	7
65264	0.042	0.93	3	2	8
65265	0.043	0.99	5	2	11
65266	0.051	2.08	5	2	10
65267	0.047	1.79	5	2	26
65268	0.053	4.44	14	2	12
65269	0.053	5.51	11	1	9
65270	0.087	0.05	3	5	159
65271	0.031	16.6	36	1	9
65272	0.049	5	17	2	11
65273	0.05	4.36	15	2	15
65274	0.051	3.51	10	2	35
65275	0.048	6.35	14	2	28
65276	0.052	3.82	8	2	34
65277	0.048	6.99	10	2	50
65278	0.059	0.73	4	3	69
65279	0.052	6.93	15	2	26

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	0.077	0.1	8	6	143
65281	0.056	2.13	7	3	37
65282	0.062	1.23	7	3	40
65283	0.05	2.86	7	2	29
65284	0.055	1.44	6	2	36
65285	0.064	0.09	4	2	36
65286	0.059	0.32	6	2	22
65287	0.084	0.11	5	7	99
65288	0.117	< 0.01	7	15	202
65289	0.081	0.22	5	6	99
65290	0.071	< 0.01	7	5	328
65368	0.127	0.09	5	12	30
65369	0.084	0.2	5	7	19
65370	0.09	0.03	2	7	234
65371	0.092	0.06	5	8	12
65372	0.108	0.06	6	9	16
65373	0.094	0.07	6	9	21
65374	0.16	0.02	3	11	23
65375	0.15	0.01	2	8	44
65376	0.169	0.01	2	5	35
65377	0.163	< 0.01	3	5	55
65378	0.147	0.03	4	5	72
65379	0.145	0.64	5	9	93
65380	0.079	0.1	7	6	147
65381	0.14	0.04	5	14	153
65382	0.139	0.09	6	13	85
65383	0.109	0.04	4	12	111
65384	0.088	0.55	7	11	111
65385	0.105	0.06	6	13	109
65386	0.096	0.05	5	12	197
65387	0.092	0.03	4	15	148

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	0.099	0.03	5	14	95
65389	0.102	0.17	5	14	63
65390	0.088	0.03	3	6	229
65391	0.101	< 0.01	5	13	84
65392	0.101	0.69	4	13	13
65393	0.093	1.51	6	12	14
65394	0.092	2.21	4	11	15
65395	0.088	0.61	7	12	23
65396	0.093	0.19	4	12	100
65397	0.099	0.93	6	11	45
65398	0.062	12.1	3	8	9
65399	0.096	0.39	4	11	104
65400	0.076	0.1	8	6	142
65401	0.093	0.61	5	13	71
65402	0.094	0.03	4	11	92
65403	0.096	0.17	4	10	77
65404	0.1	0.15	4	11	53
65405	0.077	3.89	8	11	8
65406	0.092	1.68	5	10	33
65407	0.082	6.31	6	8	12
65408	0.109	0.21	5	11	56
65409	0.098	0.17	4	11	83
65410	0.09	0.07	< 2	6	166
65411	0.102	0.19	3	14	128
65412	0.098	0.13	3	14	169
65413	0.101	0.02	3	14	105
65414	0.106	0.06	4	11	42
65415	0.109	0.01	4	13	42
65416	0.103	0.16	6	13	33
65417	0.097	2.23	5	14	63
65418	0.089	0.94	6	14	80

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	0.089	2.79	5	12	15
65420	0.098	0.41	9	3	108
65421	0.054	1.46	3	8	10
65422	0.096	1.75	6	13	48
65423	0.102	0.18	5	15	93
65424	0.096	0.05	5	17	145
65425	0.094	0.04	3	17	147
65426	0.102	0.09	4	15	121
65427	0.095	0.03	4	18	164
65428	0.096	0.02	4	17	154
65429	0.091	0.03	6	18	206
65430	0.093	0.03	< 2	6	167
65431	0.098	0.04	6	18	221
65432	0.097	< 0.01	7	16	177
65433	0.089	0.02	6	16	225
65434	0.089	1.17	6	12	36
65435	0.062	8.32	4	7	5
65436	0.1	4.2	5	11	28
65437	0.112	2.17	7	10	45
65438	0.135	3.75	7	8	24
65439	0.148	3.11	6	10	14
65440	0.08	0.11	7	6	146
65441	0.129	2.7	5	9	17
65442	0.114	3.3	8	9	16
65443	0.141	0.71	5	13	68
65444	0.15	6.84	6	8	27

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64649	0.19	< 20	< 1	< 2	< 10
64650	0.23	< 20	2	< 2	< 10
64651	0.22	< 20	< 1	< 2	< 10
64652	0.28	< 20	3	< 2	< 10
64653	0.22	< 20	< 1	< 2	< 10
64654	0.07	< 20	< 1	< 2	< 10
64655	0.01	< 20	2	< 2	< 10
64656	< 0.01	< 20	< 1	< 2	< 10
64657	0.04	< 20	< 1	< 2	< 10
64658	0.01	< 20	< 1	< 2	< 10
64659	0.2	< 20	2	< 2	< 10
64660	0.22	< 20	< 1	< 2	< 10
64661	0.29	< 20	< 1	< 2	< 10
64662	0.34	< 20	< 1	< 2	< 10
64663	0.29	< 20	3	< 2	< 10
64664	0.27	< 20	< 1	< 2	< 10
64665	0.19	< 20	< 1	< 2	< 10
64666	0.17	< 20	< 1	< 2	< 10
64667	0.27	< 20	< 1	< 2	< 10
64668	0.31	< 20	< 1	< 2	< 10
64669	0.3	< 20	4	< 2	< 10
64670	0.27	< 20	2	< 2	< 10
64671	0.29	< 20	< 1	< 2	< 10
64672	0.29	< 20	< 1	< 2	< 10
64673	0.33	< 20	< 1	< 2	< 10
64674	0.29	< 20	< 1	< 2	< 10
64675	0.27	< 20	< 1	< 2	< 10
64676	0.28	< 20	< 1	< 2	< 10
64677	0.25	< 20	< 1	< 2	< 10
64678	0.29	< 20	< 1	< 2	< 10
64679	0.27	< 20	< 1	< 2	< 10



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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
64680	0.14	< 20	< 1	< 2	< 10
64681	0.3	< 20	< 1	< 2	< 10
64682	0.31	< 20	< 1	< 2	< 10
64683	0.33	< 20	1	< 2	< 10
64684	0.32	< 20	< 1	< 2	< 10
64685	0.29	< 20	< 1	< 2	< 10
64686	0.12	< 20	1	< 2	< 10
64687	0.02	< 20	< 1	< 2	< 10
64688	0.02	< 20	< 1	< 2	< 10
64689	0.02	< 20	< 1	< 2	< 10
64690	0.27	< 20	1	< 2	< 10
64691	< 0.01	< 20	1	< 2	< 10
64692	0.01	< 20	< 1	< 2	< 10
64693	0.01	< 20	< 1	< 2	< 10
64694	< 0.01	< 20	3	< 2	< 10
64695	0.26	< 20	< 1	< 2	< 10
64696	0.21	< 20	< 1	< 2	< 10
64697	0.24	< 20	< 1	< 2	< 10
64698	0.27	< 20	< 1	< 2	< 10
64699	0.29	< 20	< 1	< 2	< 10
64700	0.15	< 20	< 1	< 2	< 10
65208	0.32	< 20	5	< 2	< 10
65209	0.28	< 20	< 1	< 2	< 10
65210	0.27	< 20	< 1	< 2	< 10
65211	0.28	< 20	< 1	< 2	< 10
65212	0.27	< 20	< 1	< 2	< 10
65213	0.31	< 20	4	< 2	< 10
65214	0.32	< 20	< 1	< 2	< 10
65215	0.31	< 20	2	< 2	< 10
65216	0.27	< 20	< 1	< 2	< 10
65217	0.18	< 20	6	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65218	0.28	< 20	< 1	< 2	< 10
65219	0.28	< 20	2	< 2	< 10
65220	0.11	< 20	4	< 2	< 10
65221	0.35	< 20	< 1	< 2	< 10
65222	0.32	< 20	< 1	< 2	< 10
65223	0.31	< 20	2	< 2	< 10
65224	0.3	< 20	< 1	< 2	< 10
65225	0.28	< 20	< 1	< 2	< 10
65226	0.27	< 20	< 1	< 2	< 10
65227	0.26	< 20	< 1	< 2	< 10
65228	0.21	< 20	< 1	< 2	< 10
65229	0.27	< 20	< 1	< 2	< 10
65230	0.24	< 20	< 1	< 2	< 10
65231	0.28	< 20	< 1	< 2	< 10
65232	0.28	< 20	< 1	< 2	< 10
65233	0.29	< 20	< 1	< 2	< 10
65234	0.27	< 20	< 1	< 2	< 10
65235	0.28	< 20	< 1	< 2	< 10
65236	0.3	< 20	< 1	< 2	< 10
65237	0.28	< 20	< 1	< 2	< 10
65238	0.27	< 20	< 1	< 2	< 10
65239	0.29	< 20	3	< 2	< 10
65240	0.11	< 20	4	< 2	< 10
65241	0.28	< 20	4	< 2	< 10
65242	0.27	< 20	< 1	< 2	< 10
65243	0.25	< 20	< 1	< 2	< 10
65244	0.28	< 20	< 1	< 2	< 10
65245	0.32	< 20	< 1	< 2	< 10
65246	0.31	< 20	< 1	< 2	< 10
65247	0.34	< 20	2	< 2	< 10
65248	0.24	< 20	< 1	< 2	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65249	0.26	< 20	< 1	< 2	< 10
65250	0.09	< 20	< 1	< 2	< 10
65251	0.27	< 20	< 1	< 2	< 10
65252	0.26	< 20	< 1	< 2	< 10
65253	0.28	< 20	3	< 2	< 10
65254	0.29	< 20	< 1	< 2	< 10
65255	0.26	< 20	< 1	< 2	< 10
65256	0.28	< 20	< 1	< 2	< 10
65257	< 0.01	< 20	< 1	< 2	< 10
65258	< 0.01	< 20	< 1	< 2	< 10
65259	< 0.01	< 20	< 1	< 2	< 10
65260	0.22	< 20	< 1	< 2	< 10
65261	< 0.01	< 20	< 1	< 2	< 10
65262	< 0.01	< 20	< 1	< 2	< 10
65263	< 0.01	< 20	< 1	< 2	< 10
65264	< 0.01	< 20	< 1	< 2	< 10
65265	< 0.01	< 20	3	< 2	< 10
65266	< 0.01	< 20	< 1	< 2	< 10
65267	< 0.01	< 20	< 1	< 2	< 10
65268	< 0.01	< 20	3	4	< 10
65269	< 0.01	< 20	< 1	3	< 10
65270	0.21	< 20	2	< 2	< 10
65271	< 0.01	< 20	< 1	14	< 10
65272	< 0.01	< 20	< 1	3	< 10
65273	< 0.01	< 20	4	3	< 10
65274	< 0.01	< 20	< 1	2	< 10
65275	< 0.01	< 20	< 1	3	< 10
65276	< 0.01	< 20	< 1	2	< 10
65277	< 0.01	< 20	< 1	2	< 10
65278	< 0.01	< 20	1	< 2	< 10
65279	< 0.01	< 20	< 1	8	< 10

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65280	0.21	< 20	4	< 2	< 10
65281	< 0.01	< 20	2	2	< 10
65282	< 0.01	< 20	< 1	< 2	< 10
65283	< 0.01	< 20	< 1	< 2	< 10
65284	< 0.01	< 20	2	< 2	< 10
65285	< 0.01	< 20	< 1	< 2	< 10
65286	< 0.01	< 20	1	< 2	< 10
65287	0.14	< 20	2	< 2	< 10
65288	0.32	< 20	< 1	< 2	< 10
65289	0.23	< 20	2	< 2	< 10
65290	0.22	< 20	3	< 2	< 10
65368	0.1	< 20	< 1	< 2	< 10
65369	0.03	< 20	< 1	< 2	< 10
65370	0.26	< 20	3	< 2	< 10
65371	< 0.01	< 20	< 1	< 2	< 10
65372	0.11	< 20	< 1	< 2	< 10
65373	0.1	< 20	< 1	< 2	< 10
65374	0.11	< 20	< 1	< 2	< 10
65375	0.1	< 20	3	< 2	< 10
65376	0.12	< 20	< 1	< 2	< 10
65377	0.06	< 20	< 1	< 2	< 10
65378	0.06	< 20	< 1	< 2	< 10
65379	0.13	< 20	< 1	< 2	< 10
65380	0.22	< 20	< 1	< 2	< 10
65381	0.22	< 20	< 1	< 2	< 10
65382	0.21	< 20	< 1	< 2	< 10
65383	0.19	< 20	< 1	< 2	< 10
65384	0.15	< 20	< 1	< 2	< 10
65385	0.16	< 20	< 1	< 2	< 10
65386	0.23	< 20	< 1	< 2	< 10
65387	0.34	< 20	< 1	< 2	< 10

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Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65388	0.29	< 20	< 1	< 2	< 10
65389	0.36	< 20	3	< 2	< 10
65390	0.25	< 20	2	< 2	< 10
65391	0.37	< 20	2	< 2	< 10
65392	0.31	< 20	4	< 2	< 10
65393	0.29	< 20	1	< 2	< 10
65394	0.25	< 20	1	< 2	< 10
65395	0.29	< 20	< 1	< 2	< 10
65396	0.3	< 20	< 1	< 2	< 10
65397	0.23	< 20	4	< 2	< 10
65398	0.21	< 20	2	< 2	< 10
65399	0.35	< 20	4	< 2	< 10
65400	0.21	< 20	< 1	< 2	< 10
65401	0.33	< 20	1	< 2	< 10
65402	0.34	< 20	4	< 2	< 10
65403	0.1	< 20	< 1	< 2	< 10
65404	0.06	< 20	< 1	< 2	< 10
65405	0.11	< 20	< 1	< 2	< 10
65406	0.27	< 20	< 1	< 2	< 10
65407	0.23	< 20	< 1	< 2	< 10
65408	0.37	< 20	< 1	< 2	< 10
65409	0.4	< 20	< 1	< 2	< 10
65410	0.25	< 20	7	< 2	< 10
65411	0.4	< 20	3	< 2	< 10
65412	0.37	< 20	< 1	< 2	< 10
65413	0.38	< 20	< 1	< 2	< 10
65414	0.38	< 20	< 1	< 2	< 10
65415	0.39	< 20	2	< 2	< 10
65416	0.37	< 20	< 1	< 2	< 10
65417	0.3	< 20	2	< 2	< 10
65418	0.3	< 20	< 1	< 2	< 10

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Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65419	0.35	< 20	< 1	< 2	< 10
65420	0.1	< 20	< 1	< 2	< 10
65421	0.23	< 20	< 1	< 2	< 10
65422	0.28	< 20	< 1	< 2	< 10
65423	0.36	< 20	< 1	< 2	< 10
65424	0.36	< 20	< 1	< 2	< 10
65425	0.23	< 20	< 1	< 2	< 10
65426	0.16	< 20	3	< 2	< 10
65427	0.32	< 20	< 1	< 2	< 10
65428	0.2	< 20	< 1	< 2	< 10
65429	0.28	< 20	3	< 2	< 10
65430	0.22	< 20	6	< 2	< 10
65431	0.26	< 20	< 1	< 2	< 10
65432	0.29	< 20	< 1	< 2	< 10
65433	0.26	< 20	< 1	< 2	< 10
65434	0.24	< 20	< 1	< 2	< 10
65435	0.13	< 20	< 1	< 2	< 10
65436	0.26	< 20	< 1	< 2	< 10
65437	0.12	< 20	< 1	< 2	< 10
65438	0.1	< 20	< 1	< 2	< 10
65439	0.25	< 20	< 1	< 2	< 10
65440	0.22	< 20	< 1	< 2	< 10
65441	0.26	< 20	< 1	< 2	< 10
65442	0.23	< 20	4	< 2	< 10
65443	0.3	< 20	< 1	< 2	< 10
65444	0.01	< 20	< 1	< 2	< 10

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64649	93	< 10	11	3	
64650	54	< 10	7	2	
64651	89	< 10	12	3	
64652	101	< 10	14	3	
64653	97	< 10	13	3	
64654	93	< 10	8	3	
64655	89	< 10	6	2	
64656	66	< 10	9	2	
64657	111	< 10	7	2	
64658	114	< 10	6	2	
64659	137	< 10	11	3	
64660	85	< 10	12	3	9.54
64661	118	< 10	11	4	
64662	177	< 10	13	4	
64663	178	< 10	12	3	
64664	159	< 10	12	3	
64665	79	< 10	12	3	
64666	48	< 10	8	2	
64667	90	< 10	13	4	
64668	75	< 10	14	4	
64669	79	< 10	13	4	
64670	63	< 10	9	2	
64671	80	< 10	13	4	
64672	84	< 10	13	4	
64673	101	< 10	14	5	
64674	98	< 10	13	5	
64675	81	< 10	12	4	
64676	83	< 10	13	4	
64677	79	< 10	11	4	
64678	94	< 10	12	4	
64679	86	< 10	12	4	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
64680	63	22	7	4	
64681	93	< 10	12	5	
64682	93	< 10	12	4	
64683	101	< 10	13	4	
64684	94	< 10	13	5	
64685	100	< 10	14	5	
64686	99	< 10	9	3	
64687	112	< 10	6	2	
64688	119	< 10	7	2	
64689	120	< 10	7	2	
64690	63	< 10	11	3	
64691	122	< 10	7	2	
64692	101	< 10	7	2	
64693	112	< 10	8	2	
64694	108	< 10	9	2	
64695	86	< 10	12	5	
64696	69	< 10	11	4	
64697	104	< 10	9	5	
64698	99	< 10	11	4	
64699	99	< 10	12	7	
64700	65	19	8	3	
65208	84	< 10	13	3	
65209	100	< 10	13	4	
65210	70	< 10	11	3	
65211	124	< 10	14	6	
65212	103	< 10	12	5	
65213	114	< 10	12	6	
65214	111	< 10	13	5	
65215	103	< 10	12	5	
65216	90	< 10	11	5	
65217	77	< 10	11	3	



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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65218	96	< 10	11	5	
65219	103	< 10	11	5	
65220	37	19	13	6	
65221	113	< 10	13	4	
65222	85	< 10	12	5	
65223	90	< 10	11	6	
65224	90	< 10	12	5	
65225	95	< 10	11	5	
65226	95	< 10	11	5	
65227	87	< 10	10	4	
65228	102	< 10	12	4	
65229	89	< 10	11	5	
65230	73	< 10	9	3	
65231	93	< 10	11	5	
65232	92	< 10	11	5	
65233	90	< 10	11	6	
65234	90	< 10	11	5	
65235	88	< 10	11	4	
65236	85	< 10	11	5	
65237	88	< 10	11	4	
65238	81	< 10	10	5	
65239	86	< 10	12	5	
65240	36	18	12	8	
65241	84	< 10	11	5	
65242	87	< 10	11	5	
65243	97	< 10	10	4	
65244	93	< 10	11	5	
65245	105	< 10	11	7	
65246	94	< 10	11	7	
65247	92	< 10	12	7	
65248	82	< 10	12	3	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65249	88	< 10	11	4	
65250	22	< 10	5	1	
65251	91	< 10	12	4	
65252	87	< 10	12	4	
65253	97	< 10	13	5	
65254	111	< 10	12	7	
65255	92	< 10	12	6	
65256	100	< 10	13	5	
65257	26	< 10	4	4	
65258	24	< 10	2	5	
65259	19	< 10	4	4	
65260	82	< 10	11	3	9.16
65261	19	< 10	3	4	
65262	21	< 10	3	4	
65263	16	< 10	3	5	
65264	15	< 10	3	4	
65265	26	< 10	4	4	
65266	18	< 10	5	3	
65267	20	< 10	4	4	
65268	17	< 10	5	4	
65269	16	< 10	5	4	
65270	50	< 10	8	3	
65271	19	< 10	3	5	
65272	13	< 10	5	4	
65273	15	< 10	5	4	
65274	11	< 10	5	3	
65275	13	< 10	4	4	
65276	15	< 10	5	4	
65277	26	< 10	5	4	
65278	22	< 10	6	2	
65279	19	< 10	4	4	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65280	82	< 10	11	3	9.3
65281	21	< 10	5	3	
65282	25	< 10	6	3	
65283	24	< 10	4	5	
65284	24	< 10	4	4	
65285	16	< 10	6	2	
65286	13	< 10	6	3	
65287	47	< 10	10	4	
65288	107	< 10	13	6	
65289	41	< 10	11	5	
65290	61	< 10	8	3	
65368	94	< 10	12	3	
65369	67	< 10	7	2	
65370	63	< 10	11	3	
65371	86	< 10	7	2	
65372	115	< 10	8	4	
65373	131	< 10	6	4	
65374	102	< 10	13	4	
65375	67	< 10	16	3	
65376	48	< 10	16	3	
65377	50	< 10	13	3	
65378	49	< 10	12	3	
65379	109	< 10	13	4	
65380	83	< 10	12	3	9.02
65381	166	< 10	14	5	
65382	140	< 10	13	5	
65383	109	< 10	12	3	
65384	104	< 10	10	3	
65385	118	< 10	11	3	
65386	114	< 10	12	3	
65387	103	< 10	14	4	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65388	106	< 10	13	3	
65389	98	< 10	13	4	
65390	60	< 10	11	3	
65391	91	< 10	14	3	
65392	102	< 10	12	3	
65393	102	< 10	9	4	5.01
65394	108	< 10	10	4	
65395	101	< 10	9	3	
65396	87	< 10	11	3	
65397	88	< 10	10	3	
65398	75	< 10	5	5	
65399	98	< 10	11	4	
65400	80	< 10	11	3	9.1
65401	95	< 10	11	4	
65402	79	< 10	11	3	
65403	77	< 10	8	2	
65404	80	< 10	6	2	
65405	89	< 10	6	4	
65406	76	< 10	11	4	
65407	88	< 10	7	4	
65408	106	< 10	15	4	
65409	87	< 10	14	4	
65410	61	< 10	10	2	
65411	110	< 10	15	6	
65412	127	< 10	13	8	
65413	128	< 10	14	11	
65414	104	< 10	14	6	
65415	121	< 10	13	5	
65416	116	< 10	13	5	
65417	121	< 10	11	6	
65418	111	< 10	12	4	

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Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65419	132	< 10	7	4	
65420	35	18	12	6	
65421	86	< 10	5	2	
65422	123	< 10	10	5	
65423	116	< 10	13	5	
65424	125	< 10	14	8	
65425	132	< 10	13	6	
65426	130	< 10	12	4	
65427	139	< 10	14	9	
65428	130	< 10	12	6	
65429	137	< 10	13	9	
65430	61	< 10	10	3	
65431	148	< 10	12	9	
65432	120	< 10	11	8	
65433	123	< 10	9	7	
65434	116	< 10	7	5	
65435	74	< 10	4	4	
65436	120	< 10	10	6	
65437	111	< 10	8	5	
65438	99	< 10	8	4	
65439	106	< 10	10	5	
65440	85	< 10	12	3	10.7
65441	103	< 10	10	5	
65442	90	< 10	11	5	
65443	102	< 10	16	7	
65444	81	< 10	6	4	

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Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES
64680			1.97	2.51
64681				
64682				
64683				
64684				
64685				
64686				
64687				
64688				
64689				
64690				
64691				
64692				
64693				
64694				
64695				
64696				
64697				
64698				
64699				
64700			1.98	2.55
65208				
65209				
65210				
65211				
65212				
65213				
65214				
65215				
65216				
65217				

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Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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65280	81			
65281				
65282				
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65286				
65287				
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65368				
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65370				
65371				
65372				
65373				
65374				
65375				
65376				
65377				
65378				
65379				
65380	117			
65381				
65382				
65383				
65384				
65385				
65386				
65387				

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Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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65419  
65420  
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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		26.4	3	1160	746
GXR-1 Cert		31	3.3	1110	852
GXR-1 Meas		30.1	3	1110	830
GXR-1 Cert		31	3.3	1110	852
GXR-1 Meas		30.7	2.5	1130	801
GXR-1 Cert		31	3.3	1110	852
GXR-4 Meas		3.9	0.5	6850	144
GXR-4 Cert		4	0.86	6520	155
GXR-4 Meas		3.6	0.8	6480	140
GXR-4 Cert		4	0.86	6520	155
GXR-4 Meas		3.8	< 0.5	6540	144
GXR-4 Cert		4	0.86	6520	155
GXR-6 Meas		0.3	< 0.5	73	1080
GXR-6 Cert		1.3	1	66	1010
GXR-6 Meas		0.3	0.7	67	1060
GXR-6 Cert		1.3	1	66	1010
GXR-6 Meas		0.3	< 0.5	71	1100
GXR-6 Cert		1.3	1	66	1010
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP

SQ47 Cert

PTC-1b Meas

PTC-1b Cert

OxL118 Meas

OxL118 Cert

OxL118 Meas

OxL118 Cert

OxP116 Meas

OxP116 Cert

OxP116 Meas

OxP116 Cert

CCU-1e Meas

CCU-1e Cert

OREAS 223 (Fire Assay) Meas 1690

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1720

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1770

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1690

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1860

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1710

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1770

OREAS 223 (Fire Assay) Cert 1780

OREAS 223 (Fire Assay) Meas 1780

OREAS 223 (Fire Assay) Cert 1780

OREAS 218 Meas 524

OREAS 218 Cert 531

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas	515				
OREAS 218 Cert	531				
OREAS 224 (Fire Assay) Meas	2100				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2160				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2200				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2250				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2200				
OREAS 224 (Fire Assay) Cert	2150				
OREAS 224 (Fire Assay) Meas	2240				
OREAS 224 (Fire Assay) Cert	2150				
64654 Orig	30				
64654 Dup	43				
64661 Orig		0.6	44	106	3460
64661 Dup		0.5	44.6	103	3450
64675 Orig		< 0.2	0.7	1	2260
64675 Dup		< 0.2	< 0.5	1	2250
64677 Orig	6				
64677 Dup	5				
64688 Orig		0.5	23.3	109	2800
64688 Dup		0.4	23.7	112	2880
64689 Orig	9				
64689 Dup	6				
64698 Orig	15	0.3	0.6	370	1290
64698 Split PREP DUP	< 5	0.3	< 0.5	351	1320
64700 Orig					
64700 Dup					
65208 Orig		< 0.2	2.9	48	3540

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Report Date: 18/9/2017

Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup		< 0.2	3.2	48	3540
65218 Orig	10				
65218 Dup	12				
65230 Orig	< 5				
65230 Dup	< 5				
65231 Orig		0.4	52.3	48	2580
65231 Dup		0.4	52.6	49	2570
65241 Orig	15				
65241 Dup	14				
65245 Orig		< 0.2	< 0.5	23	2110
65245 Dup		< 0.2	0.7	21	2090
65253 Orig	< 5				
65253 Dup	< 5				
65255 Orig	< 5	< 0.2	< 0.5	2	1780
65255 Split PREP DUP	6	< 0.2	< 0.5	2	1730
65257 Orig		3.1	< 0.5	8	664
65257 Dup		2.5	< 0.5	8	676
65264 Orig	< 5				
65264 Dup	< 5				
65271 Orig		23.8	2.2	57	294
65271 Dup		23.6	1.3	57	292
65287 Orig	< 5	0.4	< 0.5	63	1060
65287 Dup	< 5	0.3	< 0.5	65	1070
65376 Orig	< 5				
65376 Dup	< 5				
65378 Orig		< 0.2	0.8	6	2090
65378 Dup		< 0.2	0.9	6	2190
65382 Orig	66	< 0.2	19	124	3300
65382 Split PREP DUP	62	< 0.2	19.2	113	3200
65386 Orig	73				
65386 Dup	71				



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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig		< 0.2	< 0.5	5	544
65390 Dup		< 0.2	< 0.5	5	545
65404 Orig		< 0.2	20.3	40	3890
65404 Dup		< 0.2	19.3	39	3860
65417 Orig	49				
65417 Dup	54				
65420 Orig		0.5	< 0.5	164	1330
65420 Dup		0.5	< 0.5	131	1150
65429 Orig	275				
65429 Dup	270				
65432 Orig	< 5	< 0.2	0.6	< 1	1750
65432 Split PREP DUP	< 5	< 0.2	< 0.5	< 1	1740
65433 Orig		< 0.2	< 0.5	< 1	1470
65433 Dup		< 0.2	< 0.5	< 1	1470
65440 Orig	> 5000				
65440 Dup	> 5000				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank	< 5				
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank		< 0.2	< 0.5	< 1	< 5
Method Blank					

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Analyte Symbol	Au	Ag	Cd	Cu	Mn
Unit Symbol	ppb	ppm	ppm	ppm	ppm
Detection Limit	5	0.2	0.5	1	5
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 5				
Method Blank					
Method Blank	< 5				
Method Blank	< 5				
Method Blank					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	14	24	706	692	0.32
GXR-1 Cert	18	41	730	760	3.52
GXR-1 Meas	13	25	665	657	0.36
GXR-1 Cert	18	41	730	760	3.52
GXR-1 Meas	13	30	672	674	0.36
GXR-1 Cert	18	41	730	760	3.52
GXR-4 Meas	313	36	44	72	2.91
GXR-4 Cert	310	42	52	73	7.2
GXR-4 Meas	296	34	45	69	2.79
GXR-4 Cert	310	42	52	73	7.2
GXR-4 Meas	300	34	43	71	2.83
GXR-4 Cert	310	42	52	73	7.2
GXR-6 Meas	2	21	100	125	7.41
GXR-6 Cert	2.4	27	101	118	17.7
GXR-6 Meas	1	20	98	123	7.12
GXR-6 Cert	2.4	27	101	118	17.7
GXR-6 Meas	1	23	103	129	7.51
GXR-6 Cert	2.4	27	101	118	17.7
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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SQ47 Cert  
PTC-1b Meas  
PTC-1b Cert  
OxL118 Meas  
OxL118 Cert  
OxL118 Meas  
OxL118 Cert  
OxP116 Meas  
OxP116 Cert  
OxP116 Meas  
OxP116 Cert  
CCU-1e Meas  
CCU-1e Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 218 Meas  
OREAS 218 Cert

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	< 1	10	282	5230	3.14
64661 Dup	< 1	10	281	5000	3.13
64675 Orig	< 1	7	18	395	2.96
64675 Dup	< 1	5	19	392	2.96
64677 Orig					
64677 Dup					
64688 Orig	< 1	6	664	2650	3.66
64688 Dup	< 1	7	672	2720	3.77
64689 Orig					
64689 Dup					
64698 Orig	< 1	6	3	114	4.38
64698 Split PREP DUP	< 1	7	2	115	4.72
64700 Orig					
64700 Dup					
65208 Orig	< 1	9	247	584	3.14

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup	< 1	9	247	588	3.12
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	< 1	9	375	2980	3.45
65231 Dup	< 1	8	375	3000	3.43
65241 Orig					
65241 Dup					
65245 Orig	< 1	8	8	368	3.44
65245 Dup	< 1	7	8	369	3.44
65253 Orig					
65253 Dup					
65255 Orig	< 1	7	< 2	110	2.56
65255 Split PREP DUP	< 1	5	< 2	107	2.43
65257 Orig	4	2	30	74	0.98
65257 Dup	4	2	32	77	1
65264 Orig					
65264 Dup					
65271 Orig	46	4	597	207	1.12
65271 Dup	46	6	589	208	1.09
65287 Orig	2	4	9	80	2.11
65287 Dup	2	3	9	81	2.15
65376 Orig					
65376 Dup					
65378 Orig	< 1	1	25	358	1.75
65378 Dup	< 1	< 1	27	365	1.86
65382 Orig	< 1	10	283	2060	3.65
65382 Split PREP DUP	< 1	10	265	1980	3.57
65386 Orig					
65386 Dup					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig	< 1	2	5	45	2.18
65390 Dup	< 1	2	3	44	2.2
65404 Orig	< 1	11	21	2300	4.29
65404 Dup	< 1	11	18	2250	4.11
65417 Orig					
65417 Dup					
65420 Orig	9	32	11	73	1.93
65420 Dup	8	26	10	62	1.68
65429 Orig					
65429 Dup					
65432 Orig	< 1	12	< 2	101	4.9
65432 Split PREP DUP	< 1	14	< 2	101	4.87
65433 Orig	< 1	8	< 2	74	4.63
65433 Dup	< 1	11	< 2	72	4.73
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank	< 1	< 1	< 2	< 2	< 0.01
Method Blank					

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Analyte Symbol	Mo	Ni	Pb	Zn	Al
Unit Symbol	ppm	ppm	ppm	ppm	%
Detection Limit	1	1	2	2	0.01
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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Method Blank

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	368	< 10	167	0.8	1440
GXR-1 Cert	427	15	750	1.22	1380
GXR-1 Meas	354	< 10	370	0.8	1350
GXR-1 Cert	427	15	750	1.22	1380
GXR-1 Meas	371	10	285	0.8	1380
GXR-1 Cert	427	15	750	1.22	1380
GXR-4 Meas	103	< 10	28	1.6	9
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-4 Meas	102	< 10	24	1.5	< 2
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-4 Meas	102	< 10	22	1.5	7
GXR-4 Cert	98	4.5	1640	1.9	19
GXR-6 Meas	239	< 10	858	1	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
GXR-6 Meas	223	< 10	825	1	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
GXR-6 Meas	219	< 10	853	1	< 2
GXR-6 Cert	330	9.8	1300	1.4	0.29
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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SQ47 Cert  
PTC-1b Meas  
PTC-1b Cert  
OxL118 Meas  
OxL118 Cert  
OxL118 Meas  
OxL118 Cert  
OxP116 Meas  
OxP116 Cert  
OxP116 Meas  
OxP116 Cert  
CCU-1e Meas  
CCU-1e Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 218 Meas  
OREAS 218 Cert

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	34	< 10	34	< 0.5	< 2
64661 Dup	31	< 10	33	< 0.5	< 2
64675 Orig	3	< 10	1280	< 0.5	< 2
64675 Dup	< 2	< 10	1280	< 0.5	< 2
64677 Orig					
64677 Dup					
64688 Orig	< 2	< 10	298	< 0.5	< 2
64688 Dup	3	< 10	270	< 0.5	< 2
64689 Orig					
64689 Dup					
64698 Orig	4	< 10	337	0.7	< 2
64698 Split PREP DUP	7	< 10	398	0.8	< 2
64700 Orig					
64700 Dup					
65208 Orig	5	< 10	412	< 0.5	< 2

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup	3	< 10	411	< 0.5	< 2
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	7	< 10	34	< 0.5	< 2
65231 Dup	6	< 10	36	< 0.5	< 2
65241 Orig					
65241 Dup					
65245 Orig	< 2	< 10	369	< 0.5	2
65245 Dup	2	< 10	374	< 0.5	< 2
65253 Orig					
65253 Dup					
65255 Orig	3	< 10	216	< 0.5	< 2
65255 Split PREP DUP	3	< 10	206	< 0.5	< 2
65257 Orig	110	< 10	43	< 0.5	< 2
65257 Dup	111	< 10	24	< 0.5	< 2
65264 Orig					
65264 Dup					
65271 Orig	1670	< 10	< 10	< 0.5	< 2
65271 Dup	1650	< 10	< 10	< 0.5	< 2
65287 Orig	32	< 10	780	< 0.5	< 2
65287 Dup	32	< 10	672	< 0.5	< 2
65376 Orig					
65376 Dup					
65378 Orig	< 2	< 10	215	< 0.5	< 2
65378 Dup	< 2	< 10	229	< 0.5	< 2
65382 Orig	4	< 10	480	0.6	< 2
65382 Split PREP DUP	3	< 10	814	0.6	< 2
65386 Orig					
65386 Dup					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig	< 2	< 10	258	< 0.5	< 2
65390 Dup	< 2	< 10	260	< 0.5	2
65404 Orig	3	< 10	460	< 0.5	< 2
65404 Dup	2	< 10	426	< 0.5	3
65417 Orig					
65417 Dup					
65420 Orig	2180	100	38	< 0.5	49
65420 Dup	1930	89	26	< 0.5	42
65429 Orig					
65429 Dup					
65432 Orig	< 2	< 10	191	< 0.5	< 2
65432 Split PREP DUP	< 2	< 10	191	< 0.5	< 2
65433 Orig	2	< 10	252	< 0.5	< 2
65433 Dup	2	< 10	259	< 0.5	< 2
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank	< 2	< 10	< 10	< 0.5	< 2
Method Blank					

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Analyte Symbol	As	B	Ba	Be	Bi
Unit Symbol	ppm	ppm	ppm	ppm	ppm
Detection Limit	2	10	10	0.5	2
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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Method Blank

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.65	7	6	24.8	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-1 Meas	0.7	6	6	21	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-1 Meas	0.71	5	5	21.5	< 10
GXR-1 Cert	0.96	8.2	12	23.6	13.8
GXR-4 Meas	0.89	14	55	3.13	10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-4 Meas	0.85	14	54	2.94	10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-4 Meas	0.86	13	54	3.01	10
GXR-4 Cert	1.01	14.6	64	3.09	20
GXR-6 Meas	0.15	14	81	5.69	20
GXR-6 Cert	0.18	13.8	96	5.58	35
GXR-6 Meas	0.15	13	78	5.29	20
GXR-6 Cert	0.18	13.8	96	5.58	35
GXR-6 Meas	0.15	13	80	5.55	20
GXR-6 Cert	0.18	13.8	96	5.58	35
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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SQ47 Cert

PTC-1b Meas

PTC-1b Cert

OxL118 Meas

OxL118 Cert

OxL118 Meas

OxL118 Cert

OxP116 Meas

OxP116 Cert

OxP116 Meas

OxP116 Cert

CCU-1e Meas

CCU-1e Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 218 Meas

OREAS 218 Cert



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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	3.07	27	10	7.1	< 10
64661 Dup	3.71	26	9	7.11	< 10
64675 Orig	4.31	20	5	4.94	< 10
64675 Dup	4.31	20	4	4.92	< 10
64677 Orig					
64677 Dup					
64688 Orig	2.53	22	6	6.17	< 10
64688 Dup	2.6	23	6	6.34	< 10
64689 Orig					
64689 Dup					
64698 Orig	2.39	22	8	7.02	< 10
64698 Split PREP DUP	2.49	21	7	7.32	< 10
64700 Orig					
64700 Dup					
65208 Orig	4.84	18	9	5.67	< 10

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup	4.87	18	9	5.71	< 10
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	3.54	25	7	6.48	< 10
65231 Dup	3.51	24	6	6.5	< 10
65241 Orig					
65241 Dup					
65245 Orig	3.55	22	6	5.29	< 10
65245 Dup	3.57	21	6	5.28	< 10
65253 Orig					
65253 Dup					
65255 Orig	4.84	20	6	4.78	< 10
65255 Split PREP DUP	4.7	19	5	4.66	< 10
65257 Orig	0.37	4	10	2.8	< 10
65257 Dup	0.36	4	12	2.84	< 10
65264 Orig					
65264 Dup					
65271 Orig	0.08	11	5	16.2	< 10
65271 Dup	0.08	10	4	16.2	< 10
65287 Orig	0.95	11	5	2.81	< 10
65287 Dup	0.97	12	5	2.86	< 10
65376 Orig					
65376 Dup					
65378 Orig	3.1	11	3	3.98	< 10
65378 Dup	3.24	11	2	4.16	< 10
65382 Orig	2.29	25	7	6.71	< 10
65382 Split PREP DUP	2.17	23	7	6.38	< 10
65386 Orig					
65386 Dup					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig	1.59	6	10	2.13	< 10
65390 Dup	1.6	6	8	2.11	< 10
65404 Orig	1.82	19	7	6.23	< 10
65404 Dup	1.81	20	7	6.12	< 10
65417 Orig					
65417 Dup					
65420 Orig	6.54	68	29	4.35	< 10
65420 Dup	5.7	58	25	3.86	< 10
65429 Orig					
65429 Dup					
65432 Orig	1.27	29	17	9.57	< 10
65432 Split PREP DUP	1.28	27	18	9.58	< 10
65433 Orig	1.39	27	16	9.39	< 10
65433 Dup	1.42	27	17	9.49	< 10
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank	< 0.01	< 1	< 1	< 0.01	< 10
Method Blank					

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Analyte Symbol	Ca	Co	Cr	Fe	Ga
Unit Symbol	%	ppm	ppm	%	ppm
Detection Limit	0.01	1	1	0.01	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	3	0.03	< 10	0.14	0.047
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-1 Meas	4	0.03	< 10	0.13	0.054
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-1 Meas	4	0.03	< 10	0.13	0.055
GXR-1 Cert	3.9	0.050	7.5	0.217	0.052
GXR-4 Meas	< 1	1.68	44	1.71	0.145
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-4 Meas	< 1	1.65	45	1.61	0.14
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-4 Meas	< 1	1.63	44	1.64	0.141
GXR-4 Cert	0.11	4.01	64.5	1.66	0.564
GXR-6 Meas	< 1	1.18	< 10	0.43	0.092
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
GXR-6 Meas	< 1	1.09	< 10	0.4	0.089
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
GXR-6 Meas	2	1.15	< 10	0.42	0.093
GXR-6 Cert	0.068	1.87	13.9	0.609	0.104
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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SQ47 Cert  
PTC-1b Meas  
PTC-1b Cert  
OxL118 Meas  
OxL118 Cert  
OxL118 Meas  
OxL118 Cert  
OxP116 Meas  
OxP116 Cert  
OxP116 Meas  
OxP116 Cert  
CCU-1e Meas  
CCU-1e Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 218 Meas  
OREAS 218 Cert

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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	3	0.3	< 10	2.69	0.029
64661 Dup	4	0.31	< 10	2.67	0.03
64675 Orig	2	0.6	< 10	1.9	0.056
64675 Dup	< 1	0.6	< 10	1.9	0.058
64677 Orig					
64677 Dup					
64688 Orig	4	0.52	< 10	2.68	0.04
64688 Dup	4	0.55	< 10	2.77	0.044
64689 Orig					
64689 Dup					
64698 Orig	2	0.63	< 10	2.43	0.032
64698 Split PREP DUP	< 1	0.76	< 10	2.48	0.034
64700 Orig					
64700 Dup					
65208 Orig	3	0.51	11	1.75	0.035

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup	< 1	0.49	11	1.75	0.035
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	2	0.41	< 10	2.49	0.035
65231 Dup	4	0.41	< 10	2.48	0.036
65241 Orig					
65241 Dup					
65245 Orig	2	0.39	< 10	2.71	0.044
65245 Dup	2	0.4	< 10	2.69	0.044
65253 Orig					
65253 Dup					
65255 Orig	< 1	0.42	< 10	1.87	0.036
65255 Split PREP DUP	< 1	0.39	< 10	1.83	0.035
65257 Orig	< 1	0.3	16	0.5	0.028
65257 Dup	< 1	0.31	16	0.51	0.028
65264 Orig					
65264 Dup					
65271 Orig	11	0.37	< 10	0.36	0.03
65271 Dup	11	0.36	< 10	0.35	0.029
65287 Orig	< 1	0.67	16	0.91	0.066
65287 Dup	< 1	0.68	16	0.92	0.067
65376 Orig					
65376 Dup					
65378 Orig	< 1	0.44	17	0.7	0.078
65378 Dup	1	0.48	18	0.73	0.083
65382 Orig	2	0.44	< 10	2.83	0.04
65382 Split PREP DUP	< 1	0.48	< 10	2.7	0.049
65386 Orig					
65386 Dup					



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Report Date: 18/9/2017

Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig	< 1	0.64	11	0.87	0.321
65390 Dup	< 1	0.64	11	0.87	0.32
65404 Orig	4	0.92	< 10	2.52	0.033
65404 Dup	3	0.83	< 10	2.49	0.033
65417 Orig					
65417 Dup					
65420 Orig	< 1	0.08	17	0.37	0.143
65420 Dup	< 1	0.07	15	0.34	0.118
65429 Orig					
65429 Dup					
65432 Orig	5	0.19	< 10	3.52	0.025
65432 Split PREP DUP	1	0.19	< 10	3.52	0.025
65433 Orig	3	0.23	< 10	2.84	0.024
65433 Dup	2	0.24	< 10	2.85	0.025
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 1	< 0.01	< 10	< 0.01	0.013
Method Blank	< 1	< 0.01	< 10	< 0.01	0.016
Method Blank	< 1	< 0.01	< 10	< 0.01	0.014
Method Blank	< 1	< 0.01	< 10	< 0.01	0.015
Method Blank					

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Analyte Symbol	Hg	K	La	Mg	Na
Unit Symbol	ppm	%	ppm	%	%
Detection Limit	1	0.01	10	0.01	0.001
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.04	0.17	80	1	148
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-1 Meas	0.045	0.19	86	1	183
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-1 Meas	0.045	0.19	86	1	183
GXR-1 Cert	0.065	0.257	122	1.58	275
GXR-4 Meas	0.131	1.81	4	8	77
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-4 Meas	0.126	1.72	10	7	76
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-4 Meas	0.128	1.7	4	7	75
GXR-4 Cert	0.12	1.77	4.8	7.7	221
GXR-6 Meas	0.035	0.01	2	22	29
GXR-6 Cert	0.035	0.016	3.6	27.6	35
GXR-6 Meas	0.034	0.01	4	21	33
GXR-6 Cert	0.035	0.016	3.6	27.6	35
GXR-6 Meas	0.035	0.01	6	21	35
GXR-6 Cert	0.035	0.016	3.6	27.6	35
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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SQ47 Cert  
PTC-1b Meas  
PTC-1b Cert  
OxL118 Meas  
OxL118 Cert  
OxL118 Meas  
OxL118 Cert  
OxP116 Meas  
OxP116 Cert  
OxP116 Meas  
OxP116 Cert  
CCU-1e Meas  
CCU-1e Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
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OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 223 (Fire Assay) Meas  
OREAS 223 (Fire Assay) Cert  
OREAS 218 Meas  
OREAS 218 Cert

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	0.086	1.79	6	13	82
64661 Dup	0.087	2.63	4	12	100
64675 Orig	0.115	0.04	3	8	235
64675 Dup	0.115	0.04	3	8	233
64677 Orig					
64677 Dup					
64688 Orig	0.125	0.28	3	12	96
64688 Dup	0.129	0.29	4	12	98
64689 Orig					
64689 Dup					
64698 Orig	0.13	0.14	7	12	213
64698 Split PREP DUP	0.132	0.13	7	14	237
64700 Orig					
64700 Dup					
65208 Orig	0.122	0.09	4	9	127

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup	0.121	0.09	5	9	128
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	0.116	1.38	8	9	129
65231 Dup	0.116	1.4	5	9	129
65241 Orig					
65241 Dup					
65245 Orig	0.114	0.05	4	11	182
65245 Dup	0.113	0.05	4	12	183
65253 Orig					
65253 Dup					
65255 Orig	0.11	< 0.01	4	8	128
65255 Split PREP DUP	0.108	< 0.01	3	7	123
65257 Orig	0.047	1.08	4	2	10
65257 Dup	0.048	1.09	4	2	10
65264 Orig					
65264 Dup					
65271 Orig	0.031	16.8	35	1	9
65271 Dup	0.031	16.4	37	1	9
65287 Orig	0.084	0.11	5	7	98
65287 Dup	0.085	0.11	5	7	100
65376 Orig					
65376 Dup					
65378 Orig	0.144	0.03	4	5	71
65378 Dup	0.151	0.03	4	5	73
65382 Orig	0.139	0.09	6	13	85
65382 Split PREP DUP	0.135	0.09	4	13	88
65386 Orig					
65386 Dup					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig	0.088	0.03	3	6	228
65390 Dup	0.089	0.03	3	6	229
65404 Orig	0.101	0.15	4	11	53
65404 Dup	0.1	0.15	5	11	53
65417 Orig					
65417 Dup					
65420 Orig	0.106	0.45	10	3	114
65420 Dup	0.091	0.37	9	3	102
65429 Orig					
65429 Dup					
65432 Orig	0.097	< 0.01	7	16	177
65432 Split PREP DUP	0.096	< 0.01	5	16	178
65433 Orig	0.089	0.02	4	16	222
65433 Dup	0.09	0.02	8	16	229
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank	< 0.001	< 0.01	< 2	< 1	< 1
Method Blank					

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Analyte Symbol	P	S	Sb	Sc	Sr
Unit Symbol	%	%	ppm	ppm	ppm
Detection Limit	0.001	0.01	2	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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Method Blank

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	< 0.01	< 20	11	< 2	34
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-1 Meas	< 0.01	< 20	< 1	< 2	33
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-1 Meas	< 0.01	< 20	6	< 2	34
GXR-1 Cert	0.036	2.44	13	0.39	34.9
GXR-4 Meas	0.15	< 20	2	4	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-4 Meas	0.15	< 20	< 1	4	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-4 Meas	0.15	< 20	< 1	< 2	< 10
GXR-4 Cert	0.29	22.5	0.97	3.2	6.2
GXR-6 Meas		< 20	< 1	< 2	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
GXR-6 Meas		< 20	< 1	3	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
GXR-6 Meas		< 20	< 1	4	< 10
GXR-6 Cert		5.3	0.018	2.2	1.54
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

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Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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SQ47 Cert

PTC-1b Meas

PTC-1b Cert

OxL118 Meas

OxL118 Cert

OxL118 Meas

OxL118 Cert

OxP116 Meas

OxP116 Cert

OxP116 Meas

OxP116 Cert

CCU-1e Meas

CCU-1e Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 218 Meas

OREAS 218 Cert

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	0.29	< 20	2	< 2	< 10
64661 Dup	0.29	< 20	< 1	< 2	< 10
64675 Orig	0.27	< 20	< 1	< 2	< 10
64675 Dup	0.27	< 20	1	< 2	< 10
64677 Orig					
64677 Dup					
64688 Orig	0.02	< 20	4	< 2	< 10
64688 Dup	0.02	< 20	< 1	< 2	< 10
64689 Orig					
64689 Dup					
64698 Orig	0.27	< 20	< 1	< 2	< 10
64698 Split PREP DUP	0.28	< 20	< 1	< 2	< 10
64700 Orig					
64700 Dup					
65208 Orig	0.32	< 20	6	< 2	< 10

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65208 Dup	0.31	< 20	4	< 2	< 10
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	0.29	< 20	< 1	< 2	< 10
65231 Dup	0.28	< 20	4	< 2	< 10
65241 Orig					
65241 Dup					
65245 Orig	0.32	< 20	< 1	< 2	< 10
65245 Dup	0.33	< 20	< 1	< 2	< 10
65253 Orig					
65253 Dup					
65255 Orig	0.26	< 20	< 1	< 2	< 10
65255 Split PREP DUP	0.24	< 20	< 1	< 2	< 10
65257 Orig	< 0.01	< 20	< 1	< 2	< 10
65257 Dup	< 0.01	< 20	< 1	< 2	< 10
65264 Orig					
65264 Dup					
65271 Orig	< 0.01	< 20	< 1	14	< 10
65271 Dup	< 0.01	< 20	< 1	14	< 10
65287 Orig	0.14	< 20	2	< 2	< 10
65287 Dup	0.14	< 20	3	< 2	< 10
65376 Orig					
65376 Dup					
65378 Orig	0.06	< 20	< 1	< 2	< 10
65378 Dup	0.06	< 20	< 1	< 2	< 10
65382 Orig	0.21	< 20	< 1	< 2	< 10
65382 Split PREP DUP	0.22	< 20	< 1	< 2	< 10
65386 Orig					
65386 Dup					

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
65390 Orig	0.25	< 20	3	< 2	< 10
65390 Dup	0.26	< 20	1	< 2	< 10
65404 Orig	0.06	< 20	< 1	< 2	< 10
65404 Dup	0.06	< 20	5	< 2	< 10
65417 Orig					
65417 Dup					
65420 Orig	0.11	< 20	< 1	< 2	< 10
65420 Dup	0.1	< 20	5	< 2	< 10
65429 Orig					
65429 Dup					
65432 Orig	0.29	< 20	< 1	< 2	< 10
65432 Split PREP DUP	0.29	< 20	< 1	< 2	< 10
65433 Orig	0.25	< 20	3	< 2	< 10
65433 Dup	0.26	< 20	< 1	< 2	< 10
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank	< 0.01	< 20	< 1	< 2	< 10
Method Blank					

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ti	Th	Te	Tl	U
Unit Symbol	%	ppm	ppm	ppm	ppm
Detection Limit	0.01	20	1	2	10
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP

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**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
GXR-1 Meas	81	116	21	12	
GXR-1 Cert	80	164	32	38	
GXR-1 Meas	69	141	24	12	
GXR-1 Cert	80	164	32	38	
GXR-1 Meas	71	141	24	12	
GXR-1 Cert	80	164	32	38	
GXR-4 Meas	77	13	12	8	
GXR-4 Cert	87	30.8	14	186	
GXR-4 Meas	74	14	12	9	
GXR-4 Cert	87	30.8	14	186	
GXR-4 Meas	74	14	12	9	
GXR-4 Cert	87	30.8	14	186	
GXR-6 Meas	161	< 10	5	9	
GXR-6 Cert	186	1.9	14	110	
GXR-6 Meas	156	< 10	5	8	
GXR-6 Cert	186	1.9	14	110	
GXR-6 Meas	164	< 10	5	7	
GXR-6 Cert	186	1.9	14	110	
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
Oreas 75a (4 Acid Digest) Meas					
Oreas 75a (4 Acid Digest) Cert					
MP-1b Meas					
MP-1b Cert					
OxQ75 Meas					
OxQ75 Cert					
CPB-2 Meas					
CPB-2 Cert					
CZN-4 Meas					
CZN-4 Cert					
SQ47 Meas					

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA

SQ47 Cert

PTC-1b Meas

PTC-1b Cert

OxL118 Meas

6.14

OxL118 Cert

5.828

OxL118 Meas

5.41

OxL118 Cert

5.828

OxP116 Meas

14.8

OxP116 Cert

14.92

OxP116 Meas

14.5

OxP116 Cert

14.92

CCU-1e Meas

CCU-1e Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 223 (Fire Assay) Meas

OREAS 223 (Fire Assay) Cert

OREAS 218 Meas

OREAS 218 Cert



**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
OREAS 218 Meas					
OREAS 218 Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
OREAS 224 (Fire Assay) Meas					
OREAS 224 (Fire Assay) Cert					
64654 Orig					
64654 Dup					
64661 Orig	118	< 10	11	4	
64661 Dup	118	< 10	11	4	
64675 Orig	81	< 10	12	5	
64675 Dup	80	< 10	12	4	
64677 Orig					
64677 Dup					
64688 Orig	116	< 10	7	2	
64688 Dup	121	< 10	7	2	
64689 Orig					
64689 Dup					
64698 Orig	99	< 10	11	4	
64698 Split PREP DUP	108	< 10	12	4	
64700 Orig					
64700 Dup					
65208 Orig	84	< 10	13	3	

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65208 Dup	84	< 10	13	3	
65218 Orig					
65218 Dup					
65230 Orig					
65230 Dup					
65231 Orig	94	< 10	11	5	
65231 Dup	93	< 10	11	5	
65241 Orig					
65241 Dup					
65245 Orig	104	< 10	11	7	
65245 Dup	105	< 10	11	7	
65253 Orig					
65253 Dup					
65255 Orig	92	< 10	12	6	
65255 Split PREP DUP	89	< 10	11	5	
65257 Orig	25	< 10	4	3	
65257 Dup	27	< 10	4	4	
65264 Orig					
65264 Dup					
65271 Orig	19	< 10	3	5	
65271 Dup	19	< 10	3	5	
65287 Orig	46	< 10	10	4	
65287 Dup	47	< 10	10	4	
65376 Orig					
65376 Dup					
65378 Orig	48	< 10	12	2	
65378 Dup	51	< 10	12	3	
65382 Orig	140	< 10	13	5	
65382 Split PREP DUP	138	< 10	13	5	
65386 Orig					
65386 Dup					

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA
65390 Orig	59	< 10	10	3	
65390 Dup	60	< 10	11	3	
65404 Orig	83	< 10	6	2	
65404 Dup	77	< 10	6	2	
65417 Orig					
65417 Dup					
65420 Orig	36	18	12	9	
65420 Dup	34	18	11	3	
65429 Orig					
65429 Dup					
65432 Orig	120	< 10	11	8	
65432 Split PREP DUP	119	< 10	11	8	
65433 Orig	121	< 10	9	7	
65433 Dup	125	< 10	9	7	
65440 Orig					
65440 Dup					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank					
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank	< 1	< 10	< 1	< 1	
Method Blank					

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	V	W	Y	Zr	Au
Unit Symbol	ppm	ppm	ppm	ppm	g/tonne
Detection Limit	1	10	1	1	0.03
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	FA-GRA

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Method Blank

Method Blank

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Method Blank

Method Blank

< 0.03

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES
GXR-1 Meas				
GXR-1 Cert				
GXR-1 Meas				
GXR-1 Cert				
GXR-1 Meas				
GXR-1 Cert				
GXR-4 Meas				
GXR-4 Cert				
GXR-4 Meas				
GXR-4 Cert				
GXR-4 Meas				
GXR-4 Cert				
GXR-4 Meas				
GXR-4 Cert				
GXR-6 Meas				
GXR-6 Cert				
GXR-6 Meas				
GXR-6 Cert				
GXR-6 Meas				
GXR-6 Cert				
Oreas 75a (4 Acid Digest) Meas		0.197		
Oreas 75a (4 Acid Digest) Cert		0.193		
Oreas 75a (4 Acid Digest) Meas		0.196		
Oreas 75a (4 Acid Digest) Cert		0.193		
MP-1b Meas		3.09	2.13	16.8
MP-1b Cert		3.07	2.09	16.7
OxQ75 Meas	154			
OxQ75 Cert	153.9			
CPB-2 Meas		0.121	63.5	5.73
CPB-2 Cert		0.1213	63.52	6.04
CZN-4 Meas		0.406	0.189	55.2
CZN-4 Cert		0.403	0.1861	55.07
SQ47 Meas	125			

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES
SQ47 Cert	122.3			
PTC-1b Meas		7.88	0.075	0.199
PTC-1b Cert		7.97	0.08	0.2083
OxL118 Meas				
OxL118 Cert				
OxL118 Meas				
OxL118 Cert				
OxP116 Meas				
OxP116 Cert				
OxP116 Meas				
OxP116 Cert				
CCU-1e Meas			0.676	3.11
CCU-1e Cert			0.703	3.02
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 223 (Fire Assay) Meas				
OREAS 223 (Fire Assay) Cert				
OREAS 218 Meas				
OREAS 218 Cert				

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

OREAS 218 Meas

OREAS 218 Cert

OREAS 224 (Fire Assay) Meas

OREAS 224 (Fire Assay) Cert

OREAS 224 (Fire Assay) Meas

OREAS 224 (Fire Assay) Cert

OREAS 224 (Fire Assay) Meas

OREAS 224 (Fire Assay) Cert

OREAS 224 (Fire Assay) Meas

OREAS 224 (Fire Assay) Cert

OREAS 224 (Fire Assay) Meas

OREAS 224 (Fire Assay) Cert

OREAS 224 (Fire Assay) Meas

OREAS 224 (Fire Assay) Cert

64654 Orig

64654 Dup

64661 Orig

64661 Dup

64675 Orig

64675 Dup

64677 Orig

64677 Dup

64688 Orig

64688 Dup

64689 Orig

64689 Dup

64698 Orig

64698 Split PREP DUP

64700 Orig

64700 Dup

65208 Orig

	2	2.56
	1.95	2.54

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

---

65208 Dup

65218 Orig

65218 Dup

65230 Orig

65230 Dup

65231 Orig

65231 Dup

65241 Orig

65241 Dup

65245 Orig

65245 Dup

65253 Orig

65253 Dup

65255 Orig

65255 Split PREP DUP

65257 Orig

65257 Dup

65264 Orig

65264 Dup

65271 Orig

65271 Dup

65287 Orig

65287 Dup

65376 Orig

65376 Dup

65378 Orig

65378 Dup

65382 Orig

65382 Split PREP DUP

65386 Orig

65386 Dup



**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

65390 Orig

65390 Dup

65404 Orig

65404 Dup

65417 Orig

65417 Dup

65420 Orig

65420 Dup

65429 Orig

65429 Dup

65432 Orig

65432 Split PREP DUP

65433 Orig

65433 Dup

65440 Orig

65440 Dup

Method Blank

Method Blank

Method Blank

Method Blank

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Method Blank

Method Blank

< 0.001

< 0.003

< 0.001

**Final Report**  
**Activation Laboratories**

Report Number: A17-09156

Report Date: 18/9/2017

Analyte Symbol	Ag	Cu	Pb	Zn
Unit Symbol	g/tonne	%	%	%
Detection Limit	3	0.001	0.003	0.001
Analysis Method	FA-GRA	ICP-OES	ICP-OES	ICP-OES

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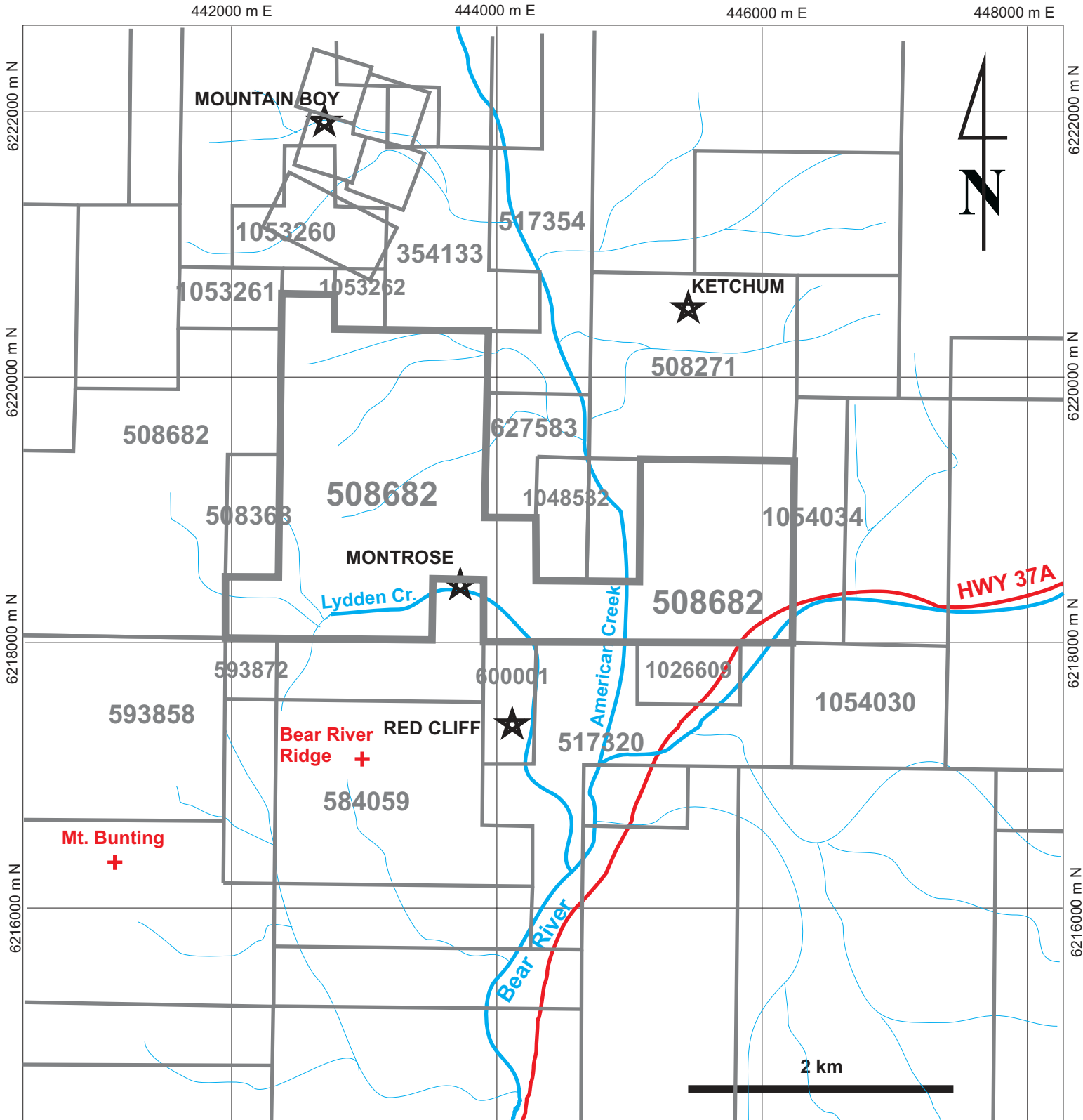
Method Blank







**Silver Crown 6  
Property**

To accompany report by Ed Kruchkowski	
<b>DECADE RESOURCES LTD.</b>	
<b>SILVER CROWN 6 PROPERTY</b>	
SKEENA MINING DIVISION, B.C.	
<b>LOCATION MAP</b>	
NTS: 104A/4W	SCALE: As Shown
DATE: Dec., 2017	FIGURE: 1

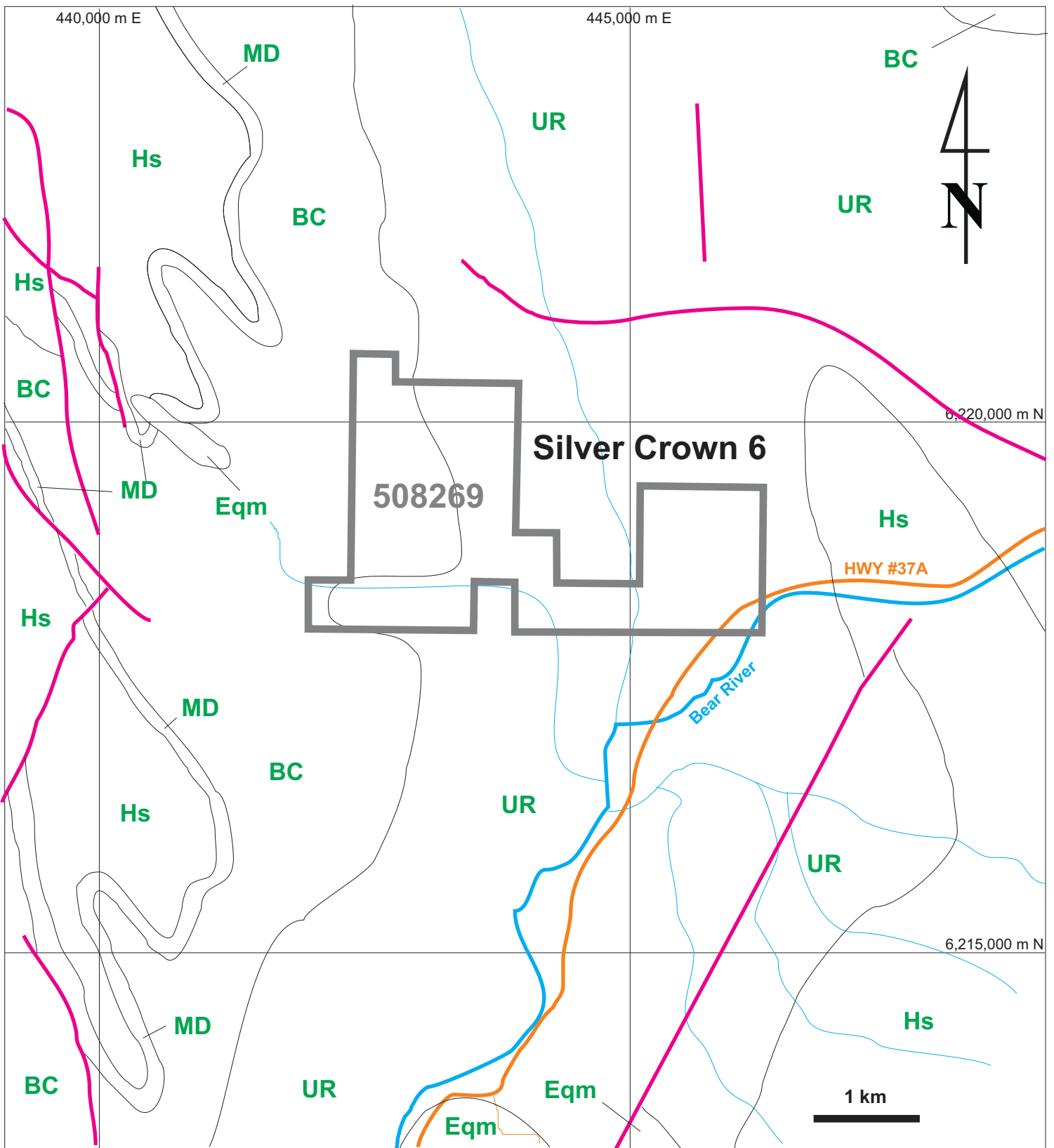
Kilometres  
0 50



**Legend**

-  Mineral claim boundaries and tenure numbers
-  Paved roads, highways
-  Creeks and rivers
-  Most important mineral showings, past producers

<b>Decade Resources Ltd.</b>	
<b>SILVER CROWN 6 PROPERTY</b> SKEENA MINING DIVISION	
<b>CLAIM MAP</b>	
<b>NTS 104 011</b>	<b>Figure 2</b>
<b>Date: December 2017</b>	<b>Scale 1 : 40,000</b>



**Intrusive rocks**

**Eqm** Quartz Monzonite (Eocene?)

**Layered rocks**





**Hs** Sediments; Hazelton Gp.

**MD** Mt. Dilworth Fm;  
Hazelton Gp.

**BC** Betty Creek Fm.;  
Hazelton Gp.

**UR** Unuk River Fm;  
Hazelton Gp.

**Legend**

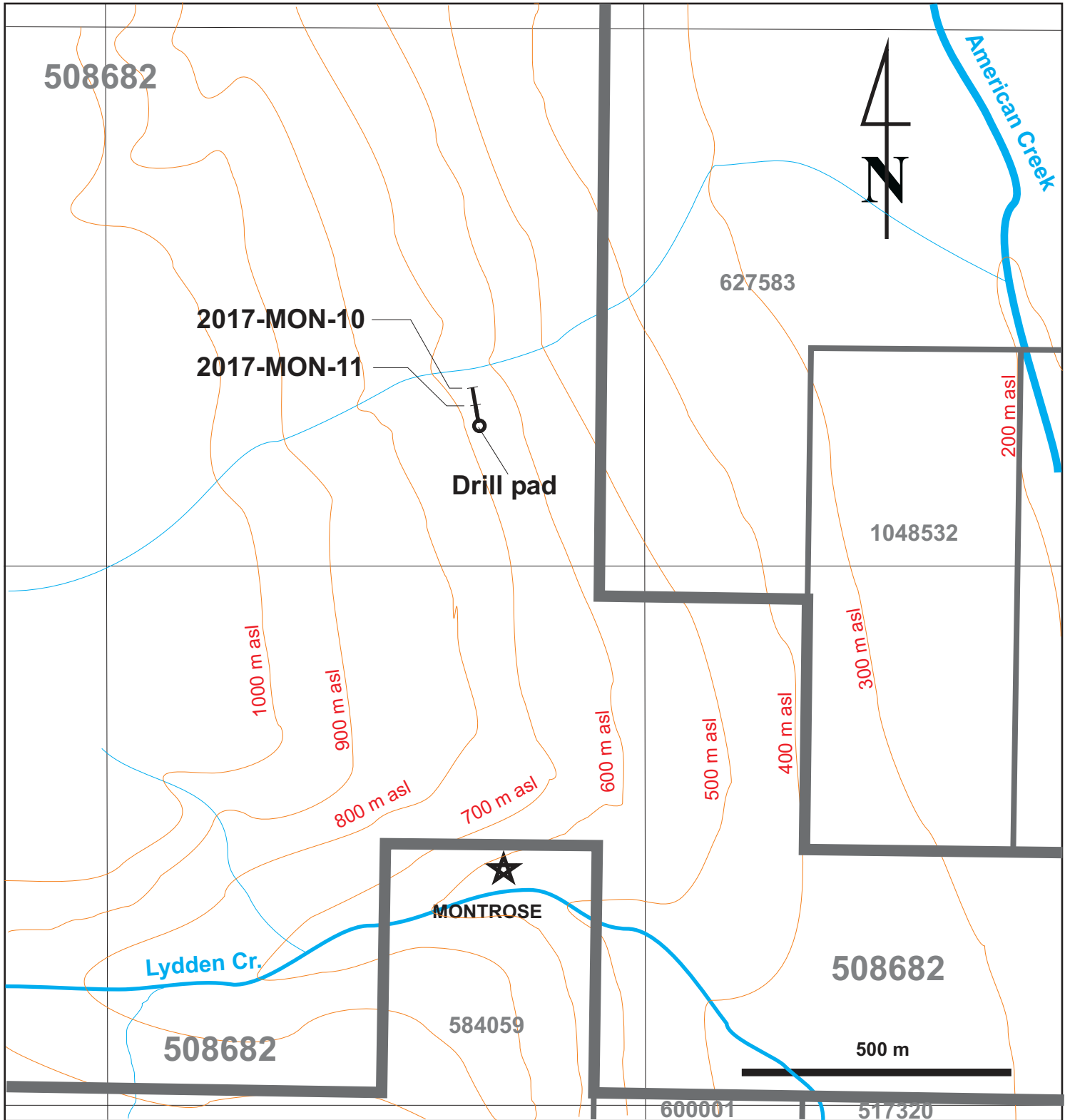
-  Geological Contacts
-  Prominent faults
-  Rivers, creeks
-  Highway, roads

*To accompany report by E. Kruchkowski*

<b>Decade Resources Ltd.</b>	
<b>SILVER CROWN 6 PROPERTY</b> SKEENA MINING DIVISION	
<b>GEOLOGY MAP</b>	
<b>NTS 104 011</b>	<b>Figure 3</b>
<b>Date: December 2017</b>	<b>Scale 1:50,000</b>

443000 m E

444000 m E



6190000 m N

6218000 m N

### Legend



Mineral claim boundaries and tenure numbers



Contour lines, elevations in metres a.s.l.



Creeks and rivers



Most important mineral showings, past producers

**Decade Resources Ltd.**

**SILVER CROWN 6 PROPERTY**  
SKEENA MINING DIVISION

**DRILL HOLE LOCATION**

NTS 104 011

Date: December 2017

**Figure 4**

Scale 1 : 10,000

Azimuth 350

Casing

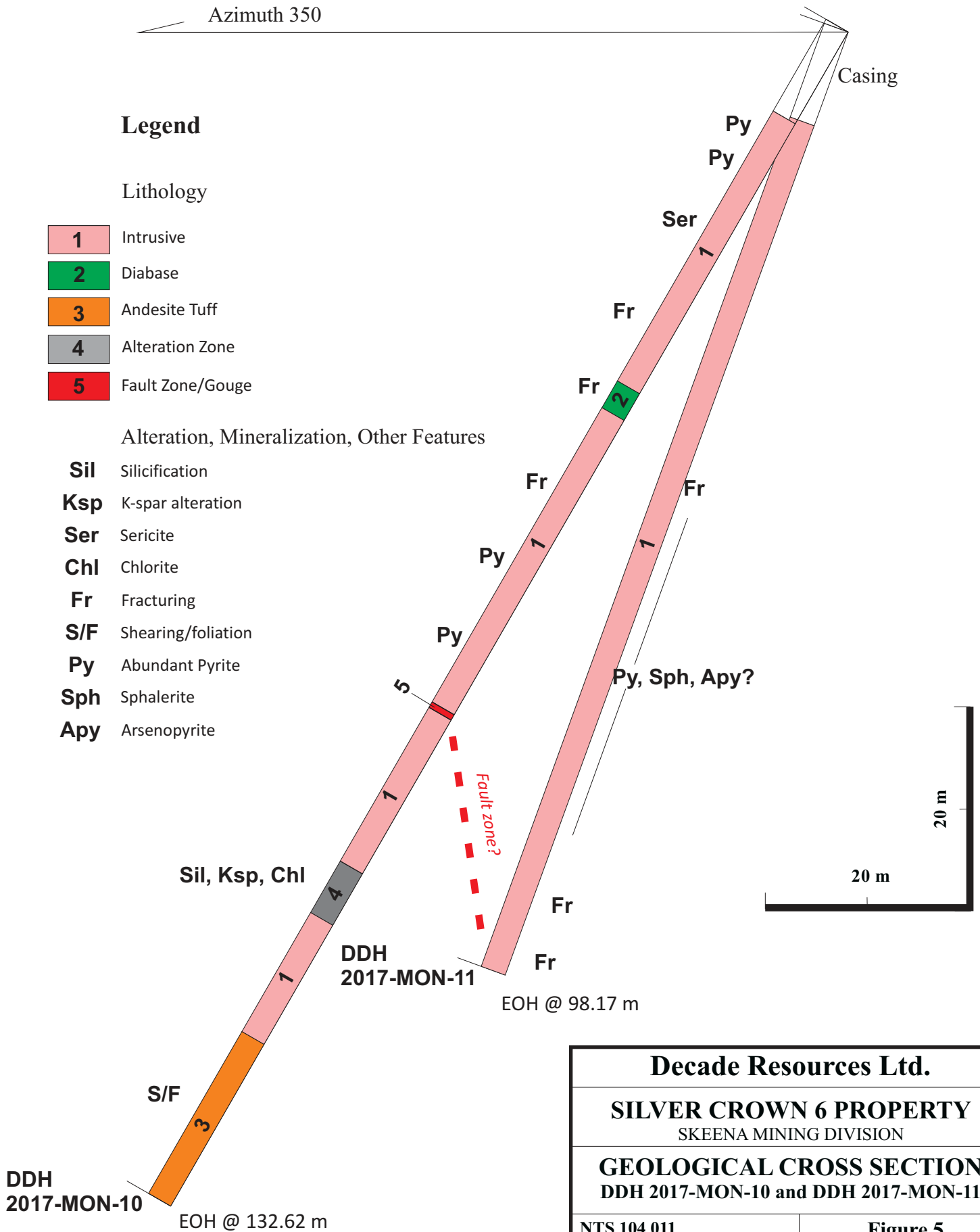
### Legend

#### Lithology

- 1** Intrusive
- 2** Diabase
- 3** Andesite Tuff
- 4** Alteration Zone
- 5** Fault Zone/Gouge

#### Alteration, Mineralization, Other Features

- Sil** Silicification
- Ksp** K-spar alteration
- Ser** Sericite
- Chl** Chlorite
- Fr** Fracturing
- S/F** Shearing/foliation
- Py** Abundant Pyrite
- Sph** Sphalerite
- Apy** Arsenopyrite



**Decade Resources Ltd.**

**SILVER CROWN 6 PROPERTY**  
SKEENA MINING DIVISION

**GEOLOGICAL CROSS SECTION**  
DDH 2017-MON-10 and DDH 2017-MON-11

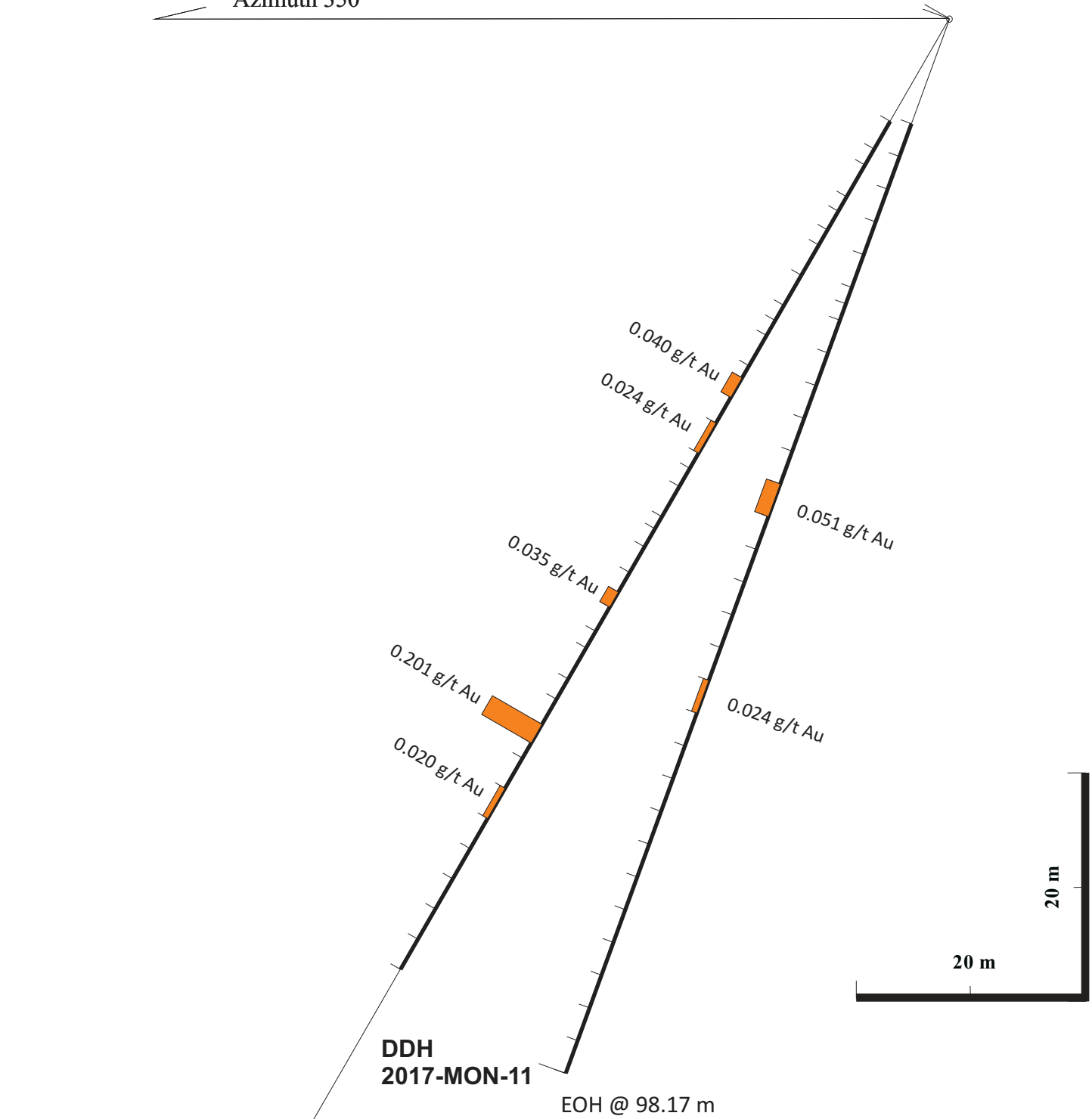
NTS 104 011

Date: December 2017

**Figure 5**

Scale 1 : 500

Azimuth 350



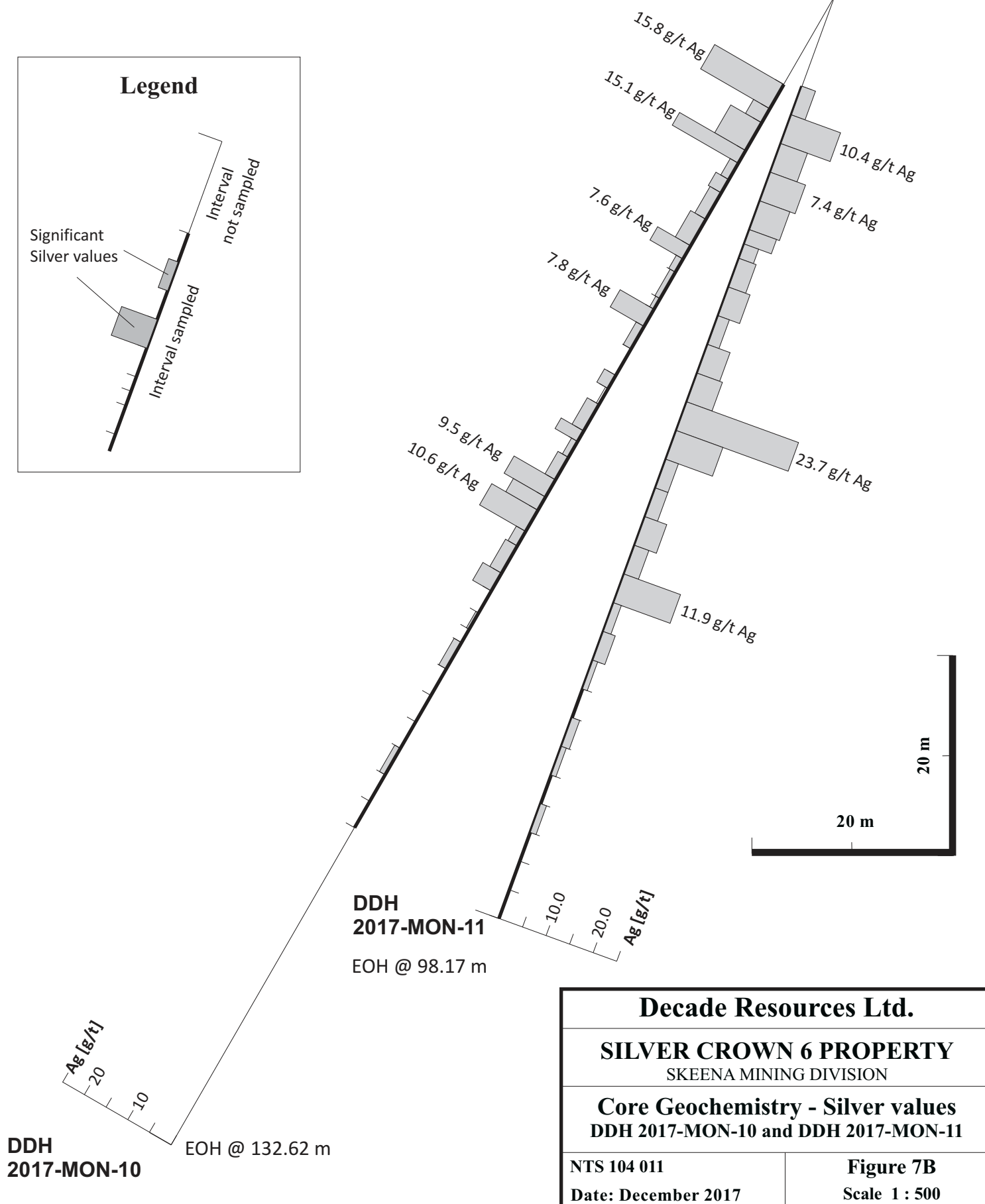
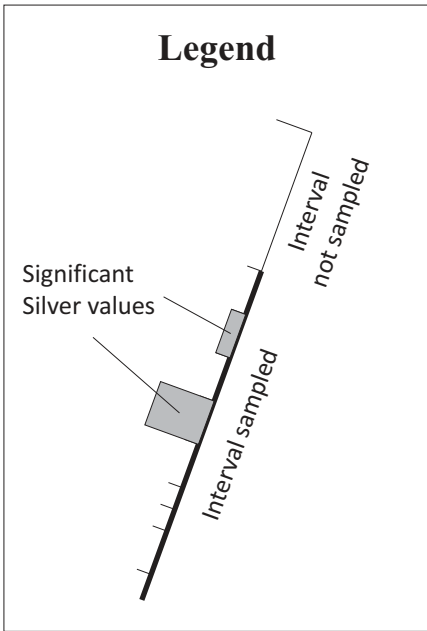
DDH  
2017-MON-10

EOH @ 132.62 m

<b>Decade Resources Ltd.</b>	
<b>SILVER CROWN 6 PROPERTY</b> SKEENA MINING DIVISION	
<b>CROSS SECTION - Au values</b> DDH 2017-MON-10 and DDH 2017-MON-11	
NTS 104 011	<b>Figure 6A</b>
Date: January 2017	Scale 1 : 500



Azimuth 350



<b>Decade Resources Ltd.</b>	
<b>SILVER CROWN 6 PROPERTY</b> SKEENA MINING DIVISION	
<b>Core Geochemistry - Silver values</b> DDH 2017-MON-10 and DDH 2017-MON-11	
NTS 104 011	<b>Figure 7B</b>
Date: December 2017	Scale 1 : 500