



Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological, geochemical

TOTAL COST: \$43,142.26

AUTHOR(S): Paul Metcalfe, B.Marie Brannstrom

SIGNATURE(S):

PM 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5756994

PROPERTY NAME: GEORGIE RIVER

CLAIM NAME(S) (on which the work was done): 614843, 614923, 615123, 1015772, 1056626, 250725

COMMODITIES SOUGHT: Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 103O 012, 103O 013, 103P 011, 103O 006

MINING DIVISION: Skeena

NTS/BCGS: 103O/16, 103P/12, 103P/13

LATITUDE: 55 ° 47 '54.8 " LONGITUDE: 130 ° 2 '29.8 " (at centre of work)

OWNER(S):

1) Auramex Resource Corp.

2)

MAILING ADDRESS:

#207 - 142-757 West Hastings St.,

Vancouver, BC V6C 1A1

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

1) Auramex Resource Corp.

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PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Early Jurassic, Texas Creek, Stewart Camp, Georgie River, Georgia River, Hazelton, Hume Creek, southwest dipping, gold, vein

Colling Ridge Porphyry, Bulldog Creek

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 37369, 35850, 32623, 32000, 19049, 12630,

19983, 17644, 08547

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	1:2,500 and 1:4,000	1056626, 250725, 614843, 1015772, 614843	\$39,674.76
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	1	1056626	55.00
Silt	4	1056626, 250725, 1015772	220.00
Rock	50	1056626, 250725, 1015772, 614843, 614843	3,137.50
Other	1 moss mat	615123	55.00
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	\$43,142.26



Assessment report on reconnaissance sampling and mapping on the Georgie River property, Stewart, British Columbia

Tenures:

614843 614923 615123 615144 615163 615183 615203 615223 615243 615263 615283
615303 758982 759002 942409 1015772 1016214 1037833 1056626 250725

Skeena Mining Division,

British Columbia, Canada

Latitude: 55° 47' 54.8" N, Longitude: 130° 2' 29.8" W

434,700 m E, 6,184,150 m N

Universal Transverse Mercator Zone 9; 1983 North American Datum

Prepared For

Auramex Resource Corp. (owner)

by

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Date of Report: 13 January, 2019

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4. Introduction

On July 24, 2018, Auramex mobilized a field crew to Stewart, British Columbia. The team conducted a truck- and helicopter-based reconnaissance mapping and sampling program on Auramex' properties located in the Stewart Camp.

This report covers the portion of the field program that includes reconnaissance geochemical sampling and geological mapping work on Auramex' Georgie River project, situated approximately 16 km south of Stewart along the Portland Canal in northwest British Columbia. The reconnaissance level work was performed in three separate areas on the Georgie River project: Exdale, Hume Creek-Georgia River Mine and Anomaly 2; results are presented in Maps 1 to 3, respectively (in pocket). The program comprised 46 man-days, including mobilization, demobilization and field data collation. In addition to the mapping, a total of 50 rock, 4 silt, 1 moss, and 1 soil samples were taken.

4.1. Disclaimer

Auramex has assumed, for purposes of preparation, that all technical documents reviewed and listed in "References" are materially accurate. Maps presented with this document use a Universal Transverse Mercator (UTM) projection, with a central meridian of 129° W longitude (Zone 9) and using the 1983 North American Datum (NAD'83). Currency amounts are reported in Canadian dollars.

4.2. Acknowledgements

The authors wish to acknowledge, with gratitude, the industry and competence of their colleagues who carried out the 2018 exploration fieldwork: Andrew Wilkins P.Geo., Lucia Theny, Katie Dodd and Alexia Bryson.

5. Property Location and Description

5.1. Property Location

Auramex' 2018 programs were centred in the Stewart Camp, located in the southern Golden Triangle, northwest British Columbia. The centre of the Georgie River project area is approximately 16 km southeast of Stewart as the crow flies. Work described in this report is centred on latitude: 55° 47' 54.8" N, and longitude: 130° 2' 29.8" W (434,700 m E, 6,184,150 m N). The National Topographic System (NTS) map areas which includes the mineral tenures are 103O16, 103P12 and 103P13.



Figure 1: Property location

5.2. Mineral Tenure

Tenures listed in Table 1 are those upon which the assessment work was conducted and contiguous tenures where the work was applied. Figure 2 is a map of the entirety of Auramex' Georgie River project tenures, with the tenures from Table 1 highlighted.

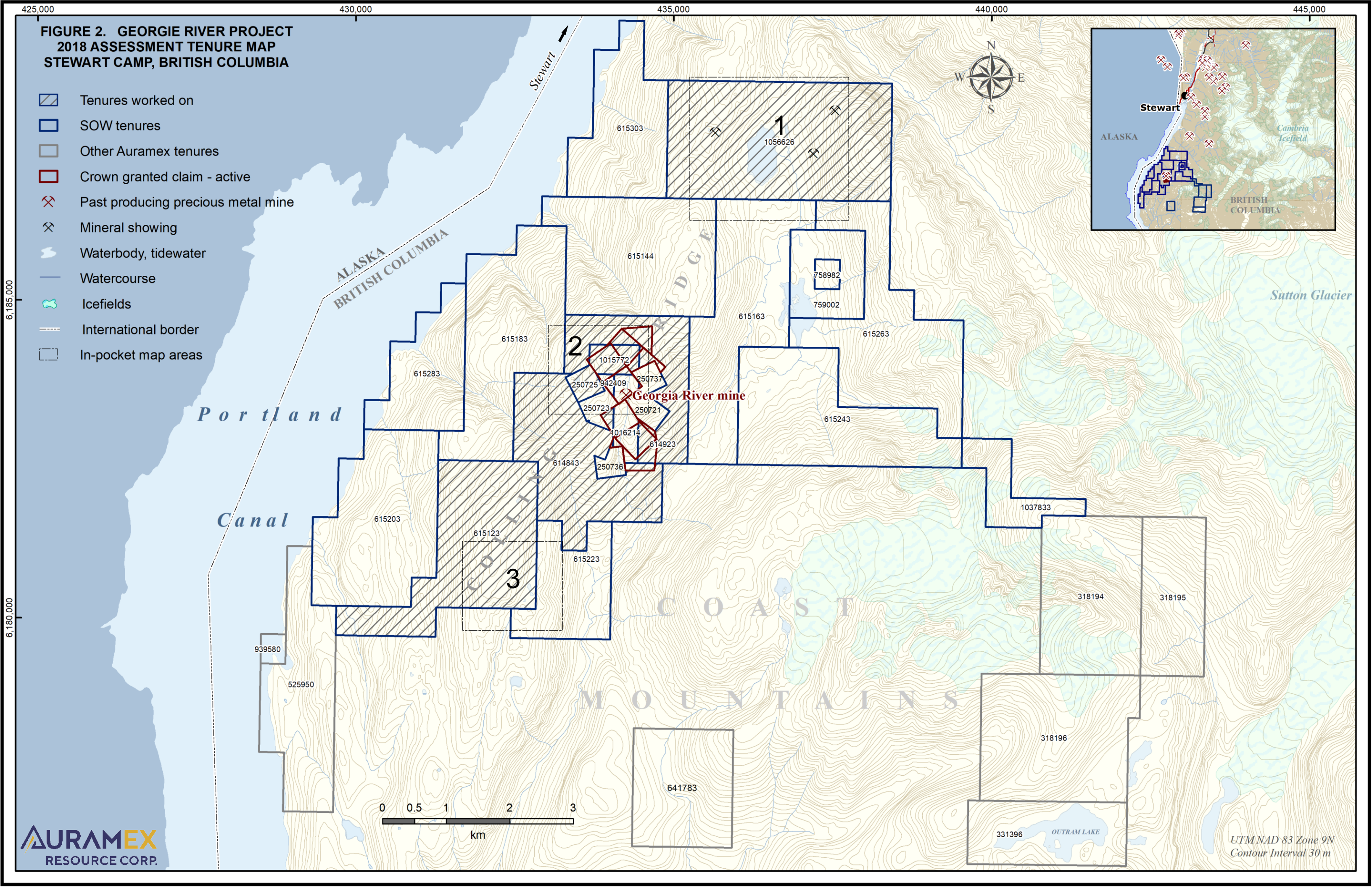
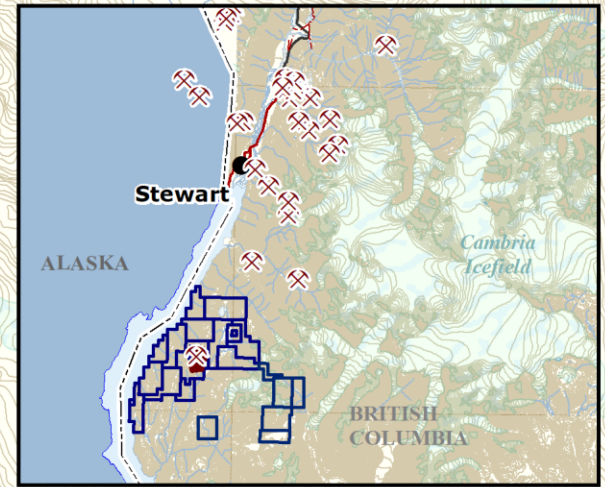
Table 1: List of tenures listed in the Statement of Work.

Tenure no.	Tenure name	Owner	Origin date	Good to date	Area (ha)	Work done
614843		124665 (100%)	2009/AUG/04	2020/JUL/15	400.23	y
	GEORGIA					
614923	RIVER 1	124665 (100%)	2009/AUG/04	2020/JUL/15	254.61	y
615123	COL 1	124665 (100%)	2009/AUG/05	2020/JUL/15	454.96	y
615144	COL 2	124665 (100%)	2009/AUG/05	2020/JUL/15	454.47	
615163	COL 3	124665 (100%)	2009/AUG/05	2020/JUL/15	454.56	
615183	COL 4	124665 (100%)	2009/AUG/05	2020/JUL/15	454.61	

Tenure no.	Tenure name	Owner	Origin date	Good to date	Area (ha)	Work done
615203	COL 5	124665 (100%)	2009/AUG/05	2020/JUL/15	454.92	
615223	COL 6	124665 (100%)	2009/AUG/05	2020/JUL/15	218.41	
615243	COL 7	124665 (100%)	2009/AUG/05	2020/JUL/15	454.73	
615263	COL 8	124665 (100%)	2009/AUG/05	2020/JUL/15	454.59	
615283	COL 9	124665 (100%)	2009/AUG/05	2020/JUL/15	236.43	
615303	COL 10	124665 (100%)	2009/AUG/05	2020/JUL/15	308.91	
758982		124665 (50%)	2010/APR/27	2020/JUL/15	18.18	
759002		124665 (50%)	2010/APR/27	2020/JUL/15	145.44	
942409	FRACTION	124665 (100%)	2012/JAN/24	2020/JUL/15	18.19	
1015772	AU NORTH	124665 (100%)	2013/JAN/07	2020/JUL/15	36.37	y
	OVER					
1016214	GEORGIA	124665 (100%)	2013/JAN/22	2020/JUL/15	54.57	
1037833	TAN	124665 (100%)	2015/AUG/10	2020/JUL/15	127.36	
1056626	EXDALE	124665 (100%)	2017/NOV/23	2020/JUL/15	654.18	y
250725		124665 (100%)	1979/AUG/02	2020/DEC/31	25	y

**FIGURE 2. GEORGIE RIVER PROJECT
2018 ASSESSMENT TENURE MAP
STEWART CAMP, BRITISH COLUMBIA**

-  Tenures worked on
-  SOW tenures
-  Other Auramex tenures
-  Crown granted claim - active
-  Past producing precious metal mine
-  Mineral showing
-  Waterbody, tidewater
-  Watercourse
-  Icefields
-  International border
-  In-pocket map areas



5.3. Physiography, climate and vegetation

The Georgie River Property covers an area in British Columbia's rugged Coast Mountains, an area characterised by steep slopes and high rainfall. The property extends from sea level at its western boundary to as high as 1,800 m above sea level (a.s.l.) on its eastern boundary (Figure 2). Glaciation has incised the topography deeply, creating characteristic U-shaped valleys, with one or more alps, or breaks in slope, at elevations between 1000 m and 1200 m elevation a.s.l. Uplift of the Coast Mountains during periods of isostatic rebound has enabled overdeepening of the existing glaciated valleys by rivers and streams. This overdeepening is well-illustrated by the valley of the main (north) fork of the Georgie River which drains to the south and west from Glory Lake, near the centre of the property. The river valley isolates the 1,360-m high north-south ridge called Colling Ridge (Colling Range in older reports) from the main massif to the east. Both glaciated stream valleys and their fluvial successors often occupy zones of lithological weakness; this may be the case with the North Fork of the Georgie River.

The area's climate is typical of the northern Coast Mountains. A Pacific maritime influence ensures relatively warm and consistently wet winters. Average temperatures at Stewart vary from -4°C in January to 15°C (exceptionally 30°C) in July. Annual rainfall in Stewart is 1,843 mm, at least two-thirds of which falls during the winter months from September to February; at higher elevations it falls as snow. Despite this, all major and many subsidiary drainages flow throughout the year, except at alpine elevations. Fieldwork at higher elevations is usually possible until October but snow is possible at any time of year at nearly any elevation and, in years of heavy winter precipitation, snow-pack from the previous year might hinder exploration at higher elevations until as late in the year as September.

Vegetation is typical of the Pacific coast rain forest. Tree line on the property varies between 1,000 and 1,200 m a.s.l.; included in the category of "trees" (i.e.: below tree line) are numerous landslide slopes hosting moderately thick landslide alder, interspersed with Devil's Club. Timber stands between the landslide and avalanche slopes comprise western hemlock, mountain hemlock, spruce, and cedar. Above tree line the vegetation follows the progression common to the alpine of northwestern British Columbia, passing upslope through a zone of perennial and annual alpine flowering plants, and through a zone of heather; the eastern edge of the property is in tundra.

5.4. Local resources, infrastructure and property access

Stewart and its counterpart of Hyder, Alaska in the United States of America are visible in clear weather from the top of Colling Ridge. Stewart has an enviable location at the head of the Portland Canal, first remarked by Robertson (1911) and has a history of mining and mineral exploration well in excess of a hundred years.

The town is accessible from the sea through a bulk loading facility and via a paved highway 333 km south to Smithers, therefore food, fuel and other supplies are either on hand or can be transported with minimal delay from the south.

As noted above, the Georgie River Property extends to tidewater and parts of this shoreline are accessible by boat. During and shortly after the Great War, a trail was constructed from the mouth of the Georgie River to the then-active Georgia River Mine. The construction of the trail was assisted, in part, by the British Columbia Government (Clothier 1919). Few traces of the trail remain and presentday access to the property is by helicopter, Stewart airport being the nearest helicopter base at the time of writing. Communications in this area are made possible by satellite telephone and are limited only by the steepness of valley sides; communications are excellent when above tree line. However, without a radio repeater, nearly all of the property is beyond the range of hand-held radio communication with Stewart.

6. History of Exploration

Mineral exploration in the Stewart-Anyox area began before Confederation and discovery of vein mineralization in the area was made at around the turn of the last century. Mining operations date back to the opening of the Anyox and Silbak Premier mines in 1914 and 1918, respectively.

The earliest record of exploration in the area of the Georgie River property (Flewin 1906, Carmichael 1907, Conway 1911) refer to the discovery of mineralization (MINFILE 103O 016) near the southern end of the present Auramex property and the acquisition of the Black Knight and Black Knight No. 1 claims.

Mineralization discovered on and around the Georgie River property itself has been in five principal areas since the acquisition of the mineral tenures to the southeast, three of which are pertinent to the program reported herein. These will be described by mineral occurrence or area. Notes on each mineral occurrence are based on the appropriate assessment reports and upon MINFILE (BC Geological Survey Branch 1991-2019).

Common to all the explored areas in the Georgie River watershed is a hiatus of data from exploration activity, beginning at the beginning of the Second World War and extending well into the second half of the last century. This may owe in part to the necessary reorganisation of the Ministry to prioritise production-based reporting, at the expense of exploration; in any case, the gap in data exists. The inception of the modern assessment reporting system in the late 1940s did not make incursion into the Georgie River area until the 1960s.

6.1.1. Georgia River Mine (Minfile 103O 013)

The Georgia River mine was a small, high grade past producing Au-Ag mine developed on three levels in the early 1900's. According to BC Minfile's Production Report (www.minfile.gov.bc.ca), a total of 454 t (500 T) were mined in 1937 and yielded 10,233 gm (329 oz.) Au, 12,752 gm (410 oz.) Ag and 3,312 kg (7,301 lb.) Pb at an average grade of 22.56 gm/t (0.658 oz./ton) Au, 28.11 gm/t (0.82 oz./ton) Ag and 0.73 % Pb. A small mill was constructed on site; however, it is thought that the mine shut down shortly thereafter, owing to difficulties processing the ore and the onset of WWII.

The table below is taken from Metcalfe, 2011. For a complete review of exploration at Georgia River from the turn of the 20th century to 2011, the reader is referenced thereto.

Table 2: Summary of exploration at the Georgia River Mine. (After Alldrick et al. 1996, Kruchkowski 2004)

YEAR	ACTIVITY
1911	Exploration pit to a depth of 2.44 m or 8' (feet) and a series of opencuts made on the vein; "good values" in gold and silver reported.
1912	Surface sampling and pit extended to a 5.18 m (17') deep test shaft.
1913	16.76 m drift along Bullion vein; surface samples returned erratic values of 6.9 to 127 gm/t Au.
1915	Bullion Vein drift advanced to 74.68 m; 10.67 m raise completed. Surface work on the Main Vein reported to be: 'very encouraging'.
1916	Bullion Vein drift advanced to 110 m (362'); 10.67 m (35') test winze on ore shoot.
1917	Bullion Vein drift advanced to 118.9 m (390'), raise breakthrough to surface. Bonanza ore assayed at 80.53 gm/t Au.
1918	Bullion Vein drift advanced to 125 m; cross-cut driven west for 10.67 m (35'); winze deepened to 12.8 m (42'), intersecting a quartz vein with "massive" pyrrhotite; returned values of 782 gm/t Au and 128.2 gm/t Ag.
1920	Location of Georgia, Georgia #1 and Georgia #2 Crown Granted mineral claims.
1922	Packhorse trail along Georgia River completed.
1923	Location of Gem and Gem #1 and Georgia #2 Crown Grants.
1924	Location of Goldfields, Goldfields #1, Goldfields #2, Goldfields #3, Sovereign, Sovereign #1 and Sovereign #2 Crown Grants.
1925	Georgia River Gold Mines incorporated; location of "June" group of Crown Grants.
1928	Wagon trail along Georgia River completed; camp construction; location of Sovereign Fraction, Danny Fraction and Gem Fraction Crown Granted mineral claims.

1929	Permanent camp completed; No.3 level advanced 158.50 m (520') towards SW Vein.
1931	Galloway (1932) described work to extend Bullion Adit (No.2 level towards Southwest Vein near its junction with the "main or Georgia vein" (<i>sic</i>); crosscut commenced in No. 3 Adit to explore possible extension of the " Georgia " vein east of workings.
1936	Construction of camp and mill site for a mill with 10 tonnes (11 short tons) per day capacity; no mining activity in this year.
1933	9 holes totalling 929.64 m; no grade encouragement. Erratic values from drifting to N and S of Southwest Vein.
1937	Installation of mill in spring; 454 t (500 short tons) of stockpiled material processed at grades of 22.56 gm/t Au, 28.11 gm/t Ag and 0.73%Pb.
1939-79	Hiatus
1979	6 BQ holes (342.91 m) test Southwest Vein near intersections with Main and Georgia veins.
1980	15 BQ holes (904.46 m) test Southwest and Georgia veins. 137 trenches completed. No. 2 Adit level sampled.
1981	14 BQ holes (1105.17 m) test Southwest. Main and Georgia veins. Inferred (non-43-101 compliant) reserves calculated from results.
1987	Bulk sampling of Southwest Vein at intersection with Georgia Vein, over a length of 30 m and widths of 1.2 to 2.4 m; small geochemical survey at confluence of Hume Creek and Georgie River.
1988	15 BQ holes (2628.77 m) test Southwest, Main and Georgia veins. Inferred (non-43-101 compliant) reserves recalculated.
1989	8 BQ holes (1528.40 m) in Southwest and Georgia veins. Inferred (non-43-101 compliant) reserves calculated for two ore shoots within Southwest Vein.
1990	15 BQ holes (1556.66 m) test 8 geophysical targets, 3 minor veins and mineralized shoots within Southwest Vein.
1995	19 NQ holes on 15 m centres totalling 1840 m defined drill-indicated blocks in the two high-grade shoots within Southwest Vein; geophysical and geochemical exploration to the west, along Colling Ridge.
1996	16 BTW holes testing a more southerly portion of the Southwest Vein referred to as Zone 2. In all, a strike length of 107 metres was drill tested with a total of 1,844 m.
2003	20 BTW holes, eight testing intersection of Summit and Main Veins and eleven testing intersection of Bullion and Southwest Veins with the Gem Vein.
2010	Detailed mapping of Colling Ridge and the Hume Creek Mylonite Zone; airborne magnetic and V-TEM survey.
2011	Minor fieldwork on the Hume Creek Mylonite Zone, southwest of the mine and discovery of the Gamebreaker showing on the eastern side of the property

In 2015, Auramex Resource Corp. commissioned the acquisition and processing of commercially available synthetic aperture radar (SAR) data for an area of interest covering the mineral tenures comprising the Auramex' Georgie River and adjacent Gamebreaker properties. This survey used three Sentinel 1 Synthetic Aperture Radar (3 tiles). In 2018, a finer resolution survey was commissioned using a stereo pair of RadarSat Extra Fine, 3.0 metre spatial resolution C-Band microwave-type Synthetic Aperture (SAR) data. As stated in Metcalfe and McLelland, 2018: "In both surveys, the objective was to generate processed images from the acquired radar data for the purpose of detecting structural discontinuities and, where possible, lithological boundaries within the property as an exploration tool for structurally hosted, intrusion-related gold (Au) deposits..."

The 2018 survey was extremely successful in identifying areas of profound structural discontinuity north of the existing property boundary. As a result, the ground was purchased from a 3rd party, subject to a 2% NSR. This acquired ground hosts the BC Verde and Glory Extension 2 showings and is considered highly prospective.

In April of 2017, certain core Crown granted mineral claims and electronic tenures covering the immediate area of the mine were optioned to a third party. During the next two years, no exploration work was performed by the optionee and in May 2019 the option was dropped.

6.1.2. Hume Creek Deformation Zone (Colling Ridge)

After Metcalfe and McLelland, 2018:

Published accounts of exploration of the Colling Ridge area since the Second World War are concentrated almost exclusively on the Georgia River Mine. The single exception to this was a program carried out by Bond Gold (Bray and Rainsford 1990), comprising geochemical sampling, geological mapping and a ground geophysical survey, the last comprising magnetic and horizontal loop electromagnetic surveys.

In 2006, a total of 13 geochemical samples were taken on ground enclosed by the present Georgie River property (Dunn 2006). No further ground exploration was undertaken until 2010.

In 2010, the first property-scale geological mapping on the Georgie River part of the property (Metcalfe 2011) located the southwest-dipping Hume Creek Mylonite Zone, of which the 10 m – wide Main Vein in the Georgia River Mine is a subordinate footwall structure. The mylonite zone is coincident with a 1 km² electromagnetic anomaly detected by an airborne survey carried out at the same time as the mapping (ibid.). Unconstrained inversion of these geophysical data indicated the presence of a blind conductive target, whose top edge is at a depth of 100 m beneath the surface of the ridge. The target is as yet untested by drilling. The ridge surface above the geophysical target exposes deformed Jurassic intrusions with strongly anomalous Au values (Metcalfe 2012).

6.1.3. Glory Extension 2, BC Verde

The Glory Extension mineral occurrence is one of a series including the Glory (103P 011), Glory Extension 2 (103O 006), B.C. Verde (103O 012) and Big Mike (103O 011), which compose a group of quartz sulphide vein occurrences peripheral to the Jurassic Bulldog Creek Pluton (see below). Discovery of the Glory showings was made in 1922 (Clothier 1923) and these occurrences were subsequently explored for low-grade, bulk tonnage potential (Clothier 1924, 1925), a radical concept at that time.

The first mention of the Glory Extension itself is by James (1928), who noted that an eponymous eight-claim group was owned by A. Linke. These tenures were subsequently transferred to the holder of the more northerly tenures, North Country Mining Company, of whom Linke was operations manager. Of the occurrences described by James, only the Glory Extension No. 8 lies explicitly on the present Auramex tenures although James notes that several minor showings lie near the base of slope. The mineralization is similar to that exposed to the north, with “appreciable” pyrite and rare sphalerite and galena. James (ibid.) was not encouraged by the grades encountered in the Glory Group, remarking that more surface work was needed. In 1928, he noted a narrow quartz vein striking a little west of north and dipping steeply east, exposed 50 m above the valley floor (James 1929). A 30 cm (1 foot) interval across the vein returned 89.1 gm/t (2.6 oz./T) Au and 85.7 gm/t (2.5 oz./T) Ag. James further reported that Linke claimed good gold returns from wall rock. Samples from other showings further up the hill were not encouraging. No other grades of significance were discovered in the remaining two years for which there are reports on the mineral occurrence and Mandy (1931) remarked: “Nothing of commercial importance is exposed in the twenty-four different showings and workings examined If exploration is continued, the operators are advised to prospect for showings that have some commercial potentialities... If these are found they should be stripped, open-cut, and test-pitted before embarking on the expense of long deep-level crosscut tunnels (sic)” No further work was carried out on these occurrences until, in 1981, mineral tenures were acquired covering the Glory Extension and showings peripheral to it. Some at least of the old adits were located and two programs of geochemical sampling were carried out on the ground (Cremonese 1982, 1983). No further work is recorded for this area. The junior author, in his 2010 property visit, did not find the adit despite welcome, detailed directions from Mr. Cremonese.

7. Geological Setting and Mineralization

7.1. Regional Geology

The property is located within the Intermontane Belt of the Canadian Cordillera on the western margin of the Stikine terrane (Stikinia). More specifically, it lies within an area extending north and northwest from a southern apex at the old mining camp of Anyox and which hosts more than 1,000 mineral occurrences of dominantly precious metal vein type, with related skarn, porphyry

and massive sulphide occurrences. The area encompasses metamorphic and plutonic rocks of the Coast Plutonic Complex on the west, is dominated by Stikinia and includes part of the western margin of the Bowser Basin (Evenchick 1991a, 1991b) to the east (Figure 3). Named the Stewart Complex by Grove (1986), this area has enjoyed decreasing complexity with time and research (e.g.: Alldrick 1993, Alldrick *et al.* 1996, Anderson *et al.* 2003).

Northwestern Stikinia is underlain by rocks of at least five Palaeozoic to Cenozoic tectonostratigraphic packages (Anderson *et al.* 2003). The three lower assemblages comprise multiple, overlapping Late Palaeozoic and Early Mesozoic arc assemblages, of which the Late Triassic Stuhini Group is the latest product. These assemblages form a base for the Jurassic arc and basinal assemblages. The Jurassic and older rocks are intruded by the Palaeogene post-kinematic granitoid intrusions of the Coast Plutonic Complex.

Metalliferous deposits discovered to date in northwestern Stikinia are associated mainly with Mesozoic arc assemblages and predominantly those of Jurassic age. Formation of the island arc assemblages and their associated mineralization occurred during four magmatic episodes, each from 5-10 Ma in duration and bracketed by Triassic-Jurassic, Early Jurassic, Middle Jurassic, and Cretaceous-Eocene deformations (Anderson *et al.* 2003). The magmatic episodes, together with examples of their derivative mineral deposits, are as follows:

1. Latest Triassic to earliest Jurassic (ca. 205-196 Ma) alkaline porphyry-related, deformed mesothermal Ag-Au veins (e.g.: Red Mountain);
2. Early Jurassic Texas Creek Plutonic Suite (ca. 196-187 Ma) alkaline porphyry-related epithermal, transitional and mesothermal Ag-Au veins and base and precious metal deposits (e.g.: Premier, Scottie Gold, East Gold, Georgia River, Kerr, Sulphurets, Mitchell, Iron Cap, Valley of Kings, SNIP, Stonehouse, Bronson Slope);
3. Latest Early Jurassic (ca. 185-183 Ma) small, poorly mineralized porphyry intrusions; and:
4. Middle Jurassic (ca. 175-172 Ma) calc-alkaline arc and tholeiitic back-arc magmatism and syn- and epigenetic, stratabound base and precious metal deposits (e.g.: Eskay Creek deposit) related to the back-arc basin formation.

Arc activity ended with deposition of the Middle and Upper Jurassic Bowser Lake Group sedimentary rocks. As noted above, the southwestern margin of Stikinia is bounded by the Palaeogene post-kinematic Coast Plutonic Complex.

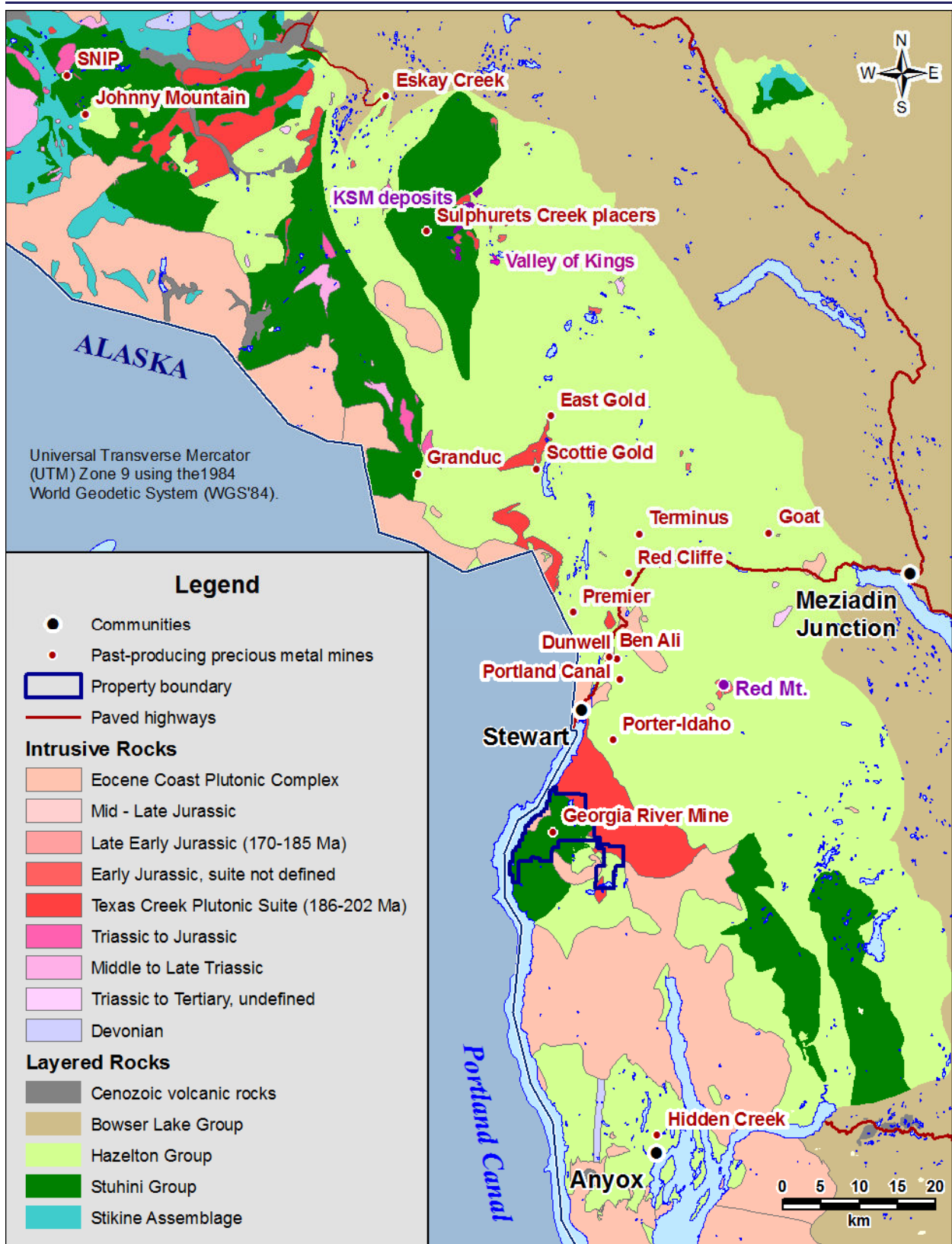


Figure 3: Generalised regional geology after Massey *et al.* (2005).

7.2. Property Geology

A geological map of the property area is shown in Figure 4. It incorporates the most recent, regional observations of Evenchick (1999) and Metcalfe (2011).

The following property geology is adapted from Metcalfe and McLelland, 2018:

The area was initially mapped by McConnell (1913); subsequent work (Grove 1986) identified the Mesozoic rocks underlying the property as part of a pendant in the Eocene Coast Plutonic Complex. The latest work (Evenchick *et al.* 1999, 2004) determined that the Early Jurassic (Texas Creek) isotopic age of the Bulldog Creek Stock, at the northern edge of the Georgie River property indicates that the area is not a pendant, rather it lies on the eastern margin of Stikinia. A geological map of the property area, adapted from Evenchick *et al.* (1999.) is shown in Figure 4.

Pyroxene-phyric volcanic and volcanogenic rocks on Colling Ridge are interpreted as part of the Late Triassic Stuhini Group (Metcalfe 2011). These supracrustal rocks are presented in northeast-vergent folds with steeply dipping to overturned northeast limbs. Layered rocks are penetratively foliated; foliation is defined by alignment of chlorite and is interpreted as an axial planar cleavage. Several structural domains mapped near the Georgia River Mine are separated by southwest dipping faults developed along this cleavage. Similar deformation in Lower Jurassic rocks is reported in the southeast of the property (Weekes 1994).

The supracrustal rocks are intruded by the Early Jurassic Bulldog Creek Stock and Colling Ridge Porphyry. Both contain textures distinctive of the Texas Creek Plutonic Suite, to which they were assigned by Evenchick *et al.* (2004) on the basis of their U-Pb isotopic ages (193.0 ± 0.3 Ma and 189.8 ± 0.3 Ma respectively). The Colling Ridge Porphyry intrusions postdate folding and, at the north and south ends of Colling Ridge, have irregular chilled margins against the supracrustal rocks. Both supracrustal rocks and Early Jurassic intrusions are metamorphosed to lower greenschist facies, with abundant development of chlorite after mafic minerals. Biotite occurs only locally, in hornfelsed rocks near intrusive contacts, except near the Georgia River Mine where it is more abundant. The biotite is interpreted to be of hydrothermal origin (Metcalfe *op. cit.*).

The Colling Ridge Porphyry also carries a southwest-dipping shear fabric parallel to the axial planar cleavage of the first deformation. Post-intrusion high-strain zones, parallel to the axial planar cleavage and characterised by this shear fabric, increase in abundance and width from the north and south ends of Colling Ridge towards its central part. At the centre of the ridge, 70 to 150 m southwest of the main Georgia River Mine portals, is the 750 m-wide Hume Creek Deformation Zone (previously termed Hume Creek Mylonite Zone), bounded by southwest dipping faults (*ibid.*).

The Hume Creek Deformation Zone contains chlorite blastomylonite after the supracrustal mafic volcanic and volcanosedimentary rocks; primary textures in these rocks are obliterated save for the coarsest clasts, which assume extreme aspect ratios. Bodies of Colling Ridge Porphyry are similarly deformed to felsic protomylonite (easily misidentified as coarse wacke on cursory

inspection) and are elongated along the shear fabric. Proclasts in the protomylonite are relic feldspar megacrysts, presented as winged inclusions indicating a dextral component of shear. The vertical component of shear, if any, is not known at the time of writing.

Hornblende+feldspar+quartz+biotite phyric dykes of the Eocene Hyder Plutonic Suite are locally abundant, unfoliated, largely unaltered and clearly post-kinematic. They generally strike southeast and dip steeply southwest, but also occur northeast-striking and subvertical.

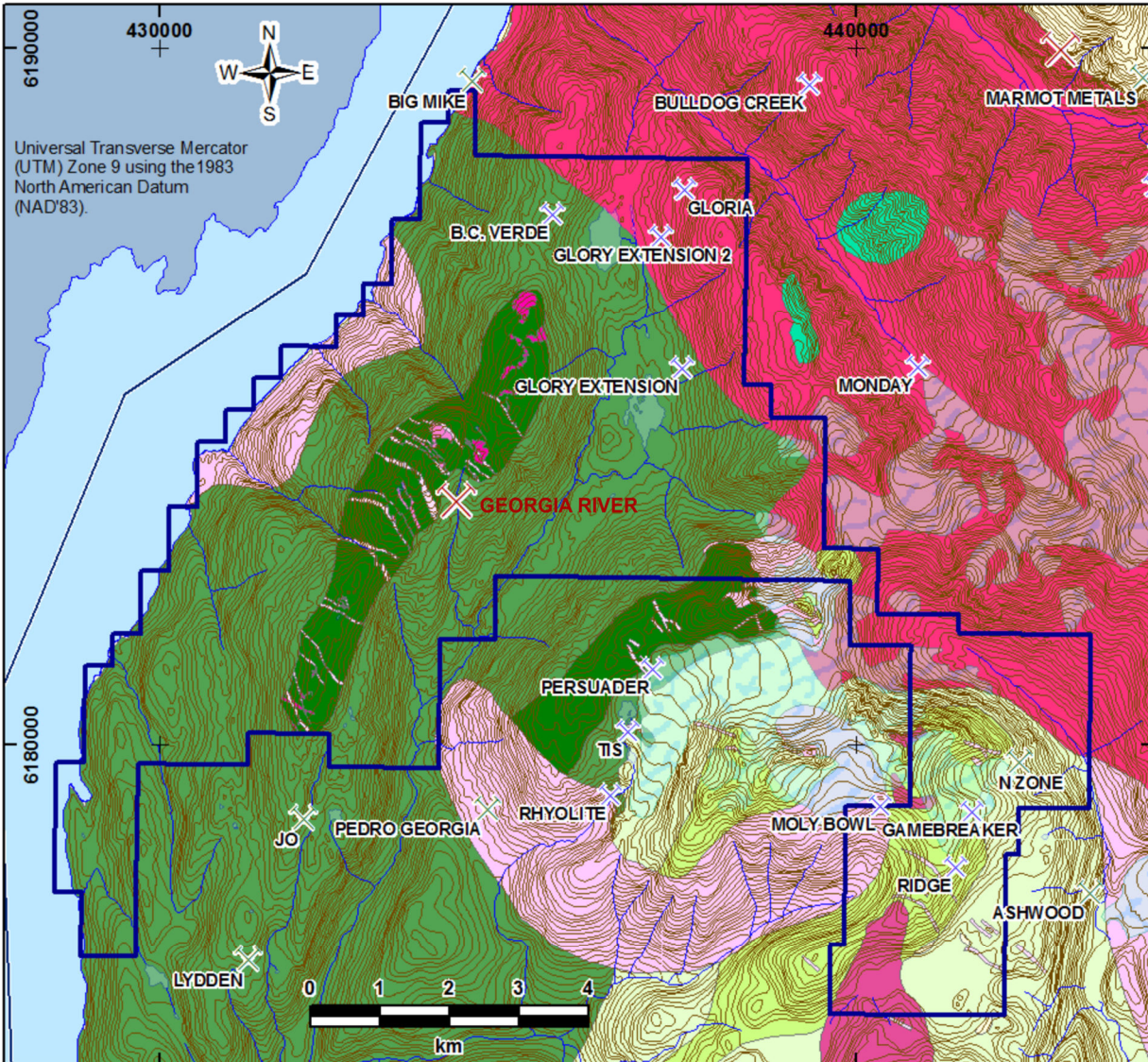


Figure 4. Geological map of the project, after Evenchick *et al.* (1999) and Metcalfe (2011).

7.3. Mineralization

Relevant to the 2018 field program are mineralization at the Hume Creek Deformation Zone (newly discovered in 2010 (Metcalf 2011)), the past producing Georgia River Mine and the BC Verde, Glory Extension 2 and Gloria showings to the north. The three last are located in the northern most portion of the property which was acquired by purchase in early 2018. The descriptions of mineralization at the Georgia River Mine and the Hume Creek Deformation Zone are excerpted from Metcalfe and McLelland, 2018; the reader is referred therein for a comprehensive description of the individual veins at the mine. Descriptions of the BC Verde, Glory Extension 2 and Gloria showings are available at BC Minfile (<http://minfile.gov.bc.ca/>), see table below.

7.3.1. Georgia River Mine

The 90 year-old adits at the Georgia River Mine are to the best of the author's knowledge, presently inaccessible. Consequently, description of the mine herein is heavily dependent upon previous accounts, most notably that of Kruchkowski (1981-2004). Kruchkowski, from previous records and through several years of detailed exploration in the field, identified eighteen veins in or near the Georgia River Mine, although one, the Camp Vein, was never identified in the field.

The veins fall into three types:

1. Shear zones striking roughly 140 and inclined to the southwest at roughly 60°; mineralization consists of white quartz (Schatten 1995) and siliceous breccia, typically with less than 5% disseminated, blebs and stringers of pyrite and pyrrhotite, with or without sphalerite and galena (Main, C.C. No.2, C.C. No.1, Georgia, Gem, Gem Top, Gem A and Pond veins);
2. Generally north-northeasterly striking quartz-filled fault fissures (herein interpreted as dilational fractures), mineralised with roughly 10% disseminated, blebby and stringer pyrite, pyrrhotite, sphalerite and galena, with or without minor chalcopyrite and arsenopyrite (Summit, Cobbett, Southwest, Bullion, East, Eastmark, East Bob and Camp veins) and:
3. Northeasterly to easterly striking, shallowly southeasterly or southerly dipping veins associated with granodiorite dykes and mineralized either with massive sphalerite and pyrite or with quartz-carbonate stringers and veins containing blebs and disseminations of pyrite and pyrrhotite, with or without sphalerite (Zinc and Granodiorite veins). Kruchkowski (1981) described the first phase of mineralization as early northwest faulting followed by later faulting in a northerly direction. Chlorite schists formed along these fault zones with subsequent introduction of quartz sulphide mineralization. The reader should note here that the chlorite associated with the faults cannot have formed during folding and regional greenschist metamorphism, because the faulting postdates intrusion of the Colling Ridge Porphyry. More probably, it is a retrograde alteration of the biotite

schists described in Schatten (1995) and of the metasomatic biotite observed by this author peripheral to the Colling Ridge Porphyry intrusions.

The quartz in the southwest dipping, shear-hosted veins is sparsely mineralized with pyrite, pyrrhotite, galena and sphalerite and with minor arsenopyrite. This is consistent with this author's observations of axial planar cleavage on Colling Ridge southwest of the Georgia River Mine, save that kinematic indicators in intermediate to felsic dykes of the Colling Ridge Porphyry carry a dextral shear fabric from a reactivation of this cleavage. Kruchkowski identified the second stage (or main mineralization stage) as beginning with the intrusion of granodiorite dykes and the formation of fractures, brecciation of the early quartz veins and stringers and deposition of polymetallic minerals. It is inferred herein that, by "granodiorite", Kruchkowski refers to the earlier, Colling Ridge Porphyry.

Kruchkowski inferred two separate mineralising events related to the second stage, the first of these emplacing quartz-poor, sphalerite-pyrite rich veins and stringers in sericite altered fracture zones near the intrusive(s), producing precious metal-poor veins. The second part of the event comprised brecciation, particularly near the intersection of north-trending and southwest dipping structures (again consistent with this author's observations at surface) and mineralization with quartz containing "seams" of massive pyrite, pyrrhotite, sphalerite and galena with minor chalcopyrite, rare arsenopyrite and very rare electrum. High-grade gold intersections generally contain 5-30% sulphides. Pyrite, and pyrrhotite compose as much as 50% of massive sulphide sections and sphalerite and galena generally compose equal parts of the remaining sulphides. Kruchkowski records the presence of mariposite and/or fuchsite in the chlorite schists, but there is no record of chemical analysis; vivid green chlorite, retrograde after hydrothermal biotite, has been observed elsewhere in the Golden Triangle. The final stage comprised post-mineralising fault movement along the vein system and deposition of quartz-calcite veinlets. This stage produced narrow drusy quartz-filled fractures within observed intrusive rocks. Calcite was the last gangue mineral to be deposited and is commonly found filling fractures in wall rock. The mine area presents the highest concentration of quartz, sulphide and precious metal mineralization discovered to date on the property. The mineralization is structurally controlled, related to the schistose fabric in both the country rocks and the Colling Ridge intrusions and appears, in most cases, to be controlled by the intersection of southwest-dipping shear zones with northerly-trending, subvertical, dilational fissures. The structural grain of the area suggests that both types of structural feature may be more common than hitherto observed and that the prioritisation of drilling the Southwest Vein may have occluded other targets in the immediate vicinity.

7.3.2. Hume Creek Deformation Zone

2010 mapping and interpretation inferred a southwest-dipping fault between 70 and 150 m southwest of all the main Georgia River Mine portals (Metcalf 2011). To the northeast of this fault are mafic volcanic, volcanoclastic and volcanogenic sedimentary rocks with localised high

strain zones such as that hosting the Main Vein. Southwest of this fault is a high-strain zone extending across structural strike for roughly 800 m; even assuming a foliation-parallel dip of 50°, the zone exceeds 500 m in true thickness. All lithologies except the Tertiary dykes exhibit a sharp increase in strength and pervasiveness of deformation within the zone. Partially mylonitised intrusions of Colling Ridge Porphyry hosted by the southwesterly-dipping Hume Creek Deformation Zone are weakly mineralized with pyrite. These mineralized dykes are strongly anomalous in gold and arsenic. The auriferous Colling Ridge Porphyry is therefore a strong candidate for the source of the gold in the Georgia River Mine. The Georgia River deposit lies in the footwall of the 500 m thick Hume Creek Deformation Zone. The closest structure to the Hume Creek Zone is the 10 m-thick Main Vein; shear zones further away from the Hume Creek Zone (*e.g.*: the Georgia Vein to the northeast) are no more than 1 m thick. The shear zones are therefore present on a macroscopic to mesoscopic scale; it is reasonable to infer the presence of similarly mineralized microshears. It is therefore possible, probable even, that the paucity of sampling of drill holes to date has omitted small but significant intersections which might otherwise contribute to the economic viability of the deposit. This must be considered in any future exploration.

Table 3. Mineral occurrences in the assessment area.

MINFILE	Name	Development	C1	C2	C3	C4	C5
103O 012	BC VERDE	Showing	Cu	Ag	Au	Zn	
103O 013	GEORGIA RIVER MINE, GEORGIA NO.1, GEORGIA NO.2, GUGGENHEIM	Past Producer	Au	Ag	Pb	Zn	Cu
103P 011	GLORIA, CARDOZO, WOOD 5	Showing	Pb	Zn	Cu		
103O 006	GLORY EXTENSION 2	Showing	Zn	Pb			

8. 2018 Exploration

8.1. Introduction

Auramex, under new management in 2018, began the assessment of its large land holdings in the Stewart camp with a reconnaissance sampling and mapping program. A field program was started on 24th July and ended on 17th October. This report covers work for the portion of the field program covering Auramex' Georgie River project, located south of Stewart along the Portland Canal. In 2017, certain core tenures of the past producing Georgie River mine (Au-Ag) were optioned to a third party¹. As a result, the reconnaissance program, reported on herein, excluded those optioned tenures. The entire project covers nearly 8,000 ha of mineral mineral tenures and the purpose of the work, in large part, served to familiarize the technical personnel with certain aspects of the project area and to serve as a brief "first pass" assessment.

8.2. Fieldwork

Auramex personnel conducted a reconnaissance scale mapping and sampling program in three distinct locations on the Georgie River tenures (see Figure 2); the 5 person field crew was based at a field house in Stewart and set-outs to the Georgie River project area were accomplished using an AStar 350B2 helicopter.

A total of 318 man-days were spent on the entire summer's field program. The component subject to this report totalled 46 man-days including mobilization and demobilization.

The program reported herein comprised reconnaissance geological mapping and geochemical sampling, including 50 rock, 1 moss, 1 soil and 4 silt samples.

8.2.1. Mapping

Property scale mapping (1:2,500 and 1:4,000) was performed by trained geologists making direct outcrop observations and taking field measurements. Handheld Garmin® Geographic Positioning Systems (GPS) were used for waypoint and sample location determination. Field observations were either recorded in a waterproof notebook or directly into an above mentioned GPS. Initial data collation was performed during the field program with compilation performed subsequently. Software used to collate, compile and present data and interpretations included: MS Excel, MS Word, MS Access Database, Corel Draw X and ESRI ArcGIS desktop versions 9.2 and 9.3. All data and maps produced were projected in Universal Transverse Mercator (UTM), using the 1983 North American Datum (NAD '83), zone 9N.

The 2018 field mapping at Georgie River was conducted in three (3) areas and is reported in Maps 1 to 3, located in pocket.

¹ Subsequently, the optioned tenures have been returned to Auramex.

8.2.2. Rock sampling

Rock samples are predominantly grab samples with a few float samples. Grab samples were taken preferably from outcrop, or where unavailable, from subcrop. A representative hand sample was preserved for hand description and where appropriate, for further thin section cutting. The remainder was submitted to the lab for analysis. During sampling, the rock sample was placed in a poly ore sample bag along with a unique alphanumeric sample tag and closed with a zap strap. The sample numbers were recorded in the geologist's field notebook. Location data was obtained using handheld Garmin[®] global positioning systems. Rock sample locations are plotted on Maps 1 to 3, located in pocket.

8.2.3. Stream sediment (silt) and moss mat sampling

Stream bed sites were targeted for silt samples, where made possible by available material. Samples of silt (labelled "T") were taken preferentially from back eddy (quiet) portions of the stream and placed into a kraft sample bag; the moss mat ("M") was collected from rocks situated within and adjacent to the stream channel. Sample numbers were recorded in the geologist's field notebook and location data for each sample site was obtained using handheld Garmin[®] global positioning systems. Sediment sample locations are plotted on Maps 1 to 3, located in pocket.

8.2.4. Soil sampling

One soil sample was taken: KD18-211S from tenure 1056626. Approximately 500 grams of fines were collected in a kraft bag with the sample number marked on the bag. Location data for the sample site was obtained using a handheld Garmin[®] global positioning system.

8.3. Sample shipping

Rock samples were sent to ActLabs Ltd. in Kamloops, British Columbia via Bandstra Trucking; the sediment samples were shipped during demobilization and delivered in person to Act Lab's Kamloops facility.

8.3.1. Analytical procedures

All rock samples (sample no. suffix "R") were prepared according to package RX1 (crush, 250g split and pulverize to 95% passing 105µm sieve). Sediment samples, including silt, moss mat, panned concentrates, and the two soil samples (sample no. suffix "T" and "M", and "S" respectively) were prepared according to package S1DS (Drying (60°C) and sieving (-177 µm)).

The analytical package employed was Ultratrace 3: aliquots were subjected to 4-acid digestion and analyzed by one or more of ICP-OES, ICP-MS and INAA (Instrumental Neutron Activation Analysis) to provide a comprehensive suite of element analysis with high precision and accuracy.

The following analytical details were obtained from the ActLabs website (<https://actlabs.com/geochemistry/exploration-geochemistry/multi-method-analysis/>):

INAA Portion

A 30 g aliquot is encapsulated in a polyethylene vial and irradiated with flux wires and an internal standard (1 for 11 samples) at a thermal neutron flux of 7×10^{12} ncm⁻²s⁻¹. After a 7-day period, to allow Na-24 to decay, the samples are counted on a high purity Ge detector with resolution of better than 1.7 KeV for the 1332 KeV Co-60 photopeak. Using the flux wires, the decay-corrected activities are compared to a calibration developed from multiple certified international reference materials. The standard present is only a check on accuracy and is not used for calibration purposes. From 10-30% of the samples are rechecked by re-measurement. For values exceeding the upper limits, assays are recommended.

One standard is run for every 11 samples. One blank is analyzed per work order. Duplicates are analyzed when samples are provided.

4-Acid "Near Total" Digestion - ICP Portion

A 0.25 g sample is digested with four acids beginning with hydrofluoric, followed by a mixture of nitric and perchloric acids, heated using precise programmer-controlled heating in several ramping and holding cycles which takes the samples to incipient dryness. After incipient dryness is attained, samples are brought back into solution using aqua regia.

With this digestion, certain phases may be only partially solubilized. These phases include zircon, monazite, sphene, gahnite, chromite, cassiterite, rutile and barite. Ag greater than 100 ppm and Pb greater than 5000 ppm should be assayed as high levels may not be solubilized. Only sulphide sulfur will be solubilized.

The samples are then analyzed using a Varian ICP. QC for the digestion is 14% for each batch, 5 method reagent blanks, 10 in-house controls, 10 samples duplicates, and 8 certified reference materials. An additional 13% QC is performed as part of the instrumental analysis to ensure quality in the areas of instrumental drift.

4-Acid "Near Total" Digestion – ICP/MS Portion

Additional elements are determined by ICP/MS on the multi-acid digest solution above. The samples are diluted and analyzed on a Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS. One blank is run for every 40 samples. In-house control is run every 20 samples. Digested standards are run every 80 samples. After every 15 samples, a digestion duplicate is analyzed. Instrument is recalibrated every 80 samples.

The program consisted of reconnaissance sampling, therefore no field duplicates, standards or blanks were inserted in the field. ActLabs conducted its own quality control-quality assurance (QA-QC) during the analytical run and details are included within the official analytical results (Appendix IV).

8.4. Analytical Results

The Certificates of Analysis are attached as Appendix IV. Rock and sediment samples are plotted with their corresponding Au values on Maps 1 to 3, located in pocket.

9. Conclusions

The 2018 field activities were directed towards three specific areas of the Georgie River property, with different objectives in each area. The limited amount of time that could be budgeted in that area returned results out of all proportion to the expenditure of resources in all three areas.

Map 1: Exdale

In the most northerly area five man-days, directed into two traverses, confirmed the general location of the previously mapped (at regional scale) contact between the Early Jurassic Bulldog Creek Stock (Evenchick *et al.* 2004) and the supracrustal volcanosedimentary sequence inferred to be Triassic Stuhini Group (Metcalf 2011). Near this contact, the intrusion contains as much as 10% primary quartz; this proportion decreases to trace amounts at remove from this contact. The Bulldog Creek Stock is therefore a polyphase intrusion, which has important implications for its history of emplacement.

The single closure date of 193 ± 0.3 Ma obtained by Evenchick *et al.* (*op. cit.*) for the Bulldog Creek intrusion is significantly older than the two statistically identical ages of 189.8 ± 0.3 Ma and 189.7 ± 0.3 Ma obtained, respectively, for the Colling Ridge Porphyry at the Georgia River Mine and for the Outram Lake Porphyry in the southeast of the Georgie River property. However, within the limited sample set allowed for by a federal budget, these three intrusions are nearly identical in trace element composition. If the bulldog Creek intrusion is polyphase, with an implied longevity of magmatism (at least 2.7 Ma), the probable longevity of hydrothermal activity and the commensurate mineral potential of the entire property are thereby greatly increased.

Evidence of the mineral potential of the Exdale area is provided both by the encouraging results from the BC Verde mineral occurrence and the rediscovery of the Gloria adit. The latter occurrence lies within the Bulldog Creek Intrusion on the east side of the Georgie Lake. Anecdotal information suggests the adit is in excess of 60 m, on several headings. Although there was no encouragement from samples taken at the portal, follow-up should be carried out.

Better results were encountered at BC Verde where four out of the seven samples taken returned values in excess of a quarter of a gram of gold per metric ton. These values were matched by analogous anomalies in silver and copper. A preliminary assessment, using data from Metcalf and McClelland (2018) indicates that the samples were taken from significant structural intersections, visible through the overburden using synthetic aperture radar.

Map 2: Hume Creek Deformation Zone-Georgia River Mine

Between the completion of the 2018 work program and completion of the statement of work for that program, a significant event occurred, which description will be added to these conclusions because it affects the recommendations enumerated below. This event was the termination of an option agreement to a third party on the mineral tenures enclosing the area of the Georgia River Mine. The 2018 work program had been directed to some of the high grade vein mineralization on tenures surrounding the mine and to the low-grade conductivity anomaly on Colling Ridge, west of the mine and centred on a 750 m wide deformation zone known as the Hume Creek Zone.

Mapping of the Hume Creek Zone showed that the zone is not exclusively a high-strain zone, nor is it deemed to be a true mylonite (Theny pers. comm. 2018). Rather it comprises a large volume of phyllitic schist of a distinctive dusty bluish-grey colour, containing sericite and either chlorite

or biotite. The protolith for these metamorphic rocks is a sequence of fine-grained, often carbonaceous clastic sedimentary rocks, commonly thinly bedded. The lithologies exposed in this sequence are in sharp contrast to the coarse-grained mafic volcanic rocks and volcanic-derived sedimentary breccias and conglomerates common to most of Colling Ridge (*opera citata*). It is possible that strain release in the area has been channeled through these less competent rocks, in the Hume Creek Zone and (possibly) in the Mine area.

Sampling of the above areas returned results which confirmed those from the single previous study (Bray and Rainsford 1990). The area previously covered by the Sovereign and June Crown Granted mineral claims contains numerous small mineral occurrences within the confines of the 1990 grid. Digital reconstruction of the location of this grid had been carried out prior to the field season using previously recorded locations of the old claim posts and the old survey data for the Crown Grants. These activities enabled rediscovery and resampling of some of the old showings. Moreover, inversion of the 2010 geophysical data (Pezzot and Metcalfe 2015) and identified a blind target within the Hume Creek Zone, whose projection to surface coincided with a topographic break and a 590 m-long trace from which it comes samples in excess of 1 gm/t. 2018 sampling confirmed the existence of this zone. Its existence had been masked by the presence of graphite in fine-grained clastic sedimentary rocks which occur in abundance disproportionate to that elsewhere on Colling Ridge.

Pursuant to development of the recommendations below, an ancillary program during fieldwork comprised location of any of the 1990 grid pickets still *in situ*. There are a surprising number of these, which will facilitate integration of the 1990 data into a comprehensive database.

Map 3: Anomaly 2

The southernmost area investigated is covered by Anomaly 2, one of two electromagnetic anomalies identified from a 2010 airborne geophysical survey of the project (Metcalfe, 2011, Pezzot and Metcalfe, 2014). The 2018 work was sufficient to determine that the area is underlain by supracrustal rocks tentatively correlated with the Stuhini Group volcanosedimentary rocks underlying the remainder of this western half of the Georgie River property. Field examination encountered an area of quartz + sericite ± pyrite alteration whose extent could not be determined in the time available. No encouragement was received from the limited number of geochemical samples that were taken, but the sampling was far from comprehensive and further work is warranted.

Notwithstanding the success of the 2018 fieldwork, it was apparent even then that a remarkable amount of mapping and sampling remains to be done both at Hume Creek and in the Mine area. With the return of the tenures enclosing the mine itself, this prospective work has increased tenfold.

10. Recommendations

1. Completion of the location of previous survey posts the Crown granted mineral claims;
2. From (1) and from the locations of pickets in 2018, reestablishment of the 1990 grid over the Hume Creek Zone and Mine areas;
3. Location of all previous diamond drill holes on Colling Ridge, with relation to the surveyed claim posts of the Crown Granted mineral claims;
4. Reestablishment of the 1995-1996 Aquaterre grid from the known drill hole locations;
5. Digitization of the Bond Gold geophysical data and reintegration with its grid location;
6. Integration of the SJ geophysical data (I P) using the Aquaterre grid;
7. Recovery of some or all of 11,750 m of diamond drill core acquired during previous programs and still stored on site;
8. Relogging and resampling of the recovered core;
9. Detailed alteration studies on the recovered core, including without limitation multispectral infrared reflectance and x-ray fluorescence spectrometry and:
10. Assembly and maintenance of a comprehensive geoscience database for the property and its use for targeting diamond drilling.

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12. Statement of Costs

Table 4. Statement of Costs

1. Labour: July 24 to October 17, 2018 (46 man days)	Rate	Unit	Multiplier	Total
Fieldwork, inc. mob, demob and support				
Chief Geologist	\$850.00	per diem	3.50	\$2,975.00
Party Chief	\$850.00	per diem	10.25	\$8,712.50
Senior Geologist	\$650.00	per diem	10.00	\$6,500.00
Geologist	\$500.00	per diem	10.00	\$5,000.00
Junior Geologist	\$300.00	per diem	6.25	\$1,875.00
Report Writing				
Geologist	\$850.00	per diem	3	\$2,550.00
Geologist	400		1	400.00
2. Transportation and related				
Helicopter ASTAR AS350 B2/B3E	\$1750 + \$330 fuel	per hour	2.7	\$5,616.00
Truck rental: 4x4 F-150	\$525/wk + \$16/day insurance + taxes			\$1,236.41
Truck rental: Jeep FJ	\$60/day + \$.50/km			\$176.30
Vehicle fuel, lubricants and related				\$236.54
Sample Shipping - Bandstra				\$150.92
Travel: mob/demob - Flights, motel etc.				\$1,521.28
3. Field Supplies				
Field supplies: durable and consumable				\$756.84
4. Accommodations and Comestibles				
House Rental				\$904.11
Internet				\$71.79
Food				\$801.47
5. Communications				
Satellite phone SIM				\$54.68
Walkie Talkie Rentals (5)				\$105.78
Spot unit rentals (4)				\$30.14
6. Analyses				
Act Labs: Prep for rock samples (RX1-T)	\$11.50	per sample	50	\$575.00
Act Labs: Prep for sediment samples (S1DS)	\$3.75	per sample	6	\$22.50
Analyses: Ultratrace (UT-3)	\$51.25	per sample	56	\$2,870.00
Total Georgie River Program				\$43,142.26

13. Statements of Qualifications

Statement of Qualifications

I, **Brenda Marie Brannstrom**, hereby certify that:

1. I am a resident of British Columbia with a business address at P.O. Box 289, Gabriola, B.C. V0R 1X0;
2. I graduated from Simon Fraser University in the year 2000 with the degree of B.Sc. (Hons.) from the Department of Earth Sciences;
3. I have worked as an exploration geologist primarily in the North American Cordillera;
4. The majority of my field experience includes work in western Alaska, British Columbia and northern Mexico.

DATED at Gabriola Island, British Columbia, Canada this 13th day of January, 2020.

“B. Marie Brannstrom”

Statement of Qualifications

I, **Paul Metcalfe**, do hereby certify that:

1. I am a resident of British Columbia and the Principal of Palatine Geological Ltd., with a business address at P.O. Box 289, Gabriola, B.C. V0R 1X0;
2. I am a graduate of the University of Durham (B.Sc. Hons. *Dunelm.* 1977), a graduate of the University of Manitoba (M.Sc. 1981) and a graduate of the University of Alberta (Ph.D. 1987);
3. I am a member, in good standing, of the Association of Professional Engineers and Geoscientists of the Province of British Columbia;
4. I have worked as a geologist for more than 40 years since my graduation from the University of Durham, including employment as a postdoctoral research fellow by the Mineral Deposits Research Unit at the University of British Columbia and at the Geological Survey of Canada;
5. My experience since graduation from Durham has been mainly within the western Cordillera of North, Central and South America and has given me considerable knowledge of Cordilleran geology, and of geological and geochemical exploration techniques;
6. I have several years' experience working in northwestern Stikinia;
7. The work in this report has been carried out in accordance with generally accepted scientific principles and is based upon the best information available at the time of preparation.

DATED at Gabriola Island, British Columbia, Canada this 13th day of January, 2020.

“P. Metcalfe”

Dr. Paul Metcalfe P.Geol.

Appendix I: Rock sample locations

Table 5. Rock sample locations

Sample No	Property	East (m) NAD'83	North (m) NAD'83	Elevation (m)
AB18-083R	Georgie River	433,594.6	6,183,684.2	1,297.5
AB18-084R	Georgie River	433,532.7	6,183,674.3	1,284.3
AB18-085R	Georgie River	433,520.9	6,183,684.0	1,279.8
AB18-090R	Georgie River	433,767.3	6,183,590.0	1,260.1
AB18-091R	Georgie River	433,701.8	6,183,497.6	1,250.6
AB18-094RA	Georgie River	433,462.5	6,183,318.2	1,259.6
AB18-094RB	Georgie River	433,462.5	6,183,318.2	1,259.6
AB18-102R	Georgie River	432,445.3	6,180,729.3	1,104.3
AB18-128RA	Georgie River	437,326.0	6,188,114.1	964.7
AB18-128RB	Georgie River	437,326.0	6,188,114.1	964.7
AW18-267R	Georgie River	433,894.5	6,184,338.4	1,336.9
AW18-274R	Georgie River	433,673.7	6,183,786.1	1,322.0
AW18-276R	Georgie River	433,632.1	6,183,675.3	1,292.9
AW18-280R	Georgie River	434,458.6	6,184,351.4	1,224.7
AW18-281R	Georgie River	434,441.2	6,184,367.2	1,231.5
AW18-282R	Georgie River	434,451.4	6,184,364.3	1,230.2
AW18-287R	Georgie River	434,476.2	6,184,136.0	1,219.6
AW18-289R	Georgie River	434,222.7	6,184,236.5	1,277.2
AW18-295R	Georgie River	434,053.6	6,184,539.0	1,322.3
AW18-300R	Georgie River	432,110.9	6,180,111.2	1,037.3
AW18-308R	Georgie River	432,436.5	6,180,441.9	1,053.1
KD18-166R	Georgie River	433,916.0	6,184,339.0	1,353.0
KD18-167R	Georgie River	433,898.1	6,184,349.6	1,347.3
KD18-170R	Georgie River	433,706.7	6,183,964.1	1,333.9
KD18-172R	Georgie River	433,600.9	6,183,605.3	1,281.1
KD18-176R	Georgie River	434,115.6	6,183,882.6	1,233.0
KD18-177R	Georgie River	434,178.3	6,183,962.3	1,236.3
KD18-181R	Georgie River	434,203.9	6,184,250.5	1,300.7
KD18-182R	Georgie River	434,244.8	6,184,245.2	1,289.5
KD18-185R	Georgie River	434,224.0	6,184,359.6	1,329.9
KD18-196AR	Georgie River	432,441.7	6,180,457.5	1,064.7
KD18-196BR	Georgie River	432,441.7	6,180,457.5	1,064.7
KD18-196CR	Georgie River	432,441.7	6,180,457.5	1,064.7
KD18-211R	Georgie River	437,354.4	6,188,112.6	922.3
LT18-209R	Georgie River	433,644.4	6,183,787.4	1,325.3
LT18-210R	Georgie River	433,578.3	6,183,784.4	1,314.3
LT18-211R	Georgie River	433,528.3	6,183,731.3	1,285.2
LT18-212AR	Georgie River	434,271.0	6,184,041.4	1,205.8
LT18-212BR	Georgie River	434,271.0	6,184,041.4	1,205.8

LT18-217R	Georgie River	434,152.6	6,183,922.7	1,241.2
LT18-224R	Georgie River	434,127.8	6,184,084.6	1,298.1
LT18-233R	Georgie River	434,135.9	6,184,346.9	1,337.3
LT18-283R	Georgie River	435,538.6	6,187,599.0	999.2
LT18-284R	Georgie River	435,523.1	6,187,609.9	996.3
LT18-285R	Georgie River	435,524.4	6,187,623.1	991.4
LT18-287R	Georgie River	435,515.9	6,187,626.1	986.1
LT18-290R	Georgie River	435,524.6	6,187,698.9	981.4
LT18-292R	Georgie River	435,552.4	6,187,702.1	982.2
LT18-293R	Georgie River	435,575.3	6,187,638.2	979.2
PM18-090R	Georgie River	433,606.7	6,183,569.7	1,273.2
PM18-091R	Georgie River	434,248.8	6,183,968.0	1,210.8

Appendix II: Rock sample descriptions

Table 6. Rock sample descriptions

Sample No	Description	Sample Type	Description
AB18-083R	AB18-083R	grab	Chl rich qtz-brx zone within foliated host rock. Weathering: red/brown/green. Fresh: 60% dark green chl rich "clasts" in a light green and orange "matrix" occurring with white to orange quartz. Zone is ~30cm wide and extends ~1.75m. Vein at 042/46. AB18083R taken. Photo AB18083 looking 045.
AB18-084R	AB18-084R	grab	O/C 100x50cm (possibly subcrop). Weathering to orange/red/purple. Fresh: light grey with light green "smears" on some faces (sericite? Scorodite?) and massive arsenopyrite mixed with white quartz. Asp>qtz. Around asp zones there are rusty vugs with <4mm euhedral crystals stained with Fe. 10% yellow massive sx occurring in <7mm seen locally. Adjacent to the foliated unit. Sample AB18084R. Photo AB18084 looking 170.
AB18-085R	AB18-085R	grab	Quartz vein. Likely continuation from AB18084. ~4cm wide white quartz with orange staining and up to 10% black metallic non-magnetic mineral (looks darker than asp). Host rock is dark grey. Mostly vein material. Photo AB18085 looking 300. Vein follows foliation at strike dip 109/50.
AB18-090R	AB18-090R	grab	Blast site proximal to historical 2.4g Au sample. Photo AB18090 looking 048: foliation appears to be cross-cut by a rusty qtz-brx zone. The ~30cm quartz rich brx/vein zone has a strike/dip of 009/65 (average of 2 readings), possibly following a structure. AB18090R was taken from this brx/vein zone: rusty except clots of arsenopyrite and a pale green material (scorodite?) and bits of white quartz.
AB18-091R	AB18-091R	grab	~15-25cm wide qtz vein within crenulated foliated rock. Host rock has a fresh surface is dark grey and fine grained with a distinct sheen on foliation surfaces and a brown weathering. Sericite on vein margins. Vein smells like arsenopyrite and may contain up to 20% locally. The vein contains <10% <1cm vugs with <4x2mm euhedral qtz xtals. AB18091R is vein material. Photo AB18091 looking 080 is of sample location.
AB18-094RA	AB18-094RA	grab	A large North trending structure cutting a foliated unit and a small dyke <40cm wide in foliated unit. AB18094A taken from top of O/C is a ~5x5cm bull qtz vein running through the foliated unit. AB18094RB taken from vein margins: rusting, green, hard to break, contains rusty vugs. Photo AB18094 looking 285.

AB18-094RB	AB18-094RB	grab	Large North trending structure cutting a foliated unit and a small dyke <40cm wide in foliated unit. AB18094A taken from top of O/C is a ~5x5cm bull qtz vein running through the foliated unit. AB18094RB taken from the vein margins, is rusting, green, hard to break and contains rusty vugs. PhotoAB18094 looking 285.
AB18-102R	AB18-102R	grab	Rusty weathering in argillite host rock. Host rock difficult to distinguish in weathered zone, within 3m there is obvious argillite o/c.
AB18-128RA	AB18-128RA	grab	From inside adit. Gouge material taken from side wall halfway through adit. Gouge med-grey green silt to sand sized grains with <3% pebbles.
AB18-128RB	AB18-128RB	grab	From inside adit. Grab of rocks taken from the end of the adit. Mix of qtz vein material, host rock and a dark grey magnetic fine grained rock. The qtz vein is <4cm wide, white and has chl on the margins. Host rock is a feldspathic intrusive with mafics altering to chl and <2% diss py, specific samples with chl slicks and qtz vein material were selected.
AW18-267R	AW18-267R	grab	Silicified and chloritic volcanic with blebby sulphide including pyrite pyrrhotite sphalerite and possible chalcopyrite
AW18-274R	AW18-274R	grab	Gossanous hornfels
AW18-276R	AW18-276R	float	Float sample arsenopyrite in quartz breccia
AW18-280R	AW18-280R	grab	Small pit on SW vein extreme gossan some smithsonite staining sample is of high grade semi massive euhedral and subhedral galena and pyrite immediately east of vein is dark grey weakly laminated siltstone green epiclastics with disseminated pyrite in hanging wall
AW18-281R	AW18-281R	grab	Quartz veining and silicification chlorite and sericite alteration in blebs euhedral quartz and sulphide in vugs occasion blebs of pyrite
AW18-282R	AW18-282R	grab	Veining and silicification with minimal sulphide
AW18-287R	AW18-287R	grab	Pond silicification zone QSP and quartz veining enveloped by maroon hornfelsing with disseminated pyrrhotite
AW18-289R	AW18-289R	grab	Gossanous hornfelsing and silicification with 5 to 10% disseminated pyrite
AW18-295R	AW18-295R	grab	Sample of silicification and quartz veining in volcanics 5% fine grained pyrite and possible black jack sphalerite track follows vein which is sub parallel to foliation and bedding
AW18-300R	AW18-300R	grab	Outcrop siltstone dark grey track follows lineament that looks like it is offset, some hornfelsing with up to 3% euhedral pyrite along fractures and blebs. Sample is of hornfels.

AW18-308R	AW18-308R	grab	Intense QSP zone along margin of quartz eye aplite dyke.
KD18-166R	KD18-166R	grab	2mm-4cm planar qtz veins with extension veins between them. Intruding felsic crystal tuff. Euhedral to subhedral 1-2mm sized felds with 3-7mm hbl laths replaced with chl and weakly bio alt'd. Shows preferred crystal orientation. 30-40% felds, 3-5% hbl. Weak epi, <1%. Hbl blebs to laths.
KD18-167R	KD18-167R	grab	Vuggy qtz veins with weathered subhedral qtz. Pink stained? About the colour of k-spar. Small vitreous yellow green sphal? <1%. Also more greenish crystals - possible sphal? Veins in material as described at previous location. Extension veins. Vein truncated by fracture/joint. 5-7cm wide with open space. Veins are sheeted, 1-10cm wide. All veins have angular blebs of chl.
KD18-170R	KD18-170R	grab	Foliation in gently undulating thinly bedded light grey weathered, strongly foliated, dark grey on fresh surface with carbonate silt to mudstone. 10m south, contact with seds and epiclastic unit - Lapilli tuff? 5-7cm elongated clasts in 3m wide unit wide. Very few matrix supported clasts with chl replaced hbl and felds visible in matrix. Foliation parallel to contacts, southern contact with Feox alt'd scree adjacent to Hyder dyke. Rusty zone with ser about 20m wide before dyke.
KD18-172R	KD18-172R	float	Qtz vein in float. Very Mnox and Feox on fracture surfaces. Blebs of qtz with sulphide - pyr and aspy? Euhedral qtz, 1-10mm. Chl alteration on envelopes. Box work alteration.
KD18-176R	KD18-176R	grab	Qtz veins intruding contact between dun colored (weathered) bedded sandstone volcanic material. Locally silicified, light green on fresh surface with bands of chl and hem? Staining parallel to bedding on N side of veins, vfg. S side of veins, foliated med grained with pervasive hem alteration, 1-2% dis pyr, qtz eyes in purple volcanic. Subhedral pink felds, likely hem stained. White/light grey on weathered surfaces - hornfels. Qtz veins are 1-45cm wide, vuggy with euhedral to subhedral to massive qtz. Qtz veins are roughly parallel to foliation. Massive weakly boudinaged rusty qtz vein. Vuggy with chl. Qtz veins intruding into sheared and strained intrusive rock.
KD18-177R	KD18-177R	grab	Georgia Vein: Blast pit along qtz vein(s). Hosted in foliated rock, phyllite? Vein may be following foliation.

KD18-181R	KD18-181R	grab	3-4m wide ox qtz vein. Massive with pyr and arsenopyrite. Bands of country rock in with veins - veins parallel to foliation? Polymetallic qtz vein with pyr, sphalerite, galena. MnOx and FeOx on fract surfaces.
KD18-182R	KD18-182R	grab	2nd vein in contact with chl rick phyllite - arkose away from contact. Looks like trench style sampling has occurred here or the stakes are for surveying in the vein. Oxidized and MnOx on vein surfaces. Pyr, sphal and arsenopyrite in vein.
KD18-185R	KD18-185R	grab	Blasted out qtz vein, 2-3m wide trending 350. Sampled but needs better description. Vein possibly at contact of intrusive to the north and arkose to the south. FeOx on fracture surfaces. Box work weathering. Massive white qtz vein, heavy - barite? Trace sulphides - pyr. Sampled from centre of the vein.
KD18-196AR	KD18-196AR	grab	3m high bench on 25m high cliff - LT18-244. Strong ox on fracture surface - strong joint pattern. Clastic breccia rock with sub cm to 6cm subangular to subrounded clasts, weakly stretched and foliated - shear zone/ Clasts in float are both clast and matrix supported. Matrix is dark vfg mudstone with felsic clay alt'd clasts. Host of breccia appears to be dark grey siliceous alt'd material - not green more blue grey, patchy light yellow/green clay alt'd and weathered out very rounded voids. Also saw some qtz eyes.
KD18-196BR	KD18-196BR	grab	Wall rock - very siliceous, <1% pry
KD18-196CR	KD18-196CR	grab	Qtz vein sample - bleb of qtz in grey material - possibly along bedding?
KD18-211R	KD18-211R	float	Adit in cliff. Patchy strong mag. Vugs with yellow clay alt hosed in coarse grained bio after hbl and primary bio, coarse grained with qtz and felds. Chl veinlets <1mm, planar and cross cutting. Weak epi with vein. Pyr associated with mafics, <1% Qtz <10% to 5%. Hbl 15-20%/ bio subhedral to euhedral. Felds, weakly chl alt'd, patchy mostly white - interlocking crystal groundmass. Qtz in groundmass as well. Qtz dio. Sulphides in float from inside adit. Dark grey/green mottled fine grained rock with blebby/patchy pyrrhotite. Strongly magnetic. Possible arsenopyrite? Minor covelite. Possible tremoltie - bleached acicular light green associated with phyrnite. Sphalerite noted - rusty reddy colour.
LT18-209R	LT18-209R	grab	Orangy brown weathering highly gossanous unit. Finely laminated dark grey fresh mudstone.
LT18-210R	LT18-210R	grab	Gossan in finely laminated mudstone.
LT18-211R	LT18-211R	grab	Silicied bedded light grey mudstone with moderate gossan.

LT18-212AR	LT18-212AR	grab	Wall rock to vein described in sample LT18-212B, sample hosts 10% oxides.
LT18-212BR	LT18-212BR	grab	30 cm gungy to sugary qtz vein with sections of semi to massive sulphide (py>>aspy). Many surfaces have a snotty green mineral interpreted to be either sericite or skorodite. The vein is truncated and possibly partially boudined. Slickenlines observed on many surfaces.
LT18-217R	LT18-217R	grab	Old workings with very gossanous sheared material. Sample includes vein material, vein is conformable to foliation. Volcanically derived sediments on either side of vein. Zone is approximately 1 m wide.
LT18-224R	LT18-224R	grab	~1 m wide qtz vein with sericite, chlorite and oxide alteration. Vein hosts very fine grained disseminated py.
LT18-233R	LT18-233R	grab	Gossanous vein sampled hosted in green weathering volcanically derived sed.
LT18-283R	LT18-283R	grab	Fspar porphyry host with intense gossan, fracture controlled. Fracture orientation is 135/70.
LT18-284R	LT18-284R	grab	Old blasted trench. Brecciated, cpy, mal, az, py and sp? Associated with bx matrix. Breccia likely associated with fault present. Biotite hornfels on the norht side of the fault and intrusive on the south side. Fault and mineralization could mark the contact. Fault orientation is 290/88.
LT18-285R	LT18-285R	grab	Old blasted trench. Sample consists of veining and brecciation along a fault. Breccia matrix and wallrock is silicified. 5% sulphides, cpy, sp, po, py. 6 m trench parallel to fault, host lith is a biotite hornfels. Fault orientation is 157/40.
LT18-287R	LT18-287R	grab	Start of old adit. Sample consists of biotite hornfelse and intrusive in blasted material. Both units react with HCl. Cpy, mal, az, chalcocite and sp noted.
LT18-290R	LT18-290R	grab	Trench az 045 over 5 m. Sample consists of 0.5% cpy, 3% disseminated, stringer and clots of py, and ~1% fine grained grey weathered out sx (?) hosted in hornfels.
LT18-292R	LT18-292R	grab	20 m area of blocky gossanous rock, looks anthropogenic, possibly an old dump? Hornfels hosts massive po and semi-massive cpy.
LT18-293R	LT18-293R	grab	Trench az 230 for 4 m. Bright red-purple gossan with massive po, 3% cpy. Mineralization occurs as disseminations and veins grading to crackle breccia, hosted in hornfels sed.
PM18-090R			
PM18-091R			

Appendix III: Sediment sample locations

Table 7. Sediment sample locations

Sample No	Property	Sample Type	East (m) NAD'83	North (m) NAD'83	Elevation (m)
AB18-090T	Georgie River	Silt	433,767.3	6,183,590.0	1,260.1
PM18-091T	Georgie River	Silt	434,248.8	6,183,968.0	1,210.8
PM18-110M	Georgie River	Moss	432,767.2	6,180,352.5	944.0
KD18-211S	Georgie River	Soil	437,354.4	6,188,112.6	922.3
LT18-270T	Georgie River	Silt	436,173.3	6,187,611.2	768.3
LT18-276T	Georgie River	Silt	435,854.5	6,187,343.9	805.1

Appendix IV: Analytical certificates



Date Submitted: 04-Sep-18
Invoice No.: A18-12372 (i)
Invoice Date: 23-Oct-18
Your Reference:

Auramex Resource Corp
20th Floor, 250 Howe Street
Vancouver BC V6C 3R8
Canada

ATTN: Paul Metcalfe

CERTIFICATE OF ANALYSIS

203 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-3 INAA(INAAGEO)/Total digestion ICP(Total)Total Digestion ICP/MS

REPORT **A18-12372 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

Footnote: INAA data may be suppressed due to high activity of samples and high concentrations of some analytes. Samples showing Ba > 1% should be repeated as small INAA vials or another method as values may be unreliable.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font.

Emmanuel Esemé, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Date Submitted: 04-Sep-18
Invoice No.: A18-12372 (i)
Invoice Date: 23-Oct-18
Your Reference:

**Auramex Resource Corp
20th Floor, 250 Howe Street
Vancouver BC V6C 3R8
Canada**

ATTN: Paul Metcalfe

CERTIFICATE OF ANALYSIS

203 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code Sieve Report-Kamloops Internal Sieve Report Internal

REPORT **A18-12372 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

Footnote: INAA data may be suppressed due to high activity of samples and high concentrations of some analytes. Samples showing Ba > 1% should be repeated as small INAA vials or another method as values may be unreliable.

CERTIFIED BY:



Emmanuel Esemé, Ph.D.
Quality Control

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Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	Mo	S	Al	Ca	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Re	Sn	Sr	Te	Ti	Tl	V	Y	Zr
Unit Symbol	ppm	%	%	%	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	0.01	0.01	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.001	1	0.2	0.1	0.01	0.05	2	0.1	1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS
PM18-055F	19	8.38	5.12	0.12	11.6	0.2	1000	< 0.1	1.41	24.0	0.09	152	8.3	0.017	0.001	< 1	47.5	< 0.1	0.15	3.28	54	12.8	94
AB18003R	11	0.36	7.94	0.07	13.1	0.3	170	< 0.1	1.88	10.4	0.43	100	7.0	0.050	0.015	< 1	20.5	0.2	0.40	1.94	133	8.3	92
AB18021R	7	1.88	6.95	1.00	16.6	0.2	70	< 0.1	1.81	4.7	0.66	351	5.1	0.071	0.027	< 1	70.7	< 0.1	0.36	1.11	183	14.5	88
AB18022R	2	0.05	0.75	9.65	1.0	< 0.1	< 10	< 0.1	0.22	3.2	0.47	2110	0.3	0.008	0.001	< 1	777	< 0.1	0.04	0.09	17	7.0	8
AB18032R	9	1.06	3.61	5.40	8.0	0.2	100	< 0.1	1.53	5.2	0.82	698	3.8	0.086	0.041	< 1	279	0.2	0.22	0.64	204	18.5	45
AB18043R	5	3.81	4.28	7.01	10.4	0.2	130	< 0.1	1.31	6.6	1.83	2160	1.6	0.088	0.002	< 1	154	< 0.1	0.27	2.09	109	19.8	37
AB18047R	7	12.4	4.88	8.83	25.1	0.3	10	0.6	0.12	5.7	1.05	1600	4.2	0.112	0.005	8	727	0.2	0.43	1.56	211	18.7	59
AB18049R	< 1	0.65	0.47	17.6	6.3	0.1	90	0.2	0.04	3.4	0.71	2070	< 0.1	0.034	0.001	3	84.4	< 0.1	< 0.01	0.11	13	2.7	2
AB18057R	< 1	< 0.01	6.89	4.10	< 0.1	1.0	40	< 0.1	3.84	12.0	0.30	3090	1.5	0.096	0.001	< 1	467	< 0.1	0.38	1.56	292	15.1	50
AB18060R	< 1	1.11	2.69	0.42	2.6	0.1	70	< 0.1	1.53	4.8	0.06	750	2.4	0.045	< 0.001	< 1	585	< 0.1	0.13	0.50	68	9.9	36
AB18072R	5	1.46	3.01	0.10	15.9	0.2	30	< 0.1	0.36	14.1	1.06	267	0.5	0.009	0.002	< 1	51.6	16.1	0.09	0.10	169	4.4	13
AB18075R	3	0.21	0.23	12.2	0.6	0.1	30	< 0.1	0.03	4.9	0.94	5560	< 0.1	0.014	0.001	< 1	17.5	0.4	< 0.01	0.05	12	1.4	8
AB18077R	< 1	0.05	0.38	13.6	1.5	0.1	< 10	< 0.1	< 0.01	5.2	3.07	4770	< 0.1	0.009	0.001	< 1	49.2	0.1	< 0.01	0.09	6	1.3	2
AB18083R	9	0.16	2.61	0.13	5.3	0.3	< 10	< 0.1	1.71	2.5	0.23	139	< 0.1	0.013	0.003	< 1	23.9	< 0.1	0.15	0.59	132	9.2	47
AB18084R	< 1	8.06	2.49	0.24	4.9	0.7	< 10	0.2	0.97	3.7	0.41	267	< 0.1	0.038	0.001	< 1	60.5	0.3	0.06	0.35	54	4.2	195
AB18085R	4	0.11	0.64	0.20	0.9	< 0.1	< 10	< 0.1	0.21	2.4	0.13	163	0.2	0.006	0.002	< 1	16.1	< 0.1	0.05	< 0.05	30	5.0	9
AB18090R	1	3.69	4.30	0.28	9.3	0.5	< 10	0.1	1.61	8.3	0.90	328	< 0.1	0.060	< 0.001	< 1	90.7	0.3	0.05	0.32	119	7.8	122
AB18091R	4	0.16	3.98	1.11	4.7	0.1	20	< 0.1	0.99	4.8	0.84	457	0.9	0.062	0.004	< 1	111	0.2	0.20	0.77	94	17.6	16
AB18094RA	3	< 0.01	0.18	0.28	0.4	< 0.1	< 10	< 0.1	0.05	0.8	0.09	187	< 0.1	0.003	< 0.001	< 1	7.9	< 0.1	< 0.01	< 0.05	8	0.3	< 1
AB18094RB	4	0.12	2.76	5.78	5.8	< 0.1	< 10	< 0.1	0.40	4.3	1.60	1940	0.5	0.039	< 0.001	< 1	166	< 0.1	0.16	0.09	97	6.7	5
AB18102R	13	0.55	3.79	0.25	12.3	0.3	10	0.1	0.12	14.4	1.56	261	2.4	0.089	0.003	2	108	< 0.1	0.30	0.12	155	8.8	88
AB18104R	< 1	< 0.01	7.82	7.09	9.8	0.2	< 10	< 0.1	2.27	4.7	1.94	1220	< 0.1	0.115	< 0.001	< 1	570	< 0.1	0.12	1.07	64	19.5	39
AB18105R	5	0.99	2.14	1.77	3.3	< 0.1	< 10	< 0.1	1.06	28.2	0.45	395	0.2	0.029	< 0.001	< 1	471	< 0.1	0.13	0.42	58	7.3	14
AB18107R	17	10.7	2.75	0.11	10.0	0.2	90	0.8	1.03	27.2	1.08	723	1.1	0.036	< 0.001	< 1	14.1	< 0.1	0.22	1.17	149	4.9	21
AB18108R	4	2.58	7.23	0.67	22.8	0.7	< 10	< 0.1	0.18	65.7	4.00	1780	1.2	0.108	0.001	1	110	< 0.1	0.45	0.27	286	22.1	61
AB18110R	2	0.08	7.15	4.67	7.7	0.3	< 10	< 0.1	1.87	16.1	1.26	1170	6.3	0.044	0.002	< 1	337	< 0.1	0.16	0.80	60	17.3	108
AB18111R	23	0.80	6.72	4.38	11.9	0.2	< 10	< 0.1	3.04	25.1	0.80	1400	8.4	0.061	< 0.001	1	331	< 0.1	0.22	0.89	72	17.7	99
AB18113R	< 1	0.42	2.81	0.20	4.7	< 0.1	30	< 0.1	1.25	12.4	0.16	198	3.3	0.016	0.001	< 1	823	< 0.1	0.07	0.27	25	8.4	40
AB18128RA	< 1	0.06	9.42	6.38	3.7	0.3	30	0.1	1.92	22.8	2.19	1840	< 0.1	0.116	< 0.001	< 1	353	< 0.1	0.16	1.06	85	17.6	26
AB18128RB	< 1	0.40	8.42	6.65	10.4	0.4	20	< 0.1	1.94	10.8	1.93	1420	0.2	0.158	0.002	< 1	> 1000	< 0.1	0.47	0.65	113	23.3	63
KD18-006R	3	0.11	7.49	0.12	< 0.1	0.5	< 10	< 0.1	3.32	4.2	0.13	331	9.2	0.063	0.002	< 1	91.6	< 0.1	0.26	1.99	77	16.4	148
KD18-021R	2	0.68	7.52	0.25	12.4	0.3	100	< 0.1	2.18	10.5	0.14	71	5.3	0.111	0.001	2	89.4	< 0.1	0.35	2.55	104	21.3	145
KD18-022R	5	1.16	7.23	< 0.01	10.5	0.1	60	< 0.1	1.22	4.3	0.04	104	11.7	0.007	< 0.001	1	51.5	< 0.1	0.20	2.55	38	13.5	166
KD18-023R	7	0.68	6.09	< 0.01	9.5	0.2	310	< 0.1	3.20	7.6	0.02	76	6.6	0.005	0.001	< 1	71.3	< 0.1	0.16	1.70	26	11.1	112
KD18-024R	5	0.08	5.75	0.09	8.9	0.3	80	< 0.1	1.37	14.2	0.09	232	2.1	0.034	< 0.001	< 1	69.5	< 0.1	0.17	1.04	43	13.4	23
KD18-039R	< 1	0.01	8.26	1.88	10.7	0.3	30	< 0.1	1.96	35.3	1.41	2120	< 0.1	0.164	0.001	< 1	167	< 0.1	0.22	0.65	129	21.1	23
KD18-042R	2	0.46	7.56	3.69	18.1	0.5	30	0.2	4.02	51.0	1.69	4110	4.2	0.144	0.001	< 1	193	< 0.1	0.42	0.63	206	21.8	93
KD18-054R	6	0.15	7.92	0.33	14.1	0.6	40	< 0.1	3.10	4.0	0.14	382	9.8	0.074	< 0.001	< 1	105	< 0.1	0.22	0.61	37	10.6	74
KD18-057R	4	0.10	6.22	3.51	13.5	0.2	40	< 0.1	1.57	21.1	0.79	1480	5.5	0.049	0.003	< 1	207	< 0.1	0.18	0.96	70	11.1	66
KD18-062R	27	6.54	3.64	7.82	6.8	0.1	< 10	< 0.1	1.79	14.6	3.36	3480	2.6	0.038	0.001	< 1	163	< 0.1	0.14	1.85	54	16.1	50
KD18-063R	10	> 20.0	2.04	2.95	5.1	0.5	< 10	< 0.1	0.02	20.5	1.09	1360	1.4	0.058	0.005	1	62.8	0.7	0.09	0.26	63	13.5	23
KD18-067R	17	4.86	6.31	0.01	13.9	0.1	630	< 0.1	4.33	8.8	0.22	145	7.0	0.004	0.009	< 1	37.9	< 0.1	0.18	16.3	58	6.3	75

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	Mo	S	Al	Ca	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Re	Sn	Sr	Te	Ti	Tl	V	Y	Zr
Unit Symbol	ppm	%	%	%	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	0.01	0.01	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.001	1	0.2	0.1	0.01	0.05	2	0.1	1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS
KD18-067AR	21	9.72	5.78	0.04	14.7	0.2	570	< 0.1	4.83	6.6	0.18	217	6.9	0.009	0.004	< 1	54.9	< 0.1	0.18	5.59	53	6.6	70
KD18-071R	59	0.09	0.21	0.17	< 0.1	1.1	60	< 0.1	0.04	0.6	0.01	85	< 0.1	0.008	0.001	< 1	22.5	< 0.1	0.01	0.29	11	1.6	5
KD18-088R	< 1	0.01	7.85	3.67	< 0.1	0.4	20	< 0.1	2.80	24.2	4.39	1450	< 0.1	0.167	0.001	< 1	497	< 0.1	0.28	0.42	273	13.9	12
KD18-094R	2	0.30	1.79	10.2	< 0.1	0.1	30	0.1	0.57	4.5	2.31	2480	1.3	0.033	0.005	< 1	455	< 0.1	0.08	0.11	48	16.6	22
KD18-099R	12	2.23	6.70	0.34	16.1	0.2	60	< 0.1	2.50	5.0	0.79	116	5.1	0.078	0.046	1	51.4	0.1	0.41	0.84	312	16.4	90
KD18-107AR	6	1.40	2.17	9.69	4.6	0.2	50	< 0.1	0.97	5.9	1.47	2100	4.0	0.057	0.019	< 1	456	0.1	0.17	0.33	162	18.9	43
KD18-107R	4	0.20	0.82	7.90	0.7	0.1	< 10	0.1	0.43	4.0	2.89	2270	0.7	0.025	0.007	< 1	147	< 0.1	0.05	0.08	62	13.0	12
KD18-110AR	5	0.32	1.00	9.62	1.6	0.1	< 10	0.4	0.36	7.7	2.95	3610	1.3	0.054	0.026	< 1	183	< 0.1	0.06	0.07	142	29.1	18
KD18-110R	5	0.24	1.03	1.31	1.6	0.1	20	< 0.1	0.56	14.7	0.43	463	1.0	0.015	0.010	< 1	35.5	< 0.1	0.07	0.08	55	4.1	17
KD18-119R	15	8.11	3.63	0.10	8.4	0.2	< 10	< 0.1	3.37	14.8	0.48	183	7.0	0.038	0.001	3	58.8	0.6	0.23	0.57	33	16.0	108
KD18-128R	3	17.2	0.76	10.3	3.1	0.3	20	< 0.1	0.08	5.3	0.58	1190	< 0.1	0.041	0.005	< 1	493	0.2	0.01	0.19	31	1.9	7
KD18-139R	8	1.25	7.27	0.18	20.7	0.6	50	< 0.1	4.98	4.4	0.08	1180	5.0	0.113	< 0.001	3	78.2	< 0.1	0.37	1.59	234	27.6	124
KD18-139AR	4	0.83	8.09	0.30	18.6	0.2	70	< 0.1	3.88	3.2	0.05	233	6.5	0.131	< 0.001	1	86.3	< 0.1	0.39	1.79	129	25.3	55
KD18-140R	3	0.38	7.94	0.03	21.9	0.8	30	< 0.1	3.50	3.3	0.05	436	1.8	0.123	< 0.001	5	86.0	< 0.1	0.42	1.76	275	28.4	101
KD18-156R	10	0.23	2.77	13.2	< 0.1	0.1	10	< 0.1	1.29	16.9	0.88	5930	3.6	0.039	0.001	< 1	332	< 0.1	0.13	0.29	65	15.6	52
KD18-162R	33	2.00	5.87	0.09	18.3	0.5	20	< 0.1	3.46	24.0	1.38	552	8.4	0.072	< 0.001	1	86.2	0.7	0.26	3.61	172	17.1	112
KD18-166R	2	0.20	4.87	2.01	5.7	< 0.1	< 10	< 0.1	0.82	6.0	0.72	686	2.5	0.063	< 0.001	< 1	226	< 0.1	0.10	0.18	58	5.3	6
KD18-167R	5	< 0.01	0.35	0.64	0.8	< 0.1	< 10	< 0.1	0.08	0.6	0.06	577	< 0.1	0.006	0.002	< 1	18.2	< 0.1	< 0.01	< 0.05	4	1.4	2
KD18-170R	2	0.04	2.89	1.95	5.8	0.2	< 10	< 0.1	0.70	5.2	0.82	1050	1.4	0.006	< 0.001	< 1	98.5	< 0.1	0.13	0.06	52	10.8	14
KD18-172R	6	1.54	0.76	0.01	3.7	0.4	10	0.5	0.46	21.8	0.17	131	0.3	0.004	0.011	< 1	8.0	1.3	0.04	< 0.05	59	2.3	12
KD18-176R	2	1.69	6.67	1.47	13.5	0.2	< 10	0.2	2.81	29.0	1.72	1320	4.5	0.125	0.001	< 1	92.0	0.1	0.34	0.62	188	11.0	29
KD18-177R	3	1.24	1.65	0.02	2.3	< 0.1	40	< 0.1	0.91	11.2	0.07	244	0.5	0.030	< 0.001	< 1	11.3	< 0.1	0.09	0.06	56	5.3	5
KD18-181R	7	4.75	1.18	0.04	2.9	0.2	940	0.4	0.90	2.4	0.07	150	< 0.1	0.024	< 0.001	< 1	12.4	< 0.1	0.05	< 0.05	43	1.7	4
KD18-182R	3	3.41	4.26	0.45	5.8	0.1	30	< 0.1	3.30	15.1	0.46	233	2.0	0.133	< 0.001	< 1	199	< 0.1	0.26	0.24	189	8.2	22
KD18-185R	5	0.10	3.42	0.31	0.3	< 0.1	10	< 0.1	1.67	3.8	0.16	266	2.0	0.028	< 0.001	< 1	108	< 0.1	0.11	0.07	28	3.0	18
KD18-196AR	10	0.09	6.67	0.10	15.7	0.2	10	< 0.1	2.80	10.4	0.34	104	14.6	0.018	< 0.001	3	109	< 0.1	0.25	1.47	37	27.0	226
KD18-196BR	18	0.95	5.35	0.13	17.3	0.2	10	< 0.1	2.64	8.9	0.27	99	14.1	0.033	0.003	3	89.2	< 0.1	0.21	1.27	29	23.4	209
KD18-196CR	3	0.07	0.62	0.02	2.0	< 0.1	< 10	< 0.1	0.65	0.5	0.01	228	1.0	0.010	< 0.001	< 1	29.8	< 0.1	0.02	0.16	< 2	4.3	22
KD18-199R	< 1	0.46	0.45	11.2	0.9	0.2	< 10	< 0.1	0.01	5.5	4.06	4060	< 0.1	0.013	< 0.001	< 1	12.5	0.3	< 0.01	< 0.05	19	8.3	6
KD18-202R	4	2.37	1.45	10.1	2.6	0.2	< 10	< 0.1	< 0.01	6.8	3.44	4040	1.1	0.029	0.002	< 1	104	0.2	0.07	0.38	41	3.2	21
KD18-205R	3	0.38	0.24	0.04	2.6	0.2	340	< 0.1	0.02	8.0	0.11	504	< 0.1	0.009	0.004	< 1	> 1000	< 0.1	0.02	< 0.05	34	3.4	4
KD18-206R	3	0.12	0.15	0.35	< 0.1	< 0.1	140	< 0.1	0.04	1.7	0.05	436	< 0.1	0.002	< 0.001	< 1	661	< 0.1	< 0.01	< 0.05	14	0.7	1
KD18-207R	2	0.17	0.40	0.44	2.8	0.1	630	< 0.1	0.19	5.0	0.07	705	< 0.1	0.002	< 0.001	< 1	> 1000	< 0.1	< 0.01	< 0.05	4	1.7	4
KD18-211R	< 1	1.85	10.5	4.43	22.0	0.8	40	0.1	4.13	31.1	2.81	3220	9.3	0.143	< 0.001	2	440	0.2	0.42	3.16	132	20.3	19
AW18-016	9	0.16	1.11	0.02	1.6	0.2	180	0.1	1.43	13.4	0.02	95	2.2	0.054	0.002	< 1	21.7	< 0.1	0.08	0.21	119	6.2	61
AW18-017	3	0.05	5.95	0.04	6.6	0.1	10	0.1	7.57	7.3	0.03	55	9.0	0.055	< 0.001	< 1	57.5	< 0.1	0.18	1.55	58	10.7	131
AW18-020	3	0.03	7.60	0.13	6.8	0.1	10	< 0.1	8.38	14.2	0.22	145	12.0	0.058	< 0.001	8	110	< 0.1	0.27	2.86	88	14.0	149
AW18-030	7	0.10	5.46	< 0.01	6.8	0.2	10	< 0.1	6.46	2.8	0.02	41	9.3	0.008	< 0.001	< 1	84.3	< 0.1	0.09	2.00	14	7.4	82
AW18-032	4	0.11	7.60	0.06	20.2	0.4	< 10	< 0.1	5.81	14.9	0.22	247	7.7	0.059	< 0.001	< 1	133	< 0.1	0.21	2.72	67	10.0	75
AW18-034	65	9.74	2.49	0.01	9.4	0.3	490	< 0.1	2.64	17.2	0.06	76	2.8	0.002	0.006	1	11.7	< 0.1	0.07	6.91	46	6.9	52
AW18-035	24	9.47	5.49	0.11	11.3	0.2	2160	< 0.1	3.25	10.9	0.12	189	7.3	0.020	0.010	3	21.6	< 0.1	0.17	11.1	53	16.2	130
AW18-038	3	5.94	8.67	0.01	19.4	0.2	1700	< 0.1	2.90	33.1	0.43	141	6.5	0.012	0.001	1	271	< 0.1	0.61	7.09	251	9.5	92

Results

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Analyte Symbol	Mo	S	Al	Ca	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Re	Sn	Sr	Te	Ti	Tl	V	Y	Zr
Unit Symbol	ppm	%	%	%	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	0.01	0.01	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.001	1	0.2	0.1	0.01	0.05	2	0.1	1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS
AW18-041	3	0.10	7.05	2.38	< 0.1	0.2	60	< 0.1	3.14	13.3	0.24	552	2.7	0.048	< 0.001	< 1	196	< 0.1	0.18	1.64	40	14.0	27
AW18-043	23	7.26	6.75	0.02	29.8	1.1	3150	< 0.1	3.52	11.1	0.20	44	14.8	0.012	0.002	4	41.7	< 0.1	0.25	12.9	53	18.5	210
AW18-053	10	13.5	0.23	0.15	0.8	0.2	30	< 0.1	0.03	10.4	0.07	250	< 0.1	0.029	0.007	< 1	3.7	0.2	< 0.01	0.26	13	1.2	3
AW18-063	2	0.36	7.94	0.19	12.8	0.1	40	< 0.1	0.09	1.2	< 0.01	302	7.9	0.063	< 0.001	1	75.9	< 0.1	0.25	0.16	76	6.3	71
AW18-069	2	0.02	6.92	0.56	12.6	0.1	10	< 0.1	0.15	1.6	0.02	505	7.2	0.074	< 0.001	3	81.8	< 0.1	0.28	0.06	88	6.9	111
AW18-089	14	2.10	5.75	0.11	14.8	0.2	30	< 0.1	2.84	8.6	0.61	119	8.7	0.079	0.004	2	80.0	0.8	0.31	0.21	85	12.6	136
AW18-095	14	6.48	6.42	0.01	10.8	0.4	240	< 0.1	7.93	7.3	0.05	61	11.5	0.019	0.003	< 1	35.3	< 0.1	0.21	25.2	40	7.4	166
AW18-101	24	> 20.0	3.70	0.07	13.5	0.5	220	0.2	4.09	5.4	0.04	78	11.9	0.046	0.001	3	16.6	< 0.1	0.17	52.4	63	32.6	174
AW18-102	< 1	15.5	0.13	< 0.01	0.1	0.1	8020	< 0.1	0.13	< 0.5	< 0.01	100	< 0.1	< 0.001	0.001	< 1	3.8	< 0.1	< 0.01	0.60	< 2	0.3	4
AW18-103	8	7.66	6.29	< 0.01	14.2	0.3	730	< 0.1	5.07	5.8	0.11	49	12.4	0.020	< 0.001	< 1	37.9	< 0.1	0.21	12.5	44	9.6	106
AW18-104	24	4.98	7.46	0.01	12.6	0.2	740	< 0.1	3.39	5.1	0.06	106	8.0	0.008	0.001	2	50.0	< 0.1	0.19	4.17	44	10.6	100
AW18-107	3	0.65	7.62	0.12	12.0	0.3	40	< 0.1	3.24	7.5	0.30	177	7.0	0.057	< 0.001	1	86.7	< 0.1	0.29	2.04	100	7.8	69
AW18-112	11	14.5	2.62	0.04	6.0	0.4	330	< 0.1	1.48	10.8	0.16	1100	1.8	0.024	< 0.001	< 1	3.6	< 0.1	0.11	3.24	43	7.7	33
AW18-113	40	18.3	2.73	0.11	10.2	0.5	40	0.1	0.03	39.4	1.07	379	3.0	0.067	0.008	2	7.8	1.0	0.17	0.93	97	11.5	68
AW18-117	35	6.91	0.17	4.37	0.4	0.4	10	< 0.1	0.04	3.3	0.70	3490	< 0.1	0.018	0.016	< 1	41.8	0.4	0.01	0.53	30	1.2	6
AW18-119	10	> 20.0	1.63	2.40	6.0	0.4	30	< 0.1	0.04	11.5	0.74	1040	0.6	0.041	0.006	< 1	37.0	0.5	0.05	0.38	49	11.4	17
AW18-135	114	7.74	1.87	0.06	4.6	0.5	30	< 0.1	0.58	18.8	0.18	347	1.0	0.028	0.002	< 1	38.6	< 0.1	0.11	12.1	42	3.4	23
AW18-145	2	0.59	7.30	2.38	17.2	0.4	30	< 0.1	0.58	8.0	2.01	422	7.1	0.099	0.002	< 1	391	< 0.1	0.38	0.46	155	17.9	75
AW18-161	2	6.65	7.89	0.21	24.3	0.3	20	< 0.1	3.47	8.7	1.09	305	6.4	0.168	< 0.001	3	8.4	0.5	0.58	0.65	366	22.2	63
AW18-176	6	0.16	2.61	0.37	4.3	0.2	40	< 0.1	0.55	6.7	0.30	474	1.9	0.056	0.014	< 1	50.8	0.2	0.15	0.16	121	14.5	18
AW18-177	1	0.14	0.43	18.5	0.9	0.2	20	1.1	0.05	4.7	1.48	9270	< 0.1	0.008	0.001	< 1	309	< 0.1	0.02	< 0.05	35	34.4	8
AW18-181	4	0.33	0.27	14.4	< 0.1	0.2	40	0.2	0.02	10.2	0.20	4730	< 0.1	0.009	0.001	2	214	0.2	< 0.01	< 0.05	12	63.6	3
AW18-188	4	< 0.01	2.79	1.12	5.3	0.1	10	< 0.1	0.17	10.2	0.85	647	1.0	0.031	0.001	< 1	106	< 0.1	0.10	< 0.05	38	9.1	17
AW18-197	12	18.1	1.17	1.12	5.2	0.5	30	0.2	0.16	19.3	0.49	1320	0.5	0.017	0.001	< 1	24.2	0.6	0.04	0.39	38	12.5	17
AW18-198	6	> 20.0	0.58	0.03	4.5	0.5	80	0.2	0.25	3.8	0.05	464	< 0.1	0.027	0.006	< 1	2.2	0.7	0.01	0.62	20	2.7	4
AW18-199	47	4.92	2.27	3.46	4.5	0.5	30	0.1	0.92	12.9	1.01	2030	< 0.1	0.030	0.004	< 1	401	< 0.1	0.10	0.50	52	7.2	24
AW18-200	4	3.01	0.32	8.70	0.5	0.2	10	< 0.1	0.15	8.8	1.64	3500	< 0.1	0.029	0.001	< 1	214	0.2	< 0.01	0.10	11	3.1	5
AW18-201R	3	5.08	0.19	9.22	0.4	0.2	30	< 0.1	0.06	5.4	2.26	4410	0.7	0.028	0.004	< 1	169	0.1	< 0.01	0.17	9	1.1	5
AW18-202R	37	1.41	4.74	10.1	10.1	0.2	10	0.2	1.62	4.6	1.77	4910	3.6	0.112	< 0.001	1	245	< 0.1	0.26	0.56	63	16.4	48
AW18-223R	< 1	0.05	7.82	0.36	< 0.1	0.8	40	< 0.1	3.69	2.0	0.16	817	0.5	0.112	0.001	< 1	60.7	< 0.1	0.24	1.81	102	23.7	3
AW18-224R	6	< 0.01	6.12	0.24	< 0.1	0.2	50	< 0.1	3.20	5.1	0.04	5280	6.9	0.100	< 0.001	< 1	62.0	< 0.1	0.33	1.61	72	18.2	113
AW18-225R	19	0.07	6.44	1.24	< 0.1	0.2	10	< 0.1	7.26	4.2	0.12	6020	10.3	0.107	< 0.001	< 1	89.0	< 0.1	0.30	1.74	98	23.9	116
AW18-226R	1	0.05	8.10	2.50	< 0.1	0.3	40	< 0.1	5.85	2.8	0.10	6550	1.1	0.143	0.001	1	132	< 0.1	0.33	2.06	104	28.0	119
AW18-227R	9	< 0.01	7.09	0.34	< 0.1	0.3	50	< 0.1	9.25	6.2	0.09	2110	11.3	0.150	0.002	1	101	< 0.1	0.41	2.05	135	22.5	145
AW18-240R	4	1.31	0.11	9.72	0.3	0.1	240	< 0.1	0.03	23.4	2.09	2890	< 0.1	0.013	0.003	< 1	229	< 0.1	< 0.01	0.12	11	1.6	3
AW18-246R	4	0.22	0.17	14.5	1.1	0.2	70	< 0.1	0.04	1.2	0.67	3930	1.1	0.007	0.001	< 1	32.4	< 0.1	< 0.01	0.05	8	0.5	4
AW18-250R	< 1	0.33	9.09	5.18	19.2	0.5	50	0.2	0.22	39.1	2.66	1720	< 0.1	0.157	< 0.001	< 1	999	< 0.1	0.27	0.12	170	22.1	52
AW18-263R	9	3.26	5.85	0.34	7.6	0.1	230	< 0.1	1.12	4.9	0.11	82	4.7	0.081	0.001	< 1	102	< 0.1	0.30	0.93	42	9.9	95
AW18-264R	4	0.66	7.38	0.10	10.9	0.2	50	< 0.1	3.34	7.7	0.34	150	8.4	0.045	< 0.001	< 1	155	< 0.1	0.22	0.67	43	13.1	97
AW18-267R	< 1	0.49	5.15	11.0	12.9	1.4	30	< 0.1	0.79	4.5	2.92	2950	6.1	0.045	0.001	< 1	784	< 0.1	0.16	0.09	257	9.0	10
AW18-274R	< 1	1.27	9.10	1.74	18.6	0.3	10	< 0.1	3.57	26.6	2.05	942	8.6	0.120	0.002	< 1	201	0.3	0.57	0.83	334	11.1	27
AW18-276R	2	0.56	0.95	0.07	2.5	0.3	40	< 0.1	0.58	1.1	0.09	108	0.9	0.011	0.002	< 1	14.8	< 0.1	0.05	0.10	38	5.2	36

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	Mo	S	Al	Ca	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Re	Sn	Sr	Te	Ti	Tl	V	Y	Zr
Unit Symbol	ppm	%	%	%	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	0.01	0.01	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.001	1	0.2	0.1	0.01	0.05	2	0.1	1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS
AW18-280R	1	> 20.0	2.19	0.42	6.7	0.4	80	0.3	1.01	5.9	0.24	354	1.1	0.020	< 0.001	< 1	26.3	0.4	0.07	0.61	29	3.7	16
AW18-281R	2	0.38	5.25	0.11	7.5	0.1	10	< 0.1	2.21	12.6	0.64	480	8.7	0.058	< 0.001	< 1	15.9	0.3	0.20	0.51	57	4.6	30
AW18-282R	5	0.07	4.62	0.14	7.4	0.3	10	< 0.1	2.40	7.2	0.32	234	1.0	0.035	< 0.001	< 1	29.8	< 0.1	0.15	0.45	46	4.6	25
AW18-287R	< 1	3.54	5.46	0.34	7.6	0.2	30	< 0.1	4.70	8.1	0.56	189	5.1	0.112	< 0.001	< 1	151	< 0.1	0.32	0.57	195	9.4	26
AW18-289R	5	9.41	3.03	0.07	6.0	0.2	40	< 0.1	2.09	6.0	0.33	139	2.0	0.050	0.001	< 1	53.2	< 0.1	0.21	0.21	113	4.1	28
AW18-295R	< 1	0.93	7.08	2.83	9.7	0.2	20	< 0.1	3.54	15.0	0.69	756	4.3	0.159	< 0.001	< 1	326	0.2	0.48	0.47	265	14.4	29
AW18-300R	< 1	2.63	7.67	1.29	26.5	0.5	30	0.1	2.76	13.1	1.00	1080	8.2	0.202	< 0.001	2	137	< 0.1	0.71	0.78	9	60.8	80
AW18-308R	11	0.39	6.45	0.22	13.3	0.3	20	< 0.1	2.15	7.9	0.21	79	14.6	0.018	< 0.001	4	140	< 0.1	0.20	1.23	16	30.1	256
AW18-309R	10	2.79	5.02	0.16	15.7	0.4	20	< 0.1	1.66	26.7	1.75	544	6.2	0.085	0.002	< 1	86.1	< 0.1	0.29	0.69	124	8.1	87
AW18-310R	< 1	0.13	7.99	0.63	6.5	0.4	80	< 0.1	3.64	10.2	0.47	643	< 0.1	0.086	< 0.001	< 1	154	< 0.1	0.23	0.96	103	21.1	102
AW18-311R	< 1	3.83	2.53	11.0	5.5	0.3	1470	0.1	1.29	12.9	1.62	2010	0.4	0.028	0.001	< 1	175	< 0.1	0.12	0.46	59	21.0	34
AW18-312R	47	0.05	0.15	2.89	< 0.1	0.3	30	< 0.1	0.02	21.8	1.52	1190	< 0.1	0.022	0.006	< 1	10.5	0.9	0.01	0.12	43	1.8	5
AW18-313R	< 1	4.15	6.84	9.70	15.8	0.6	10	< 0.1	0.02	55.3	3.11	1540	8.2	0.080	0.009	4	691	< 0.1	0.23	< 0.05	88	14.6	82
AW18-315R	7	5.17	2.74	0.09	5.1	0.2	30	< 0.1	1.63	16.6	0.10	76	3.3	0.033	< 0.001	< 1	59.7	< 0.1	0.14	0.56	67	3.9	50
AW18-318R	2	0.15	7.62	1.47	6.7	0.3	40	< 0.1	4.83	6.9	0.23	403	0.6	0.100	< 0.001	< 1	133	< 0.1	0.25	1.33	72	16.9	110
AW18-320R	5	0.58	1.43	10.1	3.8	0.2	30	0.1	< 0.01	6.3	3.14	4150	1.0	0.031	0.002	< 1	125	< 0.1	0.08	0.16	44	3.6	24
LT18-011R	9	0.23	0.91	0.03	5.3	0.2	390	0.1	0.81	19.9	0.05	72	< 0.1	0.017	< 0.001	< 1	16.9	< 0.1	0.02	0.29	54	6.1	18
LT18-012R	7	0.48	4.72	0.06	7.7	0.2	110	< 0.1	4.01	21.4	0.19	75	5.5	0.045	0.001	1	24.6	< 0.1	0.14	1.05	37	13.7	87
LT18-015R	7	0.05	0.73	0.01	5.4	0.1	100	< 0.1	0.42	4.9	0.03	122	0.3	0.002	< 0.001	< 1	5.3	< 0.1	0.02	0.25	40	4.1	10
LT18-022R	1	< 0.01	8.18	0.27	11.1	0.4	30	< 0.1	4.16	16.3	0.16	185	0.5	0.085	< 0.001	< 1	112	< 0.1	0.30	1.86	97	15.9	13
LT18-027R	10	4.55	5.58	0.01	9.8	0.1	1880	< 0.1	3.75	8.5	0.08	54	7.5	0.006	0.008	< 1	29.2	< 0.1	0.11	5.49	62	13.8	73
LT18-028R	2	0.56	5.54	0.31	7.9	0.4	60	< 0.1	3.90	17.3	0.18	555	2.0	0.095	0.001	< 1	76.5	< 0.1	0.34	1.96	166	16.9	38
LT18-029R	10	2.57	6.69	0.01	8.7	0.2	400	< 0.1	4.26	6.8	0.05	70	10.2	0.013	0.002	< 1	35.3	< 0.1	0.18	3.61	34	9.8	133
LT18-030R	< 1	< 0.01	7.76	0.34	14.2	0.6	< 10	< 0.1	3.74	10.1	0.11	267	0.7	0.053	< 0.001	< 1	77.0	< 0.1	0.13	1.57	26	21.8	9
LT18-034R	2	0.90	6.79	0.06	12.6	0.1	270	< 0.1	4.60	8.0	0.08	51	11.8	0.026	< 0.001	2	51.6	< 0.1	0.17	3.15	42	16.2	138
LT18-050R	4	0.92	10.1	0.41	17.1	0.2	20	< 0.1	0.20	17.7	1.68	404	9.2	0.141	< 0.001	5	97.7	2.0	0.40	0.19	125	14.5	136
LT18-051R	6	0.28	8.20	0.28	13.8	0.4	< 10	< 0.1	0.25	5.7	0.36	277	4.4	0.099	< 0.001	3	103	0.1	0.38	0.09	55	24.3	20
LT18-057R	< 1	0.09	7.64	1.78	17.8	0.4	20	< 0.1	5.12	37.5	1.32	2110	< 0.1	0.150	< 0.001	< 1	172	< 0.1	0.23	0.63	141	19.4	3
LT18-058R	32	0.71	7.83	0.29	16.1	0.2	20	< 0.1	2.88	20.8	1.04	896	8.3	0.109	0.001	1	184	0.1	0.36	0.40	136	18.8	57
LT18-076R	13	3.61	9.29	0.35	16.9	0.2	< 10	< 0.1	2.17	16.7	0.69	548	7.5	0.123	< 0.001	1	227	0.5	0.42	0.41	149	10.9	107
LT18-077R	< 1	0.23	4.14	17.0	7.8	0.1	< 10	< 0.1	3.78	9.3	0.18	20600	4.8	0.053	0.001	< 1	272	< 0.1	0.12	0.86	36	14.8	69
LT18-098R	20	2.29	1.86	12.5	4.9	0.1	30	< 0.1	0.03	23.0	1.16	4150	0.7	0.028	0.009	< 1	287	0.3	0.06	0.12	46	8.4	13
LT18-099AR	32	2.09	1.15	1.25	5.2	0.2	30	< 0.1	0.04	9.9	0.54	4140	1.2	0.037	0.018	< 1	18.4	0.2	0.05	0.09	51	5.1	17
LT18-099BR	24	11.8	2.69	0.42	9.8	0.2	60	< 0.1	0.12	32.5	1.09	882	1.6	0.046	0.011	2	10.4	0.5	0.13	0.11	73	5.4	29
LT18-102AR	3	> 20.0	0.20	0.54	2.3	0.3	70	< 0.1	0.03	1.1	0.66	3140	0.5	0.014	0.002	< 1	18.2	0.6	< 0.01	0.28	9	4.4	4
LT18-102BR	2	> 20.0	0.13	0.21	0.5	0.3	20	< 0.1	0.01	1.7	0.40	2350	0.2	0.028	0.003	< 1	8.3	0.8	< 0.01	0.31	9	2.0	5
LT18-106R	67	0.77	0.47	0.15	1.9	0.7	< 10	< 0.1	0.01	3.4	0.21	2200	2.2	0.014	< 0.001	< 1	20.3	< 0.1	0.01	0.15	15	3.8	6
LT18-111R	63	0.95	1.01	0.82	2.2	0.3	< 10	< 0.1	0.21	10.8	0.20	2520	0.9	0.015	< 0.001	< 1	43.4	< 0.1	0.04	0.15	17	5.5	20
LT18-131R	2	> 20.0	0.90	1.99	3.7	0.6	< 10	0.1	0.06	1.6	0.68	1280	1.7	0.053	0.006	1	58.8	0.9	0.05	0.37	37	4.7	18
LT18-140R	20	3.02	5.80	11.7	9.7	0.2	20	< 0.1	1.76	5.1	0.75	2160	2.8	0.087	0.021	< 1	535	< 0.1	0.27	3.40	146	18.2	58
LT18-142R	48	12.2	3.71	4.95	10.8	0.2	< 10	< 0.1	0.07	41.6	1.66	3850	2.2	0.072	0.046	< 1	105	1.1	0.14	0.71	98	9.4	27
LT18-143R	9	11.4	1.02	5.04	1.9	0.2	90	< 0.1	0.03	18.0	1.76	2830	0.5	0.077	0.012	< 1	68.1	0.3	0.06	1.64	51	4.4	10

Results

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Analyte Symbol	Mo	S	Al	Ca	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Re	Sn	Sr	Te	Ti	Tl	V	Y	Zr
Unit Symbol	ppm	%	%	%	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	1	0.01	0.01	0.01	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.001	1	0.2	0.1	0.01	0.05	2	0.1	1
Method Code	TD-ICP	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS
LT18-145R	11	> 20.0	1.11	0.64	2.7	0.4	250	< 0.1	0.18	13.3	0.38	367	1.1	0.076	0.012	< 1	20.4	0.6	0.05	1.57	40	6.2	17
LT18-162R	3	0.13	5.77	0.19	1.8	0.1	< 10	< 0.1	3.94	2.3	0.02	1380	2.7	0.086	< 0.001	1	687	< 0.1	0.25	1.69	171	19.0	36
LT18-164R	2	0.87	3.03	0.10	5.4	0.2	50	< 0.1	2.47	1.1	0.02	1140	2.9	0.050	< 0.001	< 1	811	< 0.1	0.14	0.82	100	18.5	48
LT18-170R	< 1	0.12	0.80	13.7	3.6	0.2	< 10	< 0.1	0.03	6.9	1.43	5600	0.4	0.019	< 0.001	< 1	26.8	< 0.1	0.02	< 0.05	26	1.7	7
LT18-174R	< 1	1.34	9.26	1.84	17.5	0.3	< 10	< 0.1	4.98	28.3	2.52	1110	6.1	0.164	0.001	1	247	< 0.1	0.52	1.10	231	16.0	84
LT18-178R	3	0.74	6.08	0.33	9.0	0.2	20	< 0.1	5.34	10.0	0.30	173	5.1	0.034	< 0.001	< 1	157	< 0.1	0.16	0.77	40	7.2	51
LT18-178AR	5	0.66	3.63	0.29	20.4	0.4	100	< 0.1	2.35	7.9	0.20	67	2.0	0.042	0.002	2	91.2	0.1	0.18	0.43	147	6.0	68
LT18-188R	4	1.12	7.78	0.23	22.8	0.4	30	< 0.1	1.38	44.4	1.90	774	8.4	0.080	< 0.001	2	65.0	< 0.1	0.29	0.28	111	15.0	118
LT18-209R	2	0.37	8.22	1.51	14.9	0.4	< 10	< 0.1	2.80	12.2	1.59	785	1.1	0.129	0.008	< 1	204	< 0.1	0.36	1.13	207	15.3	11
LT18-210R	5	0.40	6.26	1.39	13.6	0.3	40	< 0.1	2.53	7.0	1.01	567	1.4	0.106	0.011	2	167	< 0.1	0.32	1.89	291	25.2	8
LT18-211R	4	0.65	6.51	1.95	12.7	0.2	10	< 0.1	2.20	6.8	1.12	564	3.2	0.119	0.012	1	180	< 0.1	0.38	1.11	164	26.1	48
LT18-212AR	7	1.10	2.08	0.02	5.7	0.2	6770	0.2	1.10	3.0	0.13	35	0.4	0.038	0.001	4	30.4	< 0.1	0.09	0.30	46	2.6	17
LT18-212BR	4	1.11	1.33	0.01	3.4	0.1	2230	< 0.1	0.68	2.3	0.09	90	3.8	0.004	< 0.001	2	3.8	< 0.1	0.07	0.14	49	0.7	6
LT18-217R	2	11.8	1.71	1.63	3.6	0.2	40	< 0.1	0.75	7.1	0.44	819	1.1	0.041	0.001	1	43.9	< 0.1	0.10	0.24	60	6.5	12
LT18-224R	< 1	2.01	4.90	0.13	10.2	0.2	40	< 0.1	3.10	8.6	0.55	241	5.0	0.078	< 0.001	< 1	84.5	< 0.1	0.30	0.41	211	6.7	15
LT18-233R	4	1.14	4.50	0.29	5.3	0.2	< 10	< 0.1	3.60	8.2	0.28	131	2.4	0.081	< 0.001	< 1	159	0.1	0.24	0.34	148	6.9	17
LT18-249R	7	0.39	1.76	4.62	2.6	0.3	160	< 0.1	0.80	28.9	0.75	851	1.6	0.040	< 0.001	< 1	178	< 0.1	0.08	0.50	38	6.8	26
LT18-250R	24	2.05	9.57	3.38	15.7	0.2	20	< 0.1	3.06	19.8	1.28	998	4.1	0.129	0.011	< 1	355	< 0.1	0.47	12.8	216	17.1	80
LT18-251R	34	2.31	6.97	0.11	13.6	0.2	30	< 0.1	3.10	7.3	0.37	238	6.5	0.089	0.002	1	142	1.1	0.37	0.95	77	10.3	84
LT18-252R	1	0.68	0.23	14.2	2.5	0.2	< 10	0.2	0.03	2.4	2.43	3030	< 0.1	0.015	0.002	2	14.1	0.4	< 0.01	0.08	10	1.5	2
LT18-254R	2	0.99	8.94	2.38	17.3	0.3	60	< 0.1	2.01	23.1	2.17	606	2.3	0.172	0.003	1	278	< 0.1	0.50	0.47	226	20.3	73
LT18-256R	6	> 20.0	0.64	0.05	1.2	0.2	600	< 0.1	0.51	8.9	0.02	56	< 0.1	0.002	0.002	< 1	7.9	< 0.1	0.03	2.42	25	0.8	8
LT18-257R	< 1	0.06	8.82	2.19	9.2	0.2	30	< 0.1	3.93	29.9	1.43	695	6.1	0.172	0.001	1	380	< 0.1	0.36	1.00	120	16.0	103
LT18-258R	3	6.58	0.26	7.35	0.7	0.2	200	< 0.1	0.02	8.3	1.92	4650	0.1	0.012	0.003	< 1	9.5	0.2	< 0.01	0.54	9	0.4	7
LT18-259R	7	0.64	4.91	10.4	11.1	0.2	< 10	0.2	3.00	28.0	1.12	13500	4.6	0.072	0.003	< 1	473	< 0.1	0.20	1.35	88	30.1	74
LT18-260R	2	2.60	6.34	4.45	12.0	0.4	20	0.2	4.64	29.8	1.06	4170	3.6	0.140	0.002	< 1	115	< 0.1	0.39	0.67	168	18.9	77
LT18-261R	20	0.46	7.95	0.48	17.2	0.4	20	0.1	6.59	3.5	0.83	1350	6.8	0.164	< 0.001	2	72.8	< 0.1	0.41	1.10	125	17.2	125
LT18-263R	7	1.16	6.01	2.93	7.5	0.3	80	0.1	5.45	11.9	0.20	1920	8.2	0.022	0.002	2	108	< 0.1	0.09	5.25	20	19.5	64
LT18-283R	4	1.40	7.62	1.90	14.3	0.2	10	0.5	2.94	17.9	1.29	1300	4.2	0.077	0.004	< 1	217	0.3	0.26	1.30	121	11.2	29
LT18-284R	1	18.7	0.76	2.22	2.2	0.2	80	1.2	0.27	4.3	0.21	1520	0.6	0.030	0.001	< 1	53.1	3.0	0.03	0.19	13	3.0	5
LT18-285R	4	2.87	0.54	0.12	1.9	0.3	20	2.0	0.24	0.9	0.02	666	2.4	0.011	0.002	< 1	34.4	5.5	0.08	0.28	7	1.3	12
LT18-287R	4	1.39	1.75	1.32	4.3	0.1	90	1.0	0.54	7.4	0.43	2010	1.4	0.022	< 0.001	< 1	52.1	1.7	0.07	0.34	26	3.5	9
LT18-290R	3	1.89	4.30	1.68	9.2	0.1	10	1.2	1.77	11.0	0.95	1410	3.8	0.050	< 0.001	< 1	108	2.3	0.16	0.51	82	5.7	14
LT18-292R	< 1	16.4	1.72	0.53	5.3	0.3	< 10	< 0.1	0.41	22.5	0.94	1150	0.4	0.023	0.001	< 1	35.9	0.5	0.08	0.28	65	3.7	2
LT18-293R	2	16.2	3.55	1.65	9.5	0.3	< 10	0.8	1.30	9.7	1.52	2230	3.3	0.076	0.001	1	74.1	3.8	0.16	0.42	123	11.2	8

Results

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Analyte Symbol	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	INAA	MULT I NAA/T D- ICP- MS
PM18-055F	6.1	20.0	2.8	12.1	2.3	0.54	1.9	2.0	0.3	0.4	1.4	0.2	1.6	0.2	< 2	2.38	21.3	18.1	178	2.1	1000	106	3150
AB18003R	15.1	28.2	3.3	13.5	2.3	0.38	1.7	1.3	0.2	0.3	1.0	0.2	1.3	0.2	< 2	3.40	85.6	22.3	2000	2.6	2260	1490	599
AB18021R	9.4	18.2	2.6	11.3	2.2	0.53	2.4	2.3	0.3	0.5	1.5	0.2	1.6	0.2	61	3.21	65.9	0.2	34.3	37.6	39.4	120	1830
AB18022R	3.3	5.8	0.8	3.7	0.8	1.08	1.1	1.1	0.2	0.2	0.6	< 0.1	0.5	< 0.1	6	0.32	5.1	0.2	0.9	8.8	18.8	126	129
AB18032R	12.7	20.3	3.3	13.9	2.8	0.97	3.2	3.0	0.5	0.6	1.8	0.3	1.7	0.2	13	2.58	92.7	0.5	8.4	59.0	47.0	29.4	88
AB18043R	14.3	32.2	3.9	16.8	3.7	0.96	3.9	3.8	0.6	0.7	2.0	0.3	1.5	0.2	29	79.8	177	126	2140	7.1	6620	1340	35
AB18047R	14.4	31.3	4.0	17.7	3.8	1.82	3.9	3.3	0.5	0.7	2.0	0.3	1.8	0.2	10	3.94	686	1.0	70.9	159	110	185	92
AB18049R	0.8	1.9	0.2	1.0	0.2	0.19	0.3	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1	< 2	0.31	17.9	0.2	< 0.5	7.0	20.6	182	119
AB18057R	13.1	27.4	3.5	15.4	3.3	0.61	3.3	2.9	0.5	0.6	1.7	0.2	1.4	0.1	7	0.51	48.7	0.2	28.1	6.5	258	143	8990
AB18060R	1.5	7.4	1.6	9.0	2.0	0.54	1.9	1.6	0.3	0.3	1.0	0.1	1.0	0.1	< 2	0.41	8.8	1.7	11.9	1.0	243	202	336
AB18072R	1.5	3.3	0.4	1.8	0.4	0.10	0.5	0.6	< 0.1	0.1	0.5	< 0.1	0.6	< 0.1	14	0.43	298	< 0.1	41.3	3.1	12.0	249	68
AB18075R	0.8	1.9	0.2	1.0	0.2	0.16	0.2	0.2	< 0.1	< 0.1	0.1	< 0.1	0.1	< 0.1	16	0.15	33.3	< 0.1	< 0.5	3.2	23.0	269	134
AB18077R	1.1	1.5	0.2	0.9	0.2	0.10	0.2	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	14	0.09	5.7	0.1	< 0.5	5.5	43.8	328	61
AB18083R	6.8	12.0	1.9	8.3	1.6	0.43	1.6	1.6	0.2	0.4	1.1	0.2	1.2	0.2	527	2.11	17.1	0.2	16.7	2.9	9.7	> 10000	367
AB18084R	3.8	8.6	1.1	4.8	1.0	0.34	1.0	0.9	0.1	0.2	0.5	< 0.1	0.4	< 0.1	2620	4.82	9.5	0.3	85.9	6.7	19.6	> 10000	20
AB18085R	2.1	3.8	0.5	2.4	0.6	0.20	0.7	0.8	0.1	0.2	0.5	< 0.1	0.4	< 0.1	3050	2.07	16.8	< 0.1	2.3	4.3	8.0	335	138
AB18090R	5.0	11.7	1.5	6.9	1.5	0.46	1.6	1.5	0.2	0.3	0.9	0.1	0.8	0.1	1310	2.37	5.9	1.8	81.4	10.0	38.6	> 10000	33
AB18091R	8.7	18.0	2.6	11.6	2.7	0.67	3.0	3.2	0.5	0.7	2.0	0.3	1.9	0.2	51	0.87	9.5	0.1	19.5	8.5	37.8	309	588
AB18094RA	0.1	0.3	< 0.1	0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	4	0.36	110	< 0.1	< 0.5	3.1	4.6	85.7	15
AB18094RB	1.8	4.4	0.6	2.9	0.7	0.17	0.9	1.1	0.1	0.2	0.7	< 0.1	0.6	< 0.1	35	23.1	1950	0.5	0.6	31.0	70.6	52.1	125
AB18102R	4.1	8.1	1.2	5.1	1.1	0.22	1.3	1.4	0.2	0.3	1.1	0.2	1.4	0.2	9	2.08	380	0.1	49.2	145	101	103	73
AB18104R	18.7	40.0	4.9	21.4	4.3	1.32	4.3	3.7	0.6	0.7	2.1	0.3	1.8	0.2	< 2	0.26	8.2	2.0	11.1	7.9	220	3.0	650
AB18105R	2.5	7.0	1.0	4.7	1.0	0.28	1.1	1.0	0.2	0.2	0.6	< 0.1	0.5	< 0.1	336	1.80	4110	2.0	27.4	3.0	141	76.9	65
AB18107R	4.3	12.7	1.7	7.5	1.4	0.29	1.2	1.0	0.2	0.2	0.6	< 0.1	0.5	< 0.1	1720	6.33	> 10000	7.0	66.6	4.6	506	316	9
AB18108R	99.3	191	21.6	82.7	10.8	2.45	8.2	4.5	0.8	0.8	2.1	0.3	1.7	0.2	111	0.54	60.8	< 0.1	4.1	6.8	57.9	111	131
AB18110R	28.9	53.7	5.6	20.8	3.4	0.76	3.3	2.9	0.5	0.6	1.7	0.3	1.7	0.2	4	0.20	117	1.4	7.2	2.5	160	14.0	1170
AB18111R	28.5	58.1	6.3	23.5	3.7	1.03	3.2	2.9	0.4	0.6	1.9	0.3	2.0	0.3	15	0.36	10.0	0.2	13.4	2.7	39.0	29.8	120
AB18113R	2.2	8.4	1.4	6.7	1.5	0.47	1.5	1.3	0.2	0.2	0.7	0.1	0.7	< 0.1	< 2	0.12	6.5	< 0.1	< 0.5	0.7	7.3	11.8	226
AB18128RA	26.8	46.9	5.2	20.7	3.6	1.04	3.6	3.1	0.5	0.6	1.9	0.3	1.7	0.2	< 2	1.15	66.8	81.8	24.2	38.0	13700	13.4	2620
AB18128RB	26.6	53.8	6.2	25.4	4.6	1.33	4.7	4.2	0.7	0.8	2.4	0.4	2.2	0.3	< 2	0.32	66.7	0.4	16.8	40.6	143	10.9	1380
KD18-006R	38.6	72.3	7.5	27.8	4.6	1.19	3.7	2.8	0.5	0.5	1.7	0.3	1.8	0.2	< 2	1.78	78.6	1.4	62.7	1.8	210	33.5	3700
KD18-021R	21.9	47.7	5.7	23.7	4.4	1.23	4.0	3.4	0.5	0.7	2.3	0.4	2.3	0.3	< 2	2.54	22.3	3.5	335	9.9	324	192	238
KD18-022R	17.9	37.7	4.3	16.8	2.0	0.44	1.4	1.8	0.2	0.4	1.6	0.3	1.9	0.3	< 2	5.82	30.3	0.3	1000	3.0	37.5	302	75
KD18-023R	16.2	33.3	3.6	13.2	1.7	0.38	1.0	1.4	0.2	0.3	1.3	0.2	1.6	0.2	< 2	5.12	23.2	2.1	745	3.3	57.8	98.3	146
KD18-024R	29.2	54.9	6.1	23.3	3.7	0.99	3.2	2.2	0.4	0.4	1.2	0.2	1.2	0.2	< 2	0.37	12.9	2.6	13.3	2.2	121	494	3020
KD18-039R	20.1	39.5	4.7	20.4	4.1	1.22	3.9	3.5	0.6	0.7	2.1	0.3	1.8	0.2	< 2	0.29	218	1.4	2.6	5.2	140	10.4	3070
KD18-042R	22.4	49.9	6.1	26.4	5.2	1.27	4.9	4.0	0.7	0.8	2.3	0.3	2.1	0.3	41	2.13	1300	1.0	119	6.6	302	12.4	374
KD18-054R	19.9	36.0	4.2	15.5	2.6	0.58	2.5	1.9	0.3	0.4	1.2	0.2	1.3	0.2	13	0.69	14.6	0.9	14.8	1.6	73.6	18.4	177
KD18-057R	13.8	24.5	2.8	11.2	2.0	0.53	2.0	1.8	0.3	0.4	1.1	0.2	1.3	0.2	< 2	0.21	17.7	0.1	< 0.5	4.4	28.4	15.9	967

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	INAA	MULT I NAA/T D- ICP- MS
KD18-062R	11.8	24.4	2.8	11.9	2.4	0.76	2.6	2.5	0.4	0.5	1.5	0.2	1.3	0.2	< 2	1.07	49.8	7.7	294	6.0	1150	521	22
KD18-063R	12.3	24.8	2.9	11.9	2.4	0.77	2.5	2.3	0.4	0.5	1.2	0.2	0.9	0.1	6	3.27	959	< 0.1	11.5	9.9	22.9	183	20
KD18-067R	2.5	9.2	1.3	5.3	0.9	0.22	0.7	0.9	0.1	0.2	0.7	0.1	0.9	0.1	< 2	1.04	11.9	0.1	9.6	4.0	14.5	425	34
KD18-067AR	9.0	24.3	2.8	10.2	1.4	0.39	1.0	1.0	0.1	0.2	0.8	0.1	0.9	0.1	< 2	41.0	27.3	0.3	499	1.0	22.2	220	17
KD18-071R	2.1	3.4	0.4	1.4	0.2	0.06	0.3	0.2	< 0.1	< 0.1	0.2	< 0.1	0.1	< 0.1	< 2	3.06	28.5	11.9	25.1	1.2	290	69.7	136
KD18-088R	7.0	14.0	1.8	8.4	2.0	0.69	2.5	2.5	0.4	0.5	1.6	0.2	1.4	0.2	< 2	0.28	69.8	< 0.1	< 0.5	24.5	51.3	4.2	1490
KD18-094R	7.6	14.6	2.3	10.3	2.4	1.24	3.0	2.9	0.5	0.6	1.5	0.2	1.2	0.1	5	0.34	61.9	0.7	< 0.5	24.4	112	15.9	540
KD18-099R	11.5	20.0	3.3	14.3	2.8	0.52	2.8	2.9	0.4	0.6	2.0	0.3	2.1	0.3	29	1.20	79.7	< 0.1	7.1	64.3	31.6	29.0	57
KD18-107AR	12.7	19.1	2.9	12.0	2.3	1.00	2.7	2.7	0.4	0.6	1.7	0.3	1.7	0.3	21	1.70	26.9	0.3	23.1	64.4	43.2	58.0	137
KD18-107R	6.0	9.6	1.5	6.7	1.4	0.69	1.7	1.9	0.3	0.4	1.2	0.2	1.0	0.1	< 2	0.43	15.8	< 0.1	< 0.5	25.2	16.7	14.9	195
KD18-110AR	17.5	26.9	3.9	15.7	3.0	1.80	3.8	4.3	0.6	0.9	2.8	0.4	2.7	0.4	4	0.36	18.8	0.1	< 0.5	36.2	15.3	16.3	119
KD18-110R	3.2	4.6	0.6	2.7	0.5	0.26	0.6	0.7	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1	2	0.39	22.5	< 0.1	< 0.5	33.8	15.0	14.4	149
KD18-119R	4.8	19.6	3.2	14.1	2.7	0.53	2.5	2.7	0.4	0.6	1.8	0.3	1.8	0.2	< 2	2.60	166	< 0.1	0.8	1.2	8.1	114	17
KD18-128R	1.4	2.7	0.3	1.4	0.3	0.61	0.3	0.3	< 0.1	< 0.1	0.2	< 0.1	0.1	< 0.1	83	1.65	623	1.9	17.4	34.0	214	723	49
KD18-139R	27.5	63.0	7.5	31.2	5.8	1.47	5.3	4.7	0.7	1.0	2.9	0.4	2.7	0.4	24	2.80	17.1	2.4	193	1.5	633	69.8	163
KD18-139AR	30.3	71.3	8.8	37.6	7.0	1.74	6.2	4.8	0.8	0.9	2.7	0.4	2.5	0.3	3	0.81	9.0	0.9	42.9	1.7	147	35.0	224
KD18-140R	43.6	94.0	10.8	44.7	8.4	2.27	7.1	5.5	0.9	1.1	3.3	0.5	3.4	0.5	11	1.51	24.5	0.6	109	2.0	229	94.4	6380
KD18-156R	14.0	29.5	3.5	14.2	3.1	1.34	3.4	2.9	0.5	0.5	1.3	0.2	1.0	0.1	< 2	0.43	43.5	0.8	12.0	8.5	98.2	34.9	7750
KD18-162R	11.7	24.2	2.9	12.2	2.4	0.52	2.6	2.9	0.4	0.6	1.9	0.3	2.1	0.3	156	1.54	404	< 0.1	153	6.5	18.1	446	2000
KD18-166R	2.2	4.3	0.5	2.2	0.5	0.24	0.6	0.7	0.1	0.2	0.5	< 0.1	0.4	< 0.1	< 2	0.77	50.9	0.2	8.0	5.5	43.9	6.7	329
KD18-167R	0.4	0.9	< 0.1	0.4	0.1	< 0.05	0.1	0.2	< 0.1	< 0.1	0.1	< 0.1	0.1	< 0.1	5	0.20	23.7	0.2	11.1	1.8	22.9	5.1	37
KD18-170R	4.0	9.3	1.2	5.6	1.3	0.35	1.6	1.7	0.3	0.4	1.1	0.1	0.9	0.1	17	0.52	294	0.2	< 0.5	14.5	50.3	9.9	629
KD18-172R	2.0	3.9	0.5	2.4	0.5	0.07	0.4	0.3	< 0.1	< 0.1	0.2	< 0.1	0.3	< 0.1	74	8.02	211	5.0	44.8	6.6	493	312	134
KD18-176R	7.4	15.6	1.9	8.7	1.9	0.69	2.1	2.1	0.3	0.4	1.2	0.2	1.0	0.1	1160	5.50	287	20.2	267	39.6	2490	1800	87
KD18-177R	3.9	7.5	0.9	3.8	0.8	0.39	0.8	0.8	0.1	0.2	0.4	< 0.1	0.4	< 0.1	156	1.27	44.9	0.4	32.2	15.0	71.7	315	68
KD18-181R	1.7	3.7	0.5	2.0	0.4	0.13	0.4	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1	2240	17.5	264	573	2660	22.7	37400	87.4	33
KD18-182R	3.0	8.8	1.4	7.0	1.8	0.45	2.0	1.8	0.3	0.4	1.0	0.1	0.8	0.1	802	2.13	118	1.6	26.1	178	138	178	41
KD18-185R	3.7	7.4	0.8	3.3	0.6	0.15	0.7	0.6	< 0.1	0.1	0.3	< 0.1	0.4	< 0.1	99	0.52	9.3	0.4	17.4	9.5	50.4	14.4	856
KD18-196AR	14.6	29.8	3.4	13.7	2.5	0.41	2.8	3.8	0.5	1.0	3.4	0.6	4.0	0.6	5	0.51	26.3	< 0.1	8.9	1.2	73.8	56.3	1920
KD18-196BR	8.6	19.4	2.3	9.7	2.1	0.35	2.4	3.7	0.5	0.9	3.1	0.5	3.5	0.5	< 2	0.56	12.0	0.6	21.5	6.6	49.6	52.6	143
KD18-196CR	1.2	3.2	0.3	1.3	0.4	0.08	0.4	0.6	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1	< 2	0.14	3.5	< 0.1	< 0.5	1.0	18.6	5.4	633
KD18-199R	10.0	9.7	1.7	6.2	0.9	0.11	1.1	1.1	0.2	0.2	0.6	< 0.1	0.4	< 0.1	< 2	0.10	1.7	0.1	< 0.5	9.7	31.4	35.4	85
KD18-202R	6.4	11.9	1.3	5.1	0.9	0.22	0.8	0.7	0.1	0.1	0.4	< 0.1	0.4	< 0.1	< 2	0.15	114	< 0.1	< 0.5	3.7	18.7	60.7	162
KD18-205R	5.6	21.1	2.3	10.6	2.0	0.96	1.6	0.6	0.1	< 0.1	0.2	< 0.1	0.1	< 0.1	23	418	865	21.9	> 5000	1.5	2240	6.7	280
KD18-206R	0.4	1.1	0.1	0.6	0.1	0.06	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2	327	323	6.2	31.4	0.8	766	3.7	> 100000
KD18-207R	2.3	4.0	0.5	2.0	0.4	0.09	0.3	0.3	< 0.1	< 0.1	0.1	< 0.1	0.1	< 0.1	12	25.8	149	18.0	969	1.4	2640	7.5	434
KD18-211R	22.5	45.7	5.2	20.5	3.8	0.97	3.8	3.8	0.6	0.8	2.3	0.3	2.2	0.3	< 2	1.23	180	0.3	17.1	4.9	316	3.7	135
AW18-016	3.9	6.8	0.7	2.5	0.4	0.24	0.5	0.8	< 0.1	0.2	0.6	< 0.1	0.6	< 0.1	40	14.1	41.5	< 0.1	67.6	1.5	90.5	63.2	519

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	INAA	MULT I NAA/T D- ICP- MS
AW18-017	25.7	47.6	4.8	17.0	2.2	0.76	1.9	1.8	0.3	0.4	1.4	0.2	1.6	0.2	< 2	1.28	273	0.3	1080	0.6	65.1	60.6	2220
AW18-020	13.8	30.6	3.0	11.8	2.1	0.55	2.1	2.5	0.3	0.6	1.8	0.3	1.9	0.3	< 2	1.68	9.6	1.2	48.7	1.9	173	24.4	2400
AW18-030	32.9	60.3	6.1	21.5	3.2	0.41	2.2	1.3	0.2	0.3	1.0	0.2	1.2	0.2	< 2	2.83	5.7	< 0.1	177	0.7	9.5	98.0	1920
AW18-032	25.3	46.8	4.5	15.7	2.4	0.54	2.1	1.7	0.3	0.4	1.2	0.2	1.2	0.1	< 2	0.88	4.8	0.6	26.6	1.4	74.7	45.4	2840
AW18-034	1.2	3.1	0.4	2.0	0.4	0.17	0.5	0.9	0.1	0.2	0.7	0.1	0.8	0.1	< 2	6.69	11.7	3.8	735	1.8	228	106	14
AW18-035	5.4	19.0	3.1	14.2	1.8	0.48	1.3	2.1	0.2	0.5	1.9	0.3	2.3	0.3	< 2	9.37	255	26.7	1710	8.0	1010	527	11
AW18-038	0.9	2.5	0.5	3.0	0.9	0.33	1.0	1.6	0.2	0.4	1.3	0.2	1.4	0.2	< 2	14.8	38.4	3.3	1080	11.5	462	369	19
AW18-041	32.5	59.8	6.3	23.1	3.9	0.95	3.4	2.6	0.4	0.5	1.5	0.2	1.4	0.2	< 2	0.56	1.8	0.2	28.4	1.7	70.9	18.3	2220
AW18-043	13.6	45.2	6.1	24.4	4.0	1.01	3.3	3.2	0.5	0.7	2.4	0.4	2.8	0.4	< 2	3.28	11.5	1.5	110	2.5	308	1870	30
AW18-053	1.3	2.5	0.3	1.1	0.2	< 0.05	0.2	0.2	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	1300	2.99	2480	0.5	0.9	1.3	72.3	25.2	16
AW18-063	9.1	19.6	2.1	8.4	1.5	0.25	1.3	1.1	0.2	0.2	0.7	0.1	0.8	0.1	14	0.40	2.3	< 0.1	< 0.5	1.1	< 0.5	7.5	49
AW18-069	8.6	21.6	2.2	9.0	1.6	0.24	1.5	1.1	0.2	0.2	0.8	0.1	0.9	0.1	< 2	0.57	2.2	< 0.1	< 0.5	0.9	4.8	3.8	74
AW18-089	1.8	5.0	0.7	3.2	0.9	0.32	1.2	1.9	0.2	0.5	1.6	0.3	1.9	0.3	5	1.68	5.0	< 0.1	44.3	2.0	53.1	14.6	66
AW18-095	4.5	20.0	3.2	13.3	2.0	0.50	1.5	1.3	0.2	0.3	0.8	0.1	0.9	0.1	7	3.61	9.8	0.7	337	6.1	128	1760	25
AW18-101	18.9	59.3	7.3	28.6	4.7	1.10	4.7	5.0	0.7	1.1	3.2	0.5	2.9	0.4	74	12.1	128	1.9	102	2.3	337	478	15
AW18-102	< 0.1	1.7	0.1	0.6	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2	> 10000	> 10000	593	> 5000	< 0.5	16100	3080	12
AW18-103	10.1	28.9	3.4	12.5	1.9	0.42	1.6	1.5	0.2	0.3	1.1	0.2	1.3	0.2	< 2	2.43	14.4	0.3	109	1.8	44.4	2490	18
AW18-104	9.0	28.0	3.6	14.1	2.3	0.64	1.9	1.8	0.2	0.4	1.2	0.2	1.4	0.2	< 2	18.7	63.7	0.5	784	1.0	14.8	121	26
AW18-107	8.2	17.9	1.9	7.6	1.3	0.28	1.3	1.3	0.2	0.3	0.9	0.1	1.0	0.1	< 2	0.62	12.3	0.4	13.8	0.9	88.2	139	646
AW18-112	1.0	2.9	0.6	3.7	0.9	0.29	1.1	1.2	0.2	0.3	0.8	0.1	0.8	0.1	< 2	9.85	46.2	3.8	1310	3.8	900	1520	10
AW18-113	4.5	10.2	1.2	5.1	1.1	0.27	1.3	1.8	0.2	0.4	1.4	0.2	1.4	0.2	< 2	1.71	562	< 0.1	9.3	4.5	21.6	157	10
AW18-117	0.9	1.8	0.2	0.8	0.2	0.05	0.2	0.2	< 0.1	< 0.1	0.1	< 0.1	0.2	< 0.1	< 2	0.52	412	< 0.1	10.1	1.8	19.1	10.9	57
AW18-119	18.7	33.5	3.7	15.3	2.7	0.67	2.8	2.2	0.4	0.4	1.1	0.1	0.8	< 0.1	< 2	3.78	1120	0.3	56.1	3.2	61.8	378	28
AW18-135	2.6	6.8	0.9	4.1	0.8	0.19	0.7	0.6	< 0.1	0.1	0.3	< 0.1	0.3	< 0.1	3	1.93	42.4	2.0	93.9	1.3	130	343	14
AW18-145	14.7	31.2	4.0	17.5	3.5	0.88	3.6	3.4	0.5	0.7	1.9	0.3	1.8	0.2	< 2	0.25	45.1	< 0.1	< 0.5	32.0	11.1	7.7	266
AW18-161	1.9	9.1	1.6	8.7	2.3	0.46	3.1	3.8	0.5	0.9	2.6	0.4	2.4	0.3	30	2.79	387	< 0.1	29.9	25.0	48.5	353	19
AW18-176	10.7	16.7	2.7	12.3	2.6	0.87	2.9	2.9	0.4	0.6	1.7	0.2	1.5	0.2	13	0.87	200	0.6	4.4	111	137	18.8	274
AW18-177	21.2	33.0	5.0	21.6	4.6	2.95	5.7	6.6	0.9	1.3	3.6	0.5	2.9	0.4	9	2.69	1830	0.1	< 0.5	70.3	11.0	132	35
AW18-181	26.7	68.3	9.6	42.9	9.3	3.36	10.7	11.5	1.7	2.2	5.6	0.7	3.6	0.4	13	0.38	77.5	1.3	3.2	9.8	188	51.4	4780
AW18-188	4.1	8.9	1.3	5.7	1.3	0.34	1.5	1.7	0.2	0.3	0.9	0.1	0.8	< 0.1	< 2	0.21	22.5	< 0.1	2.0	11.7	13.3	3.4	89
AW18-197	34.0	67.4	7.4	29.1	4.8	1.81	4.4	2.7	0.5	0.5	1.1	0.1	0.8	0.1	10	2.79	833	0.9	66.4	7.3	105	273	17
AW18-198	5.9	11.6	1.3	5.3	0.9	0.47	0.8	0.5	< 0.1	0.1	0.3	< 0.1	0.2	< 0.1	2	29.0	287	0.7	252	6.2	121	100	10
AW18-199	6.3	13.5	1.7	7.5	1.7	0.69	1.9	1.7	0.3	0.3	0.8	0.1	0.7	< 0.1	43	840	2150	1190	> 5000	8.1	36700	793	51
AW18-200	4.7	9.3	1.1	4.3	0.8	0.42	0.8	0.6	0.1	0.1	0.3	< 0.1	0.2	< 0.1	< 2	71.6	17.5	162	> 5000	4.7	6470	238	33
AW18-201R	1.5	2.5	0.3	1.2	0.2	0.25	0.2	0.2	< 0.1	< 0.1	0.1	< 0.1	0.1	< 0.1	< 2	98.3	437	62.0	2000	3.0	2560	688	30
AW18-202R	16.2	35.2	4.4	19.3	4.1	1.53	4.2	3.4	0.6	0.6	1.7	0.2	1.3	0.2	< 2	14.4	41.3	4.1	1720	9.4	215	29.4	246
AW18-223R	161	286	31.8	129	21.2	6.23	15.6	5.5	1.3	0.9	2.6	0.4	2.3	0.3	2	1.81	12.6	3.7	150	2.6	382	11.3	4350
AW18-224R	18.6	47.9	5.4	24.0	5.0	1.23	4.7	3.7	0.6	0.7	2.2	0.3	2.0	0.2	5	0.52	11.0	1.3	56.6	1.5	132	4.5	4530
AW18-225R	30.8	64.3	7.7	33.3	6.6	1.92	5.9	4.5	0.8	0.9	2.6	0.4	2.4	0.3	3	0.86	22.7	2.5	75.3	2.8	277	13.6	4920

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	INAA	MULT I NAA/T D- ICP- MS
AW18-226R	28.7	66.5	7.5	31.6	6.2	1.53	6.1	5.0	0.8	1.0	3.0	0.4	2.3	0.3	6	0.42	4.5	2.3	36.3	1.7	290	11.6	5420
AW18-227R	25.3	58.9	6.9	28.8	5.5	1.29	5.2	4.4	0.7	0.9	2.6	0.4	2.1	0.2	7	0.97	5.7	6.5	178	2.8	1050	17.9	6130
AW18-240R	3.2	5.5	0.6	2.4	0.4	0.27	0.4	0.3	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	8	1.30	127	1070	60.1	3.9	40000	34.8	24
AW18-246R	0.6	1.2	0.1	0.5	< 0.1	0.07	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	2	0.27	4.4	0.6	10.5	4.2	27.3	101	37
AW18-250R	33.2	66.6	7.9	32.9	6.0	2.15	5.6	4.4	0.7	0.9	2.5	0.3	2.1	0.3	< 2	0.27	23.7	5.3	44.9	6.6	335	32.2	106
AW18-263R	6.3	13.1	1.5	6.2	1.2	0.25	1.3	1.5	0.2	0.3	1.2	0.2	1.3	0.2	54	26.6	4580	4.8	1430	2.4	389	202	42
AW18-264R	35.0	62.7	6.8	26.2	4.3	0.85	3.7	2.3	0.4	0.5	1.3	0.2	1.3	0.2	< 2	0.50	8.5	1.1	2.3	0.8	66.6	22.2	244
AW18-267R	3.9	7.1	0.9	4.2	1.1	0.73	1.4	1.6	0.2	0.3	1.1	0.2	1.0	0.1	< 2	0.76	181	0.1	13.5	15.5	68.1	13.8	332
AW18-274R	13.2	25.8	3.2	14.4	3.0	1.21	3.1	2.6	0.4	0.5	1.3	0.2	1.1	0.1	< 2	0.92	55.8	0.3	16.4	11.4	83.5	19.3	223
AW18-276R	2.1	4.2	0.7	3.1	0.7	0.24	0.8	0.8	0.1	0.2	0.5	< 0.1	0.5	< 0.1	205	4.14	24.6	2.8	39.3	5.8	170	> 10000	98
AW18-280R	4.9	13.3	1.8	7.6	1.5	0.40	1.2	0.9	0.1	0.2	0.5	< 0.1	0.5	< 0.1	1230	199	1070	314	> 5000	87.6	26200	1100	3
AW18-281R	8.2	15.9	1.7	6.7	1.3	0.36	1.2	0.9	0.2	0.2	0.6	< 0.1	0.6	< 0.1	24	1.08	7.8	0.3	25.9	4.5	136	32.8	651
AW18-282R	7.8	15.0	1.6	6.6	1.1	0.27	1.0	0.8	0.1	0.2	0.5	< 0.1	0.6	< 0.1	19	0.73	72.4	0.6	194	5.4	80.4	30.1	532
AW18-287R	4.8	13.4	1.8	8.6	1.8	0.38	1.9	2.0	0.3	0.4	1.2	0.2	1.1	0.1	193	2.87	49.3	0.1	24.4	22.3	42.7	271	48
AW18-289R	1.2	4.9	0.9	4.8	1.0	0.23	0.9	0.9	0.1	0.2	0.6	< 0.1	0.6	< 0.1	1960	2.25	79.2	0.6	38.0	110	56.9	338	36
AW18-295R	9.2	21.9	2.9	13.2	2.9	1.14	3.3	3.1	0.5	0.6	1.8	0.2	1.5	0.2	< 2	0.77	180	0.2	8.4	54.2	93.2	7.3	233
AW18-300R	13.3	50.6	7.9	38.2	9.3	2.80	11.0	11.7	1.7	2.4	6.7	0.9	5.3	0.7	1620	2.71	126	0.3	11.3	1.2	93.6	4.7	41
AW18-308R	24.4	47.2	5.4	21.6	4.1	0.57	4.1	4.5	0.6	1.1	3.8	0.6	4.4	0.7	4	0.58	23.7	< 0.1	11.5	1.1	8.6	11.8	1360
AW18-309R	12.1	28.0	3.5	14.4	2.3	0.53	1.9	1.4	0.2	0.3	1.0	0.2	1.2	0.2	11	0.42	78.2	< 0.1	8.0	2.8	17.4	118	37
AW18-310R	25.6	55.6	6.9	29.2	5.4	1.14	5.0	3.9	0.6	0.8	2.4	0.4	2.3	0.3	4	0.41	785	1.0	0.8	4.4	99.2	8.4	1540
AW18-311R	2.7	11.4	2.3	12.9	3.6	1.18	4.1	4.3	0.7	0.8	2.2	0.3	1.7	0.2	< 2	114	1620	1650	4050	10.2	59600	65.6	26
AW18-312R	3.8	6.5	0.6	2.4	0.4	0.07	0.4	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1	< 2	0.82	48.9	1.2	14.4	1.5	50.0	41.9	76
AW18-313R	19.0	37.0	4.2	16.8	3.2	0.88	2.9	2.7	0.4	0.6	1.6	0.2	1.6	0.2	4	0.36	37.4	0.8	1.9	5.8	56.3	17.5	116
AW18-315R	0.8	2.9	0.5	2.4	0.5	0.12	0.6	0.6	< 0.1	0.1	0.5	< 0.1	0.6	< 0.1	837	1.87	32.1	0.6	32.4	3.8	25.3	578	16
AW18-318R	25.6	53.7	6.3	25.4	4.5	0.86	4.0	3.1	0.5	0.6	1.9	0.3	1.8	0.2	13	0.46	13.4	0.5	5.3	1.3	53.0	54.8	2320
AW18-320R	6.4	12.1	1.3	5.2	0.9	0.25	0.9	0.7	0.1	0.1	0.4	< 0.1	0.4	< 0.1	< 2	0.12	36.1	< 0.1	2.4	3.9	17.3	43.8	18
LT18-011R	13.5	20.2	1.9	6.7	0.9	0.30	0.7	0.9	0.1	0.2	0.6	< 0.1	0.6	< 0.1	11	6.38	21.5	0.1	74.4	1.9	33.7	48.5	373
LT18-012R	17.2	29.8	3.1	11.2	2.0	0.61	2.1	2.1	0.3	0.5	1.5	0.2	1.3	0.2	< 2	13.5	43.6	0.2	353	1.7	370	46.4	695
LT18-015R	9.2	17.0	1.7	5.5	0.7	0.27	0.5	0.6	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1	< 2	16.4	6.1	< 0.1	296	2.6	21.5	64.7	185
LT18-022R	26.0	49.2	5.6	21.6	3.9	1.07	3.9	3.4	0.5	0.7	2.0	0.3	1.8	0.3	< 2	0.77	4.6	0.4	38.1	2.9	104	6.4	3510
LT18-027R	3.6	9.6	1.7	7.7	2.3	0.64	2.9	2.8	0.5	0.5	1.5	0.2	1.4	0.2	< 2	3.64	12.4	6.6	158	4.5	319	342	36
LT18-028R	14.7	29.4	4.1	18.2	4.3	1.68	4.9	3.7	0.7	0.7	1.9	0.3	1.6	0.2	< 2	1.79	16.8	0.3	60.8	9.6	85.7	115	387
LT18-029R	14.9	35.1	4.2	14.9	1.8	0.54	1.4	1.7	0.2	0.4	1.3	0.2	1.5	0.2	< 2	3.57	16.0	3.1	294	4.6	215	215	66
LT18-030R	41.5	79.2	8.9	33.0	5.8	1.44	5.3	4.6	0.8	0.9	2.9	0.5	2.7	0.4	< 2	0.61	5.4	< 0.1	9.0	2.9	43.3	4.8	2430
LT18-034R	23.8	46.7	5.5	19.9	3.6	0.86	3.1	2.9	0.4	0.6	2.2	0.4	2.4	0.4	< 2	1.23	5.7	1.0	73.4	3.6	61.9	238	226
LT18-050R	17.6	46.7	4.1	16.1	3.1	0.77	3.1	2.8	0.5	0.6	2.0	0.3	2.2	0.3	< 2	3.98	2.8	< 0.1	55.5	4.7	59.6	9.1	148
LT18-051R	87.1	147	15.6	56.8	9.9	2.27	8.0	4.8	0.9	0.9	3.0	0.5	2.9	0.5	4	0.84	6.7	< 0.1	14.7	3.2	17.4	2.1	487
LT18-057R	31.5	55.3	6.3	25.1	4.8	1.66	4.7	3.7	0.6	0.7	2.2	0.3	1.9	0.2	< 2	0.74	439	0.5	8.5	4.9	124	2.6	4200
LT18-058R	26.0	52.4	6.2	24.9	4.7	1.20	4.5	3.6	0.6	0.7	2.3	0.4	2.4	0.4	42	2.65	592	0.3	12.5	5.8	157	18.6	219

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	INAA	MULT I NAA/T D- ICP- MS
LT18-076R	22.7	56.2	7.1	28.6	5.0	1.16	4.3	2.5	0.5	0.4	1.3	0.2	1.3	0.2	< 2	0.96	6.0	< 0.1	27.5	2.6	112	16.3	27
LT18-077R	28.6	48.5	5.2	18.3	3.0	0.77	2.9	2.3	0.4	0.5	1.3	0.2	1.4	0.2	< 2	0.98	14.6	3.6	49.7	4.4	125	42.1	1450
LT18-098R	4.1	8.0	1.0	4.4	1.1	0.53	1.4	1.5	0.2	0.3	0.9	0.1	0.8	0.1	11	2.94	689	3.5	50.0	7.0	450	239	42
LT18-099AR	3.4	6.4	0.7	3.2	0.7	0.29	0.8	0.8	0.1	0.2	0.5	< 0.1	0.4	< 0.1	< 2	1.59	167	0.5	23.4	4.6	86.7	137	68
LT18-099BR	3.7	8.3	1.1	4.5	1.0	0.26	0.9	1.0	0.1	0.2	0.7	0.1	0.7	0.1	13	1.91	265	2.4	302	2.5	378	1850	14
LT18-102AR	3.8	6.2	0.7	2.9	0.5	0.29	0.7	0.7	0.1	0.1	0.4	< 0.1	0.3	< 0.1	< 2	5.57	950	9.1	65.6	< 0.5	1320	565	26
LT18-102BR	3.1	4.8	0.5	1.9	0.4	0.09	0.4	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1	5	6.11	1050	1.8	27.3	0.6	282	211	38
LT18-106R	3.1	5.9	0.7	2.9	0.6	0.20	0.7	0.7	0.1	0.1	0.4	< 0.1	0.4	< 0.1	< 2	1.63	14.3	0.6	193	1.3	135	153	166
LT18-111R	5.7	9.8	1.1	4.4	0.9	0.45	0.9	0.9	0.2	0.2	0.5	< 0.1	0.5	< 0.1	< 2	2.03	12.3	1.3	139	< 0.5	164	176	243
LT18-131R	5.0	9.9	1.2	4.7	0.9	0.13	1.0	0.9	0.1	0.2	0.5	< 0.1	0.5	< 0.1	< 2	1.70	1150	0.2	9.9	16.0	18.8	1500	17
LT18-140R	13.7	28.9	3.7	16.3	3.5	0.83	4.0	3.9	0.6	0.8	2.4	0.4	2.3	0.3	6	0.62	34.5	0.7	25.3	6.8	59.7	78.4	71
LT18-142R	8.6	17.4	2.1	8.5	1.7	0.70	1.8	1.9	0.3	0.4	1.2	0.2	0.9	0.1	9	1.72	289	< 0.1	81.0	8.6	27.8	196	43
LT18-143R	3.9	7.3	0.9	3.8	0.8	0.35	1.0	0.9	0.2	0.2	0.5	< 0.1	0.3	< 0.1	< 2	7.59	283	0.6	96.2	10.1	135	679	24
LT18-145R	7.7	16.3	2.0	8.6	1.8	0.41	2.1	1.4	0.3	0.3	0.7	< 0.1	0.5	< 0.1	85	79.9	481	4.2	1990	6.3	321	765	10
LT18-162R	7.8	22.8	3.6	15.9	3.4	0.89	3.8	3.7	0.6	0.8	2.5	0.4	2.6	0.4	< 2	0.85	29.3	0.4	25.0	1.7	75.8	19.7	> 100000
LT18-164R	8.0	23.3	4.7	27.7	6.2	1.88	5.6	3.8	0.7	0.7	2.0	0.3	1.6	0.2	< 2	0.77	5.8	0.4	12.0	1.1	58.2	4.2	> 100000
LT18-170R	2.4	4.2	0.5	1.6	0.3	0.19	0.3	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1	< 2	0.40	15.5	< 0.1	5.8	3.3	26.4	34.1	139
LT18-174R	17.5	39.5	4.9	20.4	3.9	1.24	3.9	3.5	0.6	0.7	2.0	0.3	1.8	0.3	20	0.60	82.8	< 0.1	12.7	3.8	60.5	27.7	3000
LT18-178R	11.4	19.7	2.1	7.4	1.2	0.34	1.2	1.3	0.2	0.3	0.9	0.2	1.1	0.2	< 2	0.36	2.0	< 0.1	1.4	1.2	6.5	1.0	2670
LT18-178AR	14.8	20.5	1.8	5.8	1.0	0.36	1.0	1.0	0.1	0.2	0.8	0.2	1.1	0.2	206	0.77	39.6	< 0.1	23.8	< 0.5	7.0	51.9	1300
LT18-188R	7.5	16.5	2.1	8.6	1.8	0.28	2.1	2.6	0.4	0.6	2.0	0.4	2.4	0.4	33	0.46	11.3	< 0.1	8.9	2.1	28.3	41.3	139
LT18-209R	17.5	30.6	4.5	19.9	4.2	0.98	4.2	3.4	0.6	0.6	2.0	0.3	2.0	0.3	29	1.76	36.0	0.2	16.9	7.2	44.0	291	1190
LT18-210R	15.0	23.2	4.3	18.7	4.1	0.96	4.7	4.9	0.7	1.0	3.3	0.5	3.4	0.5	29	6.56	71.9	0.9	47.8	11.5	66.2	61.1	1130
LT18-211R	15.2	28.0	4.3	19.0	4.3	1.27	5.2	5.4	0.8	1.1	3.3	0.5	3.2	0.4	51	2.38	32.9	0.8	31.5	12.7	82.7	578	424
LT18-212AR	6.1	11.0	1.3	5.2	0.9	0.22	0.8	0.5	< 0.1	0.1	0.3	< 0.1	0.3	< 0.1	13500	118	96.3	0.8	> 5000	0.7	558	1140	295
LT18-212BR	0.6	1.1	0.1	0.5	0.1	< 0.05	0.1	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	9740	40.0	47.6	9.8	3300	7.8	1040	292	157
LT18-217R	2.9	5.9	0.8	3.5	0.8	0.39	1.1	1.3	0.2	0.3	0.8	0.1	0.7	< 0.1	3930	67.8	442	222	> 5000	59.3	19100	2430	28
LT18-224R	4.0	8.2	1.0	4.5	1.1	0.28	1.3	1.5	0.2	0.3	0.9	0.1	0.8	0.1	261	2.97	38.3	1.4	169	14.4	77.3	173	68
LT18-233R	4.4	9.3	1.3	6.0	1.4	0.42	1.6	1.6	0.3	0.3	1.0	0.2	0.8	0.1	136	2.93	48.7	1.5	303	9.5	112	45.9	170
LT18-249R	9.2	17.2	2.0	8.1	1.5	0.42	1.6	1.4	0.2	0.3	0.8	0.1	0.7	0.1	< 2	4.13	55.8	43.9	800	3.2	1720	15.8	186
LT18-250R	17.3	38.5	4.9	21.3	4.1	1.26	4.4	3.8	0.6	0.7	2.2	0.3	2.1	0.3	< 2	0.76	46.8	< 0.1	20.2	17.7	47.8	329	74
LT18-251R	14.4	33.4	3.9	15.4	2.6	0.66	2.2	2.1	0.3	0.4	1.4	0.3	1.7	0.3	21	0.71	220	0.1	13.6	2.5	17.5	69.6	63
LT18-252R	2.3	1.8	0.4	1.4	0.2	0.14	0.3	0.2	< 0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1	< 2	0.38	1.2	< 0.1	3.5	4.3	10.7	61.9	49
LT18-254R	26.3	53.3	6.6	26.7	4.9	1.49	5.3	4.4	0.7	0.9	2.5	0.4	2.3	0.3	< 2	0.35	47.3	< 0.1	5.4	7.6	20.8	31.8	222
LT18-256R	< 0.1	0.4	< 0.1	0.3	< 0.1	< 0.05	0.1	0.1	< 0.1	< 0.1	0.1	< 0.1	0.1	< 0.1	517	14.3	97.1	0.3	73.3	5.0	7.4	2260	7
LT18-257R	15.7	39.1	4.6	20.2	4.1	1.28	4.4	3.7	0.6	0.7	2.1	0.3	2.0	0.3	< 2	0.91	717	0.2	3.9	1.8	29.4	8.5	2630
LT18-258R	0.4	0.8	< 0.1	0.4	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 2	0.64	315	< 0.1	6.8	1.7	14.5	57.3	31
LT18-259R	55.7	116	13.5	53.7	10.1	3.31	9.1	7.1	1.3	1.2	3.3	0.5	2.8	0.4	8	3.23	1090	45.2	1730	3.7	3210	40.0	453

Analyte Symbol	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Cu	Cd	Pb	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	0.05	0.2	0.1	0.5	0.5	0.5	0.5	1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	INAA	MULT I NAA/T D-ICP- MS
LT18-260R	20.5	52.1	6.7	28.6	5.6	1.81	5.5	4.5	0.8	0.8	2.4	0.3	2.1	0.3	28	3.43	493	2.1	214	4.6	143	105	3020
LT18-261R	10.8	24.8	3.4	15.6	3.4	0.75	3.6	3.3	0.6	0.7	2.4	0.4	2.5	0.4	12	2.20	544	15.9	147	2.0	958	7.9	1300
LT18-263R	85.0	164	18.6	68.8	10.9	2.47	9.0	4.8	1.0	0.8	2.1	0.3	1.9	0.3	61	14.0	8350	33.4	107	2.1	627	158	198
LT18-283R	8.6	18.5	2.4	10.1	2.1	0.42	2.5	2.3	0.4	0.5	1.4	0.2	1.2	0.2	90	15.4	2630	9.0	24.2	5.6	465	37.4	79
LT18-284R	2.2	4.2	0.5	2.1	0.5	0.26	0.5	0.5	< 0.1	< 0.1	0.3	< 0.1	0.2	< 0.1	362	473	> 10000	90.5	78.6	8.8	7460	546	15
LT18-285R	2.0	3.7	0.4	1.5	0.3	0.06	0.3	0.2	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1	369	276	> 10000	13.9	77.1	1.1	993	99.3	30
LT18-287R	2.7	5.0	0.6	2.5	0.6	0.55	0.6	0.6	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1	84	84.9	> 10000	50.2	174	3.6	6220	84.1	50
LT18-290R	3.3	7.8	1.1	4.6	1.0	0.48	1.1	1.1	0.2	0.2	0.7	0.1	0.6	< 0.1	304	44.3	5530	12.9	19.9	4.6	852	65.7	51
LT18-292R	1.4	3.2	0.5	2.2	0.5	0.12	0.6	0.7	0.1	0.2	0.4	< 0.1	0.4	< 0.1	15	24.2	5290	1.9	31.6	107	183	5.8	13
LT18-293R	2.8	7.8	1.2	5.9	1.5	0.38	2.1	2.4	0.4	0.5	1.4	0.2	1.1	0.1	289	51.8	> 10000	32.0	10.9	31.3	1850	63.7	10

Analyte Symbol	Be	Bi	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.5	0.1	1	0.05	0.2	0.01	0.1	5	0.01	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	1	0.5	3	5
Method Code	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	INAA	INAA
PM18-055F	1.0	< 0.1	< 0.5	6.0	10	2.63	< 0.2	7.40	2.6	< 5	0.76	53.5	29.7	3.1	0.6	0.3	< 0.5	13.4	4.1	< 1	18.7	33	13
AB18003R	1.1	0.5	< 0.5	6.1	44	6.45	< 0.2	1.79	2.4	< 5	0.06	72.7	19.3	12.5	1.8	0.4	< 0.5	5.9	2.4	< 1	16.3	28	< 5
AB18021R	0.9	< 0.1	< 0.5	9.5	92	3.16	< 0.2	3.77	2.1	< 5	0.74	75.5	17.5	10.9	2.5	0.2	< 0.5	1.9	1.7	< 1	11.0	21	6
AB18022R	< 0.1	< 0.1	< 0.5	1.8	26	0.19	1.0	1.48	0.2	< 5	0.15	5.9	1.5	2.1	0.8	< 0.1	< 0.5	0.2	0.2	< 1	4.5	4	8
AB18032R	0.6	< 0.1	1.2	6.7	99	1.65	1.0	2.65	1.1	< 5	0.43	41.8	10.4	8.0	24.0	0.2	< 0.5	1.6	3.0	< 1	14.5	20	< 5
AB18043R	0.9	1.3	< 0.5	38.2	8	2.15	0.9	8.38	0.9	< 5	0.05	46.1	282	13.6	2.1	< 0.1	< 0.5	2.5	1.5	< 1	19.3	42	9
AB18047R	0.3	1.9	< 0.5	257	9	4.06	1.4	19.6	1.6	< 5	0.02	4.5	15.9	18.7	< 0.1	0.2	< 0.5	5.2	2.4	< 1	16.0	31	17
AB18049R	0.6	0.2	< 0.5	34.7	3	1.24	< 0.2	13.3	< 0.1	< 5	0.01	1.6	1.4	0.3	1.6	< 0.1	< 0.5	0.2	1.9	87	0.9	< 3	< 5
AB18057R	0.9	< 0.1	< 0.5	8.8	27	6.17	0.4	7.26	0.6	< 5	0.15	168	3.6	23.2	1.2	0.1	< 0.5	2.4	2.0	7	16.1	36	17
AB18060R	0.7	0.2	< 0.5	1.3	1	0.62	< 0.2	3.04	0.8	< 5	0.08	53.9	3.4	4.2	0.5	< 0.1	< 0.5	0.1	1.3	< 1	14.6	23	182
AB18072R	0.3	21.4	< 0.5	9.8	11	0.17	< 0.2	9.22	0.3	< 5	0.14	8.6	10.1	5.7	19.9	< 0.1	< 0.5	0.6	0.4	< 1	1.7	< 3	< 5
AB18075R	0.9	0.3	< 0.5	15.2	6	1.28	< 0.2	17.5	0.1	< 5	0.04	1.5	5.7	0.5	0.3	< 0.1	< 0.5	0.2	0.6	17	1.2	< 3	< 5
AB18077R	0.9	0.2	< 0.5	3.1	5	0.15	< 0.2	14.3	< 0.1	< 5	0.03	0.2	12.6	0.4	0.3	< 0.1	< 0.5	0.1	0.6	34	1.5	< 3	< 5
AB18083R	0.3	0.2	< 0.5	0.6	71	0.78	< 0.2	2.33	0.7	< 5	0.10	41.8	48.3	8.0	5.8	< 0.1	< 0.5	1.0	1.8	< 1	8.3	10	< 5
AB18084R	0.4	1.4	< 0.5	33.2	< 1	0.35	< 0.2	12.3	0.2	< 5	1.00	26.0	301	5.0	< 0.1	< 0.1	< 0.5	1.4	0.5	< 1	< 0.5	< 3	< 5
AB18085R	< 0.1	< 0.1	< 0.5	2.2	34	0.18	< 0.2	1.18	0.2	< 5	0.11	6.7	1.9	1.8	1.9	< 0.1	< 0.5	0.3	0.3	< 1	2.4	< 3	< 5
AB18090R	0.6	0.3	< 0.5	16.5	< 1	0.99	< 0.2	11.3	< 0.1	< 5	0.86	47.9	500	8.9	< 0.1	< 0.1	< 0.5	1.1	0.7	< 1	< 0.5	< 3	< 5
AB18091R	0.5	< 0.1	< 0.5	2.5	25	1.20	0.5	1.94	0.1	< 5	0.47	53.0	5.8	8.7	1.4	< 0.1	< 0.5	1.6	1.3	3	8.6	31	< 5
AB18094RA	< 0.1	< 0.1	< 0.5	3.1	28	0.09	< 0.2	0.97	< 0.1	< 5	0.03	1.4	0.5	0.7	0.3	< 0.1	< 0.5	0.2	< 0.1	< 1	< 0.5	< 3	< 5
AB18094RB	0.2	0.3	< 0.5	36.8	89	0.46	< 0.2	6.31	0.2	< 5	0.31	11.7	1.0	14.2	1.6	< 0.1	< 0.5	0.4	0.2	< 1	2.3	3	< 5
AB18102R	0.5	0.2	< 0.5	16.2	34	0.13	< 0.2	21.7	2.2	< 5	1.85	2.8	1.7	7.5	9.1	< 0.1	< 0.5	4.1	2.9	< 1	4.5	5	< 5
AB18104R	1.2	< 0.1	< 0.5	15.2	8	7.73	3.4	4.84	0.9	< 5	1.27	98.8	1.6	12.2	0.8	< 0.1	< 0.5	2.8	1.3	< 1	18.9	40	16
AB18105R	0.3	1.1	< 0.5	9.2	18	0.69	< 0.2	2.32	0.3	< 5	0.42	25.9	91.2	5.3	0.9	< 0.1	< 0.5	0.3	0.4	< 1	4.3	10	13
AB18107R	0.3	24.3	< 0.5	89.6	13	0.90	< 0.2	13.6	0.5	< 5	0.08	31.1	5.4	10.0	5.5	< 0.1	< 0.5	0.5	0.7	< 1	8.3	13	< 5
AB18108R	0.8	2.4	< 0.5	33.7	18	0.79	1.5	12.1	1.5	< 5	2.20	5.4	1.9	22.7	1.3	< 0.1	< 0.5	3.1	1.6	< 1	95.6	179	54
AB18110R	1.3	0.1	< 0.5	5.8	5	3.16	0.6	3.27	2.8	< 5	0.93	76.2	1.9	4.7	0.6	0.2	< 0.5	17.0	5.3	< 1	29.4	56	19
AB18111R	1.1	0.4	< 0.5	15.9	7	2.55	0.3	3.81	2.5	< 5	1.76	104	3.5	6.9	1.2	0.7	< 0.5	17.0	5.5	< 1	32.6	61	23
AB18113R	0.5	< 0.1	< 0.5	1.8	5	1.04	< 0.2	1.11	1.0	< 5	0.65	46.6	1.8	2.3	0.4	0.2	< 0.5	0.8	2.1	3	18.1	24	72
AB18128RA	2.1	2.3	< 0.5	33.4	56	7.76	0.3	6.40	0.4	< 5	0.89	87.6	2.0	13.6	1.6	< 0.1	< 0.5	7.3	4.4	< 1	29.8	53	18
AB18128RB	1.4	0.3	< 0.5	29.2	59	3.81	1.0	5.85	1.7	< 5	1.69	73.6	1.1	16.4	1.5	< 0.1	< 0.5	6.1	2.6	< 1	26.9	58	20
KD18-006R	0.6	< 0.1	< 0.5	3.9	21	4.56	0.5	2.98	3.3	< 5	0.22	116	11.1	6.9	0.6	0.4	< 0.5	24.8	4.9	< 1	39.0	71	23
KD18-021R	1.8	0.1	< 0.5	52.8	14	5.97	0.4	2.31	3.2	< 5	0.29	76.7	27.7	9.5	0.7	0.2	< 0.5	13.2	4.6	9	25.1	58	15
KD18-022R	0.9	< 0.1	< 0.5	17.8	8	2.58	< 0.2	2.38	4.3	< 5	1.02	38.8	33.6	4.0	0.7	0.4	< 0.5	24.0	6.2	< 1	29.9	53	19
KD18-023R	0.5	< 0.1	< 0.5	18.9	17	2.06	< 0.2	1.46	2.9	< 5	0.81	98.2	42.3	2.1	0.4	< 0.1	< 0.5	14.9	4.6	< 1	19.7	44	11
KD18-024R	0.7	< 0.1	< 0.5	1.6	33	2.04	0.3	2.05	< 0.1	< 5	0.14	43.9	13.1	4.3	0.3	< 0.1	< 0.5	16.8	4.8	11	31.1	60	18
KD18-039R	1.2	< 0.1	< 0.5	17.5	10	1.80	1.1	8.77	< 0.1	< 5	0.89	69.9	1.8	17.5	0.6	< 0.1	< 0.5	7.4	2.6	< 1	21.0	44	15
KD18-042R	1.1	0.4	< 0.5	18.0	9	2.76	1.0	11.1	2.4	< 5	0.89	124	4.3	17.9	0.8	0.2	< 0.5	7.3	3.1	< 1	22.7	54	17
KD18-054R	0.6	< 0.1	< 0.5	2.0	35	1.29	< 0.2	1.34	1.7	< 5	3.62	87.2	3.7	4.1	0.5	0.6	< 0.5	20.8	5.6	< 1	18.8	26	< 5
KD18-057R	1.2	< 0.1	< 0.5	4.9	9	1.51	0.2	2.79	1.8	< 5	2.08	58.9	1.5	5.8	0.6	0.4	< 0.5	9.8	3.6	< 1	20.1	29	6
KD18-062R	0.6	0.1	< 0.5	7.2	5	2.68	0.3	7.75	1.2	< 5	0.09	57.4	19.1	6.1	1.0	0.2	< 0.5	2.6	1.7	< 1	13.3	21	9

Analyte Symbol	Be	Bi	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.5	0.1	1	0.05	0.2	0.01	0.1	5	0.01	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	1	0.5	3	5
Method Code	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	INAA	INAA
KD18-063R	0.7	8.2	< 0.5	152	6	0.55	0.6	26.1	0.6	< 5	0.01	0.8	9.6	3.5	23.0	0.1	< 0.5	2.4	1.7	< 1	12.7	18	13
KD18-067R	1.1	< 0.1	< 0.5	6.1	4	< 0.05	< 0.2	4.61	2.0	< 5	0.14	144	48.3	4.1	2.3	0.2	< 0.5	0.3	3.3	3	8.8	12	< 5
KD18-067AR	1.4	< 0.1	< 0.5	2.0	4	7.51	< 0.2	8.54	1.9	< 5	0.08	187	48.2	3.8	0.4	0.3	< 0.5	0.8	3.4	< 1	19.0	28	< 5
KD18-071R	2.4	< 0.1	< 0.5	2.2	37	4.96	< 0.2	18.3	< 0.1	< 5	0.01	2.8	43.0	0.6	0.3	< 0.1	< 0.5	0.4	1.9	14	2.2	< 3	< 5
KD18-088R	0.8	< 0.1	< 0.5	30.6	51	2.03	< 0.2	6.38	0.3	< 5	1.79	66.4	0.6	37.8	0.4	< 0.1	< 0.5	1.0	0.5	< 1	6.2	8	< 5
KD18-094R	0.2	< 0.1	< 0.5	4.0	30	0.52	1.1	3.50	0.5	< 5	0.25	13.8	3.0	3.7	3.0	< 0.1	< 0.5	0.7	0.7	< 1	6.9	16	6
KD18-099R	0.9	0.1	< 0.5	14.6	83	1.93	< 0.2	4.23	2.3	< 5	1.22	70.7	12.6	14.3	21.0	0.3	< 0.5	1.6	2.8	< 1	14.8	29	14
KD18-107AR	0.4	< 0.1	< 0.5	8.4	70	1.20	0.9	3.46	1.0	< 5	0.02	31.0	12.7	6.4	25.0	0.2	< 0.5	1.8	2.5	< 1	12.6	19	< 5
KD18-107R	0.2	< 0.1	< 0.5	2.8	29	0.45	0.6	3.78	0.3	< 5	0.03	11.6	2.7	3.0	4.7	< 0.1	< 0.5	0.5	0.7	< 1	6.1	9	< 5
KD18-110AR	0.2	< 0.1	< 0.5	3.5	48	0.41	1.5	5.92	0.4	< 5	0.02	10.2	3.0	5.2	8.3	< 0.1	< 0.5	0.9	1.7	< 1	16.4	24	10
KD18-110R	0.2	< 0.1	< 0.5	2.8	44	0.60	0.3	1.53	0.4	< 5	0.01	13.1	5.1	2.3	5.9	< 0.1	< 0.5	0.6	0.7	< 1	3.8	8	< 5
KD18-119R	0.6	7.6	< 0.5	40.3	9	0.90	0.4	11.3	2.6	< 5	0.27	78.1	3.2	4.8	2.0	0.4	< 0.5	1.1	3.6	< 1	15.5	29	8
KD18-128R	0.1	1.3	< 0.5	267	4	0.20	0.3	23.0	0.2	< 5	0.01	2.4	9.5	0.6	9.1	< 0.1	< 0.5	0.5	1.3	< 1	1.4	< 3	< 5
KD18-139R	2.0	0.2	< 0.5	5.5	3	3.77	0.9	11.3	2.5	< 5	0.14	146	18.7	11.3	1.4	< 0.1	< 0.5	7.7	7.9	11	31.0	60	17
KD18-139AR	1.5	< 0.1	< 0.5	4.0	5	3.05	1.5	4.79	0.6	< 5	0.15	118	4.3	11.4	2.9	0.2	< 0.5	9.2	3.8	4	34.3	70	24
KD18-140R	3.7	0.1	< 0.5	2.6	5	3.88	1.7	9.86	1.8	< 5	0.12	125	8.1	22.1	2.0	< 0.1	0.5	8.6	5.5	10	41.3	82	28
KD18-156R	0.6	0.2	< 0.5	17.0	5	2.90	0.9	8.31	1.3	< 5	0.04	50.9	8.5	5.0	0.9	0.3	< 0.5	4.6	2.5	< 1	13.5	29	< 5
KD18-162R	0.9	4.5	< 0.5	90.6	8	2.34	0.3	20.0	3.0	< 5	0.64	95.6	40.3	9.8	12.5	0.6	< 0.5	10.9	7.0	3	12.8	25	11
KD18-166R	0.3	< 0.1	< 0.5	6.9	27	0.44	< 0.2	2.49	0.2	< 5	1.83	24.8	1.0	4.1	0.4	0.1	< 0.5	0.6	0.2	< 1	2.5	6	< 5
KD18-167R	< 0.1	< 0.1	< 0.5	1.2	31	< 0.05	< 0.2	0.93	< 0.1	< 5	0.08	1.6	0.8	0.6	0.3	< 0.1	< 0.5	< 0.1	< 0.1	< 1	0.6	< 3	< 5
KD18-170R	0.4	< 0.1	< 0.5	9.0	45	0.29	< 0.2	3.11	0.2	< 5	0.26	20.3	1.3	6.7	0.4	< 0.1	< 0.5	0.9	0.2	< 1	5.0	11	< 5
KD18-172R	0.1	3.1	< 0.5	19.2	32	0.15	< 0.2	8.10	0.3	< 5	0.06	7.9	7.1	2.2	82.8	< 0.1	< 0.5	0.6	0.4	< 1	2.8	4	< 5
KD18-176R	1.1	1.6	< 0.5	40.0	113	2.51	0.3	8.58	0.7	< 5	0.19	111	5.6	22.1	3.4	0.3	< 0.5	1.3	0.8	< 1	9.5	18	< 5
KD18-177R	0.1	< 0.1	< 0.5	5.2	66	0.51	0.2	3.67	< 0.1	< 5	0.02	19.6	6.1	8.1	1.0	< 0.1	< 0.5	0.2	0.2	< 1	5.0	6	< 5
KD18-181R	0.2	0.4	< 0.5	16.2	137	0.14	< 0.2	4.15	< 0.1	< 5	0.04	20.1	8.6	5.0	3.2	< 0.1	< 0.5	0.2	0.1	< 1	2.4	< 3	< 5
KD18-182R	0.3	< 0.1	< 0.5	51.6	681	1.20	< 0.2	6.34	0.6	< 5	0.35	41.2	1.7	30.6	1.3	0.1	< 0.5	0.4	0.7	< 1	5.5	11	< 5
KD18-185R	0.2	< 0.1	< 0.5	1.6	35	0.17	< 0.2	1.51	0.5	< 5	1.40	27.9	1.5	3.2	0.4	0.1	< 0.5	1.7	0.9	< 1	4.6	7	< 5
KD18-196AR	1.8	0.1	< 0.5	0.1	17	3.21	0.5	2.00	5.5	< 5	2.12	82.8	2.1	7.8	1.1	0.8	< 0.5	10.8	4.9	< 1	19.7	40	9
KD18-196BR	1.4	< 0.1	< 0.5	2.7	19	2.60	0.6	3.24	5.1	< 5	2.05	69.8	3.3	6.8	1.5	0.8	< 0.5	10.8	4.2	< 1	19.0	38	13
KD18-196CR	< 0.1	< 0.1	< 0.5	0.2	24	0.30	< 0.2	0.78	0.4	< 5	0.05	9.8	0.5	0.3	0.2	< 0.1	< 0.5	0.8	0.5	< 1	1.3	< 3	< 5
KD18-199R	3.1	0.3	< 0.5	48.7	5	0.23	< 0.2	13.9	< 0.1	< 5	0.10	0.6	5.6	0.5	0.8	< 0.1	< 0.5	0.4	0.6	< 1	10.4	10	6
KD18-202R	0.8	2.0	< 0.5	70.2	9	0.81	< 0.2	16.5	0.5	< 5	0.07	0.6	5.2	3.5	3.2	< 0.1	< 0.5	1.7	0.9	< 1	5.7	8	< 5
KD18-205R	1.5	0.7	< 0.5	2.3	8	0.17	< 0.2	4.43	< 0.1	< 5	0.01	1.5	21.3	0.9	0.6	< 0.1	< 0.5	0.2	1.1	38	13.2	24	86
KD18-206R	2.0	< 0.1	< 0.5	1.3	3	0.17	< 0.2	1.18	< 0.1	< 5	0.01	2.8	16.7	0.5	0.1	< 0.1	< 0.5	< 0.1	0.2	< 1	2.4	8	< 5
KD18-207R	2.2	0.3	< 0.5	1.5	24	0.40	< 0.2	0.92	< 0.1	< 5	0.01	12.8	49.2	0.5	0.5	< 0.1	< 0.5	0.3	0.6	6	3.6	< 3	73
KD18-211R	1.5	1.6	< 0.5	24.8	7	21.8	0.7	14.1	0.9	< 5	0.14	291	1.8	14.7	1.6	0.4	< 0.5	12.7	5.1	< 1	25.1	47	15
AW18-016	1.3	2.1	< 0.5	0.4	31	0.90	< 0.2	9.06	1.4	< 5	0.03	37.6	51.2	1.6	0.8	< 0.1	< 0.5	4.4	2.3	2	4.2	8	< 5
AW18-017	0.7	< 0.1	< 0.5	0.1	6	2.88	0.8	0.86	3.2	< 5	0.14	222	13.1	4.6	0.6	0.8	< 0.5	17.2	4.7	2	27.4	49	11
AW18-020	1.8	< 0.1	< 0.5	1.4	19	5.68	< 0.2	2.27	3.9	< 5	0.50	337	11.0	9.1	0.8	1.0	< 0.5	22.7	5.2	< 1	15.9	35	9
AW18-030	0.5	< 0.1	< 0.5	0.7	18	3.01	0.4	1.38	2.6	< 5	0.43	205	15.9	1.4	0.4	0.8	< 0.5	22.9	5.2	< 1	34.8	60	15

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	Be	Bi	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.5	0.1	1	0.05	0.2	0.01	0.1	5	0.01	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	1	0.5	3	5
Method Code	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	INAA	INAA
AW18-032	1.7	< 0.1	< 0.5	5.4	9	8.60	0.2	2.92	1.9	< 5	1.08	214	8.7	5.3	0.5	0.4	< 0.5	14.9	4.6	< 1	25.4	45	9
AW18-034	2.4	3.2	< 0.5	2.6	22	1.47	< 0.2	8.61	1.2	< 5	0.04	83.3	116	3.0	0.3	< 0.1	< 0.5	0.9	2.8	7	4.8	7	< 5
AW18-035	2.6	0.2	< 0.5	38.7	13	2.71	0.3	8.64	3.2	< 5	0.12	127	114	6.3	0.6	0.3	< 0.5	1.2	14.5	17	27.0	42	10
AW18-038	3.5	< 0.1	< 0.5	45.1	52	< 0.05	< 0.2	6.04	2.4	< 5	0.21	197	106	19.0	0.5	0.2	< 0.5	0.4	5.4	9	6.1	13	< 5
AW18-041	0.8	< 0.1	< 0.5	2.4	20	2.83	0.9	3.32	< 0.1	< 5	0.21	140	7.7	5.4	0.7	< 0.1	< 0.5	17.5	5.0	< 1	31.5	58	17
AW18-043	3.9	0.1	< 0.5	11.4	4	5.10	0.8	6.83	5.4	< 5	0.34	169	168	7.0	0.5	1.3	< 0.5	23.3	9.4	< 1	36.5	61	15
AW18-053	< 0.1	44.3	< 0.5	53.5	13	0.11	< 0.2	17.6	< 0.1	< 5	< 0.01	1.4	1.6	0.2	0.5	< 0.1	< 0.5	0.4	1.1	< 1	1.3	< 3	< 5
AW18-063	0.5	0.7	< 0.5	16.5	8	0.08	< 0.2	2.14	2.0	< 5	6.94	2.3	1.1	5.2	1.5	0.6	< 0.5	13.9	3.0	< 1	9.0	16	< 5
AW18-069	0.7	0.1	< 0.5	2.2	5	0.10	< 0.2	1.19	2.7	< 5	5.96	3.0	0.9	7.7	0.5	0.5	< 0.5	12.1	3.2	< 1	11.5	28	< 5
AW18-089	0.8	1.5	< 0.5	6.9	8	0.96	< 0.2	3.57	3.2	< 5	2.43	67.9	1.6	7.7	1.7	0.5	< 0.5	8.6	4.6	< 1	2.5	8	< 5
AW18-095	0.7	< 0.1	< 0.5	31.1	7	3.53	< 0.2	6.07	3.8	< 5	0.33	252	148	2.7	0.3	0.8	< 0.5	2.3	9.6	< 1	22.6	44	16
AW18-101	1.0	0.2	< 0.5	7.7	8	4.02	0.6	21.4	4.3	< 5	0.08	142	118	9.4	0.9	0.7	< 0.5	19.3	9.5	< 1	34.5	65	15
AW18-102	< 0.1	0.8	< 0.5	1.5	< 1	0.11	< 0.2	< 0.01	< 0.1	< 5	0.11	2.9	> 10000	< 0.1	6.1	< 0.1	< 0.5	0.2	0.6	< 1	< 0.5	< 3	< 5
AW18-103	1.2	< 0.1	< 0.5	5.7	7	3.68	< 0.2	7.52	2.9	< 5	0.62	99.7	148	4.7	0.6	0.5	< 0.5	1.2	4.4	< 1	20.2	34	7
AW18-104	0.7	< 0.1	< 0.5	1.8	17	3.54	0.3	4.94	2.7	< 5	1.02	137	69.8	3.5	0.4	0.2	< 0.5	1.8	5.3	< 1	24.1	41	9
AW18-107	1.1	0.4	< 0.5	3.2	5	3.90	< 0.2	2.29	1.9	< 5	2.22	131	3.8	7.9	0.6	0.5	< 0.5	8.1	3.5	< 1	9.6	19	< 5
AW18-112	0.8	0.3	< 0.5	4.0	16	2.24	< 0.2	17.1	0.8	< 5	0.03	48.2	97.0	5.2	2.3	< 0.1	< 0.5	0.4	1.1	< 1	6.3	6	< 5
AW18-113	1.3	3.8	< 0.5	192	19	0.89	< 0.2	23.7	2.0	< 5	0.04	1.1	13.1	6.2	5.6	0.2	< 0.5	3.8	4.0	< 1	4.7	9	< 5
AW18-117	0.8	0.8	< 0.5	116	11	2.34	< 0.2	20.2	0.2	< 5	0.01	3.4	7.6	0.8	2.6	< 0.1	< 0.5	0.4	0.6	< 1	1.0	< 3	< 5
AW18-119	0.6	3.7	< 0.5	457	13	0.96	0.4	25.8	0.4	< 5	< 0.01	2.4	14.4	2.5	9.0	< 0.1	< 0.5	2.1	3.5	< 1	19.3	36	14
AW18-135	0.7	< 0.1	< 0.5	3.9	30	3.37	< 0.2	10.0	0.5	< 5	0.38	27.9	69.6	2.9	1.0	< 0.1	< 0.5	0.5	1.8	< 1	5.3	8	< 5
AW18-145	1.9	0.2	< 0.5	13.1	43	0.35	0.4	3.42	2.0	< 5	3.35	14.4	0.8	13.2	1.4	0.2	< 0.5	3.2	1.7	< 1	14.4	23	7
AW18-161	0.8	5.0	< 0.5	35.5	72	2.22	0.2	10.8	1.9	< 5	0.05	98.4	8.2	35.0	9.9	0.4	< 0.5	0.3	1.6	3	6.1	14	< 5
AW18-176	0.4	< 0.1	< 0.5	14.2	75	0.53	0.8	2.99	0.2	< 5	0.76	15.9	3.9	5.2	11.5	< 0.1	< 0.5	1.4	2.5	< 1	11.2	15	13
AW18-177	< 0.1	0.1	< 0.5	4.3	28	< 0.05	2.3	9.04	0.2	< 5	0.01	1.2	4.0	8.2	5.0	< 0.1	0.6	0.5	0.4	< 1	21.7	35	13
AW18-181	< 0.1	0.3	< 0.5	2.2	25	0.11	2.9	5.23	< 0.1	< 5	0.03	1.1	3.5	12.6	6.3	< 0.1	1.6	0.2	0.3	< 1	28.1	69	33
AW18-188	0.3	< 0.1	< 0.5	2.7	49	0.13	< 0.2	2.08	0.5	< 5	1.32	3.8	1.3	3.4	0.3	< 0.1	< 0.5	0.7	0.4	< 1	4.3	9	< 5
AW18-197	0.9	3.0	< 0.5	266	3	0.60	1.2	26.8	0.5	< 5	0.01	5.5	24.5	3.0	3.7	< 0.1	< 0.5	1.9	1.7	< 1	29.4	52	15
AW18-198	0.1	2.7	< 0.5	346	5	0.27	0.2	29.5	< 0.1	< 5	0.01	7.5	15.0	1.2	14.6	< 0.1	< 0.5	0.5	0.9	< 1	5.4	< 3	< 5
AW18-199	0.7	0.7	< 0.5	29.0	10	1.59	< 0.2	3.94	0.6	< 5	0.02	29.3	877	5.0	4.3	< 0.1	< 0.5	1.5	1.7	< 1	5.9	< 3	< 5
AW18-200	0.2	1.6	< 0.5	61.1	10	0.12	0.2	7.36	0.1	< 5	0.01	4.6	70.4	0.4	3.4	< 0.1	< 0.5	0.9	1.0	< 1	4.7	8	< 5
AW18-201R	0.6	0.6	< 0.5	115	55	0.10	< 0.2	13.3	0.1	< 5	0.01	1.9	128	0.4	3.9	< 0.1	< 0.5	0.6	0.6	< 1	1.4	< 3	< 5
AW18-202R	0.6	2.9	< 0.5	12.8	6	1.05	1.0	6.52	1.5	< 5	1.09	59.0	23.8	6.8	1.2	0.2	< 0.5	3.9	2.9	< 1	14.5	28	7
AW18-223R	1.3	< 0.1	< 0.5	4.4	160	2.82	4.9	4.71	< 0.1	< 5	0.14	145	6.9	11.5	0.9	< 0.1	0.9	7.0	3.9	< 1	158	256	105
AW18-224R	1.0	< 0.1	< 0.5	2.4	8	2.13	1.4	4.12	2.4	< 5	0.11	116	4.2	14.5	0.5	0.5	1.1	7.3	2.9	2	30.0	62	23
AW18-225R	2.0	0.1	< 0.5	6.4	120	2.50	1.9	5.44	2.7	< 5	0.10	232	7.3	17.7	0.9	0.4	0.7	7.0	3.2	1	32.6	66	24
AW18-226R	1.1	< 0.1	< 0.5	4.5	2	3.11	1.6	4.30	2.5	< 5	0.21	221	4.4	9.1	0.8	< 0.1	1.0	9.6	2.8	8	37.1	71	25
AW18-227R	1.5	< 0.1	< 0.5	6.7	149	3.31	1.3	4.67	3.2	< 5	0.21	280	5.3	10.7	1.0	0.4	< 0.5	9.3	2.8	7	31.4	65	17
AW18-240R	< 0.1	0.1	< 0.5	7.7	8	0.14	< 0.2	6.26	< 0.1	< 5	0.01	1.1	9.7	0.3	2.9	< 0.1	< 0.5	0.2	0.7	< 1	3.0	4	< 5
AW18-246R	0.4	< 0.1	< 0.5	2.4	60	1.18	< 0.2	15.3	< 0.1	< 5	0.01	1.8	3.1	0.2	< 0.1	< 0.1	< 0.5	< 0.1	1.2	33	0.7	< 3	< 5

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	Be	Bi	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.5	0.1	1	0.05	0.2	0.01	0.1	5	0.01	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	1	0.5	3	5
Method Code	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	INAA	INAA
AW18-250R	1.4	0.1	< 0.5	17.4	24	1.83	1.4	6.33	1.5	< 5	3.30	6.8	12.2	23.9	0.9	< 0.1	< 0.5	5.8	2.3	< 1	34.1	59	18
AW18-263R	0.6	0.9	< 0.5	22.1	124	0.91	< 0.2	4.66	2.3	< 5	3.67	43.9	457	6.5	1.7	< 0.1	< 0.5	8.4	4.7	< 1	7.3	14	< 5
AW18-264R	0.6	0.2	< 0.5	1.8	6	1.10	0.6	2.38	2.2	< 5	2.16	97.6	1.6	5.5	0.4	0.8	< 0.5	15.6	6.4	< 1	37.5	61	14
AW18-267R	0.5	0.2	< 0.5	28.4	158	0.13	0.5	9.83	0.4	< 5	0.41	10.9	5.0	20.4	0.6	0.1	< 0.5	1.8	0.2	18	3.9	5	< 5
AW18-274R	1.2	0.4	< 0.5	27.1	39	2.41	0.4	7.96	0.7	< 5	1.64	107	3.3	27.5	1.1	0.5	< 0.5	4.1	0.7	< 1	15.0	27	< 5
AW18-276R	0.1	< 0.1	< 0.5	0.9	109	0.23	< 0.2	2.18	0.3	< 5	0.07	12.8	110	2.6	5.8	< 0.1	< 0.5	0.3	0.5	< 1	2.5	< 3	< 5
AW18-280R	0.4	1.3	< 0.5	59.2	5	0.58	< 0.2	20.1	0.5	< 5	0.17	49.0	170	2.4	9.6	< 0.1	< 0.5	0.8	1.0	< 1	9.3	10	< 5
AW18-281R	0.9	< 0.1	< 0.5	3.3	134	1.38	< 0.2	2.94	1.0	< 5	0.06	107	2.2	5.1	0.4	0.4	< 0.5	4.7	2.1	< 1	9.2	17	< 5
AW18-282R	0.8	< 0.1	< 0.5	2.9	40	1.17	< 0.2	1.83	0.8	< 5	0.41	87.5	3.0	4.8	0.3	< 0.1	< 0.5	2.6	1.5	< 1	8.3	17	< 5
AW18-287R	0.4	< 0.1	< 0.5	23.7	189	0.69	< 0.2	6.33	0.7	< 5	0.76	75.6	7.1	22.5	1.4	0.2	< 0.5	0.7	0.6	11	8.8	17	< 5
AW18-289R	0.3	< 0.1	< 0.5	45.7	294	0.82	< 0.2	9.94	0.7	< 5	0.16	34.6	3.6	18.9	1.7	0.1	< 0.5	0.2	0.8	< 1	5.4	11	< 5
AW18-295R	0.5	0.1	< 0.5	31.0	94	0.48	0.8	6.70	0.8	< 5	0.56	70.8	1.1	34.3	0.6	0.3	< 0.5	1.8	0.8	8	10.3	24	10
AW18-300R	2.8	0.3	< 0.5	8.9	54	5.38	2.2	8.52	1.9	< 5	2.36	95.0	1.4	25.1	1.5	0.4	0.9	1.7	1.7	6	31.3	71	19
AW18-308R	1.5	< 0.1	< 0.5	0.3	22	2.31	0.3	2.46	6.6	< 5	2.62	61.8	3.7	5.5	1.1	1.0	< 0.5	11.2	5.3	< 1	27.3	52	15
AW18-309R	0.5	6.8	< 0.5	21.4	64	1.69	< 0.2	9.71	2.1	< 5	0.99	42.8	3.3	8.2	0.9	0.3	< 0.5	5.7	3.8	< 1	16.8	28	7
AW18-310R	1.1	0.1	< 0.5	8.3	18	2.23	0.8	4.31	2.5	< 5	2.80	116	6.8	13.3	0.3	< 0.1	< 0.5	9.1	5.0	< 1	26.2	52	21
AW18-311R	0.8	5.4	< 0.5	6.7	< 1	1.86	0.4	6.57	0.9	< 5	0.04	51.9	900	7.4	5.0	< 0.1	< 0.5	0.6	1.6	5	14.4	22	14
AW18-312R	1.2	2.0	< 0.5	25.8	18	0.26	< 0.2	23.0	< 0.1	< 5	0.03	0.7	6.5	0.7	11.0	< 0.1	< 0.5	0.2	1.5	5	3.8	5	< 5
AW18-313R	1.1	2.0	< 0.5	45.8	25	2.22	0.6	12.4	2.4	< 5	0.01	3.5	3.8	9.7	2.2	0.7	< 0.5	8.2	3.9	< 1	18.9	35	12
AW18-315R	0.6	< 0.1	< 0.5	6.3	38	1.64	< 0.2	5.25	1.2	< 5	0.52	52.9	22.4	5.3	1.0	0.1	< 0.5	0.8	1.8	< 1	3.3	7	< 5
AW18-318R	0.9	< 0.1	< 0.5	5.5	48	2.22	0.6	2.71	1.7	< 5	0.91	156	4.4	9.6	0.5	< 0.1	< 0.5	11.4	4.4	< 1	25.6	54	18
AW18-320R	1.0	0.9	< 0.5	31.0	4	0.85	0.2	14.1	0.6	< 5	0.08	0.7	5.8	3.7	1.3	0.1	< 0.5	1.8	1.0	< 1	6.0	10	< 5
LT18-011R	1.2	1.8	< 0.5	0.4	107	2.01	< 0.2	3.04	0.4	< 5	0.04	34.9	81.8	2.3	0.2	< 0.1	< 0.5	1.9	1.1	< 1	14.9	22	< 5
LT18-012R	3.3	0.2	< 0.5	2.1	22	5.49	0.3	3.74	2.2	< 5	0.06	179	31.0	3.3	0.5	0.4	< 0.5	11.7	5.0	< 1	18.3	34	6
LT18-015R	4.5	0.1	< 0.5	0.5	237	0.66	0.3	0.67	0.3	< 5	0.03	17.7	63.5	2.3	< 0.1	< 0.1	< 0.5	0.7	0.5	< 1	10.4	22	6
LT18-022R	1.6	< 0.1	< 0.5	4.2	< 1	7.51	1.0	2.27	< 0.1	< 5	0.88	114	5.6	8.7	< 0.1	0.4	< 0.5	9.8	2.8	< 1	26.0	50	16
LT18-027R	1.4	< 0.1	< 0.5	9.1	192	2.76	0.4	4.59	2.4	< 5	0.32	89.0	61.1	3.7	0.3	0.5	< 0.5	1.5	7.3	< 1	14.2	22	< 5
LT18-028R	1.8	0.2	< 0.5	22.4	53	5.58	1.4	2.48	0.9	< 5	0.11	145	18.4	13.4	0.4	0.2	< 0.5	3.3	2.8	3	15.9	31	18
LT18-029R	0.9	< 0.1	< 0.5	12.1	247	2.29	0.5	3.27	3.8	< 5	0.21	82.8	36.7	3.5	0.3	0.6	< 0.5	2.8	7.2	11	27.9	47	13
LT18-030R	1.5	< 0.1	< 0.5	1.5	< 1	4.55	0.5	3.11	< 0.1	< 5	0.91	99.0	5.6	8.0	< 0.1	0.7	0.9	18.9	5.4	< 1	41.1	71	24
LT18-034R	1.8	< 0.1	< 0.5	5.5	222	4.08	0.4	1.47	3.8	< 5	0.26	105	22.1	4.1	0.1	0.6	< 0.5	18.3	7.7	< 1	26.7	44	16
LT18-050R	1.2	3.1	< 0.5	6.1	6	0.23	0.4	3.40	3.5	< 5	5.68	0.9	1.1	13.6	3.2	0.7	< 0.5	11.7	4.3	< 1	34.0	59	8
LT18-051R	1.4	1.0	< 0.5	6.4	255	0.26	1.4	3.05	0.3	< 5	6.13	7.3	0.8	10.9	1.1	0.7	< 0.5	14.2	5.2	< 1	80.1	129	27
LT18-057R	1.0	0.1	< 0.5	14.5	4	1.88	0.6	8.00	< 0.1	< 5	0.74	138	2.1	17.0	0.4	0.2	< 0.5	7.0	2.4	< 1	31.1	47	8
LT18-058R	1.4	0.7	< 0.5	14.0	162	0.91	0.4	4.73	0.9	< 5	2.71	71.6	5.5	12.3	1.3	0.3	< 0.5	10.2	6.8	< 1	23.5	46	6
LT18-076R	1.6	0.2	< 0.5	77.4	< 1	1.13	0.3	4.79	2.7	< 5	4.61	67.3	2.4	14.1	5.5	0.5	< 0.5	8.6	2.5	< 1	29.5	52	13
LT18-077R	0.7	< 0.1	< 0.5	4.9	10	3.46	0.6	2.01	1.3	< 5	0.31	123	8.3	4.6	0.1	0.5	< 0.5	13.4	5.8	< 1	27.1	43	5
LT18-098R	1.3	0.8	< 0.5	66.3	4	0.75	0.5	9.50	0.4	< 5	0.03	0.8	5.3	4.4	3.1	0.1	< 0.5	2.0	0.8	< 1	4.2	6	< 5
LT18-099AR	2.1	0.6	< 0.5	79.6	10	0.41	0.2	23.9	0.4	< 5	0.02	1.1	5.7	2.5	1.0	< 0.1	< 0.5	1.8	1.8	< 1	3.4	< 3	< 5
LT18-099BR	1.3	3.0	< 0.5	184	8	1.16	< 0.2	17.9	0.7	< 5	0.07	4.5	14.0	5.1	7.2	0.1	< 0.5	1.8	1.4	< 1	4.2	< 3	< 5

Results

Activation Laboratories Ltd.

Report: A18-12372

Analyte Symbol	Be	Bi	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.5	0.1	1	0.05	0.2	0.01	0.1	5	0.01	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	1	0.5	3	5
Method Code	MULT TD-ICP/TD-ICP-MS	MULT TD-ICP/TD-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	INAA	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	MULT I NAA/T D-ICP-MS	MULT I NAA/T D-ICP-MS	INAA	INAA	INAA	INAA
LT18-102AR	0.8	2.3	< 0.5	114	21	0.67	< 0.2	35.7	< 0.1	< 5	0.01	1.8	32.2	0.2	6.0	< 0.1	< 0.5	0.8	0.5	< 1	3.8	4	< 5
LT18-102BR	0.2	4.4	< 0.5	117	4	0.30	< 0.2	32.8	0.1	< 5	0.01	0.8	13.1	0.5	14.5	< 0.1	< 0.5	0.7	0.6	< 1	2.7	< 3	< 5
LT18-106R	1.9	< 0.1	< 0.5	1.2	133	3.22	< 0.2	22.3	0.1	< 5	0.01	1.9	38.9	0.6	0.2	< 0.1	< 0.5	0.5	1.1	8	2.7	< 3	< 5
LT18-111R	1.2	< 0.1	< 0.5	1.6	1	1.57	0.4	28.1	0.5	< 5	0.01	12.0	10.8	1.5	0.4	< 0.1	< 0.5	1.9	1.2	< 1	5.7	5	< 5
LT18-131R	1.5	3.1	< 0.5	701	36	4.45	< 0.2	37.2	0.4	< 5	< 0.01	4.0	8.5	1.7	22.0	< 0.1	< 0.5	1.9	1.3	< 1	5.5	9	< 5
LT18-140R	0.8	0.2	< 0.5	13.3	5	2.52	< 0.2	3.46	1.8	< 5	1.79	75.5	15.0	13.9	1.0	0.2	< 0.5	3.0	2.2	< 1	11.8	22	5
LT18-142R	1.3	2.8	< 0.5	120	32	4.12	0.6	18.6	1.0	< 5	0.02	3.9	14.2	7.3	< 0.1	0.1	< 0.5	2.5	2.1	< 1	7.7	20	8
LT18-143R	0.5	1.5	< 0.5	92.9	4	0.26	< 0.2	14.9	0.3	< 5	0.01	0.7	44.7	3.2	2.0	< 0.1	< 0.5	0.9	0.7	< 1	3.5	< 3	< 5
LT18-145R	0.2	3.4	< 0.5	212	31	0.29	< 0.2	26.6	0.5	< 5	0.01	6.7	103	2.9	8.9	< 0.1	< 0.5	1.3	1.4	< 1	8.5	15	< 5
LT18-162R	2.1	0.6	< 0.5	3.7	< 1	2.93	0.9	4.70	0.2	< 5	0.13	105	3.1	8.1	< 0.1	0.3	< 0.5	2.2	4.1	< 1	14.7	26	53
LT18-164R	1.0	< 0.1	< 0.5	3.5	6	1.06	< 0.2	2.48	1.3	< 5	0.06	89.4	1.8	4.2	< 0.1	< 0.1	< 0.5	0.4	1.8	3	44.8	53	85
LT18-170R	0.8	0.2	< 0.5	19.4	6	0.67	< 0.2	13.9	0.2	< 5	0.03	1.0	6.2	0.7	< 0.1	< 0.1	< 0.5	0.6	1.9	55	2.1	4	< 5
LT18-174R	0.5	1.0	< 0.5	10.7	27	1.49	1.2	6.80	2.5	< 5	1.02	137	2.6	17.2	0.4	0.4	< 0.5	5.3	2.1	< 1	17.9	38	12
LT18-178R	0.6	0.5	< 0.5	13.9	6	0.91	< 0.2	3.73	1.7	< 5	0.91	145	0.3	3.1	0.4	0.5	< 0.5	11.3	4.1	< 1	10.8	20	< 5
LT18-178AR	0.8	11.6	< 0.5	6.0	26	1.82	0.6	14.4	2.0	< 5	0.17	101	2.0	4.6	3.4	0.3	< 0.5	6.6	3.3	< 1	14.2	19	< 5
LT18-188R	0.9	0.8	< 0.5	19.9	8	1.09	< 0.2	12.4	3.5	< 5	1.71	35.5	1.4	9.4	0.9	0.8	< 0.5	17.0	6.9	< 1	6.9	12	< 5
LT18-209R	1.2	0.3	< 0.5	8.2	70	2.65	2.0	4.35	< 0.1	< 5	1.25	85.3	4.0	18.5	4.1	0.3	< 0.5	2.7	1.6	< 1	16.8	26	10
LT18-210R	1.4	0.2	< 0.5	3.9	70	2.76	1.2	4.40	< 0.1	< 5	0.92	69.1	28.9	13.9	11.0	0.3	< 0.5	4.6	2.8	< 1	14.5	23	8
LT18-211R	1.3	0.2	< 0.5	6.3	174	2.14	0.4	3.48	1.3	< 5	0.97	70.9	7.2	17.6	4.2	0.3	< 0.5	2.5	1.8	16	14.8	28	9
LT18-212AR	0.2	0.2	< 0.5	0.2	53	0.42	< 0.2	13.7	0.4	< 5	0.02	36.3	81.7	4.0	6.7	< 0.1	< 0.5	1.1	0.5	< 1	5.5	12	< 5
LT18-212BR	0.2	< 0.1	< 0.5	2.8	216	0.25	< 0.2	2.75	0.2	< 5	0.02	21.5	21.3	5.7	3.5	< 0.1	< 0.5	0.4	0.2	< 1	0.6	< 3	< 5
LT18-217R	0.3	2.6	< 0.5	28.4	36	0.60	< 0.2	16.8	0.3	< 5	0.01	28.0	67.3	6.1	4.5	< 0.1	< 0.5	0.8	0.3	< 1	3.0	< 3	< 5
LT18-224R	0.6	< 0.1	< 0.5	12.1	220	0.44	< 0.2	3.42	0.5	< 5	0.43	69.3	5.8	25.4	0.5	0.2	< 0.5	1.0	0.4	2	3.8	7	< 5
LT18-233R	0.3	< 0.1	< 0.5	12.2	141	0.28	0.3	2.17	0.5	< 5	0.14	55.2	1.9	18.9	1.0	0.2	< 0.5	1.0	0.5	2	4.2	11	< 5
LT18-249R	0.3	0.5	< 0.5	4.5	87	0.94	0.2	2.30	0.7	< 5	0.03	23.5	64.6	2.6	0.1	0.2	< 0.5	1.7	1.3	< 1	7.8	17	7
LT18-250R	1.0	< 0.1	< 0.5	22.9	28	5.96	0.8	4.86	2.4	< 5	2.56	119	3.9	17.0	0.3	0.3	< 0.5	4.7	2.2	< 1	16.3	29	13
LT18-251R	1.1	5.3	< 0.5	182	49	1.89	< 0.2	9.76	2.1	< 5	1.48	94.2	2.8	8.9	5.0	0.5	< 0.5	8.3	4.8	< 1	17.8	31	11
LT18-252R	1.2	1.0	< 0.5	19.9	1	0.55	< 0.2	13.7	< 0.1	< 5	0.04	1.5	3.8	0.3	0.8	< 0.1	< 0.5	0.2	1.0	126	2.2	< 3	< 5
LT18-254R	1.2	2.1	< 0.5	18.6	28	1.37	0.9	6.18	1.9	< 5	2.54	55.2	1.4	16.4	0.9	0.4	< 0.5	5.2	2.5	< 1	21.1	41	15
LT18-256R	0.3	0.1	< 0.5	9.2	25	0.33	< 0.2	21.3	0.1	< 5	0.11	16.8	152	1.3	2.2	< 0.1	< 0.5	0.3	0.2	< 1	< 0.5	< 3	< 5
LT18-257R	1.3	0.3	< 0.5	8.4	44	1.50	1.0	4.95	2.6	< 5	1.25	79.6	1.1	10.4	< 0.1	0.2	< 0.5	7.5	2.8	< 1	24.7	52	13
LT18-258R	0.3	1.6	< 0.5	88.1	3	0.85	< 0.2	16.3	0.1	< 5	0.06	1.4	6.3	0.4	5.5	< 0.1	< 0.5	0.4	0.2	< 1	< 0.5	< 3	< 5
LT18-259R	0.7	4.3	< 0.5	12.2	42	1.22	1.9	5.45	2.1	< 5	0.36	79.6	8.3	18.8	1.1	0.3	0.8	4.7	4.0	< 1	45.0	95	31
LT18-260R	0.7	6.2	< 0.5	46.1	3	1.84	1.4	9.08	2.2	< 5	0.21	111	5.4	20.5	0.8	0.3	< 0.5	5.7	2.8	6	26.3	55	23
LT18-261R	1.5	2.1	< 0.5	13.4	29	2.54	0.5	7.77	3.5	< 5	0.08	221	6.0	10.4	0.2	0.2	< 0.5	7.9	6.9	< 1	9.8	24	9
LT18-263R	1.1	0.9	< 0.5	16.2	2	1.13	1.9	3.08	2.6	< 5	0.15	100	26.5	2.8	1.5	1.0	< 0.5	22.8	7.1	< 1	80.1	153	57
LT18-283R	1.0	5.7	< 0.5	15.5	48	3.23	< 0.2	6.29	1.0	< 5	1.03	93.0	0.3	10.4	3.7	0.2	< 0.5	2.7	1.5	< 1	8.7	19	< 5
LT18-284R	< 0.1	10.8	< 0.5	299	4	0.13	< 0.2	19.4	0.1	< 5	< 0.01	8.3	0.7	1.3	32.0	< 0.1	< 0.5	0.8	0.3	< 1	2.6	< 3	< 5
LT18-285R	0.2	21.9	< 0.5	10.6	29	0.24	< 0.2	5.18	0.4	< 5	0.20	7.9	0.4	0.8	38.5	0.1	< 0.5	0.9	0.5	33	2.0	5	< 5
LT18-287R	0.2	10.5	< 0.5	30.8	28	1.36	0.4	5.05	0.3	< 5	0.17	22.7	0.6	2.3	6.8	< 0.1	< 0.5	1.0	0.5	< 1	2.8	5	< 5

Analyte Symbol	Be	Bi	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.5	0.1	1	0.05	0.2	0.01	0.1	5	0.01	0.2	0.1	0.1	0.1	0.1	0.5	0.1	0.1	1	0.5	3	5
Method Code	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	INAA	INAA
LT18-290R	0.4	19.7	< 0.5	30.4	105	1.54	0.3	6.30	0.5	< 5	0.11	51.8	0.5	7.2	6.6	0.1	< 0.5	0.6	0.7	5	4.2	8	< 5
LT18-292R	0.1	7.6	< 0.5	209	67	1.69	< 0.2	24.8	< 0.1	< 5	0.20	18.1	0.3	11.0	25.0	< 0.1	< 0.5	0.4	0.1	< 1	1.8	5	< 5
LT18-293R	0.2	70.6	< 0.5	164	42	1.84	< 0.2	23.3	0.3	< 5	0.28	43.4	0.7	14.4	17.0	0.2	< 0.5	0.5	0.4	5	5.0	10	< 5

Analyte Symbol	Sm	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.1	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA
PM18-055F	2.5	1.3	0.14	9.16
AB18003R	2.2	1.5	0.12	7.63
AB18021R	2.2	1.7	0.15	7.64
AB18022R	1.0	0.3	< 0.05	26.9
AB18032R	3.0	2.1	0.21	1.57
AB18043R	4.1	1.4	0.07	32.8
AB18047R	3.4	1.5	< 0.05	39.4
AB18049R	< 0.1	< 0.2	< 0.05	39.7
AB18057R	3.4	1.6	0.06	33.0
AB18060R	1.3	0.9	< 0.05	32.1
AB18072R	0.3	0.5	< 0.05	32.1
AB18075R	0.2	< 0.2	< 0.05	34.5
AB18077R	0.2	< 0.2	< 0.05	34.4
AB18083R	1.7	1.3	0.10	32.0
AB18084R	< 0.1	< 0.2	< 0.05	39.9
AB18085R	0.5	0.4	< 0.05	38.0
AB18090R	0.4	< 0.2	< 0.05	39.2
AB18091R	2.5	2.0	0.15	36.5
AB18094RA	< 0.1	< 0.2	< 0.05	36.8
AB18094RB	0.7	0.8	< 0.05	39.0
AB18102R	0.9	1.4	0.16	30.4
AB18104R	4.2	1.6	0.07	7.52
AB18105R	0.9	0.5	< 0.05	35.2
AB18107R	1.2	0.3	< 0.05	36.5
AB18108R	9.3	1.9	0.09	37.4
AB18110R	3.2	1.8	0.10	31.3
AB18111R	3.3	1.9	0.15	31.5
AB18113R	1.1	0.4	0.07	39.4
AB18128RA	3.8	1.8	0.07	30.5
AB18128RB	4.3	2.2	0.10	34.4
KD18-006R	4.1	2.0	0.15	31.5
KD18-021R	4.3	2.3	0.19	36.5
KD18-022R	2.0	2.1	0.14	37.4
KD18-023R	1.5	1.7	0.15	36.2
KD18-024R	3.6	1.4	0.12	38.2
KD18-039R	3.7	1.6	0.12	36.0
KD18-042R	4.6	2.0	0.11	33.6
KD18-054R	2.0	1.0	0.15	35.4
KD18-057R	2.0	1.4	0.08	31.7
KD18-062R	1.9	1.3	< 0.05	35.2
KD18-063R	2.2	0.7	0.14	2.11
KD18-067R	0.7	0.7	0.07	30.8

Analyte Symbol	Sm	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.1	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA
KD18-067AR	1.0	0.7	0.07	32.5
KD18-071R	< 0.1	< 0.2	< 0.05	31.6
KD18-088R	1.5	0.9	0.05	37.3
KD18-094R	1.9	0.9	< 0.05	36.4
KD18-099R	2.8	1.6	0.30	1.60
KD18-107AR	2.0	1.6	0.12	32.9
KD18-107R	1.3	1.0	0.07	33.3
KD18-110AR	2.3	2.4	0.18	33.5
KD18-110R	0.6	0.4	< 0.05	31.7
KD18-119R	2.2	1.4	0.10	37.3
KD18-128R	0.2	< 0.2	< 0.05	43.3
KD18-139R	4.8	2.5	0.18	34.7
KD18-139AR	6.5	2.5	0.13	37.1
KD18-140R	6.5	3.0	0.18	34.8
KD18-156R	2.5	0.9	< 0.05	34.6
KD18-162R	1.8	1.6	0.12	34.6
KD18-166R	0.5	0.6	< 0.05	37.0
KD18-167R	0.1	0.2	< 0.05	37.0
KD18-170R	1.4	1.3	0.07	34.7
KD18-172R	0.5	0.6	< 0.05	37.4
KD18-176R	2.0	1.3	< 0.05	30.9
KD18-177R	0.9	0.6	< 0.05	34.7
KD18-181R	0.4	< 0.2	< 0.05	38.1
KD18-182R	1.7	1.0	0.07	38.8
KD18-185R	0.6	0.6	< 0.05	34.7
KD18-196AR	2.8	5.0	0.36	32.3
KD18-196BR	3.0	5.6	0.39	34.7
KD18-196CR	0.2	0.3	< 0.05	34.9
KD18-199R	0.9	< 0.2	< 0.05	40.5
KD18-202R	0.7	0.3	< 0.05	40.5
KD18-205R	1.5	< 0.2	< 0.05	38.7
KD18-206R	0.1	< 0.2	< 0.05	48.0
KD18-207R	0.3	< 0.2	< 0.05	36.4
KD18-211R	3.3	2.0	0.10	36.3
AW18-016	0.4	0.6	< 0.05	35.9
AW18-017	2.2	1.8	0.13	30.4
AW18-020	1.9	2.2	0.14	34.8
AW18-030	3.1	1.3	0.11	32.9
AW18-032	2.3	1.3	0.10	34.1
AW18-034	0.4	0.8	0.09	34.5
AW18-035	1.4	2.3	0.17	32.0
AW18-038	0.7	1.1	0.06	34.2

Analyte Symbol	Sm	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.1	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA
AW18-041	3.6	1.5	0.09	31.3
AW18-043	3.7	2.2	0.17	36.8
AW18-053	0.2	< 0.2	< 0.05	1.93
AW18-063	1.3	0.8	0.06	36.0
AW18-069	2.2	1.4	0.10	35.7
AW18-089	0.8	1.5	0.12	34.7
AW18-095	2.0	0.4	0.06	36.5
AW18-101	3.5	2.3	0.18	44.0
AW18-102	< 0.1	< 0.2	< 0.05	4.02
AW18-103	1.4	0.9	0.08	37.3
AW18-104	1.9	1.0	0.09	33.6
AW18-107	1.4	1.1	0.08	33.7
AW18-112	0.9	0.3	< 0.05	37.8
AW18-113	0.7	1.1	0.08	40.5
AW18-117	0.2	< 0.2	< 0.05	34.9
AW18-119	2.5	0.7	0.10	1.99
AW18-135	0.6	< 0.2	< 0.05	33.2
AW18-145	3.1	1.5	0.08	36.7
AW18-161	2.1	2.0	0.10	31.2
AW18-176	2.5	1.3	0.10	33.2
AW18-177	4.3	2.7	< 0.05	32.1
AW18-181	8.9	3.8	0.07	34.5
AW18-188	1.3	0.8	0.05	36.3
AW18-197	3.5	0.6	< 0.05	40.5
AW18-198	0.6	< 0.2	< 0.05	45.4
AW18-199	0.4	< 0.2	< 0.05	43.9
AW18-200	0.4	< 0.2	< 0.05	36.8
AW18-201R	0.1	< 0.2	< 0.05	39.4
AW18-202R	3.2	1.0	< 0.05	31.0
AW18-223R	18.5	2.5	0.15	30.3
AW18-224R	5.7	2.5	0.16	29.9
AW18-225R	6.4	2.6	0.14	29.8
AW18-226R	7.0	2.8	0.12	34.5
AW18-227R	5.8	2.3	0.14	32.3
AW18-240R	0.3	< 0.2	< 0.05	39.2
AW18-246R	< 0.1	< 0.2	< 0.05	45.1
AW18-250R	5.5	1.6	0.07	38.7
AW18-263R	1.0	1.4	< 0.05	34.0
AW18-264R	3.8	1.2	0.10	35.5
AW18-267R	0.9	0.9	< 0.05	41.8
AW18-274R	3.2	1.9	0.08	30.7
AW18-276R	0.7	< 0.2	< 0.05	37.1

Analyte Symbol	Sm	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.1	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA
AW18-280R	0.9	< 0.2	< 0.05	2.34
AW18-281R	1.3	0.7	< 0.05	33.8
AW18-282R	1.0	0.6	< 0.05	34.7
AW18-287R	1.8	1.1	0.07	35.8
AW18-289R	1.1	0.6	< 0.05	32.5
AW18-295R	2.8	1.4	0.08	34.2
AW18-300R	8.5	6.9	0.41	35.1
AW18-308R	4.4	5.3	0.35	31.8
AW18-309R	2.0	1.0	0.05	35.7
AW18-310R	5.1	2.1	0.13	33.5
AW18-311R	3.0	1.6	< 0.05	34.8
AW18-312R	0.4	< 0.2	< 0.05	42.2
AW18-313R	2.8	1.5	< 0.05	38.5
AW18-315R	0.6	0.6	0.05	31.6
AW18-318R	4.1	2.0	0.10	31.9
AW18-320R	0.8	0.3	< 0.05	40.9
LT18-011R	0.9	0.8	< 0.05	33.5
LT18-012R	2.0	1.3	0.11	32.1
LT18-015R	0.9	0.4	< 0.05	36.4
LT18-022R	3.9	1.5	0.11	31.9
LT18-027R	2.2	1.2	0.11	31.8
LT18-028R	4.3	1.5	0.09	32.4
LT18-029R	1.9	1.2	0.09	30.0
LT18-030R	4.8	2.5	0.19	34.0
LT18-034R	2.8	1.9	0.20	34.2
LT18-050R	5.0	2.5	0.22	30.8
LT18-051R	8.7	3.2	0.26	33.2
LT18-057R	4.1	1.7	0.17	36.8
LT18-058R	3.8	1.6	0.17	36.4
LT18-076R	4.1	1.0	0.06	31.4
LT18-077R	2.5	1.3	0.07	33.8
LT18-098R	0.9	0.8	< 0.05	35.4
LT18-099AR	0.5	0.4	0.05	37.8
LT18-099BR	0.7	0.3	< 0.05	37.1
LT18-102AR	0.4	< 0.2	< 0.05	47.7
LT18-102BR	0.3	< 0.2	< 0.05	46.3
LT18-106R	0.4	< 0.2	< 0.05	35.8
LT18-111R	0.7	0.6	< 0.05	39.3
LT18-131R	0.7	< 0.2	< 0.05	2.77
LT18-140R	2.6	1.4	< 0.05	36.6
LT18-142R	1.3	1.0	< 0.05	11.2
LT18-143R	0.6	< 0.2	< 0.05	37.5

Analyte Symbol	Sm	Yb	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.1	0.2	0.05	
Method Code	INAA	INAA	INAA	INAA
LT18-145R	1.5	< 0.2	0.09	2.36
LT18-162R	2.5	1.9	0.17	10.2
LT18-164R	3.7	1.0	0.12	11.1
LT18-170R	0.2	0.2	< 0.05	12.2
LT18-174R	3.4	1.8	0.11	9.34
LT18-178R	1.0	0.8	0.09	8.68
LT18-178AR	0.7	1.2	0.09	8.09
LT18-188R	1.4	1.6	0.16	29.2
LT18-209R	4.1	2.8	0.24	8.64
LT18-210R	4.1	4.1	0.32	8.31
LT18-211R	3.9	3.2	0.23	30.9
LT18-212AR	1.0	< 0.2	< 0.05	8.73
LT18-212BR	0.1	< 0.2	< 0.05	29.8
LT18-217R	0.6	< 0.2	< 0.05	36.8
LT18-224R	1.0	0.7	< 0.05	32.9
LT18-233R	1.2	0.7	< 0.05	25.5
LT18-249R	1.2	0.5	< 0.05	31.3
LT18-250R	3.4	1.4	0.05	34.4
LT18-251R	2.1	1.5	0.09	31.1
LT18-252R	0.2	< 0.2	< 0.05	29.0
LT18-254R	3.8	1.5	0.07	33.6
LT18-256R	0.2	< 0.2	< 0.05	1.62
LT18-257R	4.4	1.7	0.07	35.0
LT18-258R	0.1	< 0.2	< 0.05	42.1
LT18-259R	8.1	1.9	0.06	34.1
LT18-260R	5.1	1.7	0.07	34.9
LT18-261R	2.9	2.1	0.14	33.0
LT18-263R	10.0	1.8	0.12	31.9
LT18-283R	1.8	1.0	0.06	31.1
LT18-284R	0.5	< 0.2	< 0.05	2.15
LT18-285R	0.3	< 0.2	< 0.05	32.7
LT18-287R	0.6	0.2	< 0.05	27.5
LT18-290R	0.9	0.6	< 0.05	37.2
LT18-292R	0.7	0.5	< 0.05	1.59
LT18-293R	1.7	1.0	< 0.05	2.19

Analyte Symbol	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Zn	Zn	S	Al	Ba	Be	Be	Bi	Bi	Ca	Co	Cr	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	
Lower Limit	0.05	0.3	0.2	1	0.1	0.3	1	0.5	3	0.5	1	0.5	1	0.01	0.01	1	0.1	1	0.02	2	0.01	0.1	1	
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-MS	
GXR-1 Meas																								
GXR-1 Cert																								
SDC-1 Meas			28.6	31				28.0	26	32.7	32	107	98		8.08	641	3.1	3			1.04	17.0	> 10.0	
SDC-1 Cert			30.000	30.000				25.00	25.00	38.0	38.0	103.00	103.00		8.34	630	3.00	3.00			1.00	18.0	64.00	
SDC-1 Meas			24.7	24				18.2	23	34.7	35	102	103		7.96	641	3.2	3			1.05	16.8	> 10.0	
SDC-1 Cert			30.000	30.000				25.00	25.00	38.0	38.0	103.00	103.00		8.34	630	3.00	3.00			1.00	18.0	64.00	
MP-1b Meas																								
MP-1b Cert																								
DNC-1a Meas			100	100				7.4	4	243	234	67.5	58			108					7.59	60.1	> 10.0	
DNC-1a Cert			100	100				6.3	6.3	247	247	70	70			118					8.21	57	270	
OREAS 13b (4-Acid) Meas	1.16		2320							2150		149											76.4	> 10.0
OREAS 13b (4-Acid) Cert	0.86		2327.000							2247.000		133											75	8650.00
SBC-1 Meas			31.6	34	0.3	0.4	2	34.8	34	93.7	88	183	193			683	3.2	3	0.69	3		21.5	> 10.0	
SBC-1 Cert			31.0	31.0	0.40	0.40	2	35.0	35.0	82.8	83	186	186			788.0	3.20	3.20	0.70	0.70		22.7	109	
DMMAS 121 Meas																								
DMMAS 121 Cert																								
DMMAS 121 Meas																								
DMMAS 121 Cert																								
OREAS 905 (INAA) Meas																								
OREAS 905 (INAA) Cert																								
OREAS 905 (INAA) Meas																								
OREAS 905 (INAA) Cert																								
OREAS 923 (4 Acid) Meas	1.84	1.8	4250	4100	0.4	0.4	< 1	84.6	87	36.8	40	316	349	0.71	7.16	439	2.5	2	24.0	17	0.45	22.2	> 10.0	
OREAS 923 (4 Acid) Cert	1.60	1.60	4230	4230	0.420	0.420	0.930	83.0	83.0	35.8	35.8	345	345	0.691	7.29	434	2.42	2.42	21.4	21.4	0.473	23.1	71.0	
OREAS 923 (4 Acid) Meas	1.58	1.7	4360	4150	0.4	< 0.3	< 1	82.3	81	36.1	39	318	340	0.68	6.97	402	2.4	2	21.2	16	0.47	22.6	> 10.0	
OREAS 923 (4 Acid) Cert	1.60	1.60	4230	4230	0.420	0.420	0.930	83.0	83.0	35.8	35.8	345	345	0.691	7.29	434	2.42	2.42	21.4	21.4	0.473	23.1	71.0	
OREAS 923 (4 Acid) Meas	1.51		4320		0.3			80.7		35.7		320				403	2.5		21.2			22.6	> 10.0	
OREAS 923 (4 Acid) Cert	1.60		4230		0.420			83.0		35.8		345				434	2.42		21.4			23.1	71.0	
OREAS 621 (4 Acid) Meas	62.7	70.8	3660	3590	252	306	13	> 5000	> 5000	27.1	29	> 10000	> 10000	4.40	5.11		1.7	2	3.91	< 2	2.01	29.2	> 10.0	
OREAS 621 (4 Acid) Cert	69.0	69.0	3630	3630	284	284	13.6	13600	13600	26.2	26.2	52200	52200	4.48	6.40		1.69	1.69	3.93	3.93	1.97	29.3	37.1	

Analyte Symbol	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Zn	Zn	S	Al	Ba	Be	Be	Bi	Bi	Ca	Co	Cr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	0.05	0.3	0.2	1	0.1	0.3	1	0.5	3	0.5	1	0.5	1	0.01	0.01	1	0.1	1	0.02	2	0.01	0.1	1
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-MS
OREAS 621 (4 Acid) Meas	63.5		3750		258			> 5000		28.0		> 10000					1.6		3.98			30.2	> 10.0
OREAS 621 (4 Acid) Cert	69.0		3630		284			13600		26.2		52200					1.69		3.93			29.3	37.1
OREAS 925 (4 Acid) Meas	2.87	2.7	5950	6110	0.6	0.7	< 1	134	118	33.9	43	463	429	0.98	7.06	338	2.3	2	35.4	24	0.46	22.9	> 10.0
OREAS 925 (4 Acid) Cert	2.36	2.36	6150	6150	0.540	0.540	0.10	100	100	34.8	34.8	446	446	0.962	7.32	425	2.32	2.32	31.3	31.3	0.458	24.6	70.0
OREAS 925 (4 Acid) Meas	2.60	2.8	6450	6250	0.5	0.7	< 1	125	103	38.4	42	434	447	0.98	7.09	340	2.7	2	33.6	16	0.47	24.7	> 10.0
OREAS 925 (4 Acid) Cert	2.36	2.36	6150	6150	0.540	0.540	0.10	100	100	34.8	34.8	446	446	0.962	7.32	425	2.32	2.32	31.3	31.3	0.458	24.6	70.0
OREAS 925 (4 Acid) Meas	2.52		6260		0.6			125		38.0		430				343	2.3		34.3			24.7	> 10.0
OREAS 925 (4 Acid) Cert	2.36		6150		0.540			100		34.8		446				425	2.32		31.3			24.6	70.0
OREAS 520 (4 Acid) Meas	0.57	0.9	2950	2890			42	4.0	8	80.9	77	22.3	27	0.97	5.41		1.2	1	3.33	< 2	4.06	205	> 10.0
OREAS 520 (4 Acid) Cert	0.450	0.450	2930	2930			65.0	5.85	5.85	76.0	76.0	22.7	22.7	1.01	5.63		1.06	1.06	2.94	2.94	4.10	203	36.4
OREAS 520 (4 Acid) Meas	0.56		2910					2.1		81.2		24.0					1.3		3.39			208	> 10.0
OREAS 520 (4 Acid) Cert	0.450		2930					5.85		76.0		22.7					1.06		2.94			203	36.4
AB18077R Orig	0.13	< 0.3	5.7	4	0.1	< 0.3	1	< 0.5	< 3	6.9	3	44.2	37	0.05	0.38	67	0.9	< 1	0.19	4	13.6	3.0	6
AB18077R Dup	0.05	< 0.3	5.7	3	0.1	< 0.3	< 1	< 0.5	< 3	4.0	2	43.5	40	0.06	0.39	54	0.9	< 1	0.17	4	13.7	3.1	3
AB18111R Orig	0.37	0.5	10.8	10	0.2	< 0.3	23	13.6	18	2.9	2	40.6	40	0.75	6.74	118	1.1	1	0.43	< 2	4.37	13.3	9
AB18111R Dup	0.35	< 0.3	9.3	9	0.2	0.3	24	13.1	18	2.5	4	37.3	37	0.86	6.70	122	1.0	1	0.41	< 2	4.40	13.1	5
KD18-110AR Orig	0.36	< 0.3	18.8	17	0.1	< 0.3	5	< 0.5	< 3	36.2	34	15.3	13	0.32	1.00	119	0.2	< 1	0.02	4	9.62	3.5	> 10.0
KD18-110AR Split PREP DUP	0.38	< 0.3	22.0	22	< 0.1	< 0.3	5	< 0.5	< 3	34.7	35	12.9	13	0.36	1.00	116	0.2	< 1	0.02	3	9.41	3.4	> 10.0
KD18-110R Orig	0.42	0.7	22.8	23	< 0.1	< 0.3	5	< 0.5	3	33.6	38	17.8	19	0.23	1.01	149	0.2	< 1	0.03	< 2	1.31	2.7	> 10.0
KD18-110R Dup	0.37	0.9	22.2	23	< 0.1	< 0.3	4	< 0.5	< 3	34.0	37	12.1	14	0.24	1.05	148	0.2	< 1	0.03	< 2	1.30	2.9	> 10.0
KD18-181R Orig	15.1	17.9	265	271	466	585	6	2330	2690	23.1	24	> 10000	> 10000	4.91	1.20	28	0.2	< 1	0.35	< 2	0.04	14.9	> 10.0
KD18-181R Dup	14.9	17.1	259	258	470	561	7	2330	2630	22.3	24	> 10000	> 10000	4.59	1.16	38	0.2	< 1	0.36	2	0.04	15.1	> 10.0
AW18-089 Orig	1.61	2.0	5.5	7	< 0.1	< 0.3	14	44.6	42	2.4	3	58.6	60	2.10	5.63	62	0.8	< 1	1.50	< 2	0.11	6.9	7
AW18-089 Dup	1.75	2.0	4.6	5	< 0.1	< 0.3	14	44.1	43	1.5	1	47.7	49	2.11	5.88	69	0.7	< 1	1.53	< 2	0.11	7.0	10
AW18-119 Orig	3.78	4.1	1190	1120	0.3	< 0.3	10	70.6	56	3.2	5	61.8	55	> 20.0	1.63	28	0.6	< 1	3.68	5	2.40	476	> 10.0
AW18-119 Split PREP DUP	3.74	3.6	1130	1020	0.3	< 0.3	10	65.7	48	4.2	5	57.0	48	> 20.0	1.68	20	0.7	< 1	3.52	< 2	2.12	467	> 10.0
AW18-161 Orig	2.72	3.2	379	387	< 0.1	< 0.3	2	28.1	25	25.1	27	50.3	54	6.76	7.86	20	0.7	< 1	4.90	< 2	0.21	36.0	> 10.0
AW18-161 Dup	2.86	3.2	368	386	< 0.1	< 0.3	2	31.8	24	24.8	27	46.8	52	6.54	7.93	19	0.9	< 1	5.18	4	0.21	35.5	> 10.0
AW18-320R Orig	0.13	< 0.3	35.5	39	< 0.1	< 0.3	5	2.3	< 3	4.1	3	16.4	17	0.55	1.44	18	1.0	< 1	0.90	4	10.2	31.7	3
AW18-320R Dup	0.12	< 0.3	36.6	33	< 0.1	< 0.3	5	2.5	< 3	3.7	4	18.2	19	0.60	1.41	17	1.0	< 1	0.91	4	10.1	30.8	4
LT18-030R Orig	0.61	< 0.3	5.4	5	< 0.1	< 0.3	< 1	9.0	6	2.9	3	43.3	38	< 0.01	7.76	2760	1.5	1	< 0.02	< 2	0.34	1.5	< 1

Analyte Symbol	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Zn	Zn	S	Al	Ba	Be	Be	Bi	Bi	Ca	Co	Cr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	0.05	0.3	0.2	1	0.1	0.3	1	0.5	3	0.5	1	0.5	1	0.01	0.01	1	0.1	1	0.02	2	0.01	0.1	1
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-MS
LT18-030R Split PREP DUP	0.43	< 0.3	3.8	4	< 0.1	< 0.3	< 1	8.8	8	0.8	1	47.0	43	< 0.01	7.69	2800	1.5	1	< 0.02	< 2	0.36	1.4	< 1
LT18-076R Orig	1.04	0.8	5.9	8	< 0.1	< 0.3	13	27.8	20	2.9	4	110	98	3.55	9.30	25	1.6	1	0.19	< 2	0.35	80.7	< 1
LT18-076R Dup	0.87	0.6	6.2	9	< 0.1	< 0.3	13	27.1	22	2.4	4	114	101	3.66	9.27	29	1.6	1	0.20	< 2	0.36	80.8	< 1
LT18-162R Orig	1.03	0.5	28.2	28	0.4	0.5	3	24.8	22	1.5	3	72.5	70	0.14	5.80	> 5000	2.1	2	0.61	< 2	0.19	3.7	< 1
LT18-162R Dup	0.68	0.4	30.4	30	0.4	0.5	3	25.3	18	1.8	4	79.2	69	0.12	5.75	> 5000	2.1	2	0.63	< 2	0.18	3.6	< 1
LT18-261R Orig	2.21	2.0	551	543	15.3	15.6	20	185	148	2.0	4	1050	952	0.47	7.93	926	1.5	1	2.13	< 2	0.48	14.0	> 10.0
LT18-261R Dup	2.20	2.1	557	545	15.8	16.2	20	178	146	2.1	3	1050	963	0.45	7.97	849	1.4	1	2.10	< 2	0.47	13.9	> 10.0
LT18-287R Orig	87.2	84.9	> 10000	> 10000	50.7	50.2	4	186	174	3.6	3	6580	6220	1.39	1.75	50	0.2	< 1	10.5	6	1.32	32.9	> 10.0
LT18-287R Split PREP DUP	87.7	86.5	> 10000	> 10000	51.7	51.7	3	202	183	3.5	2	6840	6540	1.42	1.76	71	0.2	< 1	11.0	15	1.36	33.4	> 10.0
Method Blank																							
Method Blank																							
Method Blank	< 0.05	< 0.3	< 0.2	< 1	< 0.1	< 0.3	< 1	< 0.5	< 3	< 0.5	< 1	3.2	< 1	< 0.01	< 0.01	4	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1
Method Blank	< 0.05		< 0.2		< 0.1			< 0.5		< 0.5		3.2				4	< 0.1		< 0.02			< 0.1	< 1
Method Blank	< 0.05		< 0.2		< 0.1			< 0.5		< 0.5		3.2				4	< 0.1		< 0.02			< 0.1	< 1
Method Blank		< 0.3		< 1		< 0.3	< 1		< 3		< 1		2	0.01	< 0.01			< 1		< 2	< 0.01		
Method Blank		< 0.3		3		< 0.3	< 1		< 3		< 1		4	< 0.01	< 0.01			< 1		< 2	< 0.01		
Method Blank		< 0.3		< 1		1.4	< 1		< 3		< 1		7	< 0.01	< 0.01			< 1		< 2	< 0.01		
Method Blank		< 0.3		< 1		< 0.3	< 1		< 3		< 1		< 1	0.01	< 0.01			< 1		< 2	< 0.01		
Method Blank																							
Method Blank	< 0.05	< 0.3	1.0	< 1	< 0.1	< 0.3	< 1	< 0.5	< 3	< 0.5	< 1	0.8	< 1	< 0.01	< 0.01	1	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	4
Method Blank	0.12	< 0.3	< 0.2	1	< 0.1	< 0.3	< 1	< 0.5	3	< 0.5	< 1	< 0.5	< 1	< 0.01	< 0.01	3	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1
Method Blank	< 0.05	< 0.3	0.7	< 1	< 0.1	< 0.3	< 1	2.6	< 3	< 0.5	< 1	3.0	1	< 0.01	< 0.01	12	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	3
Method Blank	< 0.05	< 0.3	< 0.2	< 1	< 0.1	< 0.3	< 1	< 0.5	< 3	< 0.5	< 1	< 0.5	1	< 0.01	< 0.01	5	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1

Analyte Symbol	Cs	Hf	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Rb	Re	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.2	0.001	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
GXR-1 Meas																							
GXR-1 Cert																							
SDC-1 Meas	4.05	0.9	20.1		< 10		2.54	35.2	1.00	948	< 0.1	0.055	117			< 1	174	< 0.1		0.13	11.8	0.68	2.9
SDC-1 Cert	4.00	8.30	21.00		200.00		2.72	34.0	1.02	880.00	21.00	0.0690	127.00			3.00	180.00	1.20		0.606	12.00	0.70	3.10
SDC-1 Meas	3.90	0.8	21.7		< 10		2.73	34.8	0.99	888	< 0.1	0.057	126			< 1	185	< 0.1		0.16	11.9	0.52	2.9
SDC-1 Cert	4.00	8.30	21.00		200.00		2.72	34.0	1.02	880.00	21.00	0.0690	127.00			3.00	180.00	1.20		0.606	12.00	0.70	3.10
MP-1b Meas																							
MP-1b Cert																							
DNC-1a Meas			13.2					4.8			1.3		2.9				145			0.27			
DNC-1a Cert			15					5.2			3		5				144			0.29			
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
SBC-1 Meas	8.28	3.4	24.0					164			12.8		127			3	183	0.9		0.53	16.8	0.97	6.2
SBC-1 Cert	8.2	3.7	27.0					163			15.3		147			3.3	178.0	1.10		0.51	15.8	0.89	5.76
DMMAS 121 Meas																							
DMMAS 121 Cert																							
DMMAS 121 Meas																							
DMMAS 121 Cert																							
OREAS 905 (INAA) Meas																							
OREAS 905 (INAA) Cert																							
OREAS 905 (INAA) Meas																							
OREAS 905 (INAA) Cert																							
OREAS 923 (4 Acid) Meas	6.77	3.7	17.8			0.5	2.40	31.6	1.70	1060	13.6	0.065	138		7.2	13	43.1	1.1		0.45	17.4	1.00	3.5
OREAS 923 (4 Acid) Cert	6.70	3.42	20.3			0.520	2.51	31.4	1.69	950	14.1	0.0630	166		6.54	13.3	43.0	1.11		0.405	16.5	0.860	3.06
OREAS 923 (4 Acid) Meas	6.25	3.4	19.1			0.5	2.42	30.7	1.68	927	12.6	0.061	161		5.7	13	41.5	0.8		0.42	16.2	0.86	3.3
OREAS 923 (4 Acid) Cert	6.70	3.42	20.3			0.520	2.51	31.4	1.69	950	14.1	0.0630	166		6.54	13.3	43.0	1.11		0.405	16.5	0.860	3.06
OREAS 923 (4 Acid) Meas	6.33	3.5	18.7			0.5		30.5			12.2		160		6.1	13	41.1	0.8			16.6	0.87	3.3
OREAS 923 (4 Acid) Cert	6.70	3.42	20.3			0.520		31.4			14.1		166		6.54	13.3	43.0	1.11			16.5	0.860	3.06
OREAS 621 (4 Acid) Meas	2.67	4.1	24.2			1.8	2.29	13.1	0.45	541	10.5	0.033	58.1		6.0	5	63.5			0.19	4.2	2.27	2.2
OREAS 621 (4 Acid) Cert	3.28	4.41	24.6			1.83	2.20	14.2	0.507	532	8.61	0.0359	84.0		5.64	5.25	91.0			0.149	7.48	1.96	2.83

Analyte Symbol	Cs	Hf	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Rb	Re	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.2	0.001	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
OREAS 621 (4 Acid) Meas	2.77	4.3	24.4			1.8		13.2			10.5		58.6		6.2	5	64.7				4.3	2.31	2.3
OREAS 621 (4 Acid) Cert	3.28	4.41	24.6			1.83		14.2			8.61		84.0		5.64	5.25	91.0				7.48	1.96	2.83
OREAS 925 (4 Acid) Meas	6.36	3.1	17.1			0.7	2.30	31.4	1.76	979	4.1	0.057	147		8.5	17	34.3	1.3		0.37	15.2	0.93	3.0
OREAS 925 (4 Acid) Cert	6.50	3.15	20.3			0.670	2.47	32.3	1.79	990	13.3	0.0620	163		9.07	14.9	36.2	1.06		0.391	16.0	0.870	2.94
OREAS 925 (4 Acid) Meas	6.37	3.5	19.3			0.7	2.57	33.4	1.80	989	11.3	0.059	166		8.7	16	36.8	0.8		0.41	16.3	0.88	3.4
OREAS 925 (4 Acid) Cert	6.50	3.15	20.3			0.670	2.47	32.3	1.79	990	13.3	0.0620	163		9.07	14.9	36.2	1.06		0.391	16.0	0.870	2.94
OREAS 925 (4 Acid) Meas	6.49	3.5	18.1			0.7		32.3			10.8		166		8.5	16	36.8	0.7			16.6	0.91	3.5
OREAS 925 (4 Acid) Cert	6.50	3.15	20.3			0.670		32.3			13.3		163		9.07	14.9	36.2	1.06			16.0	0.870	2.94
OREAS 520 (4 Acid) Meas	0.81	3.6	18.3			0.1	3.30	17.4	1.18	2260	0.2	0.067	107	0.032	0.8	5	87.0	< 0.1	< 0.1	0.38	8.3	0.31	21.7
OREAS 520 (4 Acid) Cert	0.800	3.53	18.7			0.110	3.46	16.9	1.19	2420	5.68	0.0740	111	0.0310	1.76	4.76	104	0.470	0.360	0.445	9.62	0.260	17.9
OREAS 520 (4 Acid) Meas	0.80	3.6	18.3			0.1		17.3			0.3		109	0.028	1.0	5	88.1	< 0.1	< 0.1		8.6	0.26	22.0
OREAS 520 (4 Acid) Cert	0.800	3.53	18.7			0.110		16.9			5.68		111	0.0310	1.76	4.76	104	0.470	0.360		9.62	0.260	17.9
AB18077R Orig	0.15	< 0.1	1.3	0.1	30	< 0.1	0.02	5.1	3.05	4730	< 0.1	0.009	0.2	0.001	0.2	< 1	49.2	< 0.1	0.1	< 0.01	0.1	0.09	0.6
AB18077R Dup	0.16	< 0.1	1.6	0.1	< 10	< 0.1	< 0.01	5.4	3.09	4810	< 0.1	0.009	0.2	0.001	0.4	< 1	49.3	< 0.1	0.1	< 0.01	0.1	0.10	0.6
AB18111R Orig	2.56	3.2	12.0	0.2	< 10	< 0.1	3.03	25.2	0.79	1390	9.9	0.063	105	0.001	1.0	1	325	0.7	< 0.1	0.22	10.9	0.90	5.6
AB18111R Dup	2.55	1.8	11.8	0.2	< 10	< 0.1	3.04	25.1	0.81	1410	6.9	0.059	103	< 0.001	1.3	1	337	0.6	< 0.1	0.22	10.4	0.87	5.4
KD18-110AR Orig	0.41	0.4	1.6	0.1	< 10	0.4	0.36	7.7	2.95	3610	1.3	0.054	10.2	0.026	8.3	< 1	183	0.1	< 0.1	0.06	0.9	0.07	1.7
KD18-110AR Split PREP DUP	0.41	0.4	1.7	0.1	10	0.4	0.35	7.3	2.89	3540	1.3	0.053	9.9	0.023	7.8	< 1	174	0.1	< 0.1	0.06	0.9	0.06	1.6
KD18-110R Orig	0.59	0.4	1.6	0.1	20	< 0.1	0.56	14.8	0.42	491	1.0	0.015	13.1	0.009	5.9	< 1	35.5	< 0.1	< 0.1	0.07	0.6	0.08	0.7
KD18-110R Dup	0.60	0.4	1.6	0.1	20	< 0.1	0.55	14.7	0.43	435	1.0	0.015	13.2	0.012	5.8	< 1	35.4	< 0.1	< 0.1	0.07	0.6	0.08	0.8
KD18-181R Orig	0.14	< 0.1	3.0	0.2	930	0.4	0.89	2.4	0.07	168	< 0.1	0.024	19.9	< 0.001	2.8	< 1	12.1	< 0.1	< 0.1	0.05	0.2	< 0.05	0.1
KD18-181R Dup	0.14	< 0.1	2.8	0.2	960	0.4	0.91	2.5	0.07	132	< 0.1	0.023	20.2	< 0.001	3.7	< 1	12.6	< 0.1	< 0.1	0.05	0.2	< 0.05	0.1
AW18-089 Orig	0.94	3.1	14.7	0.2	50	< 0.1	2.80	8.7	0.60	111	8.7	0.079	65.2	0.003	1.6	2	78.8	0.5	0.8	0.31	6.9	0.21	4.5
AW18-089 Dup	0.99	3.2	14.9	0.2	20	< 0.1	2.88	8.6	0.61	128	8.8	0.079	70.5	0.004	1.9	2	81.2	0.6	0.8	0.31	7.4	0.22	4.7
AW18-119 Orig	0.96	0.4	6.0	0.4	30	< 0.1	0.04	11.5	0.74	1040	0.6	0.041	2.4	0.006	10.1	< 1	37.0	< 0.1	0.5	0.05	2.1	0.38	3.5
AW18-119 Split PREP DUP	1.07	0.5	6.4	0.4	30	0.1	0.04	12.0	0.76	1060	0.8	0.038	2.4	0.010	10.9	< 1	35.0	0.1	0.5	0.06	2.7	0.40	3.7
AW18-161 Orig	2.19	1.8	24.3	0.3	20	< 0.1	3.50	8.8	1.08	306	6.3	0.167	100	< 0.001	9.7	3	9.2	0.4	0.5	0.58	0.3	0.66	1.5
AW18-161 Dup	2.26	1.9	24.3	0.3	30	< 0.1	3.45	8.7	1.10	305	6.4	0.168	96.5	< 0.001	10.0	3	7.7	0.4	0.5	0.58	0.3	0.64	1.6
AW18-320R Orig	0.86	0.6	3.8	0.2	20	0.1	0.02	6.3	3.14	4200	1.0	0.032	0.7	0.001	1.4	< 1	125	< 0.1	0.1	0.08	1.9	0.16	1.0
AW18-320R Dup	0.85	0.6	3.7	0.2	40	0.1	< 0.01	6.3	3.14	4090	1.0	0.031	0.6	0.003	1.3	< 1	125	0.1	< 0.1	0.08	1.8	0.17	1.0
LT18-030R Orig	4.55	< 0.1	14.2	0.6	< 10	< 0.1	3.74	10.1	0.11	267	0.7	0.053	99.0	< 0.001	< 0.1	< 1	77.0	0.7	< 0.1	0.13	14.3	1.57	5.4

Analyte Symbol	Cs	Hf	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Rb	Re	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.2	0.001	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
LT18-030R Split PREP DUP	4.69	0.2	15.3	0.6	< 10	< 0.1	4.16	10.7	0.12	299	0.2	0.062	100.0	< 0.001	0.5	< 1	79.5	0.5	< 0.1	0.20	16.4	1.52	5.4
LT18-076R Orig	1.15	2.7	16.9	0.1	30	< 0.1	2.13	16.8	0.68	536	7.7	0.123	67.3	< 0.001	5.8	1	226	0.5	0.4	0.42	3.5	0.42	2.5
LT18-076R Dup	1.12	2.7	16.8	0.2	< 10	< 0.1	2.21	16.7	0.69	559	7.3	0.122	67.2	0.001	5.2	1	227	0.4	0.5	0.42	3.4	0.40	2.5
LT18-162R Orig	2.96	0.3	1.4	0.1	10	< 0.1	3.96	2.2	0.02	1360	3.1	0.086	109	< 0.001	< 0.1	1	638	0.3	0.1	0.25	2.2	1.69	4.2
LT18-162R Dup	2.91	< 0.1	2.1	0.1	< 10	< 0.1	3.92	2.4	0.02	1410	2.3	0.086	100	< 0.001	< 0.1	1	736	0.2	< 0.1	0.25	2.2	1.69	4.0
LT18-261R Orig	2.55	3.6	17.2	0.3	20	0.1	6.53	3.5	0.83	1350	6.7	0.163	220	< 0.001	0.3	2	72.8	0.2	< 0.1	0.41	9.3	1.10	7.0
LT18-261R Dup	2.53	3.5	17.2	0.5	20	0.1	6.64	3.5	0.83	1350	7.0	0.165	222	< 0.001	0.1	2	72.9	0.2	< 0.1	0.41	9.2	1.09	6.9
LT18-287R Orig	1.36	0.3	4.3	0.1	90	1.0	0.54	7.4	0.43	2010	1.4	0.022	22.7	< 0.001	6.8	< 1	52.1	< 0.1	1.7	0.07	1.0	0.34	0.5
LT18-287R Split PREP DUP	1.40	0.3	4.3	0.2	60	1.0	0.57	7.3	0.44	2210	1.3	0.022	22.9	< 0.001	6.8	< 1	52.6	< 0.1	1.6	0.07	1.1	0.28	0.5
Method Blank																							
Method Blank																							
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	50	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	< 0.001	0.1	< 1	< 0.2	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	50	< 0.1		< 0.5			< 0.1		< 0.2	< 0.001	0.1	< 1	< 0.2	< 0.1	< 0.1		< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	50	< 0.1		< 0.5			< 0.1		< 0.2	< 0.001	0.1	< 1	< 0.2	< 0.1	< 0.1		< 0.1	< 0.05	< 0.1
Method Blank							< 0.01		< 0.01			< 0.001								< 0.01			
Method Blank							< 0.01		< 0.01			< 0.001								< 0.01			
Method Blank							< 0.01		< 0.01			< 0.001								< 0.01			
Method Blank							< 0.01		< 0.01			< 0.001								< 0.01			
Method Blank																							
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	40	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	0.001	0.1	< 1	< 0.2	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	20	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	< 0.001	< 0.1	< 1	0.2	< 0.1	< 0.1	< 0.01	< 0.1	0.07	< 0.1
Method Blank	< 0.05	< 0.1	0.2	< 0.1	60	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	0.001	0.1	< 1	0.5	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	30	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	< 0.001	< 0.1	< 1	0.9	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1

Analyte Symbol	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	5	20	50	0.5	50
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas																		3450	< 5	< 20	720	447	< 50
GXR-1 Cert																		3300	31.0	41.0	760	427	750
SDC-1 Meas	38		30	42.5	91.5		43.3	7.9	1.70	7.7	7.1	1.2	1.4	3.9	0.6	3.7							
SDC-1 Cert	102.00		290.00	42.00	93.00		40.00	8.20	1.70	7.00	6.70	1.20	1.50	4.10	0.65	4.00							
SDC-1 Meas	41		31	41.7	95.3		44.5	8.1	1.56	7.2	6.6	1.1	1.3	3.8	0.5	3.3							
SDC-1 Cert	102.00		290.00	42.00	93.00		40.00	8.20	1.70	7.00	6.70	1.20	1.50	4.10	0.65	4.00							
MP-1b Meas																			< 5		> 10000		
MP-1b Cert																			50		167000	23000.00	
DNC-1a Meas	142	16.8	37	3.8			5.2		0.63							2.2							
DNC-1a Cert	148	18.0	38.0	3.6			5.20		0.59							2.0							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
SBC-1 Meas	228	31.3	123	51.6	106	12.5	46.5	9.2	1.87	8.7	7.0	1.1	1.4	3.7	0.5	3.6	0.5						
SBC-1 Cert	220.0	36.5	134.0	52.5	108.0	12.6	49.2	9.6	1.98	8.5	7.10	1.20	1.40	3.80	0.56	3.64	0.54						
DMMAS 121 Meas																		785				1760	1070
DMMAS 121 Cert																		726				1670	1180
DMMAS 121 Meas																		740				1740	1100
DMMAS 121 Cert																		726				1670	1180
OREAS 905 (INAA) Meas																		372			< 50	34.5	2670
OREAS 905 (INAA) Cert																		391			139	36.2	2800
OREAS 905 (INAA) Meas																		409			< 50	37.8	< 50
OREAS 905 (INAA) Cert																		391			139	36.2	2800
OREAS 923 (4 Acid) Meas	99	25.8	136	42.3	81.4	9.3	33.2	6.4	1.29	6.3	5.2	0.8	1.0	2.8	0.4	2.7	0.4						
OREAS 923 (4 Acid) Cert	91.0	26.4	116	42.2	83.0	9.58	35.4	6.64	1.37	5.73	5.05	0.850	0.960	2.86	0.410	2.57	0.390						
OREAS 923 (4 Acid) Meas	99	26.1	125	41.9	86.1	9.8	37.8	6.6	1.28	6.0	5.1	0.8	1.0	2.9	0.4	2.5	0.3						
OREAS 923 (4 Acid) Cert	91.0	26.4	116	42.2	83.0	9.58	35.4	6.64	1.37	5.73	5.05	0.850	0.960	2.86	0.410	2.57	0.390						
OREAS 923 (4 Acid) Meas		26.2	121	41.9	86.7	9.7	37.8	6.6	1.30	5.9	5.2	0.8	1.0	2.9	0.4	2.5	0.3						
OREAS 923 (4 Acid) Cert		26.4	116	42.2	83.0	9.58	35.4	6.64	1.37	5.73	5.05	0.850	0.960	2.86	0.410	2.57	0.390						
OREAS 621 (4 Acid) Meas	34	6.8	167	8.7	23.2							0.3				0.7	< 0.1						

Analyte Symbol	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	5	20	50	0.5	50
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	INAA	INAA	INAA	INAA	INAA
OREAS 621 (4 Acid) Cert	31.8	11.1	168	21.6	46.6							0.460				0.990	0.140						
OREAS 621 (4 Acid) Meas		6.9	164	9.0	23.9							0.3				0.7	< 0.1						
OREAS 621 (4 Acid) Cert		11.1	168	21.6	46.6							0.460				0.990	0.140						
OREAS 925 (4 Acid) Meas	92	23.5	102	41.0	82.2	9.4	35.6	6.3	1.29	5.9	5.2	0.9	1.0	3.0	0.5	2.7	0.4						
OREAS 925 (4 Acid) Cert	91.0	24.6	106	41.3	82.0	9.36	34.8	6.51	1.28	5.58	4.82	0.810	0.930	2.70	0.390	2.43	0.380						
OREAS 925 (4 Acid) Meas	99	25.5	121	43.6	89.9	10.2	39.6	6.9	1.29	6.1	5.2	0.8	1.0	2.9	0.4	2.6	0.3						
OREAS 925 (4 Acid) Cert	91.0	24.6	106	41.3	82.0	9.36	34.8	6.51	1.28	5.58	4.82	0.810	0.930	2.70	0.390	2.43	0.380						
OREAS 925 (4 Acid) Meas		25.6	117	44.3	92.1	10.4	40.2	6.9	1.33	6.1	5.3	0.9	1.0	3.0	0.4	2.7	0.3						
OREAS 925 (4 Acid) Cert		24.6	106	41.3	82.0	9.36	34.8	6.51	1.28	5.58	4.82	0.810	0.930	2.70	0.390	2.43	0.380						
OREAS 520 (4 Acid) Meas	246	21.0	134	79.9	90.3	7.4	25.5	4.2	1.39	4.9	4.3	0.7	0.9	2.6	0.4	2.4	0.3						
OREAS 520 (4 Acid) Cert	257	20.8	134	85.0	86.0	6.69	22.1	4.02	1.29	4.08	3.66	0.640	0.760	2.21	0.310	2.20	0.340						
OREAS 520 (4 Acid) Meas		21.3	132	80.7	91.9	7.5	26.2	4.4	1.44	4.9	4.4	0.7	0.9	2.6	0.4	2.4	0.3						
OREAS 520 (4 Acid) Cert		20.8	134	85.0	86.0	6.69	22.1	4.02	1.29	4.08	3.66	0.640	0.760	2.21	0.310	2.20	0.340						
AB18077R Orig	7	1.3	2	1.1	1.5	0.2	0.9	0.2	0.10	0.2	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
AB18077R Dup	6	1.2	2	1.1	1.5	0.2	0.9	0.2	0.10	0.2	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
AB18111R Orig	72	17.8	119	27.9	57.8	6.3	23.8	3.7	1.06	3.3	2.9	0.4	0.6	1.9	0.3	2.0	0.3						
AB18111R Dup	72	17.6	80	29.1	58.5	6.3	23.2	3.6	1.01	3.2	2.9	0.4	0.6	1.8	0.3	1.9	0.3						
KD18-110AR Orig	142	29.1	18	17.5	26.9	3.9	15.7	3.0	1.80	3.8	4.3	0.6	0.9	2.8	0.4	2.7	0.4	4	< 5	< 20	< 50	16.3	80
KD18-110AR Split PREP DUP	138	27.4	18	16.4	25.3	3.7	14.9	2.9	1.73	3.7	4.2	0.6	0.9	2.7	0.4	2.5	0.3	6	< 5	30	< 50	15.4	< 50
KD18-110R Orig	55	4.1	16	3.1	4.5	0.6	2.6	0.5	0.26	0.6	0.7	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1						
KD18-110R Dup	56	4.1	17	3.2	4.7	0.6	2.7	0.5	0.26	0.6	0.7	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1						
KD18-181R Orig	43	1.7	4	1.7	3.8	0.5	2.1	0.4	0.13	0.4	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1						
KD18-181R Dup	43	1.7	4	1.7	3.6	0.4	2.0	0.4	0.13	0.4	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2	< 0.1						
AW18-089 Orig	85	12.2	135	1.7	4.8	0.7	3.1	0.9	0.31	1.2	1.8	0.2	0.4	1.6	0.3	1.8	0.3						
AW18-089 Dup	85	12.9	137	1.9	5.2	0.7	3.3	0.9	0.32	1.2	2.0	0.2	0.5	1.6	0.3	1.9	0.3						
AW18-119 Orig	49	11.4	17	18.7	33.5	3.7	15.3	2.7	0.67	2.8	2.2	0.4	0.4	1.1	0.1	0.8	< 0.1	< 2	< 5	< 20	< 50	378	< 50
AW18-119 Split PREP DUP	46	11.4	20	18.6	34.5	3.8	15.8	3.0	0.72	2.9	2.2	0.4	0.4	1.1	0.2	0.8	0.1	8	< 5	< 20	< 50	335	< 50
AW18-161 Orig	368	22.0	63	2.2	9.6	1.6	8.7	2.3	0.46	3.0	3.8	0.5	0.9	2.6	0.4	2.3	0.3						
AW18-161 Dup	364	22.4	64	1.7	8.6	1.6	8.6	2.4	0.47	3.1	3.8	0.5	0.9	2.7	0.4	2.5	0.3						
AW18-320R Orig	45	3.6	25	6.2	11.7	1.3	5.1	0.9	0.25	0.9	0.7	0.1	0.1	0.4	< 0.1	0.4	< 0.1						
AW18-320R Dup	44	3.6	24	6.6	12.5	1.4	5.3	0.9	0.25	0.9	0.7	0.1	0.1	0.4	< 0.1	0.4	< 0.1						

Analyte Symbol	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Ag	Ni	Zn	As	Ba
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	5	20	50	0.5	50
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	INAA	INAA	INAA	INAA	INAA
LT18-030R Orig	26	21.8	9	41.5	79.2	8.9	33.0	5.8	1.44	5.3	4.6	0.8	0.9	2.9	0.5	2.7	0.4	< 2	< 5	< 20	< 50	4.8	2430
LT18-030R Split PREP DUP	36	22.4	27	42.9	80.6	9.1	33.8	5.8	1.43	5.5	4.8	0.8	0.9	2.9	0.5	3.0	0.4	< 2	< 5	< 20	< 50	5.9	2220
LT18-076R Orig	147	11.2	107	23.1	57.1	7.1	27.9	5.0	1.17	4.3	2.5	0.5	0.5	1.3	0.2	1.3	0.2						
LT18-076R Dup	151	10.7	107	22.3	55.2	7.1	29.2	5.0	1.14	4.3	2.4	0.5	0.4	1.3	0.2	1.3	0.2						
LT18-162R Orig	171	19.0	42	8.2	23.4	3.7	16.2	3.4	0.90	3.8	3.7	0.6	0.8	2.5	0.4	2.6	0.3						
LT18-162R Dup	172	19.0	29	7.4	22.2	3.5	15.6	3.4	0.88	3.8	3.8	0.6	0.8	2.6	0.4	2.5	0.4						
LT18-261R Orig	125	17.1	124	10.8	25.1	3.4	15.5	3.4	0.75	3.6	3.3	0.6	0.7	2.4	0.4	2.5	0.4						
LT18-261R Dup	126	17.3	127	10.7	24.5	3.4	15.7	3.4	0.76	3.7	3.3	0.5	0.7	2.4	0.4	2.6	0.4						
LT18-287R Orig	26	3.5	9	2.7	5.0	0.6	2.5	0.6	0.55	0.6	0.6	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1	84	79	< 20	5480	84.1	450
LT18-287R Split PREP DUP	26	3.6	9	2.7	5.0	0.6	2.6	0.5	0.60	0.6	0.6	< 0.1	0.1	0.4	< 0.1	0.4	< 0.1	71	72	< 20	5070	75.6	430
Method Blank																		< 2	< 5	< 20	< 50	< 0.5	< 50
Method Blank																		< 2	< 5	< 20	< 50	< 0.5	< 50
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank		< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank		< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2																						
Method Blank	< 2																						
Method Blank	< 2																						
Method Blank	< 2																						
Method Blank																		< 2	< 5	< 20	< 50	< 0.5	< 50
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						

Analyte Symbol	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd	Sm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	1	2	1	0.2	0.01	1	5	0.01	15	0.1	0.1	3	0.5	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
GXR-1 Meas	< 0.5	9	< 2	< 1	< 0.2	24.7	< 1		0.05	< 15	120	< 0.1	< 3	< 0.5	< 0.5	< 0.2	36.5	172	7.8	< 3	< 5	2.6	< 0.2
GXR-1 Cert	0.500	8.20	12.0	3.00	0.690	23.6	0.960		0.0520	14.0	122	1.58	16.6	0.175	0.830	2.44	34.9	164	7.50	17.0	18.0	2.70	1.90
SDC-1 Meas																							
SDC-1 Cert																							
SDC-1 Meas																							
SDC-1 Cert																							
MP-1b Meas						8.55												1150					
MP-1b Cert						8.19												1100.00					
DNC-1a Meas																							
DNC-1a Cert																							
OREAS 13b (4-Acid) Meas																							
OREAS 13b (4-Acid) Cert																							
SBC-1 Meas																							
SBC-1 Cert																							
DMMAS 121 Meas		42	141			3.55			2.04		8.1	6.3					12.0		16.2	27		2.1	
DMMAS 121 Cert		45.2	142			3.45			2.16		7.60	6.10					11.5		16.6	29.8		2.20	
DMMAS 121 Meas		48	126			3.73			2.24		8.4	6.4					14.1		18.0	35		2.5	
DMMAS 121 Cert		45.2	142			3.45			2.16		7.60	6.10					11.5		16.6	29.8		2.20	
OREAS 905 (INAA) Meas		15		7	1.4	4.03	8			130	1.9			< 0.5	< 0.5	14.0	5.2	< 1	45.7	91	42	7.3	0.7
OREAS 905 (INAA) Cert		15.3		7.10	1.46	4.23	7.26			137	1.96			1.38	0.810	14.7	5.00	3.02	48.0	96.0	40.5	7.64	0.760
OREAS 905 (INAA) Meas		16		< 1	< 0.2	4.43	< 1			< 15	< 0.1			< 0.5	< 0.5	15.4	< 0.5	< 1	50.2	100	< 5	7.4	< 0.2
OREAS 905 (INAA) Cert		15.3		7.10	1.46	4.23	7.26			137	1.96			1.38	0.810	14.7	5.00	3.02	48.0	96.0	40.5	7.64	0.760
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 923 (4 Acid) Meas																							
OREAS 923 (4 Acid) Cert																							
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Meas																							

Analyte Symbol	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd	Sm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	1	2	1	0.2	0.01	1	5	0.01	15	0.1	0.1	3	0.5	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Acid) Cert																							
OREAS 621 (4 Acid) Meas																							
OREAS 621 (4 Acid) Cert																							
OREAS 925 (4 Acid) Meas																							
OREAS 925 (4 Acid) Cert																							
OREAS 925 (4 Acid) Meas																							
OREAS 925 (4 Acid) Cert																							
OREAS 925 (4 Acid) Meas																							
OREAS 925 (4 Acid) Cert																							
OREAS 925 (4 Acid) Meas																							
OREAS 925 (4 Acid) Cert																							
OREAS 520 (4 Acid) Meas																							
OREAS 520 (4 Acid) Cert																							
OREAS 520 (4 Acid) Meas																							
OREAS 520 (4 Acid) Cert																							
AB18077R Orig																							
AB18077R Dup																							
AB18111R Orig																							
AB18111R Dup																							
KD18-110AR Orig	< 0.5	3	48	< 1	1.5	5.92	< 1	< 5	0.02	< 15	3.0	5.2	4	< 0.5	< 0.5	1.5	1.3	< 1	16.4	24	10	2.3	2.4
KD18-110AR Split PREP DUP	< 0.5	4	51	< 1	1.6	5.94	< 1	< 5	0.03	< 15	3.5	5.3	7	< 0.5	0.5	1.2	1.0	< 1	17.8	30	12	2.8	2.5
KD18-110R Orig																							
KD18-110R Dup																							
KD18-181R Orig																							
KD18-181R Dup																							
AW18-089 Orig																							
AW18-089 Dup																							
AW18-119 Orig	< 0.5	457	13	< 1	0.4	25.8	< 1	< 5	< 0.01	< 15	14.4	2.5	9	< 0.5	< 0.5	2.4	3.3	< 1	19.3	36	14	2.5	0.7
AW18-119 Split PREP DUP	< 0.5	402	< 2	< 1	0.6	24.6	< 1	< 5	< 0.01	< 15	12.0	2.4	13	< 0.5	< 0.5	2.4	2.3	< 1	16.8	27	< 5	2.2	0.7
AW18-161 Orig																							
AW18-161 Dup																							
AW18-320R Orig																							
AW18-320R Dup																							

Analyte Symbol	Br	Co	Cr	Cs	Eu	Fe	Hf	Ir	Na	Rb	Sb	Sc	Se	Ta	Tb	Th	U	W	La	Ce	Nd	Sm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.5	1	2	1	0.2	0.01	1	5	0.01	15	0.1	0.1	3	0.5	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
LT18-030R Orig	< 0.5	< 1	4	4	0.5	3.11	6	< 5	0.91	233	5.6	8.0	< 3	< 0.5	0.9	18.9	5.1	< 1	41.1	71	24	4.8	2.5
LT18-030R Split PREP DUP	< 0.5	2	3	6	1.2	3.18	6	< 5	0.91	311	5.7	8.2	< 3	< 0.5	< 0.5	20.8	6.0	< 1	41.9	69	25	4.8	2.1
LT18-076R Orig																							
LT18-076R Dup																							
LT18-162R Orig																							
LT18-162R Dup																							
LT18-261R Orig																							
LT18-261R Dup																							
LT18-287R Orig	< 0.5	31	28	3	0.4	5.05	< 1	< 5	0.17	48	0.6	2.3	3	< 0.5	< 0.5	1.5	< 0.5	< 1	2.8	5	< 5	0.6	0.2
LT18-287R Split PREP DUP	< 0.5	30	31	1	0.4	4.51	< 1	< 5	0.15	34	0.5	2.0	< 3	< 0.5	< 0.5	0.9	< 0.5	< 1	2.6	5	< 5	0.5	0.3
Method Blank	< 0.5	< 1	< 2	< 1	< 0.2	< 0.01	< 1	< 5	< 0.01	< 15	< 0.1	< 0.1	< 3	< 0.5	< 0.5	< 0.2	< 0.5	< 1	< 0.5	< 3	< 5	< 0.1	< 0.2
Method Blank	< 0.5	< 1	< 2	< 1	< 0.2	< 0.01	< 1	< 5	< 0.01	< 15	< 0.1	< 0.1	< 3	< 0.5	< 0.5	< 0.2	< 0.5	< 1	< 0.5	< 3	< 5	< 0.1	< 0.2
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank	< 0.5	< 1	< 2	< 1	< 0.2	< 0.01	< 1	< 5	< 0.01	< 15	< 0.1	< 0.1	< 3	< 0.5	< 0.5	< 0.2	< 0.5	< 1	< 0.5	< 3	< 5	< 0.1	< 0.2
Method Blank																							
Method Blank																							
Method Blank																							
Method Blank																							

Analyte Symbol	Lu	Mass
Unit Symbol	ppm	g
Lower Limit	0.05	
Method Code	INAA	INAA
GXR-1 Meas	< 0.05	
GXR-1 Cert	0.280	
SDC-1 Meas		
SDC-1 Cert		
SDC-1 Meas		
SDC-1 Cert		
MP-1b Meas		
MP-1b Cert		
DNC-1a Meas		
DNC-1a Cert		
OREAS 13b (4-Acid) Meas		
OREAS 13b (4-Acid) Cert		
SBC-1 Meas		
SBC-1 Cert		
DMMAS 121 Meas		
DMMAS 121 Cert		
DMMAS 121 Meas		
DMMAS 121 Cert		
OREAS 905 (INAA) Meas		
OREAS 905 (INAA) Cert		
OREAS 905 (INAA) Meas		
OREAS 905 (INAA) Cert		
OREAS 923 (4 Acid) Meas		
OREAS 923 (4 Acid) Cert		
OREAS 923 (4 Acid) Meas		
OREAS 923 (4 Acid) Cert		
OREAS 923 (4 Acid) Meas		
OREAS 923 (4 Acid) Cert		
OREAS 923 (4 Acid) Meas		
OREAS 923 (4 Acid) Cert		
OREAS 621 (4 Acid) Meas		
OREAS 621 (4 Acid) Cert		

Analyte Symbol	Lu	Mass
Unit Symbol	ppm	g
Lower Limit	0.05	
Method Code	INAA	INAA
OREAS 621 (4 Acid) Meas		
OREAS 621 (4 Acid) Cert		
OREAS 925 (4 Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 925 (4 Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 925 (4 Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 925 (4 Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 520 (4 Acid) Meas		
OREAS 520 (4 Acid) Cert		
OREAS 520 (4 Acid) Meas		
OREAS 520 (4 Acid) Cert		
AB18077R Orig		
AB18077R Dup		
AB18111R Orig		
AB18111R Dup		
KD18-110AR Orig	0.18	33.5
KD18-110AR Split PREP DUP	0.09	33.2
KD18-110R Orig		
KD18-110R Dup		
KD18-181R Orig		
KD18-181R Dup		
AW18-089 Orig		
AW18-089 Dup		
AW18-119 Orig	0.10	1.99
AW18-119 Split PREP DUP	< 0.05	2.21
AW18-161 Orig		
AW18-161 Dup		
AW18-320R Orig		
AW18-320R Dup		
LT18-030R Orig	0.19	34.0

Analyte Symbol	Lu	Mass
Unit Symbol	ppm	g
Lower Limit	0.05	
Method Code	INAA	INAA
LT18-030R Split PREP DUP	0.21	31.9
LT18-076R Orig		
LT18-076R Dup		
LT18-162R Orig		
LT18-162R Dup		
LT18-261R Orig		
LT18-261R Dup		
LT18-287R Orig	< 0.05	27.5
LT18-287R Split PREP DUP	< 0.05	36.6
Method Blank	< 0.05	30.0
Method Blank	< 0.05	1.00
Method Blank		
Method Blank		
Method Blank		
Method Blank		
Method Blank		
Method Blank		
Method Blank		
Method Blank	< 0.05	10.0
Method Blank		
Method Blank		
Method Blank		
Method Blank		



Date Submitted: 19-Oct-18
Invoice No.: A18-15518
Invoice Date: 09-Jan-19
Your Reference: Stewart 2018-AUX03

Auramex Resource Corp
20th Floor, 250 Howe Street
Vancouver BC V6C 3R8
Canada

ATTN: Paul Metcalfe

CERTIFICATE OF ANALYSIS

155 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-3 INAA(INAAGEO)/Total digestion ICP(Total)Total Digestion ICP/MS

REPORT **A18-15518**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

Footnote:

Samples showing Ba > 1% should be repeated as small INAA vials or another method as values may be unreliable. INAA data may be suppressed due high concentrations of Ag, As, Ba, Zn, Cu, Pb, Cd, Hg.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Elitsa Hrischeva".

Elitsa Hrischeva, Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

Report: A18-15518

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
LT18-294AR	70	1.15	96.9	0.2	4	8.7	4.5	125	1.37	8.66	74.3	2580	2.0	0.8	< 0.5	1.80	14.0	12	11.0	1.4	6.20	1.4	18.0
LT18-294BR	33	0.83	118	0.2	4	16.5	4.0	40.6	1.29	8.45	19.0	3080	1.9	0.4	< 0.5	2.03	8.9	22	3.78	0.3	4.91	1.1	14.8
LT18-294CR	27	0.69	25.8	< 0.1	2	20.3	3.9	36.0	0.56	9.61	5.7	4440	2.2	0.4	< 0.5	2.16	13.2	10	12.6	1.0	4.59	1.2	19.6
LT18-301AR	16	0.28	44.5	< 0.1	4	4.3	2.5	29.8	0.75	6.51	3.2	976	1.0	2.0	< 0.5	3.07	13.9	18	1.21	0.7	5.38	1.4	12.5
LT18-301BR	10	0.38	42.7	< 0.1	5	5.3	2.0	16.6	0.94	8.44	5.1	1230	1.4	0.4	< 0.5	1.77	17.7	19	1.27	1.0	3.05	2.3	13.7
LT18-301CR	6	0.17	16.5	< 0.1	2	1.6	2.0	14.9	0.37	0.67	4.1	29	< 0.1	1.0	< 0.5	1.03	5.5	27	0.20	0.3	5.48	< 0.1	3.0
LT18-304R	94	6.27	66.0	1.0	10	255	5.1	70.6	7.31	0.97	23.1	162	1.3	5.1	< 0.5	0.29	19.9	68	0.19	0.6	6.82	0.3	3.6
LT18-305R	68	1.05	22.9	0.9	3	19.2	5.7	77.9	1.47	1.97	18.8	849	0.7	0.4	< 0.5	6.68	9.5	21	0.28	0.8	6.41	0.4	2.8
LT18-306R	30	0.77	106	84.5	11	7.3	2.9	7940	2.42	1.92	132	1230	0.3	< 0.1	< 0.5	1.63	13.5	58	0.60	< 0.2	7.77	0.9	3.9
LT18-307R	3980	150	578	8.5	6	1360	45.1	953	12.8	2.89	213	1580	1.2	11.7	< 0.5	0.19	216	16	0.47	0.3	14.6	1.2	8.5
LT18-317R	< 2	0.93	36.7	0.6	3	105	10.8	221	0.32	6.76	21.9	3750	0.9	< 0.1	< 0.5	10.4	9.1	36	2.81	1.3	7.55	1.0	12.2
LT18-318R	9	15.6	923	> 2000	9	4590	2.3	> 100000	12.5	1.18	123	122	0.7	20.3	< 0.5	0.08	41.4	15	0.57	< 0.2	2.71	0.6	4.6
LT18-321R	6	45.2	5020	66.0	5	> 5000	7.2	4760	3.40	4.29	93.8	1580	2.6	2.8	< 0.5	11.2	21.5	27	7.87	1.7	6.08	1.1	8.3
LT18-324R	< 2	1.04	301	1.0	10	39.5	1.1	220	6.59	6.88	504	53	1.5	2.3	< 0.5	0.16	79.8	6	1.79	0.5	27.0	2.5	24.1
LT18-333R	< 2	0.53	66.5	0.4	< 1	23.8	23.0	102	1.03	8.76	35.8	726	1.2	< 0.1	< 0.5	3.40	28.2	78	3.76	0.4	5.00	1.9	12.7
LT18-334R	2	0.71	589	0.4	6	9.7	5.2	37.1	0.52	1.29	32.6	1020	0.4	< 0.1	< 0.5	22.1	9.6	6	0.76	0.8	2.38	0.4	< 0.1
LT18-336R	67	47.5	> 10000	1.6	5	71.3	14.0	61.7	1.19	3.77	210	592	0.8	17.2	< 0.5	0.11	54.5	4	3.30	1.7	8.48	0.5	10.1
LT18-339R	63	3.42	681	2.0	3	42.0	1.4	1010	0.59	3.90	3420	1330	0.4	3.9	< 0.5	0.17	5.8	9	0.87	< 0.2	24.6	1.2	7.6
LT18-343R	44	2.99	582	0.1	2	46.3	3.2	72.4	2.26	4.15	190	85	0.4	1.8	< 0.5	0.07	76.9	29	0.61	< 0.2	7.24	1.4	7.8
LT18-345R	41	0.74	43.6	0.1	1	13.9	2.2	49.6	5.94	7.09	108	3020	0.9	0.7	< 0.5	0.46	8.6	8	0.85	0.3	12.3	1.8	13.3
LT18-351R	167	114	3150	17.2	2	324	6.4	1430	1.43	4.13	2620	2870	0.7	9.4	< 0.5	0.15	55.0	< 1	2.69	< 0.2	11.3	1.1	10.0
LT18-352RA	54	9.17	1040	1.1	2	352	1.7	203	1.71	3.18	422	142	0.5	3.1	< 0.5	0.03	7.0	13	1.64	< 0.2	4.69	0.8	8.2
LT18-352RB	187	98.4	> 10000	5.4	15	225	4.6	809	6.28	4.10	131	2530	0.7	131	< 0.5	0.03	39.7	15	2.32	< 0.2	8.94	1.4	9.6
LT18-352RC	21	4.16	1130	1.2	17	191	4.6	253	1.18	5.97	83.1	3160	1.0	1.7	< 0.5	0.04	14.4	24	3.37	< 0.2	4.96	2.0	12.0
LT18-352RD	34	11.3	3570	3.3	15	306	3.9	663	2.02	3.45	155	2330	0.6	2.3	< 0.5	0.04	14.9	32	1.13	< 0.2	5.17	0.9	7.8
LT18-352R	49	10.9	262	0.4	3	165	6.9	103	1.85	6.56	133	760	0.8	2.7	< 0.5	0.08	67.6	19	1.81	< 0.2	6.36	2.1	12.2
LT18-364R	5	1.11	34.0	1.4	67	32.1	9.3	72.3	1.01	5.38	11.3	1600	1.5	< 0.1	< 0.5	8.45	18.4	27	5.64	1.8	4.62	1.1	14.3
LT18-368R	15	0.58	35.6	0.1	2	10.8	2.8	86.6	1.59	8.29	11.4	21700	2.0	< 0.1	< 0.5	2.53	17.8	6	14.6	1.8	4.44	1.7	< 0.1
LT18-401R	125	5.20	2400	0.2	2	8.4	9.6	81.5	3.08	5.43	11.6	136	0.8	3.9	< 0.5	4.77	151	21	2.57	0.4	11.5	0.4	15.5
LT18-404R	14	0.72	12.5	< 0.1	2	5.1	1.3	9.5	0.30	7.65	6.5	79	0.6	1.9	< 0.5	0.15	7.4	13	0.09	< 0.2	2.54	1.5	11.9
LT18-409R	211	0.48	2150	0.1	4	6.0	4.4	26.7	2.41	3.65	118	857	0.6	1.7	< 0.5	1.21	26.3	39	1.51	0.4	6.03	0.6	7.7
LT18-410R	530	1.23	> 10000	0.4	4	4.0	2.4	35.5	3.89	3.91	20.2	573	0.5	1.6	< 0.5	7.47	14.1	10	1.33	2.3	7.35	0.7	8.9
LT18-413R	29	20.0	663	597	1	> 5000	1.5	28500	2.04	4.66	13.7	> 100000	0.7	0.3	< 0.5	2.57	12.4	< 1	1.12	< 0.2	3.28	1.5	7.6
LT18-414R	< 2	0.74	78.6	83.8	< 1	69.3	4.0	5080	0.29	3.67	9.2	55000	0.9	< 0.1	< 0.5	6.35	12.3	9	1.39	0.8	5.00	1.5	5.4
LT18-415R	415	8.31	414	0.4	14	408	2.3	25.9	16.4	2.89	609	2050	0.5	2.7	< 0.5	0.30	144	21	0.56	< 0.2	13.1	1.0	5.7
LT18-419R	84	26.1	1340	0.4	1	93.1	16.6	59.8	> 20.0	3.03	222	75	0.4	8.3	< 0.5	0.60	663	11	1.18	< 0.2	21.5	1.0	6.7
LT18-420R	< 2	0.62	220	0.1	< 1	9.6	9.8	43.7	3.44	8.76	11.3	118	1.2	1.4	< 0.5	2.07	52.7	14	0.67	0.9	9.96	1.9	17.5
LT18-423R	< 2	0.30	258	0.2	< 1	19.9	1.9	15.0	10.8	0.29	52.4	618	3.9	5.1	< 0.5	4.10	123	7	0.70	< 0.2	22.6	< 0.1	1.5

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
LT18-424R	4	0.34	12.0	< 0.1	2	5.7	1.9	4.9	6.40	5.94	17.6	2640	0.9	0.6	< 0.5	0.13	5.0	27	1.44	< 0.2	5.61	2.4	8.9
LT18-425R	< 2	0.82	26.6	0.2	4	15.3	5.9	132	0.04	7.06	36.5	5400	1.5	0.3	< 0.5	0.32	26.5	18	4.38	0.4	9.08	0.4	5.0
LT18-426R	297	46.0	193	1.1	142	365	67.6	149	> 20.0	4.13	880	2160	0.4	12.9	< 0.5	0.09	306	25	1.88	0.8	19.5	2.2	6.9
LT18-429R	< 2	0.37	13.3	0.5	2	11.4	4.8	68.0	0.01	5.55	6.0	1250	1.0	< 0.1	< 0.5	6.84	7.5	9	3.74	0.9	6.15	1.1	9.2
LT18-430R	78	20.0	> 10000	1.2	10	54.5	5.7	122	3.60	1.51	77.1	1480	1.3	1.9	< 0.5	0.13	15.4	16	1.10	1.0	32.5	0.2	4.9
LT18-431R	36	4.89	2750	0.5	2	43.5	6.5	171	0.84	6.05	305	3900	1.4	1.2	< 0.5	7.95	38.6	14	1.75	2.4	10.0	0.7	12.7
LT18-435R	3	0.51	87.5	0.4	3	5.3	2.3	31.6	0.01	1.99	167	354	0.5	< 0.1	< 0.5	0.05	2.3	38	1.02	0.3	1.58	< 0.1	3.5
LT18-436R	184	1.32	38.3	0.3	1	28.9	1.4	31.9	0.43	8.49	7760	2700	1.4	2.3	< 0.5	0.16	4.9	14	2.38	< 0.2	2.51	2.9	14.5
LT18-444R	35	0.99	100	0.3	< 1	21.6	3.1	59.6	5.82	9.68	192	665	1.5	4.7	< 0.5	2.11	29.9	11	1.16	0.6	7.62	2.2	17.8
LT18-445R	< 2	2.14	1170	0.2	13	76.7	6.9	42.4	> 20.0	4.66	33.9	35	0.4	22.9	< 0.5	3.17	255	12	0.25	0.5	21.5	1.4	13.9
LT18-447R	< 2	0.39	26.7	0.6	< 1	35.0	2.7	103	0.02	7.48	34.6	170	0.7	0.7	< 0.5	8.50	10.7	7	0.43	0.7	6.80	1.4	14.4
LT18-448R	42	10.2	614	0.4	3	54.4	3.6	163	0.29	2.56	73.9	386	0.4	12.1	< 0.5	3.12	24.8	17	1.10	0.3	6.72	0.1	9.3
LT18-449R	13	1.02	217	0.3	13	15.5	3.1	78.2	0.02	2.24	44.3	100	0.5	1.7	< 0.5	11.7	10.8	11	0.91	0.3	16.5	0.3	18.0
KD18-215R	< 2	0.54	36.6	< 0.1	< 1	6.4	4.2	32.1	0.09	8.01	4.6	2120	1.3	0.3	< 0.5	2.47	7.4	3	1.15	0.8	3.08	1.1	10.6
KD18-216R	7	0.59	26.2	0.1	< 1	8.4	29.1	100	0.06	8.61	2.7	1730	2.0	1.1	< 0.5	2.57	17.2	56	2.11	2.0	5.26	0.7	17.1
KD18-224R	< 2	0.40	48.1	< 0.1	2	7.7	3.4	52.1	2.40	9.03	4.1	1700	1.2	0.1	< 0.5	3.09	16.1	6	2.34	0.8	4.96	0.5	16.2
KD18-227R	12	2.04	610	0.2	< 1	5.5	4.5	136	0.07	10.1	7.5	2670	1.1	< 0.1	< 0.5	3.22	28.1	< 1	2.95	1.1	6.56	0.4	10.9
KD18-229R	48	1.32	84.0	1.4	2	42.6	6.6	229	2.85	8.74	81.3	1890	1.6	0.3	< 0.5	4.13	25.0	17	3.19	1.5	6.21	1.5	15.6
KD18-232R	< 2	5.97	65.8	0.4	< 1	13.3	1.1	58.5	0.41	3.35	15.2	784	0.5	0.1	< 0.5	0.87	3.7	24	1.15	< 0.2	14.8	1.3	3.6
KD18-236R	6	2.03	426	74.9	8	99.7	2.9	7870	0.46	6.72	62.7	2920	0.7	2.4	< 0.5	0.12	11.4	31	1.90	1.3	3.17	6.2	10.1
KD18-239R	< 2	2.23	42.2	0.3	1	58.3	6.7	191	0.29	7.94	158	2440	1.3	0.7	< 0.5	5.66	20.2	37	3.79	1.5	5.45	2.2	9.9
KD18-240R	6	24.8	54.2	5.7	5	2620	7.3	574	2.70	3.03	388	2090	3.0	0.2	< 0.5	19.6	23.1	14	2.70	3.2	2.76	0.8	5.7
KD18-244R	< 2	> 10000	> 10000	652	< 1	> 5000	1.8	8020	8.02	2.08	3470	7	0.6	4.7	< 0.5	0.10	< 0.1	< 1	1.61	< 0.2	6.33	0.5	4.0
KD18-249R	228	4.42	303	0.2	3	69.7	1.5	36.1	0.57	6.65	2260	2010	0.6	1.0	< 0.5	0.08	3.8	31	0.54	< 0.2	5.14	2.1	8.9
KD18-256R	143	72.8	> 10000	17.6	9	307	6.3	1780	> 20.0	2.36	443	8	0.5	7.5	< 0.5	0.11	509	23	0.52	< 0.2	19.1	0.8	6.5
KD18-263R	< 2	1.13	58.2	9.6	< 1	24.0	3.0	776	0.17	4.13	17.2	7690	1.1	< 0.1	< 0.5	12.8	13.3	< 1	4.20	3.8	5.50	0.7	1.6
KD18-264R	4	2.03	54.1	0.1	2	31.4	1.7	35.4	1.64	7.40	370	2660	1.6	< 0.1	< 0.5	0.48	9.3	< 1	1.37	0.9	8.22	1.8	12.4
KD18-283R	13	2.89	28.0	0.2	3	39.6	2.3	65.2	2.58	9.46	11.2	49	1.1	2.3	< 0.5	0.33	13.3	< 1	1.21	0.9	7.23	3.3	15.2
KD18-290R	22	1.47	613	9.2	2	75.7	3.9	829	1.70	3.81	48.0	136	0.6	1.5	< 0.5	10.7	20.3	10	2.44	1.3	6.21	0.7	8.2
KD18-294R	33	2.48	1720	1.1	11	62.0	1.9	74.1	1.61	2.60	38.6	867	0.3	2.4	< 0.5	0.08	8.7	32	0.67	< 0.2	2.77	1.2	3.6
KD18-294BR	41	1.52	423	0.2	26	28.7	4.8	58.6	1.65	5.22	62.8	875	0.7	2.0	< 0.5	0.51	20.6	35	1.59	< 0.2	7.33	0.9	15.0
KD18-297R	7	0.52	52.5	< 0.1	2	3.7	6.0	43.8	1.65	7.45	33.7	74	0.8	1.3	< 0.5	0.71	24.6	9	1.09	0.8	9.48	2.0	16.5
KD18-300R	6	1.43	601	0.2	4	24.4	12.1	105	0.11	6.68	19.8	91700	1.7	0.4	< 0.5	0.17	16.0	131	7.97	1.7	11.5	0.6	16.8
KD18-304R	12	4.87	1770	1.6	1	140	10.1	336	0.14	8.06	14.6	6840	2.3	0.4	< 0.5	4.55	27.3	9	7.89	1.1	7.60	0.5	6.5
KD18-305R	27	7.17	708	26.1	5	978	7.9	1270	1.09	4.32	596	2900	0.8	0.1	< 0.5	20.2	34.7	< 1	1.44	3.7	2.91	2.0	6.6
KD18-309R	15	28.8	> 10000	25.0	2	3520	5.9	304	5.01	3.67	49.8	4550	1.3	0.4	< 0.5	2.89	15.2	16	1.00	4.3	20.4	0.3	9.5
KD18-321R	< 2	0.93	65.7	0.3	3	26.0	3.2	24.6	0.01	0.73	72.7	100	0.1	0.1	< 0.5	0.19	2.2	33	0.29	0.3	1.60	< 0.1	1.2
KD18-323R	< 2	0.77	112	0.1	2	22.8	1.0	43.5	0.06	8.54	227	9920	1.5	0.2	< 0.5	0.16	2.8	< 1	2.40	< 0.2	2.68	< 0.1	14.5
KD18-324R	3	0.39	4.2	0.1	2	3.6	3.7	51.6	< 0.01	1.75	16.8	60	0.1	< 0.1	< 0.5	0.76	5.0	37	0.27	1.6	3.60	< 0.1	3.2

Results

Activation Laboratories Ltd.

Report: A18-15518

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
KD18-332R	< 2	0.53	71.5	< 0.1	< 1	10.2	6.0	38.3	0.29	5.56	20.9	97	1.3	0.2	< 0.5	3.92	6.6	13	0.48	0.8	5.28	1.8	12.9
KD18-336R	170	17.6	15.8	586	2	> 5000	4.0	28000	1.95	0.32	6.9	92500	0.1	0.2	< 0.5	6.41	5.1	24	0.14	2.2	3.88	< 0.1	1.1
KD18-342R	< 2	2.28	22.1	0.5	2	631	2.2	71.6	0.01	1.59	3.2	142	0.1	1.9	< 0.5	0.88	6.7	22	0.90	0.3	2.91	0.1	3.9
KD18-346R	9	1.14	11.0	0.3	16	37.8	1.8	23.8	0.08	1.43	46.2	1360	0.2	< 0.1	< 0.5	0.05	3.2	36	1.19	< 0.2	2.15	0.2	2.2
KD18-347R	< 2	0.28	6.3	0.1	2	12.2	1.6	6.3	< 0.01	1.59	2.2	190	0.2	< 0.1	< 0.5	1.38	0.9	32	0.98	0.2	1.79	< 0.1	4.9
KD18-349R	10	1.18	20.1	< 0.1	8	11.2	2.5	31.0	0.38	4.24	116	1550	0.8	< 0.1	< 0.5	0.29	4.6	22	2.75	0.6	3.43	0.3	8.0
AW18-351R	< 2	1.12	57.1	< 0.1	< 1	10.0	1.7	46.8	0.50	8.50	6.2	304	0.6	0.6	< 0.5	3.76	13.5	5	0.44	0.8	7.37	0.5	15.4
AW18-359R	24	72.7	303	30.6	3	219	3.0	209	2.59	1.80	54.6	1060	4.4	< 0.1	< 0.5	18.8	3.0	25	0.60	1.0	3.16	0.6	7.4
AW18-360R	229	0.64	19.6	0.7	2	22.1	6.7	71.1	1.49	7.21	45.7	3860	1.0	1.9	< 0.5	4.50	23.2	22	0.99	1.0	6.32	1.8	12.3
AW18-361R	14	272	2870	20.2	4	385	2.9	38.3	1.97	2.02	24.5	1240	1.3	< 0.1	< 0.5	8.99	5.5	22	0.64	0.4	2.66	1.0	5.4
AW18-362R	50	20.8	321	24.8	7	192	3.6	63.4	3.51	0.63	87.8	72	3.0	0.9	< 0.5	14.1	4.1	26	0.39	0.6	4.73	0.2	4.1
AW18-364R	1190	25.0	258	39.8	45	1810	9.3	2030	11.7	3.76	52.3	1520	0.7	9.1	< 0.5	4.65	57.5	23	0.75	1.2	11.6	1.7	7.0
AW18-365R	< 2	2.24	30.1	2.4	183	343	3.4	1180	9.93	4.15	683	42	1.4	< 0.1	< 0.5	10.1	21.9	4	45.0	0.6	14.9	1.5	10.1
AW18-367R	< 2	1.30	23.3	6.2	4	80.9	4.2	481	1.18	6.23	37.9	1400	0.6	< 0.1	< 0.5	0.23	17.0	11	1.76	0.9	4.04	1.9	9.3
AW18-370R	52	24.1	199	0.2	44	69.6	4.2	37.3	1.90	5.69	197	2420	1.8	2.2	< 0.5	0.15	12.4	24	1.90	< 0.2	3.73	2.2	8.5
AW18-371R	< 2	39.9	61.6	1.3	6	> 5000	3.0	56.4	3.73	7.35	1330	4300	1.5	0.5	< 0.5	0.21	12.2	11	5.74	< 0.2	4.27	3.8	12.4
AW18-373R	11	7.11	19.9	1.6	2	371	2.4	124	7.04	0.91	22.8	666	0.8	0.3	< 0.5	17.5	2.0	9	0.40	1.6	6.00	0.4	1.7
AW18-374R	84	95.4	1420	8.7	24	374	2.5	631	> 20.0	1.88	140	22	0.5	1.2	< 0.5	11.9	2.4	7	0.99	3.7	18.3	0.8	7.9
AW18-375R	< 2	0.82	190	< 0.1	2	8.0	1.6	27.7	4.92	0.54	27.1	48	1.1	0.3	< 0.5	8.76	238	5	11.5	< 0.2	17.7	< 0.1	3.7
AW18-377R	< 2	1.53	665	< 0.1	6	10.3	2.2	8.7	14.7	0.05	123	9	0.3	4.1	< 0.5	10.6	668	16	0.11	< 0.2	19.5	< 0.1	0.1
AW18-383R	< 2	0.36	18.7	< 0.1	< 1	6.7	8.3	24.2	0.79	7.39	18.8	1060	1.0	0.7	< 0.5	11.2	80.1	23	0.72	1.5	8.81	1.2	12.4
AW18-386R	< 2	209	284	837	14	> 5000	5.5	37000	10.6	1.13	218	14	0.5	2.5	< 0.5	4.58	45.4	13	0.75	0.6	9.14	0.3	2.5
AW18-389R	< 2	0.74	28.9	3.5	17	130	7.4	623	4.26	2.55	370	143	0.7	0.1	< 0.5	13.9	6.3	24	1.52	0.3	5.40	0.7	2.6
AW18-390R	< 2	1.07	28.2	1.4	20	89.9	7.1	178	4.00	3.63	368	81	1.3	0.2	< 0.5	9.68	7.2	22	7.82	0.7	6.28	1.2	5.4
AW18-392R	24	0.71	48.3	< 0.1	4	20.9	4.9	17.5	5.87	1.76	110	34	0.2	6.0	< 0.5	0.08	31.3	16	0.20	< 0.2	6.32	0.8	3.2
AW18-393R	< 2	0.32	15.2	1.1	< 1	10.7	2.7	101	0.07	8.61	31.3	1640	1.5	0.4	< 0.5	4.03	9.2	3	7.75	1.7	4.17	2.1	6.4
AW18-407R	< 2	0.27	141	0.2	< 1	11.1	1.7	16.5	4.75	0.54	551	38	2.8	0.6	< 0.5	10.6	170	< 1	0.16	< 0.2	12.3	< 0.1	2.6
AW18-410R	< 2	2.24	37.6	17.1	10	83.9	3.9	1010	1.30	0.33	27.0	70	0.2	0.1	< 0.5	7.19	9.8	54	0.38	0.3	4.32	< 0.1	0.4
AW18-412R	< 2	0.59	439	< 0.1	4	5.3	1.0	6.1	> 20.0	0.14	361	11	0.3	2.3	< 0.5	0.24	935	13	4.08	< 0.2	34.0	< 0.1	1.4
AW18-413R	< 2	0.34	106	0.5	2	20.0	2.7	43.7	1.59	0.59	21.1	604	4.1	0.6	< 0.5	11.2	17.2	7	2.91	< 0.2	10.2	0.2	1.6
AW18-417R	348	276	> 10000	4.2	87	1840	50.0	1110	> 20.0	3.43	1290	1670	0.9	0.7	< 0.5	0.03	377	14	2.13	8.9	31.5	1.1	17.1
AW18-425R	3	0.71	73.8	0.3	< 1	23.5	2.3	83.1	0.02	9.01	5.0	4340	1.0	0.4	< 0.5	0.30	3.7	24	2.98	0.6	3.40	3.2	< 0.1
AW18-426R	115	3.97	3200	5.7	3	54.2	9.7	589	0.45	8.55	97.6	5460	2.0	1.4	< 0.5	0.79	30.7	17	4.18	1.6	13.9	1.5	18.2
AW18-427R	111	19.9	> 10000	8.8	3	201	18.4	427	8.41	1.68	294	1140	0.7	3.0	< 0.5	7.93	59.6	12	1.03	4.4	19.8	0.3	7.2
AW18-428R	59	1.43	442	5.0	12	89.6	8.3	394	0.20	5.96	73.3	10900	0.9	0.7	< 0.5	4.49	23.8	12	2.24	1.5	10.0	0.5	3.9
AW18-441R	14	1.79	136	< 0.1	2	2.7	2.9	24.0	< 0.01	1.72	3.0	187	0.3	0.1	< 0.5	0.03	4.6	41	0.80	0.3	2.44	0.4	2.5
AW18-442AR	437	2.40	28.0	0.1	2	23.8	1.0	21.8	0.81	7.70	> 10000	230	1.4	4.6	< 0.5	0.10	3.6	< 1	3.00	< 0.2	3.52	2.3	14.2
AW18-442BR	2	0.43	8.8	< 0.1	2	4.4	1.9	7.2	< 0.01	0.61	95.3	80	< 0.1	0.1	< 0.5	0.02	0.7	42	0.24	< 0.2	1.07	0.1	0.7
AW18-444R	7	0.50	26.9	6.9	< 1	7.4	2.5	469	0.87	10.1	38.0	2640	1.5	< 0.1	< 0.5	0.45	9.5	< 1	4.34	1.0	6.80	1.6	17.9

Results

Activation Laboratories Ltd.

Report: A18-15518

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
AW18-445R	< 2	0.32	45.3	0.2	1	7.1	2.5	53.9	< 0.01	5.30	3.3	185	0.7	< 0.1	< 0.5	1.59	6.1	6	0.50	1.1	3.27	1.4	9.7
AW18-447R	2700	22.1	149	0.3	2	50.6	1.6	36.7	4.22	1.46	> 10000	28	0.2	36.4	< 0.5	0.03	6.2	< 1	1.14	< 0.2	8.00	0.2	4.2
AW18-466R	9	0.22	20.6	< 0.1	2	5.0	3.1	7.4	5.85	9.26	19.9	85	1.1	0.8	< 0.5	1.04	12.9	7	0.70	< 0.2	7.51	1.6	12.8
AW18-467R	< 2	20.1	438	917	< 1	> 5000	2.5	43200	2.85	1.32	28.6	2480	0.2	0.2	< 0.5	6.27	2.3	< 1	0.82	< 0.2	4.53	0.3	2.5
AW18-469R	< 2	0.36	33.6	0.1	1	29.5	4.3	13.2	5.26	8.29	11.4	95	0.9	1.1	< 0.5	4.07	60.8	10	0.32	1.0	7.19	1.3	14.9
AW18-470R	< 2	5.38	431	1.3	1	20.8	2.0	132	0.06	8.52	10.0	2970	1.8	< 0.1	< 0.5	0.47	5.7	19	4.68	< 0.2	2.44	0.4	6.5
AW18-485R	50	0.73	27.1	< 0.1	< 1	21.7	4.9	32.3	3.03	7.56	53.4	4720	0.5	2.4	< 0.5	0.20	19.0	13	0.58	0.4	11.5	1.3	15.5
PM18-021R	< 2	2.89	64.0	12.9	4	1180	7.5	1740	0.11	10.2	83.0	5340	3.8	< 0.1	< 0.5	0.37	23.7	27	16.4	1.0	3.87	0.2	14.7
PM18-026R	3	7.66	28.5	1.5	10	749	4.4	67.9	2.57	6.22	224	3420	1.8	< 0.1	< 0.5	< 0.01	16.8	29	2.88	0.8	2.93	3.4	13.2
PM18-027R	< 2	3.39	12.9	0.2	4	149	0.7	21.8	0.27	7.06	22.6	3990	0.5	< 0.1	< 0.5	0.01	0.6	7	2.12	< 0.2	1.19	3.2	4.8
PM18-028R	< 2	2.26	14.2	3.6	3	33.7	4.3	166	0.62	7.20	54.0	5470	1.1	< 0.1	< 0.5	0.03	15.2	47	3.55	0.4	1.57	4.1	10.1
PM18-029R	< 2	2.02	10.8	0.1	9	107	0.7	28.8	0.12	5.89	56.9	4420	0.6	0.1	< 0.5	< 0.01	0.9	19	2.57	0.3	3.01	3.4	0.6
PM18-030R	< 2	1.42	25.8	0.4	6	23.3	3.4	46.8	0.20	6.09	36.8	3770	0.6	< 0.1	< 0.5	0.07	7.6	88	1.95	0.8	2.01	3.2	8.2
PM18-055R	< 2	1.75	21.2	2.2	3	64.3	2.7	158	3.46	5.49	388	4870	1.2	< 0.1	< 0.5	0.03	8.6	32	3.05	0.2	3.71	3.0	8.4
PM18-055F	< 2	6.57	22.3	35.1	22	202	2.7	1610	11.4	4.23	195	2670	1.1	< 0.1	< 0.5	0.98	8.1	16	2.51	1.0	9.74	2.4	9.0
PM18-056R	< 2	4.73	33.0	15.6	3	221	5.0	762	2.29	7.80	205	7090	1.7	< 0.1	< 0.5	< 0.01	24.0	20	2.80	0.6	2.40	4.1	9.3
PM18-058R	< 2	2.08	14.3	0.3	6	36.0	3.9	45.9	0.76	4.83	61.4	3200	0.7	< 0.1	< 0.5	0.02	13.8	73	1.81	0.2	2.09	2.7	6.1
PM18-059R	4	7.30	17.7	< 0.1	11	48.3	2.0	17.2	5.01	4.35	301	2520	0.8	< 0.1	< 0.5	< 0.01	6.1	30	2.35	< 0.2	4.85	2.7	9.4
PM18-064R	9	1.23	65.7	< 0.1	8	13.3	23.5	11.0	0.41	8.10	37.5	694	1.8	0.2	< 0.5	0.12	7.9	55	2.42	0.9	2.41	2.4	16.4
PM18-077R	3	1.36	105	< 0.1	< 1	18.7	9.4	14.4	0.11	0.59	47.1	210	4.1	0.8	< 0.5	4.80	7.6	9	0.43	< 0.2	15.8	0.3	4.7
PM18-090R	1160	3.07	24.1	0.8	3	36.6	8.1	42.2	1.29	3.51	> 10000	80	0.4	0.2	< 0.5	0.37	4.5	49	0.68	< 0.2	5.99	0.6	6.8
PM18-091R	2180	251	300	71.0	4	> 5000	13.6	7370	7.29	0.86	196	10	0.2	< 0.1	< 0.5	0.07	5.3	34	0.10	< 0.2	5.28	< 0.1	2.0
PM18-112R	244	2.00	> 10000	0.2	12	24.5	1.7	30.9	1.38	2.43	54.8	1140	0.5	2.7	< 0.5	1.84	7.7	13	1.20	1.3	5.05	0.5	7.4
PM18-120R	3	0.74	11.9	< 0.1	2	49.4	1.5	40.6	0.38	7.48	9.1	900	1.6	0.4	< 0.5	0.88	8.0	12	3.56	0.7	3.20	3.2	10.2
PM18-173F	< 2	21.9	187	43.2	209	2280	4.8	5690	> 20.0	0.64	1300	20	0.6	< 0.1	< 0.5	0.05	12.8	36	0.48	< 0.2	22.5	0.4	2.1
PM18-179R	< 2	1.83	678	0.1	12	22.6	6.6	37.8	> 20.0	3.47	79.1	39	0.8	2.3	< 0.5	3.51	466	16	1.43	0.4	25.7	1.0	9.9
PM18-197R	< 2	0.54	30.3	0.2	< 1	18.4	1.7	58.4	1.50	8.84	9.1	1940	1.4	< 0.1	< 0.5	0.52	7.1	7	11.8	1.3	3.92	1.0	14.7
PM18-198R	< 2	0.61	43.6	0.2	1	11.5	4.9	78.0	5.31	9.37	29.0	2150	2.0	< 0.1	< 0.5	0.97	18.5	10	7.39	1.1	5.44	2.7	18.1
PM18-145R	52	1.05	202	< 0.1	2	20.9	2.7	60.7	4.02	8.21	3.8	1130	1.4	1.5	< 0.5	0.63	17.5	9	1.62	0.6	5.84	0.7	12.8
PM18-204R	13	0.88	293	0.2	2	10.8	1.9	41.9	0.31	7.96	3.8	48	0.7	2.3	< 0.5	0.20	9.5	16	0.12	< 0.2	2.27	2.3	12.3
PM18-205R	37	6.12	81.9	1.0	89	241	5.8	71.3	> 20.0	4.63	86.1	1050	1.7	19.8	< 0.5	0.03	86.7	15	2.91	0.4	16.1	2.2	18.2
PM18-216R	640	1.96	> 10000	0.2	5	6.9	6.2	43.6	10.4	5.26	218	35	0.4	2.5	< 0.5	0.18	65.3	19	0.52	< 0.2	17.4	1.1	15.1
PM18-217R	25	1.67	16.7	6.6	12	120	1.3	464	1.75	5.22	147	8090	0.6	1.0	< 0.5	0.08	3.6	17	3.61	< 0.2	4.64	0.4	8.3
PM18-222R	< 2	0.70	58.3	1.0	4	16.4	3.3	68.0	0.05	5.52	4.0	998	1.0	0.2	< 0.5	4.05	4.2	11	2.67	0.6	3.18	0.1	6.2
PM18-231R	< 2	0.27	7.2	1.5	5	8.8	8.6	163	0.10	1.12	21.7	3200	0.5	< 0.1	< 0.5	12.9	32.1	12	1.12	0.9	15.6	< 0.1	< 0.1
PM18-233R	6	1.08	26.8	0.1	3	23.8	2.5	21.8	3.06	5.06	18.2	2900	0.5	9.3	< 0.5	4.99	27.8	8	0.34	0.9	13.8	1.2	13.4
PM18-241R	< 2	3180	6130	> 2000	< 1	> 5000	1.6	> 100000	18.9	0.61	230	3070	< 0.1	6.1	< 0.5	0.03	17.9	< 1	0.30	< 0.2	< 0.01	0.2	1.4
PM18-245R	497	4.52	39.1	16.2	4	118	3.8	1430	0.39	4.66	50.8	370	0.6	0.1	< 0.5	1.33	11.4	36	1.73	< 0.2	2.02	0.7	6.5

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
PM18-254R	< 2	5.12	173	2.8	29	72.4	5.1	182	0.02	2.83	73.8	235	0.9	1.2	< 0.5	11.6	9.6	8	1.92	0.5	19.0	0.7	22.9

Results

Activation Laboratories Ltd.

Report: A18-15518

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
LT18-294AR	0.2	< 10	< 0.1	< 5	2.17	46.4	1.31	567	9.1	0.46	0.156	94.6	0.005	5.3	19.0	3.0	2	73.2	0.5	0.3	0.6	0.51	5.3
LT18-294BR	0.1	< 10	< 0.1	< 5	2.39	31.0	0.89	689	6.7	1.96	0.094	88.5	0.002	3.3	12.6	1.4	1	138	0.4	< 0.1	< 0.5	0.34	2.9
LT18-294CR	0.3	< 10	< 0.1	< 5	2.73	30.3	1.35	598	8.3	2.44	0.096	98.5	< 0.001	2.1	17.4	0.8	2	167	0.5	0.1	< 0.5	0.44	5.0
LT18-301AR	< 0.1	< 10	< 0.1	< 5	1.48	6.5	1.37	801	5.0	1.61	0.049	40.6	< 0.001	1.0	8.6	3.2	2	141	0.3	1.0	< 0.5	0.19	6.4
LT18-301BR	< 0.1	10	< 0.1	< 5	1.90	11.3	0.72	355	7.4	3.58	0.059	53.7	0.004	0.8	5.9	1.4	1	174	0.5	0.1	< 0.5	0.22	9.5
LT18-301CR	< 0.1	20	< 0.1	< 5	0.10	2.6	0.63	521	0.2	0.09	0.002	3.6	0.002	1.0	3.9	2.4	2	18.2	< 0.1	0.4	< 0.5	0.01	0.9
LT18-304R	0.1	230	< 0.1	< 5	1.15	1.6	0.05	542	0.6	0.04	0.018	27.0	0.001	22.8	2.8	1.4	< 1	24.2	< 0.1	< 0.1	< 0.5	0.07	0.7
LT18-305R	< 0.1	70	< 0.1	< 5	2.07	4.2	0.85	4360	0.9	0.07	0.040	43.3	0.004	5.3	9.4	0.4	< 1	395	< 0.1	< 0.1	< 0.5	0.12	0.8
LT18-306R	0.1	1050	0.4	< 5	1.05	21.4	0.67	2090	1.8	0.08	0.024	26.8	0.001	2.3	4.4	1.2	< 1	125	< 0.1	< 0.1	< 0.5	0.10	2.1
LT18-307R	0.1	1310	< 0.1	< 5	2.21	2.4	0.06	1750	2.3	0.11	0.024	68.8	0.009	15.8	4.3	1.7	1	22.4	0.1	< 0.1	< 0.5	0.09	1.1
LT18-317R	0.2	40	< 0.1	< 5	3.83	20.1	0.49	6260	1.6	0.15	0.102	167	0.002	4.2	24.8	0.6	< 1	260	< 0.1	< 0.1	< 0.5	0.36	2.1
LT18-318R	0.2	8120	2.1	< 5	1.13	17.6	0.07	415	1.2	0.04	0.011	34.6	0.003	33.4	3.0	8.5	2	8.1	< 0.1	< 0.1	< 0.5	0.05	1.3
LT18-321R	< 0.1	640	0.1	< 5	3.11	55.2	0.40	5390	2.4	0.10	0.063	143	0.004	51.8	15.3	0.9	< 1	445	< 0.1	< 0.1	< 0.5	0.25	2.2
LT18-324R	0.8	40	0.3	< 5	0.05	78.1	3.04	723	5.2	0.03	0.108	1.3	0.004	7.6	9.4	2.7	3	8.9	0.2	< 0.1	< 0.5	0.28	7.5
LT18-333R	0.1	10	< 0.1	< 5	2.02	21.7	1.05	1430	6.2	2.87	0.141	69.6	0.002	2.6	19.0	0.7	< 1	253	0.3	< 0.1	< 0.5	0.48	4.9
LT18-334R	< 0.1	70	< 0.1	< 5	0.29	15.3	0.79	2560	1.0	0.20	0.025	12.7	0.006	2.9	2.6	0.8	< 1	> 1000	< 0.1	< 0.1	< 0.5	0.06	1.2
LT18-336R	0.2	220	1.4	< 5	1.75	19.2	0.15	1150	0.9	0.07	0.060	70.3	0.003	122	7.2	3.9	1	8.6	< 0.1	< 0.1	< 0.5	0.18	1.3
LT18-339R	0.2	180	< 0.1	< 5	1.81	2.9	0.08	129	2.1	1.43	0.077	47.5	0.002	13.3	12.4	1.7	< 1	109	< 0.1	< 0.1	< 0.5	0.30	3.8
LT18-343R	0.2	30	< 0.1	< 5	0.44	28.0	0.62	396	3.2	1.40	0.033	14.0	0.002	5.1	4.2	1.6	< 1	35.8	0.2	0.2	< 0.5	0.14	5.5
LT18-345R	< 0.1	20	< 0.1	< 5	2.36	14.5	0.46	757	4.2	2.40	0.126	63.4	0.005	3.0	18.2	0.7	< 1	58.2	0.2	< 0.1	< 0.5	0.46	1.1
LT18-351R	0.3	530	< 0.1	< 5	1.28	11.9	0.16	1400	0.5	0.84	0.041	45.6	0.002	1290	7.9	1.7	< 1	62.2	< 0.1	< 0.1	< 0.5	0.16	2.1
LT18-352RA	< 0.1	50	0.1	< 5	0.55	19.5	0.16	143	2.0	1.25	0.020	17.1	0.003	8.8	5.1	0.9	< 1	34.7	< 0.1	< 0.1	< 0.5	0.15	2.2
LT18-352RB	0.1	40	0.3	< 5	0.85	30.1	0.44	203	3.0	0.93	0.028	26.8	< 0.001	6.2	5.7	2.3	< 1	36.4	0.2	0.1	< 0.5	0.13	1.0
LT18-352RC	< 0.1	10	< 0.1	< 5	1.22	32.9	0.50	220	4.3	1.64	0.028	39.4	< 0.001	7.1	6.4	0.9	< 1	79.1	0.2	< 0.1	< 0.5	0.21	7.9
LT18-352RD	< 0.1	110	< 0.1	< 5	0.59	30.0	0.30	269	2.2	0.97	0.032	20.0	0.002	7.2	5.3	0.9	< 1	43.4	< 0.1	< 0.1	< 0.5	0.15	1.7
LT18-352R	0.1	70	< 0.1	< 5	0.93	29.4	0.67	345	4.3	2.38	0.028	30.4	< 0.001	8.6	8.6	1.2	< 1	81.7	0.2	< 0.1	< 0.5	0.31	6.1
LT18-364R	0.1	120	< 0.1	< 5	2.27	13.4	0.55	6800	2.9	0.07	0.085	119	0.002	4.0	15.3	0.7	< 1	326	0.1	< 0.1	< 0.5	0.27	2.6
LT18-368R	0.2	70	< 0.1	< 5	2.78	40.1	0.81	2370	6.3	0.14	0.134	168	0.001	4.0	12.9	0.6	1	579	0.4	< 0.1	< 0.5	0.39	6.8
LT18-401R	0.8	< 10	0.6	< 5	0.61	16.8	1.88	1460	1.0	0.68	0.050	33.1	0.003	5.3	16.0	7.7	3	429	< 0.1	0.8	< 0.5	0.24	0.9
LT18-404R	< 0.1	< 10	< 0.1	< 5	0.08	2.7	0.12	146	6.1	6.31	0.050	1.7	0.007	1.0	4.6	0.5	1	70.4	0.5	< 0.1	< 0.5	0.19	13.9
LT18-409R	< 0.1	< 10	< 0.1	< 5	1.20	42.3	1.23	677	1.6	0.59	0.058	33.3	0.002	4.3	8.1	1.0	< 1	62.9	< 0.1	< 0.1	< 0.5	0.22	1.3
LT18-410R	0.1	30	0.2	< 5	0.86	37.0	1.87	2130	2.4	0.54	0.074	27.0	0.004	1.8	7.5	3.0	< 1	75.1	0.1	< 0.1	0.9	0.18	1.3
LT18-413R	0.1	1550	< 0.1	< 5	0.75	32.6	0.67	563	4.3	1.39	0.067	28.3	0.003	43.3	5.3	2.1	1	320	0.1	< 0.1	< 0.5	0.20	0.3
LT18-414R	0.1	160	< 0.1	< 5	1.35	38.2	1.43	1430	4.5	0.56	0.048	49.4	0.001	6.1	4.8	0.5	< 1	> 1000	0.2	< 0.1	< 0.5	0.16	5.8
LT18-415R	0.1	150	< 0.1	< 5	2.07	20.7	0.61	463	2.6	0.13	0.042	54.2	0.003	29.5	6.6	1.4	1	61.2	0.1	< 0.1	< 0.5	0.21	1.0
LT18-419R	0.2	120	< 0.1	< 5	0.85	7.9	0.65	347	2.5	0.76	0.034	22.9	0.004	13.1	4.7	7.0	< 1	70.0	0.1	1.4	< 0.5	0.13	2.8
LT18-420R	0.3	30	< 0.1	< 5	0.22	52.4	3.39	1000	4.4	2.73	0.169	6.2	0.004	2.5	17.5	0.8	3	358	< 0.1	< 0.1	< 0.5	0.48	5.9
LT18-423R	0.2	80	0.1	< 5	0.04	5.5	3.87	1640	0.2	0.07	0.026	1.1	0.001	9.1	0.4	2.6	< 1	28.4	< 0.1	0.6	< 0.5	< 0.01	0.5
LT18-424R	0.7	30	< 0.1	< 5	2.70	5.1	0.14	80	6.0	2.03	0.025	63.0	0.006	1.6	4.3	1.4	< 1	93.1	0.4	0.4	< 0.5	0.19	2.9
LT18-425R	0.6	< 10	0.1	< 5	6.01	11.4	0.15	4090	0.3	0.09	0.087	158	0.002	7.3	18.3	0.9	1	119	< 0.1	< 0.1	< 0.5	0.35	2.0

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
LT18-426R	0.3	180	0.3	< 5	3.78	3.6	0.03	208	4.8	0.08	0.058	142	0.044	34.8	9.3	27.5	5	12.2	0.3	0.1	< 0.5	0.23	0.4
LT18-429R	0.4	< 10	< 0.1	< 5	2.08	14.5	0.28	4030	3.4	1.21	0.062	45.2	0.001	2.8	4.9	0.6	< 1	91.3	0.1	< 0.1	< 0.5	0.20	5.4
LT18-430R	0.3	40	0.8	< 5	0.92	20.1	0.53	2160	0.5	0.04	0.025	30.0	0.004	19.1	30.5	17.0	2	44.4	< 0.1	< 0.1	< 0.5	0.08	0.4
LT18-431R	0.3	40	0.4	< 5	4.36	19.0	0.35	8170	1.2	0.11	0.085	131	0.002	10.7	15.8	1.0	< 1	292	< 0.1	< 0.1	< 0.5	0.33	1.4
LT18-435R	< 0.1	10	< 0.1	< 5	0.61	3.0	0.16	978	1.8	0.39	0.023	20.8	0.001	1.8	1.3	0.2	< 1	33.5	< 0.1	< 0.1	< 0.5	0.06	1.8
LT18-436R	0.1	10	< 0.1	< 5	1.79	8.2	0.59	300	6.4	2.49	0.045	61.8	0.001	14.3	5.1	0.9	< 1	204	0.2	< 0.1	< 0.5	0.20	6.6
LT18-444R	0.1	40	< 0.1	< 5	1.13	34.3	2.17	644	6.5	3.31	0.130	33.1	0.002	0.7	15.1	2.6	1	597	0.4	12.7	< 0.5	0.45	5.3
LT18-445R	0.4	100	< 0.1	< 5	0.02	22.9	2.09	1170	3.7	0.24	0.059	< 0.2	0.010	3.4	9.3	18.0	< 1	301	0.3	12.1	< 0.5	0.24	3.0
LT18-447R	1.0	< 10	0.2	< 5	0.57	22.7	0.68	2780	2.7	1.75	0.119	15.8	0.005	10.6	8.1	0.4	< 1	708	0.1	0.1	< 0.5	0.30	3.0
LT18-448R	< 0.1	< 10	0.2	< 5	0.57	29.0	1.08	2060	0.7	0.29	0.016	18.2	0.002	1.8	2.7	1.1	3	110	< 0.1	0.4	< 0.5	0.05	0.4
LT18-449R	0.2	< 10	1.4	< 5	0.26	19.7	0.47	3440	1.2	0.21	0.033	12.2	< 0.001	1.8	2.9	0.2	22	157	< 0.1	< 0.1	< 0.5	0.08	0.8
KD18-215R	0.4	< 10	< 0.1	< 5	1.94	10.4	0.77	546	0.8	2.34	0.062	40.0	0.001	1.6	5.3	0.5	< 1	290	< 0.1	< 0.1	< 0.5	0.20	7.8
KD18-216R	0.2	< 10	< 0.1	< 5	1.99	24.7	2.22	924	< 0.1	2.47	0.184	33.4	0.003	0.7	11.6	0.6	< 1	658	< 0.1	< 0.1	0.8	0.12	5.4
KD18-224R	0.1	< 10	< 0.1	< 5	1.76	22.0	1.89	1050	5.4	2.02	0.073	54.2	0.003	1.3	12.4	1.8	1	455	0.4	< 0.1	< 0.5	0.35	6.3
KD18-227R	0.3	< 10	< 0.1	< 5	2.13	37.2	2.42	1750	< 0.1	2.59	0.112	58.7	0.004	6.2	28.3	0.7	< 1	347	< 0.1	< 0.1	< 0.5	0.21	3.4
KD18-229R	0.2	40	< 0.1	< 5	2.44	7.5	1.24	1710	4.1	0.19	0.154	92.7	0.002	9.3	20.6	0.8	1	150	0.2	0.1	< 0.5	0.42	4.7
KD18-232R	0.1	20	0.4	< 5	2.40	7.3	0.80	13800	3.5	0.08	0.025	75.6	0.002	16.6	9.1	0.4	1	24.3	0.3	< 0.1	< 0.5	0.08	7.4
KD18-236R	0.2	290	< 0.1	< 5	2.42	12.9	0.21	2210	13.8	0.17	0.042	97.8	0.002	12.4	9.7	0.5	2	39.1	0.9	< 0.1	< 0.5	0.30	19.8
KD18-239R	0.4	< 10	< 0.1	< 5	4.59	32.7	1.07	4350	4.4	0.17	0.116	205	0.002	21.9	23.1	0.6	< 1	579	0.2	< 0.1	0.9	0.46	5.7
KD18-240R	0.1	< 10	< 0.1	< 5	2.38	21.8	0.08	3290	2.4	0.12	0.066	96.5	0.007	49.5	7.7	0.6	2	317	< 0.1	< 0.1	< 0.5	0.14	2.0
KD18-244R	0.3	30	< 0.1	< 5	0.91	0.9	0.10	326	< 0.1	0.37	0.054	31.4	0.001	> 10000	2.1	5.3	< 1	27.5	< 0.1	< 0.1	< 0.5	0.12	0.8
KD18-249R	0.1	< 10	< 0.1	< 5	2.20	20.8	0.66	306	4.6	2.60	0.040	49.2	0.005	6.7	8.4	0.7	< 1	101	0.3	< 0.1	< 0.5	0.27	8.0
KD18-256R	0.2	140	0.2	< 5	0.38	29.4	0.41	362	1.6	0.43	0.018	12.6	0.002	34.8	3.0	9.9	< 1	10.8	< 0.1	0.8	< 0.5	0.06	2.9
KD18-263R	0.2	240	< 0.1	< 5	0.77	13.9	1.87	9930	3.0	0.06	0.070	45.1	0.002	22.0	30.3	1.3	< 1	456	< 0.1	< 0.1	2.2	0.19	3.4
KD18-264R	0.2	120	< 0.1	< 5	3.66	27.9	0.38	1150	4.3	0.15	0.108	174	0.001	86.0	13.8	0.5	1	401	< 0.1	< 0.1	< 0.5	0.36	6.9
KD18-283R	0.1	20	< 0.1	< 5	1.05	21.3	1.42	461	8.1	5.53	0.140	36.2	0.002	1.8	13.8	1.6	2	127	0.4	1.5	< 0.5	0.41	9.0
KD18-290R	0.1	70	< 0.1	< 5	0.82	45.0	1.54	2770	1.4	0.56	0.049	31.2	0.002	5.1	12.6	0.9	< 1	209	< 0.1	< 0.1	< 0.5	0.21	1.7
KD18-294R	0.2	10	< 0.1	< 5	0.71	25.4	0.09	125	2.9	1.20	0.017	21.0	0.004	4.0	2.8	0.4	< 1	47.9	0.2	< 0.1	< 0.5	0.07	5.3
KD18-294BR	0.2	20	< 0.1	< 5	1.14	59.1	1.82	1130	2.0	1.12	0.072	32.3	0.002	4.8	18.1	0.7	1	89.1	< 0.1	< 0.1	< 0.5	0.32	1.8
KD18-297R	0.3	< 10	< 0.1	< 5	0.07	68.5	3.01	1280	4.6	3.32	0.108	1.3	0.003	1.7	22.4	1.6	1	136	0.2	< 0.1	< 0.5	0.47	4.5
KD18-300R	0.5	< 10	0.2	< 5	5.46	15.2	0.38	739	1.7	0.12	0.079	213	0.001	12.3	33.5	0.4	1	> 1000	< 0.1	< 0.1	< 0.5	0.45	0.7
KD18-304R	0.5	< 10	< 0.1	< 5	5.60	11.9	0.54	5210	0.5	0.47	0.131	228	0.001	22.6	28.0	1.8	< 1	429	< 0.1	< 0.1	< 0.5	0.42	2.1
KD18-305R	0.2	130	0.4	< 5	4.20	4.3	0.08	9200	4.2	0.12	0.051	115	0.006	40.6	15.1	0.9	2	214	0.2	< 0.1	1.3	0.15	5.8
KD18-309R	0.4	150	0.8	< 5	1.46	39.5	1.23	7340	1.2	0.12	0.066	40.5	0.002	18.0	19.5	31.0	< 1	88.9	< 0.1	< 0.1	< 0.5	0.18	0.6
KD18-321R	0.1	< 10	< 0.1	< 5	0.12	2.9	0.15	559	0.6	0.34	0.013	3.7	0.002	6.0	0.8	< 0.1	< 1	24.3	< 0.1	< 0.1	< 0.5	0.02	0.4
KD18-323R	0.1	20	< 0.1	< 5	1.59	8.2	0.65	391	2.5	3.55	0.042	37.3	< 0.001	2.5	6.4	0.1	< 1	370	< 0.1	< 0.1	< 0.5	0.22	7.6
KD18-324R	< 0.1	30	< 0.1	< 5	0.10	21.3	1.06	889	0.1	0.04	0.007	2.8	0.002	1.6	0.9	< 0.1	< 1	59.5	< 0.1	< 0.1	< 0.5	< 0.01	0.7
KD18-332R	0.9	20	< 0.1	< 5	0.23	22.4	1.30	973	4.9	4.29	0.090	1.8	0.001	5.7	19.5	0.7	< 1	414	0.3	< 0.1	< 0.5	0.39	1.6
KD18-336R	0.1	30	< 0.1	< 5	0.13	5.5	1.51	1890	0.1	0.02	0.006	3.8	0.002	8.9	1.2	1.9	< 1	378	< 0.1	< 0.1	0.7	0.02	0.2
KD18-342R	0.1	10	< 0.1	< 5	0.36	13.5	0.62	912	0.5	0.24	0.012	13.5	0.003	1.0	2.3	8.4	< 1	33.5	< 0.1	< 0.1	< 0.5	0.04	0.4

Results

Activation Laboratories Ltd.

Report: A18-15518

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
KD18-346R	0.2	40	< 0.1	< 5	1.41	2.7	0.10	124	1.1	0.06	0.033	26.0	0.001	1.8	3.3	0.2	< 1	17.5	< 0.1	< 0.1	< 0.5	0.11	0.7
KD18-347R	0.2	< 10	< 0.1	< 5	0.50	1.3	0.07	330	0.3	0.12	0.011	20.9	0.001	2.3	2.1	0.4	< 1	929	< 0.1	< 0.1	< 0.5	0.03	0.3
KD18-349R	0.2	30	< 0.1	< 5	2.05	12.9	0.50	344	2.4	0.14	0.068	77.0	< 0.001	3.9	6.9	0.6	< 1	42.5	< 0.1	< 0.1	< 0.5	0.22	1.7
AW18-351R	0.5	30	0.1	< 5	0.47	10.3	2.03	827	1.2	4.81	0.084	9.9	0.001	4.9	17.3	0.9	< 1	480	< 0.1	< 0.1	< 0.5	0.39	2.8
AW18-359R	< 0.1	2740	< 0.1	< 5	1.96	2.9	0.21	6780	1.3	0.05	0.018	41.6	0.001	59.8	2.7	0.2	< 1	322	< 0.1	< 0.1	< 0.5	0.05	1.4
AW18-360R	0.2	70	< 0.1	< 5	3.21	2.7	0.53	3050	4.0	0.25	0.103	99.1	0.002	3.5	20.1	0.7	1	301	0.2	< 0.1	< 0.5	0.36	5.0
AW18-361R	1.4	1630	< 0.1	< 5	2.54	4.2	0.08	2990	1.9	0.11	0.024	58.8	0.001	47.2	2.7	0.8	< 1	218	0.1	< 0.1	< 0.5	0.08	2.2
AW18-362R	< 0.1	270	< 0.1	< 5	0.33	2.2	0.11	5080	0.4	0.15	0.008	10.8	< 0.001	34.7	3.5	0.2	< 1	344	< 0.1	< 0.1	< 0.5	0.02	0.6
AW18-364R	0.2	40	< 0.1	< 5	4.81	3.8	0.90	4370	3.1	0.10	0.040	79.7	0.006	14.6	7.2	1.2	< 1	147	0.2	0.1	< 0.5	0.12	0.9
AW18-365R	0.1	20	< 0.1	< 5	2.07	82.8	1.25	7890	3.3	1.38	0.046	143	0.008	20.6	5.7	0.4	< 1	403	0.2	< 0.1	< 0.5	0.16	2.9
AW18-367R	0.2	40	< 0.1	< 5	5.40	20.3	0.27	549	5.1	0.12	0.088	164	< 0.001	8.3	4.9	0.5	2	31.5	0.2	< 0.1	< 0.5	0.26	7.8
AW18-370R	0.2	100	< 0.1	< 5	2.65	48.8	0.25	105	4.4	0.46	0.083	95.0	0.025	10.6	13.6	5.1	3	99.7	0.2	0.2	< 0.5	0.40	4.8
AW18-371R	0.2	520	< 0.1	< 5	3.56	7.7	0.11	159	8.3	0.14	0.057	128	0.002	114	8.4	0.8	2	51.5	0.2	< 0.1	< 0.5	0.37	13.7
AW18-373R	< 0.1	50	< 0.1	< 5	0.91	4.9	0.08	3630	1.0	0.02	0.008	21.9	< 0.001	10.3	4.1	0.6	< 1	389	< 0.1	< 0.1	< 0.5	0.02	2.2
AW18-374R	0.2	370	0.5	< 5	1.97	3.7	0.12	2810	1.8	0.04	0.012	39.8	0.001	123	5.3	2.6	< 1	> 1000	< 0.1	< 0.1	< 0.5	0.04	11.8
AW18-375R	0.1	< 10	0.2	< 5	0.23	3.1	0.91	3150	0.3	0.03	0.025	12.3	0.005	3.9	0.5	9.5	4	93.2	< 0.1	< 0.1	< 0.5	< 0.01	0.6
AW18-377R	0.2	30	< 0.1	< 5	0.01	2.5	0.48	1660	< 0.1	0.02	0.073	0.5	0.012	8.2	1.8	40.5	< 1	61.4	< 0.1	0.6	< 0.5	< 0.01	0.4
AW18-383R	0.7	30	0.2	< 5	0.11	31.1	1.51	1460	1.2	0.53	0.117	3.6	0.001	12.2	20.4	1.3	1	890	< 0.1	< 0.1	< 0.5	0.37	4.0
AW18-386R	0.2	20	< 0.1	< 5	0.51	9.5	0.82	3510	0.5	0.03	0.033	14.3	0.008	294	2.8	4.9	< 1	163	< 0.1	0.2	< 0.5	0.04	0.8
AW18-389R	0.1	< 10	< 0.1	< 5	0.66	18.1	0.32	4740	1.4	0.68	0.071	26.9	0.007	26.1	5.9	0.6	< 1	248	< 0.1	< 0.1	< 0.5	0.12	1.5
AW18-390R	0.2	20	< 0.1	< 5	1.13	19.7	0.38	5940	2.7	0.53	0.081	52.4	0.012	39.3	8.0	1.0	< 1	260	0.2	< 0.1	< 0.5	0.15	2.9
AW18-392R	0.1	10	< 0.1	< 5	0.21	14.1	0.09	135	1.7	1.05	0.009	5.6	0.005	2.2	2.6	2.5	< 1	25.1	0.1	0.2	< 0.5	0.12	2.1
AW18-393R	0.6	20	< 0.1	< 5	2.67	16.1	0.61	1290	0.3	1.73	0.069	81.8	< 0.001	2.2	11.2	< 0.1	< 1	141	< 0.1	< 0.1	0.6	0.25	5.4
AW18-407R	0.1	60	< 0.1	< 5	0.02	9.8	5.77	2750	0.1	0.07	0.043	0.3	0.003	7.9	0.3	3.8	< 1	17.3	< 0.1	0.2	< 0.5	< 0.01	0.4
AW18-410R	0.3	160	< 0.1	< 5	0.11	57.5	0.84	1400	< 0.1	0.03	0.012	3.1	0.005	43.1	2.0	0.3	< 1	179	< 0.1	< 0.1	< 0.5	< 0.01	0.3
AW18-412R	0.9	40	< 0.1	< 5	0.05	10.3	0.25	1200	< 0.1	0.01	0.004	5.3	0.005	8.5	0.1	13.0	< 1	9.7	< 0.1	0.5	< 0.5	< 0.01	0.2
AW18-413R	0.7	20	< 0.1	< 5	0.18	12.2	4.54	2570	0.3	0.06	0.014	6.5	0.004	16.1	1.7	0.4	< 1	300	< 0.1	0.1	< 0.5	0.02	0.4
AW18-417R	0.7	620	1.3	< 5	2.14	3.0	0.05	399	1.9	0.04	0.061	76.1	0.036	164	29.0	60.0	18	7.7	< 0.1	< 0.1	< 0.5	0.10	2.4
AW18-425R	0.4	20	0.2	< 5	6.82	2.7	0.06	550	2.1	0.17	0.125	149	0.003	18.1	9.4	0.6	1	64.1	0.1	< 0.1	< 0.5	0.38	15.3
AW18-426R	0.4	20	0.7	< 5	5.16	26.0	0.62	5010	2.5	0.11	0.119	184	0.001	18.1	26.1	1.0	1	365	< 0.1	< 0.1	0.6	0.56	2.8
AW18-427R	0.3	40	0.9	< 5	1.24	11.6	0.50	14700	0.8	0.03	0.027	42.1	0.001	18.5	15.4	25.0	1	148	< 0.1	< 0.1	0.6	0.04	1.3
AW18-428R	0.3	30	0.5	< 5	4.25	29.7	0.50	6850	1.6	0.10	0.106	131	0.001	8.2	23.4	0.7	< 1	540	< 0.1	< 0.1	< 0.5	0.38	1.8
AW18-441R	0.2	50	< 0.1	< 5	0.41	3.2	0.23	307	0.1	0.90	0.006	15.6	0.001	0.4	5.3	< 0.1	< 1	15.0	< 0.1	< 0.1	< 0.5	0.11	1.3
AW18-442AR	0.1	10	< 0.1	< 5	2.23	6.0	0.47	217	2.7	1.52	0.040	74.7	0.001	59.4	5.7	1.0	< 1	79.1	< 0.1	< 0.1	< 0.5	0.16	< 0.1
AW18-442BR	< 0.1	10	< 0.1	< 5	0.13	1.8	0.12	264	0.4	0.19	0.006	3.9	0.002	1.2	0.3	< 0.1	< 1	11.4	< 0.1	< 0.1	< 0.5	< 0.01	0.7
AW18-444R	0.2	100	0.1	< 5	2.69	23.4	1.55	501	3.4	1.33	0.143	95.5	0.004	4.3	16.5	0.5	1	85.3	0.1	< 0.1	< 0.5	0.43	2.8
AW18-445R	0.7	30	< 0.1	< 5	0.22	18.9	0.55	855	2.9	4.95	0.066	1.3	0.001	2.0	10.3	0.4	< 1	558	0.2	< 0.1	< 0.5	0.30	1.0
AW18-447R	0.1	< 10	< 0.1	< 5	0.47	8.7	0.40	279	1.1	< 0.01	0.023	15.2	0.002	13.9	2.6	5.6	< 1	18.9	< 0.1	8.6	< 0.5	0.06	0.5
AW18-466R	0.2	20	< 0.1	< 5	0.44	13.4	0.94	261	4.3	5.42	0.097	18.3	0.002	1.6	17.4	1.2	1	334	0.2	1.3	< 0.5	0.44	3.7
AW18-467R	0.3	4580	< 0.1	< 5	0.58	22.5	2.26	827	0.2	0.11	0.022	18.8	0.002	3720	3.5	2.2	< 1	135	< 0.1	0.1	< 0.5	0.07	0.4

Results

Activation Laboratories Ltd.

Report: A18-15518

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
AW18-469R	0.2	50	0.1	< 5	0.27	12.0	0.85	496	4.6	3.77	0.086	9.6	0.006	5.5	20.5	4.2	1	496	0.2	0.8	< 0.5	0.52	3.4
AW18-470R	0.3	50	< 0.1	< 5	1.70	12.1	0.75	461	1.8	2.17	0.046	43.9	0.002	8.4	5.8	0.3	< 1	205	< 0.1	< 0.1	< 0.5	0.20	9.1
AW18-485R	0.2	60	< 0.1	< 5	0.32	12.5	1.59	515	0.6	4.01	0.075	7.8	0.003	4.8	20.8	0.8	1	151	< 0.1	< 0.1	< 0.5	0.38	1.5
PM18-021R	0.6	290	< 0.1	< 5	2.67	21.8	0.47	678	0.2	0.42	0.073	119	< 0.001	14.3	23.8	0.5	< 1	168	< 0.1	< 0.1	< 0.5	0.32	13.4
PM18-026R	0.2	480	< 0.1	< 5	3.47	11.4	0.08	66	8.4	0.61	0.014	123	0.005	40.8	3.0	0.4	< 1	62.3	0.2	< 0.1	< 0.5	0.15	18.4
PM18-027R	0.3	140	< 0.1	< 5	3.63	9.0	0.04	40	6.1	1.38	0.004	109	0.002	25.8	4.3	0.2	2	66.5	0.3	< 0.1	< 0.5	0.15	14.6
PM18-028R	0.2	120	< 0.1	< 5	3.84	6.7	0.05	70	10.1	0.57	0.013	134	0.001	12.9	4.7	0.2	1	75.0	0.4	< 0.1	< 0.5	0.19	26.3
PM18-029R	0.2	< 10	< 0.1	< 5	4.74	13.1	0.03	90	3.9	0.34	0.010	78.5	< 0.001	37.0	3.3	< 0.1	< 1	59.7	< 0.1	< 0.1	< 0.5	0.15	16.1
PM18-030R	0.3	20	< 0.1	< 5	7.11	13.1	0.08	106	5.9	0.16	0.020	166	0.002	10.6	3.0	0.3	2	53.2	0.4	< 0.1	< 0.5	0.18	18.0
PM18-055R	0.2	50	< 0.1	< 5	4.96	12.5	0.06	70	7.6	0.75	0.018	138	0.002	36.2	3.1	0.1	1	51.5	0.4	< 0.1	< 0.5	0.14	2.9
PM18-055F	0.2	490	< 0.1	< 5	3.39	23.8	0.07	1200	6.4	0.55	0.014	93.3	0.002	41.6	3.7	0.5	< 1	62.4	0.3	< 0.1	< 0.5	0.12	1.5
PM18-056R	0.2	430	< 0.1	< 5	3.77	7.5	0.07	128	8.5	0.25	0.006	115	0.002	26.7	3.5	0.3	< 1	35.1	0.3	< 0.1	< 0.5	0.21	15.2
PM18-058R	0.2	110	< 0.1	< 5	3.85	14.5	0.04	134	5.6	0.12	0.005	114	0.004	16.1	2.3	< 0.1	1	45.8	0.2	< 0.1	< 0.5	0.14	12.9
PM18-059R	0.2	340	< 0.1	< 5	3.12	15.9	0.04	88	5.9	0.36	0.009	104	< 0.001	59.7	3.6	0.2	2	28.2	0.1	< 0.1	< 0.5	0.12	2.3
PM18-064R	0.4	30	< 0.1	< 5	1.87	6.8	0.68	184	5.9	0.92	0.099	53.2	0.013	5.6	11.4	4.6	1	36.8	0.2	< 0.1	< 0.5	0.44	4.7
PM18-077R	0.3	90	0.1	< 5	0.08	4.4	3.92	948	0.6	0.15	0.030	2.4	0.001	7.9	1.0	3.3	1	13.4	< 0.1	0.8	< 0.5	0.02	1.1
PM18-090R	0.2	20	< 0.1	< 5	0.80	9.2	0.93	567	1.7	1.25	0.065	21.4	0.004	20.7	10.2	< 0.1	< 1	88.0	< 0.1	< 0.1	< 0.5	0.18	1.2
PM18-091R	0.2	60	< 0.1	< 5	0.42	2.0	0.08	174	0.4	0.05	0.017	13.8	0.001	242	4.6	8.1	< 1	3.8	< 0.1	< 0.1	< 0.5	0.05	0.4
PM18-112R	0.2	30	0.2	< 5	0.73	59.6	0.66	762	1.3	0.05	0.038	21.7	< 0.001	4.6	8.1	2.0	< 1	51.6	< 0.1	< 0.1	0.9	0.13	1.1
PM18-120R	0.2	< 10	< 0.1	< 5	2.99	22.7	0.90	780	8.3	1.47	0.049	63.8	0.002	0.9	4.9	0.2	1	172	0.6	< 0.1	< 0.5	0.18	14.9
PM18-173F	0.6	1490	< 0.1	< 5	0.02	12.8	0.13	323	0.6	0.01	0.014	1.1	0.014	69.9	0.8	1.5	< 1	5.0	< 0.1	< 0.1	< 0.5	0.02	2.0
PM18-179R	0.3	30	0.2	< 5	0.07	32.1	0.94	1340	1.8	0.02	0.069	2.7	0.010	6.9	6.9	8.5	2	147	0.1	0.3	< 0.5	0.15	2.6
PM18-197R	0.2	100	< 0.1	< 5	3.30	34.2	1.39	501	7.8	1.04	0.133	135	0.002	1.9	10.8	0.5	1	76.3	0.3	0.1	< 0.5	0.40	8.8
PM18-198R	0.2	80	< 0.1	< 5	2.15	54.8	2.41	701	6.3	2.26	0.173	93.2	0.002	1.5	18.1	2.3	1	220	0.4	< 0.1	< 0.5	0.65	2.7
PM18-145R	0.2	30	< 0.1	< 5	1.83	44.9	2.94	870	4.8	2.00	0.072	37.1	0.004	1.0	13.0	2.2	< 1	195	0.3	0.3	< 0.5	0.34	5.2
PM18-204R	0.7	40	< 0.1	< 5	0.08	8.7	0.52	333	5.5	5.51	0.045	0.9	0.002	1.0	7.3	0.9	1	45.9	0.5	< 0.1	< 0.5	0.25	11.0
PM18-205R	0.4	30	< 0.1	< 5	2.27	12.3	0.59	136	4.9	0.09	0.024	81.9	0.019	2.7	15.9	13.5	3	7.4	0.3	4.3	< 0.5	0.22	1.1
PM18-216R	0.2	< 10	0.4	< 5	0.03	49.3	2.10	1070	2.9	1.35	0.071	0.6	0.002	1.3	10.6	9.0	< 1	39.2	0.1	0.2	< 0.5	0.26	2.0
PM18-217R	0.2	80	< 0.1	< 5	2.32	35.1	0.28	113	4.5	0.41	0.117	75.5	0.002	14.2	3.7	0.3	4	109	< 0.1	< 0.1	< 0.5	0.13	2.9
PM18-222R	0.4	30	< 0.1	< 5	1.58	17.0	0.27	1310	1.4	1.42	0.031	36.3	0.001	2.2	3.5	0.3	< 1	110	< 0.1	< 0.1	< 0.5	0.13	13.1
PM18-231R	0.2	< 10	0.2	< 5	0.73	28.3	1.52	9960	0.3	0.32	0.005	33.6	0.002	13.3	8.1	0.1	< 1	485	< 0.1	< 0.1	< 0.5	0.06	1.1
PM18-233R	0.4	90	0.2	< 5	0.28	13.8	0.87	661	1.3	0.29	0.045	7.5	0.005	12.4	7.2	5.5	1	611	< 0.1	0.9	< 0.5	0.17	2.8
PM18-241R	0.6	> 10000	0.3	< 5	0.29	27.8	0.02	90	< 0.1	0.03	0.005	8.2	0.001	3660	< 0.1	7.1	< 1	20.2	< 0.1	< 0.1	< 0.5	0.02	0.3
PM18-245R	0.1	420	0.2	< 5	1.10	17.5	0.33	433	2.3	1.82	0.047	22.9	0.003	5.8	9.1	0.7	< 1	86.3	0.1	< 0.1	< 0.5	0.21	1.7
PM18-254R	1.2	230	2.0	< 5	0.63	17.9	0.48	4290	1.6	0.68	0.066	23.0	< 0.001	12.2	6.3	0.5	33	112	0.1	< 0.1	< 0.5	0.13	2.0

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
LT18-294AR	1.49	163	1.8	< 1	25.7	52	21.3	26.1	45.8	51	5.5	23.0	27	4.9	5.2	1.23	5.2	4.4	0.8	1.0	2.5	0.4	2.1
LT18-294BR	1.10	112	1.8	< 1	15.5	37	12.3	15.9	25.7	27	3.1	13.0	< 5	2.9	3.2	0.61	3.1	2.9	0.5	0.6	1.6	0.2	1.5
LT18-294CR	1.08	137	1.4	< 1	15.6	46	20.4	23.4	41.6	38	4.8	18.7	28	3.7	3.7	1.06	3.6	2.9	0.5	0.6	1.7	0.2	1.5
LT18-301AR	0.24	108	2.7	36	17.4	61	13.6	15.8	25.5	27	2.7	10.3	19	2.0	2.0	0.62	2.2	2.4	0.4	0.5	1.6	0.2	1.6
LT18-301BR	0.30	61	3.7	< 1	13.5	98	21.6	24.6	38.4	39	4.0	14.2	16	2.5	2.6	0.81	2.6	2.2	0.4	0.5	1.4	0.2	1.5
LT18-301CR	< 0.05	44	0.3	94	9.4	2	2.0	2.6	3.9	< 3	0.5	2.1	< 5	0.6	0.8	0.22	1.1	1.2	0.2	0.3	0.8	0.1	0.6
LT18-304R	0.14	49	1.3	5	5.3	15	13.1	16.3	19.4	17	2.0	7.2	6	1.2	1.2	0.41	1.2	0.8	0.2	0.2	0.5	< 0.1	0.4
LT18-305R	0.25	54	1.9	12	7.6	15	7.9	9.4	15.9	18	2.0	8.3	9	1.8	1.9	0.72	1.8	1.4	0.2	0.3	0.7	< 0.1	0.6
LT18-306R	1.66	34	0.9	< 1	5.3	34	4.4	6.2	9.4	10	1.1	4.6	< 5	0.9	1.2	0.29	0.9	0.9	0.1	0.2	0.6	< 0.1	0.6
LT18-307R	0.68	70	1.5	6	11.7	48	5.7	14.1	14.3	22	2.0	8.5	< 5	1.8	1.9	0.59	1.9	1.8	0.3	0.4	1.1	0.2	1.2
LT18-317R	1.37	271	1.5	7	20.5	40	19.4	21.5	35.7	34	4.3	18.2	25	3.9	4.1	1.40	4.2	3.4	0.6	0.7	1.9	0.3	1.7
LT18-318R	0.32	36	0.6	< 1	3.7	23	5.3	6.8	12.6	14	1.6	6.6	< 5	1.2	1.0	0.35	1.0	0.7	0.1	0.1	0.3	< 0.1	0.3
LT18-321R	2.55	158	1.5	3	18.8	42	19.1	21.0	37.6	36	4.5	19.0	15	3.9	3.5	1.76	4.1	3.1	0.5	0.6	1.6	0.2	1.4
LT18-324R	0.24	113	6.2	< 1	8.9	93	21.6	21.9	40.7	41	4.8	19.0	16	3.1	2.7	0.54	2.4	1.5	0.3	0.4	1.2	0.2	1.5
LT18-333R	0.77	252	1.8	< 1	15.2	77	15.3	15.7	31.8	32	4.0	17.0	15	3.5	3.4	0.91	3.6	2.8	0.5	0.6	1.7	0.2	1.5
LT18-334R	1.33	90	2.2	< 1	7.6	17	7.1	7.7	12.5	13	1.5	5.9	9	1.2	1.2	0.74	1.4	1.1	0.2	0.2	0.7	< 0.1	0.6
LT18-336R	0.70	127	2.2	< 1	15.0	22	15.9	17.5	34.4	39	4.2	18.0	25	3.7	3.9	1.42	3.9	2.5	0.5	0.5	1.1	0.1	0.8
LT18-339R	0.49	236	1.5	< 1	4.6	59	22.6	23.5	37.7	31	3.8	14.1	26	2.3	2.1	0.32	1.6	0.9	0.2	0.2	0.6	< 0.1	0.7
LT18-343R	0.09	58	2.5	< 1	5.1	53	8.9	10.4	16.8	21	1.8	6.5	19	1.1	1.1	0.15	1.0	0.8	0.1	0.2	0.6	0.1	0.7
LT18-345R	1.00	208	1.5	< 1	14.1	69	5.0	14.1	17.9	34	2.7	12.6	17	2.7	2.7	0.82	2.6	2.4	0.4	0.5	1.6	0.3	1.6
LT18-351R	0.35	79	2.4	< 1	11.7	47	7.6	10.6	18.6	25	2.3	9.4	< 5	2.1	2.3	0.33	2.2	1.9	0.3	0.4	1.1	0.2	1.1
LT18-352RA	0.12	52	1.5	< 1	2.2	30	3.6	4.6	6.9	7	0.8	2.9	< 5	0.5	0.6	0.06	0.4	0.3	< 0.1	< 0.1	0.3	< 0.1	0.3
LT18-352RB	0.13	65	3.4	< 1	5.6	51	0.8	4.1	3.1	4	0.5	2.3	< 5	0.5	0.5	0.09	0.6	0.8	0.1	0.2	0.7	0.1	0.8
LT18-352RC	0.25	83	3.6	< 1	5.5	73	8.5	10.1	18.7	24	2.2	8.0	< 5	1.4	1.2	0.14	1.2	0.9	0.1	0.2	0.7	0.1	1.0
LT18-352RD	0.13	63	2.3	< 1	4.3	35	3.9	6.6	10.2	13	1.3	4.9	< 5	0.9	0.8	0.11	0.8	0.7	0.1	0.2	0.5	< 0.1	0.6
LT18-352R	0.15	112	3.2	< 1	5.8	77	9.1	9.6	17.1	17	1.8	6.7	< 5	1.0	0.9	0.12	0.9	0.8	0.1	0.2	0.8	0.1	1.1
LT18-364R	0.92	197	2.7	< 1	19.8	43	22.0	24.0	40.3	45	5.6	23.6	21	4.7	5.0	1.77	4.9	3.4	0.6	0.6	1.6	0.2	1.3
LT18-368R	1.36	145	2.9	< 1	22.6	88	19.3	30.0	48.4	64	6.2	25.6	32	5.1	5.3	1.88	5.3	4.0	0.7	0.8	2.2	0.3	1.8
LT18-401R	0.34	193	1.5	< 1	10.4	11	5.4	5.5	11.7	12	1.5	7.0	< 5	1.7	1.5	0.71	2.0	1.7	0.3	0.4	1.0	0.2	0.9
LT18-404R	0.11	41	2.4	7	6.0	52	7.1	10.2	17.3	23	2.0	7.7	15	1.5	1.9	0.22	1.4	1.1	0.2	0.2	0.6	0.1	0.7
LT18-409R	0.24	125	0.9	< 1	7.3	25	5.3	6.5	12.1	19	1.5	6.5	10	1.4	1.5	0.34	1.5	1.3	0.2	0.3	0.8	0.1	0.7
LT18-410R	0.12	96	0.9	< 1	32.9	29	39.4	40.9	73.7	80	8.4	33.0	38	6.5	6.8	2.34	7.1	6.6	1.1	1.3	3.7	0.5	3.1
LT18-413R	0.21	53	1.8	< 1	10.3	60	1.2	16.8	5.4	29	1.3	8.7	118	2.2	2.1	0.66	2.3	1.9	0.3	0.4	1.1	0.2	1.0
LT18-414R	0.25	48	2.1	< 1	15.6	60	12.2	17.4	27.8	29	3.4	13.8	23	2.8	2.7	0.94	3.1	2.6	0.5	0.6	1.5	0.2	1.3
LT18-415R	0.79	92	1.3	< 1	6.6	42	3.7	11.9	9.2	20	1.6	7.7	9	1.7	1.7	0.39	1.5	1.2	0.2	0.2	0.7	0.1	0.7
LT18-419R	0.62	84	1.1	< 1	6.7	40	3.9	4.6	8.6	5	1.0	4.5	6	1.0	0.9	0.25	1.1	1.2	0.2	0.3	0.7	0.1	0.7
LT18-420R	0.19	186	1.7	< 1	18.3	75	26.8	28.5	52.9	53	6.1	24.4	27	4.7	4.8	1.40	4.5	3.5	0.6	0.7	2.0	0.3	1.9
LT18-423R	1.56	23	0.3	7	0.6	5	0.1	< 0.5	0.2	< 3	< 0.1	0.1	< 5	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.1
LT18-424R	0.41	40	3.0	< 1	6.0	91	4.1	14.9	13.0	23	1.7	6.9	< 5	1.2	1.4	0.26	1.1	0.9	0.2	0.2	0.7	0.1	0.9
LT18-425R	6.74	215	2.0	8	15.8	29	13.8	14.0	29.1	26	3.7	16.0	18	3.3	3.3	0.78	3.5	2.9	0.5	0.6	1.7	0.2	1.4

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
LT18-426R	> 500	158	2.4	< 1	12.9	84	1.7	15.6	10.6	25	2.6	13.7	23	3.1	2.9	0.99	2.8	2.3	0.4	0.5	1.5	0.2	1.5
LT18-429R	0.92	72	1.8	< 1	18.9	38	15.3	16.0	32.5	34	4.0	17.3	20	3.8	4.0	1.13	4.3	3.5	0.7	0.7	1.7	0.2	1.3
LT18-430R	0.80	366	0.8	286	12.1	6	18.2	27.0	48.4	44	6.1	24.2	19	4.2	3.8	1.17	3.7	2.5	0.5	0.5	1.2	0.2	1.0
LT18-431R	2.80	232	2.1	12	19.9	29	26.5	29.2	60.0	58	7.2	28.6	26	5.0	5.0	2.85	4.9	3.5	0.6	0.7	1.8	0.3	1.5
LT18-435R	0.37	18	0.9	< 1	3.1	5	8.1	8.8	15.4	16	1.4	5.0	6	0.8	0.9	0.37	0.8	0.6	0.1	0.1	0.3	< 0.1	0.3
LT18-436R	0.61	62	3.5	< 1	11.5	145	20.8	21.5	36.2	25	3.8	13.4	< 5	2.3	2.2	0.50	2.2	1.8	0.3	0.4	1.3	0.2	1.5
LT18-444R	0.37	210	1.9	< 1	19.5	80	18.6	19.8	40.0	42	4.6	18.8	8	3.8	3.8	1.08	4.1	3.5	0.6	0.7	2.1	0.3	2.0
LT18-445R	1.60	150	2.5	< 1	10.1	50	10.0	10.9	20.6	19	2.4	9.6	11	2.0	1.9	0.60	2.3	2.0	0.3	0.4	1.2	0.2	1.1
LT18-447R	0.19	115	1.6	< 1	16.2	47	13.0	13.5	26.4	27	3.2	13.2	9	2.9	2.8	1.04	3.4	3.0	0.5	0.6	1.8	0.3	1.6
LT18-448R	0.18	77	0.4	15	6.3	6	2.5	2.7	5.1	5	0.6	2.7	< 5	0.6	0.6	0.34	0.8	0.8	0.1	0.2	0.6	< 0.1	0.5
LT18-449R	0.09	67	2.2	67	16.3	15	4.1	4.1	8.2	7	1.0	4.6	< 5	1.2	1.0	0.60	1.7	1.8	0.3	0.5	1.5	0.2	1.4
KD18-215R	0.31	65	3.1	< 1	14.5	53	19.4	20.6	34.7	34	3.7	13.5	13	2.4	2.4	0.78	2.7	2.4	0.4	0.5	1.5	0.2	1.5
KD18-216R	0.58	50	1.6	< 1	21.2	22	49.1	51.7	98.6	97	11.5	43.7	47	7.7	7.8	2.05	7.0	4.7	0.9	0.9	2.1	0.3	1.4
KD18-224R	0.40	170	2.4	< 1	14.3	14	15.3	17.2	30.9	34	3.6	14.0	9	2.8	2.8	0.96	3.2	2.7	0.5	0.6	1.5	0.2	1.3
KD18-227R	0.63	243	1.1	< 1	18.7	22	16.0	18.3	34.2	33	4.2	18.4	16	3.8	4.4	1.25	4.2	3.5	0.6	0.7	2.0	0.3	1.7
KD18-229R	0.82	200	1.4	3	13.2	55	18.9	24.0	43.4	50	5.5	23.0	22	4.5	5.0	1.27	4.2	2.7	0.6	0.5	1.4	0.2	1.3
KD18-232R	0.56	40	3.8	< 1	7.5	52	10.6	11.3	19.5	22	2.0	7.2	12	1.3	1.3	0.42	1.3	1.2	0.2	0.3	0.8	0.1	0.9
KD18-236R	1.45	49	3.7	< 1	11.6	234	15.6	35.0	40.7	63	4.8	19.1	23	3.6	5.1	1.08	3.5	2.8	0.5	0.6	1.7	0.3	1.9
KD18-239R	3.39	227	2.3	< 1	21.7	83	25.8	27.6	49.4	52	5.8	23.7	23	4.9	5.2	1.60	5.4	4.0	0.7	0.8	2.2	0.3	1.9
KD18-240R	3.99	47	1.2	< 1	22.2	34	33.4	38.2	61.1	59	6.8	26.4	18	4.7	5.1	3.34	5.1	3.0	0.6	0.6	1.5	0.2	1.1
KD18-244R	0.44	44	0.8	< 1	7.9	26	< 0.1	< 0.5	7.9	< 3	1.1	5.0	< 5	1.3	< 0.1	0.45	1.5	1.5	0.2	0.3	0.8	0.1	0.7
KD18-249R	0.38	101	3.8	< 1	6.2	85	4.5	4.8	9.0	14	1.0	4.0	< 5	0.8	0.6	0.13	0.9	1.0	0.1	0.2	0.9	0.1	1.1
KD18-256R	0.16	37	1.6	< 1	4.8	29	4.5	6.4	9.6	9	1.1	4.2	< 5	0.8	0.9	0.11	0.9	0.9	0.1	0.2	0.6	< 0.1	0.6
KD18-263R	0.46	81	1.5	< 1	47.3	37	38.5	42.1	78.1	88	9.3	38.0	37	8.6	9.9	3.43	9.7	8.8	1.5	1.7	4.6	0.6	3.9
KD18-264R	2.49	111	2.3	< 1	15.5	80	20.6	26.8	41.9	49	4.9	18.5	29	3.4	3.6	1.10	3.2	2.8	0.5	0.6	1.7	0.2	1.5
KD18-283R	0.14	115	4.4	< 1	18.9	128	18.0	21.2	37.1	36	4.4	17.5	12	3.4	3.5	0.85	3.4	3.3	0.5	0.8	2.3	0.4	2.4
KD18-290R	0.23	129	0.6	< 1	15.2	22	19.2	21.7	36.0	39	4.2	17.2	15	3.6	3.9	1.35	4.0	3.1	0.6	0.6	1.6	0.2	1.4
KD18-294R	0.19	31	1.7	< 1	3.4	45	1.9	2.5	4.2	4	0.5	2.0	< 5	0.4	0.3	0.08	0.5	0.5	< 0.1	0.1	0.4	< 0.1	0.5
KD18-294BR	0.25	212	1.2	< 1	7.0	32	5.3	7.1	12.3	16	1.6	7.1	< 5	1.5	1.6	0.33	1.6	1.2	0.2	0.3	0.8	0.1	0.6
KD18-297R	0.07	296	2.1	< 1	17.6	74	26.8	31.0	51.1	52	5.9	22.5	23	4.2	4.4	0.99	4.1	3.3	0.6	0.7	1.9	0.3	1.9
KD18-300R	1.40	257	1.8	64	9.3	24	7.8	22.2	27.3	36	4.5	20.5	38	4.2	3.9	1.82	3.7	2.6	0.5	0.5	1.3	0.2	1.2
KD18-304R	1.32	306	2.0	36	18.0	24	15.4	16.9	33.6	34	4.5	19.5	11	4.2	4.3	1.19	4.6	3.6	0.7	0.8	2.0	0.3	1.6
KD18-305R	13.1	63	4.9	4	30.6	84	57.7	66.7	108	112	12.4	47.1	51	8.7	9.3	4.06	8.7	5.2	1.1	1.0	2.6	0.4	2.3
KD18-309R	0.45	225	1.0	61	21.5	10	58.4	130	149	210	18.9	74.3	73	10.3	11.1	4.12	8.4	4.2	0.9	0.7	1.8	0.2	1.4
KD18-321R	0.07	7	0.2	< 1	1.9	5	1.5	2.0	2.9	< 3	0.3	1.4	< 5	0.3	0.4	0.31	0.3	0.3	< 0.1	< 0.1	0.2	< 0.1	0.2
KD18-323R	0.53	65	3.5	< 1	11.2	15	19.8	21.9	35.5	36	3.8	13.3	15	2.3	2.0	0.52	2.3	1.8	0.3	0.4	1.3	0.2	1.4
KD18-324R	< 0.05	22	< 0.1	< 1	4.1	2	3.5	4.3	6.2	8	0.8	3.2	< 5	0.7	0.8	1.47	0.8	0.7	0.1	0.1	0.3	< 0.1	0.2
KD18-332R	0.10	194	0.9	< 1	8.7	65	5.4	17.9	13.4	40	1.5	6.6	14	1.5	3.4	0.48	1.8	1.8	0.3	0.4	1.2	0.2	1.2
KD18-336R	0.11	14	0.1	< 1	27.8	2	5.5	18.8	17.5	51	2.9	14.9	70	4.3	3.9	2.27	5.8	4.2	0.8	0.8	2.0	0.3	1.5
KD18-342R	0.13	31	0.2	< 1	2.5	5	2.2	2.6	4.2	5	0.5	2.2	< 5	0.5	0.6	0.23	0.6	0.5	< 0.1	< 0.1	0.2	< 0.1	0.2

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	
KD18-346R	0.27	26	0.3	< 1	2.7	14	3.4	3.7	6.8	8	0.8	3.4	< 5	0.7	0.8	0.22	0.8	0.5	0.1	0.1	0.3	< 0.1	0.3	
KD18-347R	0.16	61	0.4	< 1	3.4	5	1.4	1.6	2.7	4	0.3	1.4	< 5	0.3	0.4	0.25	0.4	0.5	< 0.1	0.1	0.3	< 0.1	0.3	
KD18-349R	1.05	86	0.9	< 1	9.4	24	7.0	7.7	14.5	18	1.7	7.1	< 5	1.6	1.7	0.52	1.9	1.7	0.3	0.4	1.1	0.2	1.0	
AW18-351R	0.14	175	1.0	< 1	16.4	15	12.6	13.8	25.8	27	3.3	13.8	14	3.0	3.3	1.03	3.5	3.1	0.5	0.7	1.8	0.3	1.6	
AW18-359R	0.30	38	0.7	< 1	9.1	23	20.4	23.6	32.6	37	3.5	12.8	7	2.1	2.4	1.02	2.2	2.2	1.5	0.3	0.3	0.9	0.1	0.7
AW18-360R	1.07	136	2.2	47	12.2	70	15.2	19.9	34.3	38	4.4	18.3	21	3.8	4.1	1.14	3.7	2.5	0.5	0.5	1.4	0.2	1.4	
AW18-361R	0.46	32	1.0	< 1	6.4	37	7.6	9.6	15.3	16	1.8	7.1	< 5	1.4	1.5	0.41	1.4	1.1	0.2	0.2	0.6	< 0.1	0.6	
AW18-362R	0.17	47	0.7	< 1	10.8	8	7.8	8.6	14.3	13	1.7	6.9	< 5	1.4	1.5	0.64	1.8	1.6	0.3	0.3	0.9	0.1	0.7	
AW18-364R	0.78	48	2.2	3	15.5	65	11.0	20.4	27.9	33	3.7	15.1	< 5	3.1	3.3	1.22	3.4	2.9	0.5	0.6	1.6	0.2	1.5	
AW18-365R	19.1	70	1.6	< 1	9.4	55	12.1	11.6	22.4	21	2.6	10.4	< 5	2.0	1.8	0.59	2.1	1.8	0.3	0.4	1.1	0.2	1.0	
AW18-367R	1.33	59	5.3	8	16.8	84	11.9	13.3	24.8	26	3.5	14.5	< 5	2.9	2.8	0.92	3.2	2.9	0.5	0.7	2.0	0.3	2.0	
AW18-370R	0.98	201	3.0	< 1	8.8	82	11.0	12.2	23.7	19	2.9	11.3	7	2.2	2.0	0.63	2.2	1.7	0.3	0.4	1.1	0.2	1.2	
AW18-371R	11.6	151	6.7	< 1	13.9	135	18.3	29.5	47.8	47	6.1	23.7	< 5	4.2	3.6	1.06	3.7	2.6	0.5	0.6	1.7	0.3	2.0	
AW18-373R	0.34	18	1.4	< 1	17.8	15	14.9	15.2	26.7	21	3.1	11.9	< 5	2.5	2.4	1.97	3.2	2.5	0.5	0.5	1.2	0.2	0.8	
AW18-374R	0.70	87	1.7	< 1	24.9	28	78.0	78.2	140	121	16.1	60.4	17	11.2	10.3	4.82	10.3	4.3	1.1	0.7	1.4	0.2	0.9	
AW18-375R	0.15	16	2.8	37	1.3	3	1.0	1.1	2.0	< 3	0.2	1.0	< 5	0.2	< 0.1	0.10	0.2	0.2	< 0.1	< 0.1	0.2	< 0.1	0.2	
AW18-377R	0.22	15	0.2	< 1	0.6	2	1.0	0.7	1.4	< 3	0.2	0.6	< 5	0.1	0.2	0.05	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
AW18-383R	0.06	232	1.9	< 1	16.7	39	15.6	16.6	33.3	29	4.3	18.3	16	4.0	3.9	1.38	4.3	3.5	0.6	0.7	2.0	0.3	1.7	
AW18-386R	0.94	33	0.9	< 1	8.2	11	3.8	4.6	7.8	7	1.0	4.3	< 5	1.0	0.6	0.52	1.5	1.4	0.2	0.3	0.8	0.1	0.6	
AW18-389R	5.18	60	1.1	< 1	8.8	24	8.5	8.9	15.9	15	1.8	7.4	< 5	1.5	1.4	0.56	1.8	1.6	0.3	0.4	1.0	0.2	0.9	
AW18-390R	9.92	76	1.7	< 1	11.6	43	10.5	10.9	22.3	22	2.6	10.6	< 5	2.2	2.2	0.63	2.5	2.3	0.4	0.5	1.5	0.2	1.4	
AW18-392R	0.18	24	0.8	< 1	7.0	27	6.5	7.4	12.3	8	1.4	5.6	< 5	1.2	1.2	0.22	1.4	1.3	0.2	0.3	0.8	0.1	0.7	
AW18-393R	0.79	113	3.0	< 1	17.4	83	20.0	20.5	37.9	33	4.6	18.9	24	3.8	3.7	1.35	4.0	3.3	0.6	0.7	2.0	0.3	2.1	
AW18-407R	0.13	13	3.9	< 1	1.1	6	0.4	0.6	0.8	< 3	0.1	0.5	< 5	< 0.1	< 0.1	< 0.05	0.1	0.2	< 0.1	< 0.1	0.1	< 0.1	< 0.1	
AW18-410R	0.16	24	0.8	< 1	4.9	6	1.5	1.9	3.6	< 3	0.5	2.6	< 5	0.7	0.7	0.34	1.0	0.9	0.2	0.2	0.5	< 0.1	0.3	
AW18-412R	0.54	19	< 0.1	< 1	0.4	5	0.3	< 0.5	0.4	< 3	< 0.1	0.3	< 5	< 0.1	< 0.1	0.14	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
AW18-413R	0.34	23	1.4	< 1	2.1	7	1.7	2.2	3.2	< 3	0.4	1.6	< 5	0.3	0.3	0.19	0.4	0.4	< 0.1	< 0.1	0.2	< 0.1	0.2	
AW18-417R	> 500	683	5.3	< 1	29.2	43	169	271	399	463	52.1	213	109	33.8	35.6	10.6	25.6	8.3	2.2	1.2	2.5	0.3	1.8	
AW18-425R	1.95	139	4.4	2	15.0	144	21.3	25.9	46.6	56	5.1	19.7	7	3.7	4.4	1.01	3.7	2.9	0.5	0.6	1.9	0.3	2.1	
AW18-426R	2.07	359	3.1	24	22.7	47	64.2	75.1	120	137	14.1	55.6	38	9.9	12.4	3.77	9.2	4.9	1.0	0.9	2.4	0.3	2.0	
AW18-427R	1.19	151	1.3	< 1	47.0	13	75.9	91.1	152	172	17.9	70.7	47	13.4	16.1	4.79	13.5	8.6	1.7	1.6	3.7	0.5	2.6	
AW18-428R	1.20	206	2.4	5	22.1	24	51.8	57.8	101	106	12.0	48.7	42	9.3	11.9	3.35	8.7	4.5	1.0	0.9	2.1	0.3	1.7	
AW18-441R	0.16	19	0.3	< 1	5.3	15	5.0	6.3	10.2	14	1.3	5.2	< 5	1.1	1.7	0.23	1.2	1.2	0.2	0.2	0.6	< 0.1	0.5	
AW18-442AR	0.73	55	3.2	< 1	9.2	162	23.5	22.8	41.3	44	4.2	15.2	< 5	2.4	1.9	0.55	2.2	1.6	0.3	0.4	1.1	0.2	1.3	
AW18-442BR	< 0.05	4	0.1	< 1	0.7	6	2.5	3.2	4.2	< 3	0.4	1.4	< 5	0.2	0.3	0.11	0.2	0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
AW18-444R	0.95	176	1.3	< 1	10.6	59	12.6	15.3	27.9	32	3.6	14.8	6	3.0	3.2	0.81	3.0	2.4	0.4	0.5	1.5	0.2	1.5	
AW18-445R	0.11	86	0.5	< 1	7.5	53	2.2	12.5	6.4	24	0.7	3.5	5	1.0	3.2	0.44	1.4	1.4	0.2	0.3	0.9	0.1	0.9	
AW18-447R	0.10	39	0.4	< 1	3.7	109	0.4	< 0.5	1.2	< 3	0.2	0.7	< 5	0.2	< 0.1	0.06	0.4	0.6	< 0.1	0.1	0.4	< 0.1	0.3	
AW18-466R	0.13	217	1.6	< 1	13.3	60	15.6	18.5	32.1	24	3.8	15.8	11	3.0	2.8	0.89	3.1	2.5	0.4	0.5	1.5	0.2	1.3	
AW18-467R	0.21	27	0.8	< 1	14.4	11	4.0	9.7	11.9	27	1.7	8.2	< 5	2.2	2.0	0.88	3.0	2.5	0.4	0.5	1.2	0.2	0.8	

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
AW18-469R	0.09	223	1.6	< 1	14.9	41	15.3	15.6	32.3	35	4.0	16.4	10	3.3	3.3	0.98	3.5	2.9	0.5	0.6	1.7	0.2	1.4
AW18-470R	0.75	65	3.5	< 1	9.5	54	24.8	25.0	42.9	41	4.5	14.9	7	2.1	2.0	0.43	1.9	1.5	0.3	0.4	1.2	0.2	1.4
AW18-485R	0.06	225	1.3	< 1	11.6	48	4.1	9.3	12.8	15	1.8	7.9	9	1.7	1.7	0.65	2.1	2.3	0.3	0.6	1.7	0.3	1.6
PM18-021R	2.32	285	7.3	< 1	19.1	38	15.6	17.5	34.1	39	4.1	16.6	11	3.6	3.6	0.89	4.0	3.6	0.6	0.8	2.2	0.3	2.0
PM18-026R	2.30	35	6.3	< 1	18.8	117	26.0	35.6	59.4	66	7.2	29.0	42	4.3	4.1	1.02	2.8	2.9	0.5	0.7	2.1	0.3	2.3
PM18-027R	1.28	48	3.1	< 1	10.1	113	18.5	19.8	32.9	37	3.4	11.4	8	1.2	1.2	0.26	0.9	1.4	0.2	0.4	1.4	0.3	1.8
PM18-028R	2.04	39	6.0	2	15.6	151	11.6	14.4	25.6	34	3.0	11.4	7	2.0	1.9	0.44	1.7	2.3	0.3	0.6	2.0	0.3	2.5
PM18-029R	1.62	30	4.9	< 1	11.6	125	13.4	15.4	23.5	26	2.3	7.8	< 5	1.4	1.4	0.31	1.4	1.7	0.2	0.4	1.5	0.3	1.8
PM18-030R	1.46	30	5.9	10	13.9	130	21.5	23.8	40.5	44	4.2	15.3	14	2.5	2.5	0.61	2.3	2.3	0.4	0.5	1.6	0.3	1.8
PM18-055R	2.60	37	4.4	< 1	12.3	104	8.3	28.8	29.3	54	4.1	16.3	17	2.2	2.3	0.46	1.8	1.9	0.3	0.5	1.5	0.3	1.7
PM18-055F	3.76	50	3.7	< 1	19.0	84	8.1	24.5	30.5	48	4.3	18.4	18	4.4	4.1	1.05	3.8	3.0	0.6	0.6	1.7	0.3	1.8
PM18-056R	2.76	45	6.9	9	12.0	152	14.7	26.5	38.1	45	4.9	19.1	21	2.7	2.4	0.63	1.9	1.9	0.3	0.5	1.6	0.3	1.8
PM18-058R	1.34	18	5.2	5	9.0	102	14.9	17.5	29.9	32	3.1	10.9	< 5	1.2	1.0	0.35	1.0	1.3	0.2	0.3	1.2	0.2	1.5
PM18-059R	5.94	42	3.3	< 1	10.0	94	1.8	4.8	5.2	8	0.6	2.1	< 5	0.5	0.4	0.16	0.7	1.5	0.2	0.4	1.3	0.2	1.5
PM18-064R	0.81	301	3.4	< 1	11.7	93	16.8	16.7	31.6	33	4.0	15.9	17	3.0	2.9	0.66	2.9	2.2	0.4	0.5	1.5	0.2	1.6
PM18-077R	0.09	29	< 0.1	< 1	2.5	13	0.4	0.6	0.7	< 3	< 0.1	0.4	< 5	0.1	0.1	< 0.05	0.2	0.3	< 0.1	< 0.1	0.4	0.1	1.0
PM18-090R	0.25	59	0.5	< 1	11.7	58	6.5	7.0	14.0	30	2.0	9.3	< 5	2.3	2.9	0.75	2.7	2.2	0.4	0.5	1.3	0.2	1.1
PM18-091R	0.15	34	< 0.1	< 1	1.4	4	1.1	1.6	2.5	< 3	0.3	1.3	< 5	0.3	0.2	0.10	0.3	0.2	< 0.1	< 0.1	0.1	< 0.1	0.1
PM18-112R	0.21	112	3.2	< 1	15.7	19	16.7	17.1	33.7	35	3.9	15.1	12	3.3	3.2	1.29	3.5	3.4	0.6	0.7	1.9	0.3	1.6
PM18-120R	0.76	50	6.4	< 1	15.4	119	28.3	27.6	53.0	48	5.5	19.3	18	3.3	3.1	0.80	3.3	2.6	0.5	0.6	1.7	0.3	1.8
PM18-173F	64.1	37	6.2	< 1	2.5	20	7.9	7.7	13.2	11	1.2	4.1	< 5	0.6	0.4	0.12	0.6	0.4	< 0.1	< 0.1	0.3	< 0.1	0.2
PM18-179R	0.53	97	1.4	< 1	8.3	32	8.1	7.6	16.2	11	1.9	8.1	< 5	1.7	1.5	0.76	1.9	1.6	0.3	0.3	0.9	0.1	0.7
PM18-197R	1.41	122	3.8	< 1	22.1	68	30.0	31.5	59.8	62	7.4	29.9	31	5.6	5.2	1.75	5.6	4.1	0.8	0.9	2.4	0.4	2.3
PM18-198R	1.48	274	2.0	< 1	23.2	103	18.4	26.8	45.6	53	6.3	27.0	26	5.5	5.1	1.69	5.8	4.6	0.8	1.0	2.7	0.4	2.2
PM18-145R	0.40	155	2.0	< 1	10.2	17	17.7	21.4	37.1	39	4.3	16.9	16	3.3	3.3	1.06	3.3	2.5	0.5	0.5	1.2	0.1	0.7
PM18-204R	0.05	80	3.9	< 1	4.6	76	4.7	5.8	11.8	13	1.3	5.1	6	1.1	1.4	0.23	1.1	0.9	0.2	0.2	0.7	0.1	0.8
PM18-205R	0.39	190	3.1	4	17.7	83	0.9	6.2	4.2	12	0.9	4.7	< 5	1.3	1.2	0.43	2.0	2.8	0.4	0.7	2.0	0.3	2.0
PM18-216R	0.10	193	0.9	< 1	7.6	43	17.6	18.1	31.3	29	3.4	13.2	20	2.3	2.4	0.60	2.2	1.5	0.3	0.3	0.9	0.1	0.9
PM18-217R	0.70	49	3.5	< 1	6.2	27	11.3	21.3	30.9	38	3.6	13.0	17	2.2	2.2	0.34	1.8	1.2	0.2	0.3	0.8	0.1	0.8
PM18-222R	0.56	32	5.1	< 1	14.2	22	21.8	22.4	40.1	42	4.1	14.9	18	2.7	2.8	0.66	2.9	2.4	0.4	0.5	1.5	0.2	1.5
PM18-231R	0.17	85	0.5	< 1	14.3	5	6.6	10.9	15.8	19	2.1	9.4	10	2.4	2.2	1.67	3.1	2.6	0.5	0.5	1.2	0.2	0.8
PM18-233R	0.08	92	2.2	< 1	8.1	46	12.5	9.9	22.0	17	2.3	8.1	< 5	1.4	1.9	0.73	1.6	1.4	0.2	0.3	0.8	0.1	0.8
PM18-241R	0.11	5	0.7	< 1	1.3	8	< 0.1	0.9	0.8	< 3	0.1	0.7	< 5	0.2	< 0.1	0.06	0.2	0.2	< 0.1	< 0.1	0.1	< 0.1	0.1
PM18-245R	0.27	106	1.0	< 1	4.8	27	4.5	4.8	9.1	9	1.1	4.6	< 5	0.9	1.0	0.28	1.1	0.9	0.2	0.2	0.5	< 0.1	0.5
PM18-254R	0.32	80	4.3	64	27.8	22	5.9	6.4	12.1	16	1.5	6.8	< 5	1.7	1.8	0.73	2.7	3.2	0.5	0.9	3.0	0.4	2.9

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
LT18-294AR	3.5	0.3	0.15	29.7
LT18-294BR	2.5	0.2	0.11	28.2
LT18-294CR	2.8	0.2	0.11	28.0
LT18-301AR	2.3	0.3	0.11	28.4
LT18-301BR	1.9	0.3	0.11	29.5
LT18-301CR	1.0	< 0.1	< 0.05	34.0
LT18-304R	0.6	< 0.1	< 0.05	36.1
LT18-305R	1.0	< 0.1	< 0.05	30.6
LT18-306R	1.0	< 0.1	0.07	31.9
LT18-307R	1.3	0.2	0.07	34.1
LT18-317R	2.3	0.2	< 0.05	29.0
LT18-318R	< 0.2	< 0.1	< 0.05	34.6
LT18-321R	2.0	0.2	< 0.05	31.4
LT18-324R	2.0	0.2	0.09	31.8
LT18-333R	1.9	0.2	< 0.05	25.7
LT18-334R	0.9	< 0.1	< 0.05	27.5
LT18-336R	1.0	0.1	0.05	26.6
LT18-339R	0.4	0.1	< 0.05	30.4
LT18-343R	1.2	0.1	0.10	32.1
LT18-345R	2.3	0.3	0.09	27.9
LT18-351R	2.5	0.2	0.09	29.9
LT18-352RA	0.8	< 0.1	< 0.05	27.6
LT18-352RB	0.8	0.1	0.07	29.3
LT18-352RC	0.9	0.2	0.09	29.7
LT18-352RD	0.6	< 0.1	0.05	31.8
LT18-352R	1.0	0.2	0.07	29.6
LT18-364R	1.2	0.2	< 0.05	26.1
LT18-368R	1.8	0.2	0.08	27.2
LT18-401R	0.9	0.1	< 0.05	35.1
LT18-404R	1.0	0.1	0.07	29.8
LT18-409R	0.6	< 0.1	< 0.05	27.3
LT18-410R	2.9	0.4	0.11	30.4
LT18-413R	1.2	0.2	0.07	30.1
LT18-414R	1.9	0.2	< 0.05	29.3
LT18-415R	1.2	0.1	< 0.05	33.4
LT18-419R	1.0	0.1	< 0.05	36.7
LT18-420R	2.6	0.3	0.08	29.4
LT18-423R	< 0.2	< 0.1	< 0.05	34.1
LT18-424R	1.2	0.2	0.09	29.0
LT18-425R	1.9	0.2	0.08	23.2
LT18-426R	1.9	0.2	0.06	37.2
LT18-429R	1.9	0.2	< 0.05	25.7

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
LT18-430R	1.5	0.1	< 0.05	37.9
LT18-431R	1.6	0.2	< 0.05	31.6
LT18-435R	0.5	< 0.1	< 0.05	27.5
LT18-436R	1.3	0.2	0.10	30.0
LT18-444R	1.6	0.3	0.06	31.1
LT18-445R	0.8	0.2	< 0.05	38.5
LT18-447R	1.4	0.2	< 0.05	33.7
LT18-448R	0.5	< 0.1	< 0.05	29.4
LT18-449R	1.3	0.2	< 0.05	37.8
KD18-215R	1.8	0.2	0.09	29.0
KD18-216R	1.8	0.2	0.07	30.5
KD18-224R	1.8	0.2	0.07	29.4
KD18-227R	2.6	0.2	0.08	25.4
KD18-229R	1.8	0.2	0.09	27.2
KD18-232R	0.9	0.1	< 0.05	30.9
KD18-236R	2.2	0.3	0.16	41.9
KD18-239R	2.1	0.3	0.11	30.0
KD18-240R	1.2	0.2	< 0.05	30.0
KD18-244R	< 0.2	0.1	< 0.05	46.9
KD18-249R	1.3	0.2	0.09	29.6
KD18-256R	0.9	< 0.1	0.06	35.1
KD18-263R	4.9	0.5	0.19	26.1
KD18-264R	1.4	0.2	0.09	26.5
KD18-283R	2.5	0.4	0.15	28.3
KD18-290R	1.2	0.2	< 0.05	27.6
KD18-294R	0.5	< 0.1	< 0.05	27.9
KD18-294BR	0.7	0.1	< 0.05	30.1
KD18-297R	1.9	0.3	0.12	28.9
KD18-300R	1.3	0.2	0.07	28.4
KD18-304R	1.9	0.2	0.09	24.9
KD18-305R	2.1	0.3	< 0.05	29.6
KD18-309R	1.8	0.2	< 0.05	35.2
KD18-321R	0.3	< 0.1	< 0.05	29.2
KD18-323R	2.1	0.2	0.11	27.0
KD18-324R	0.4	< 0.1	< 0.05	29.4
KD18-332R	2.3	0.2	0.10	29.8
KD18-336R	2.2	0.2	0.07	29.5
KD18-342R	0.3	< 0.1	< 0.05	30.8
KD18-346R	0.5	< 0.1	< 0.05	28.3
KD18-347R	0.5	< 0.1	< 0.05	30.0
KD18-349R	1.2	0.1	0.07	27.5
AW18-351R	2.3	0.2	0.07	28.0

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
AW18-359R	0.8	0.1	< 0.05	28.2
AW18-360R	2.0	0.2	0.06	28.4
AW18-361R	0.6	< 0.1	< 0.05	30.9
AW18-362R	0.4	0.1	< 0.05	29.1
AW18-364R	1.5	0.2	0.12	30.3
AW18-365R	0.7	0.1	< 0.05	31.9
AW18-367R	2.0	0.3	0.17	27.8
AW18-370R	1.1	0.2	0.10	28.9
AW18-371R	1.7	0.3	0.17	26.0
AW18-373R	0.9	0.1	< 0.05	31.5
AW18-374R	0.3	0.1	< 0.05	36.7
AW18-375R	< 0.2	< 0.1	< 0.05	29.1
AW18-377R	< 0.2	< 0.1	< 0.05	35.6
AW18-383R	1.9	0.2	0.10	30.2
AW18-386R	< 0.2	< 0.1	< 0.05	33.5
AW18-389R	1.0	0.1	< 0.05	30.2
AW18-390R	1.2	0.2	0.06	29.3
AW18-392R	0.9	0.1	0.06	28.5
AW18-393R	1.9	0.3	0.12	24.8
AW18-407R	< 0.2	< 0.1	< 0.05	35.7
AW18-410R	0.7	< 0.1	< 0.05	33.6
AW18-412R	< 0.2	< 0.1	< 0.05	48.9
AW18-413R	< 0.2	< 0.1	< 0.05	36.4
AW18-417R	0.7	0.2	< 0.05	37.2
AW18-425R	2.2	0.3	0.17	27.0
AW18-426R	2.0	0.3	0.15	27.4
AW18-427R	2.0	0.3	0.14	30.0
AW18-428R	2.0	0.2	0.19	31.1
AW18-441R	1.2	< 0.1	0.08	30.4
AW18-442AR	< 0.2	0.2	< 0.05	25.9
AW18-442BR	< 0.2	< 0.1	< 0.05	30.5
AW18-444R	2.8	0.2	0.17	24.4
AW18-445R	2.3	0.1	0.09	30.7
AW18-447R	< 0.2	< 0.1	< 0.05	31.9
AW18-466R	1.5	0.2	0.08	30.6
AW18-467R	< 0.2	0.1	< 0.05	29.8
AW18-469R	1.9	0.2	0.08	29.5
AW18-470R	1.6	0.2	0.14	29.3
AW18-485R	1.8	0.2	0.11	27.9
PM18-021R	2.3	0.3	0.20	23.6
PM18-026R	2.5	0.3	0.21	29.1
PM18-027R	2.0	0.3	0.14	28.8

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
PM18-028R	3.0	0.4	0.21	27.9
PM18-029R	2.6	0.3	0.17	27.8
PM18-030R	2.0	0.3	0.14	29.4
PM18-055R	1.7	0.3	0.12	27.2
PM18-055F	1.6	0.2	0.09	33.0
PM18-056R	1.5	0.3	0.12	27.7
PM18-058R	1.5	0.2	0.12	30.4
PM18-059R	1.4	0.2	0.09	30.3
PM18-064R	1.6	0.3	0.11	24.4
PM18-077R	0.9	0.2	0.05	26.6
PM18-090R	< 0.2	0.2	< 0.05	28.7
PM18-091R	< 0.2	< 0.1	< 0.05	35.5
PM18-112R	1.6	0.2	0.07	29.5
PM18-120R	1.7	0.3	0.11	29.6
PM18-173F	< 0.2	< 0.1	< 0.05	38.9
PM18-179R	0.7	0.1	< 0.05	39.4
PM18-197R	2.0	0.3	0.11	24.6
PM18-198R	2.0	0.3	0.09	29.1
PM18-145R	1.5	< 0.1	0.07	27.5
PM18-204R	1.0	0.1	0.08	26.8
PM18-205R	1.8	0.3	0.09	34.7
PM18-216R	0.7	0.1	< 0.05	32.2
PM18-217R	0.8	0.1	< 0.05	24.1
PM18-222R	1.4	0.2	0.07	24.4
PM18-231R	1.0	< 0.1	< 0.05	27.2
PM18-233R	0.9	0.1	< 0.05	30.2
PM18-241R	< 0.2	< 0.1	< 0.05	37.3
PM18-245R	0.7	< 0.1	< 0.05	24.3
PM18-254R	3.1	0.5	0.12	33.2

Analyte Symbol	Au	Ag	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Ni	Zn	Zn	Zn	S	Al	As	Ba	Ba	Be
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.05	0.3	5	0.2	1	0.1	0.3	1	0.5	3	0.5	1	20	0.5	1	50	0.01	0.01	0.5	1	50	0.1
Method Code	INAA	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	TD-MS	INAA	TD-MS
SDC-1 Meas					31.6	32				29.1	19	32.5	33		89.9	103			7.87		604		3.1
SDC-1 Cert					30.000	30.000				25.00	25.00	38.0	38.0		103.00	103.00			8.34		630		3.00
SDC-1 Meas					30.6	30				25.0	18	32.0	34		86.2	102			8.18		564		2.8
SDC-1 Cert					30.000	30.000				25.00	25.00	38.0	38.0		103.00	103.00			8.34		630		3.00
GXR-6 Meas			0.3			71		< 0.3	< 1		92		27			134		0.01	13.0				
GXR-6 Cert			1.30			66.0		1.00	2.40		101		27.0			118		0.0160	17.7				
DNC-1a Meas					108	102				7.7	11	249	243		61.4	63					98		
DNC-1a Cert					100	100				6.3	6.3	247	247		70	70					118		
DNC-1a Meas					112	99				7.0	< 3	266	240		63.5	62					99		
DNC-1a Cert					100	100				6.3	6.3	247	247		70	70					118		
DNC-1a Meas						98					< 3		233			59							
DNC-1a Cert						100					6.3		247			70							
SBC-1 Meas						36		< 0.3	2		24		84			189							
SBC-1 Cert						31.0		0.40	2		35.0		83			186							
SBC-1 Meas						34		< 0.3	1		25		82			199							
SBC-1 Cert						31.0		0.40	2		35.0		83			186							
OREAS 923 (4 Acid) Meas			1.7			4220		0.5	< 1		78		40			363		0.70	7.24				
OREAS 923 (4 Acid) Cert			1.60			4230		0.420	0.930		83.0		35.8			345		0.691	7.29				
OREAS 923 (4 Acid) Meas			2.1			4100		0.5	< 1		68		43			342		0.68	7.03				
OREAS 923 (4 Acid) Cert			1.60			4230		0.420	0.930		83.0		35.8			345		0.691	7.29				
OREAS 621 (4 Acid) Meas		61.0	70.2		3460	3490	253	281	13	> 5000	> 5000	24.4	27		> 10000	> 10000		4.45	6.36				1.5
OREAS 621 (4 Acid) Cert		69.0	69.0		3630	3630	284	284	13.6	13600	13600	26.2	26.2		52200	52200		4.48	6.40				1.69
OREAS 621 (4 Acid) Meas		59.3	72.0		3430	3370	248	293	12	> 5000	> 5000	25.5	25		> 10000	> 10000		4.77	6.46				1.6
OREAS 621 (4 Acid) Cert		69.0	69.0		3630	3630	284	284	13.6	13600	13600	26.2	26.2		52200	52200		4.48	6.40				1.69
OREAS 621 (4 Acid) Meas			70.4			3300		289	11		> 5000		25			> 10000		4.61	6.19				
OREAS 621 (4 Acid) Cert			69.0			3630		284	13.6		13600		26.2			52200		4.48	6.40				
OREAS 925 (4 Acid) Meas		2.42	2.6		5710	6190	0.6	0.4	< 1	111	105	32.4	42		367	447		0.98	7.01		281		2.1
OREAS 925 (4 Acid) Cert		2.36	2.36		6150	6150	0.540	0.540	0.10	100	100	34.8	34.8		446	446		0.962	7.32		425		2.32
OREAS 925 (4 Acid) Meas		2.40	2.4		5800	5940	0.6	0.4	< 1	108	102	33.7	44		378	445		1.00	7.13		282		2.2
OREAS 925 (4 Acid) Cert		2.36	2.36		6150	6150	0.540	0.540	0.10	100	100	34.8	34.8		446	446		0.962	7.32		425		2.32
OREAS 925 (4 Acid) Meas			2.0			5750		0.5	< 1		98		42			426		0.97	6.94				

Analyte Symbol	Au	Ag	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Ni	Zn	Zn	Zn	S	Al	As	Ba	Ba	Be
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.05	0.3	5	0.2	1	0.1	0.3	1	0.5	3	0.5	1	20	0.5	1	50	0.01	0.01	0.5	1	50	0.1
Method Code	INAA	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	TD-MS	INAA	TD-MS
Acid) Meas																							
OREAS 925 (4 Acid) Cert			2.36			6150		0.540	0.10		100		34.8			446		0.962	7.32				
OREAS 520 (4 Acid) Meas			0.5			2930			42		< 3		74			23		0.94	5.52				
OREAS 520 (4 Acid) Cert			0.450			2930			65.0		5.85		76.0			22.7		1.01	5.63				
OREAS 520 (4 Acid) Meas			0.7			2790			40		< 3		73			22		0.93	5.61				
OREAS 520 (4 Acid) Cert			0.450			2930			65.0		5.85		76.0			22.7		1.01	5.63				
OREAS 520 (4 Acid) Meas			0.7			2820			46		< 3		74			28		0.93	5.55				
OREAS 520 (4 Acid) Cert			0.450			2930			65.0		5.85		76.0			22.7		1.01	5.63				
Oreas 45e (4-Acid) Meas			0.5			787			< 1		12		431			45		0.04	6.36				
Oreas 45e (4-Acid) Cert			0.311			780			2.40		18.2		454			46.7		0.046	6.78				
Oreas 45e (4-Acid) Meas			0.6			770			< 1		6		406			44		0.04	6.26				
Oreas 45e (4-Acid) Cert			0.311			780			2.40		18.2		454			46.7		0.046	6.78				
Oreas 45e (4-Acid) Meas			0.5			763			< 1		5		410			48		0.04	6.19				
Oreas 45e (4-Acid) Cert			0.311			780			2.40		18.2		454			46.7		0.046	6.78				
OREAS 906 (INAA) Meas	51																170			24.7		2680	
OREAS 906 (INAA) Cert	49.0																163			23.6		2810	
OREAS 906 (INAA) Meas	47																170			24.7		2670	
OREAS 906 (INAA) Cert	49.0																163			23.6		2810	
LT18-321R Orig		40.2	44.8		5770	4910	61.9	65.2	5	> 5000	> 5000	7.1	17		4660	4770		3.48	4.25		106		2.7
LT18-321R Dup		40.2	45.6		5490	5120	59.0	66.9	5	> 5000	> 5000	7.2	15		4380	4750		3.32	4.32		135		2.6
LT18-364R Orig		1.10	0.7		32.4	38	1.4	1.5	68	32.5	26	9.8	10		77.2	88		1.01	5.47		224		1.5
LT18-364R Dup		1.12	0.7		35.7	24	1.4	1.5	67	31.8	24	8.8	8		67.4	69		1.00	5.29		229		1.4
LT18-410R Orig	551			< 5										< 20			110			20.7		510	
LT18-410R Dup	510			< 5										< 20			110			19.6		640	
LT18-448R Orig		10.2	10.9		628	614	0.4	< 0.3	3	62.2	54	3.6	4		153	163		0.29	2.56		386		0.4
LT18-448R Split PREP DUP		10.1	9.9		622	594	0.5	< 0.3	2	58.5	52	3.8	4		170	180		0.17	2.62		390		0.3
KD18-215R Orig		0.52	0.4		35.7	39	< 0.1	< 0.3	< 1	6.3	< 3	6.7	6		32.1	38		0.09	7.92		1840		1.4
KD18-215R Dup		0.55	0.4		37.6	30	< 0.1	< 0.3	< 1	6.5	< 3	1.8	1		32.0	33		0.09	8.09		1850		1.3

Analyte Symbol	Au	Ag	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Ni	Zn	Zn	Zn	S	Al	As	Ba	Ba	Be
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
Lower Limit	2	0.05	0.3	5	0.2	1	0.1	0.3	1	0.5	3	0.5	1	20	0.5	1	50	0.01	0.01	0.5	1	50	0.1
Method Code	INAA	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	INAA	TD-MS	TD-ICP	INAA	TD-ICP	TD-ICP	INAA	TD-MS	INAA	TD-MS
KD18-263R Orig	< 2			< 5										< 20			1200			17.7		7610	
KD18-263R Dup	< 2			< 5										< 20			940			16.6		7770	
KD18-283R Orig		2.77	3.8		26.6	17	0.2	< 0.3	3	62.0	40	2.4	6		63.1	69		2.58	9.50		51		1.1
KD18-283R Dup		3.01	3.6		29.5	14	0.2	0.3	4	57.8	39	2.3	4		67.2	71		2.58	9.42		46		1.1
AW18-367R Orig		1.24	1.2		23.0	14	6.2	7.1	4	95.4	81	4.1	6		414	479		1.18	6.23		119		0.6
AW18-367R Dup		1.36	0.9		23.6	14	6.2	7.1	5	98.4	81	4.3	5		416	483		1.17	6.22		177		0.6
AW18-375R Orig	< 2			< 5										< 20			70			28.1		< 50	
AW18-375R Dup	< 2			< 5										< 20			70			26.0		120	
AW18-389R Orig		0.74	0.9		28.9	25	3.5	4.3	17	162	130	7.4	6		566	623		4.26	2.55		143		0.7
AW18-389R Split PREP DUP		0.91	0.8		30.7	26	3.6	3.8	16	156	137	7.6	7		603	644		4.02	2.55		73		0.8
AW18-410R Orig		2.08	2.2		36.2	42	15.9	16.7	10	95.8	83	4.2	5		884	990		1.26	0.33		68		0.2
AW18-410R Dup		2.41	2.1		39.1	37	16.8	17.5	10	100	85	3.7	5		921	1030		1.33	0.34		71		0.2
PM18-029R Orig	< 2			< 5										< 20			< 50			57.6		4500	
PM18-029R Dup	< 2			< 5										< 20			< 50			56.3		4350	
PM18-055R Orig		1.68	1.6		21.9	19	2.2	2.7	3	82.3	70	2.3	2		131	157		3.39	5.32		30		1.3
PM18-055R Dup		1.82	1.8		20.5	15	2.2	2.7	4	73.2	59	3.1	3		135	159		3.52	5.67		48		1.2
PM18-198R Orig		0.42	< 0.3		43.3	18	0.2	< 0.3	1	11.3	< 3	4.9	7		79.4	73		5.38	9.40		28		1.9
PM18-198R Dup		0.80	< 0.3		43.9	20	0.2	< 0.3	1	11.7	< 3	4.9	6		76.7	78		5.25	9.34		38		2.1
PM18-222R Orig		0.70	< 0.3		70.2	58	1.0	0.8	4	16.4	11	3.3	2		68.0	69		0.05	5.52		914		1.0
PM18-222R Split PREP DUP		0.57	0.3		66.0	59	0.9	0.8	4	15.7	9	2.1	2		63.8	69		0.04	5.72		897		1.1
Method Blank	< 2			< 5										< 20			< 50			< 0.5		< 50	
Method Blank		< 0.05	< 0.3		< 0.2	< 1	< 0.1	< 0.3	< 1	1.1	< 3	< 0.5	< 1		1.0	< 1		< 0.01	< 0.01		1		< 0.1
Method Blank		0.20			0.3		< 0.1			< 0.5		< 0.5			0.6						3		< 0.1
Method Blank			< 0.3			< 1		< 0.3	< 1		< 3		< 1			< 1		< 0.01	< 0.01				
Method Blank			< 0.3			3		< 0.3	< 1		4		< 1			< 1		< 0.01	< 0.01				
Method Blank			< 0.3			< 1		< 0.3	< 1		3		< 1			< 1		< 0.01	< 0.01				
Method Blank			< 0.3			< 1		< 0.3	< 1		< 3		< 1			< 1		< 0.01	< 0.01				

Analyte Symbol	Be	Bi	Bi	Br	Ca	Co	Co	Cr	Cr	Cs	Cs	Eu	Fe	Hf	Hf	Ga	Ge	Hg	In	Ir	K	Li	Mg
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	%
Lower Limit	1	0.02	2	0.5	0.01	0.1	1	1	2	0.05	1	0.2	0.01	0.1	1	0.1	0.1	10	0.1	5	0.01	0.5	0.01
Method Code	TD-ICP	TD-MS	TD-ICP	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP
SDC-1 Meas	3				1.04	17.6		> 10.0		3.85				0.7		19.9		20			1.44	37.9	0.97
SDC-1 Cert	3.00				1.00	18.0		64.00		4.00				8.30		21.00		200.00			2.72	34.0	1.02
SDC-1 Meas	3				1.04	16.5		> 10.0		3.49				0.6		18.8		20			2.32	36.3	1.00
SDC-1 Cert	3.00				1.00	18.0		64.00		4.00				8.30		21.00		200.00			2.72	34.0	1.02
GXR-6 Meas	1		3		0.16																1.90		0.60
GXR-6 Cert	1.40		0.290		0.180																1.87		0.609
DNC-1a Meas					7.82	55.6		> 10.0								13.2							4.9
DNC-1a Cert					8.21	57		270								15							5.2
DNC-1a Meas					7.81	57.2		> 10.0								13.1							5.2
DNC-1a Cert					8.21	57		270								15							5.2
DNC-1a Meas					7.61																		
DNC-1a Cert					8.21																		
SBC-1 Meas	3		< 2																				
SBC-1 Cert	3.20		0.70																				
SBC-1 Meas	3		< 2																				
SBC-1 Cert	3.20		0.70																				
OREAS 923 (4 Acid) Meas	2		15		0.50																2.23		1.71
OREAS 923 (4 Acid) Cert	2.42		21.4		0.473																2.51		1.69
OREAS 923 (4 Acid) Meas	2		14		0.46																1.63		1.68
OREAS 923 (4 Acid) Cert	2.42		21.4		0.473																2.51		1.69
OREAS 621 (4 Acid) Meas	2	3.63	5		2.08	28.1		> 10.0		3.00				4.1		23.6				1.7	2.16	13.7	0.49
OREAS 621 (4 Acid) Cert	1.69	3.93	3.93		1.97	29.3		37.1		3.28				4.41		24.6				1.83	2.20	14.2	0.507
OREAS 621 (4 Acid) Meas	2	3.83	< 2		2.10	28.3		> 10.0		3.02				4.2		22.8				1.7	1.88	14.8	0.51
OREAS 621 (4 Acid) Cert	1.69	3.93	3.93		1.97	29.3		37.1		3.28				4.41		24.6				1.83	2.20	14.2	0.507
OREAS 621 (4 Acid) Meas	2		3		2.01																1.94		0.50
OREAS 621 (4 Acid) Cert	1.69		3.93		1.97																2.20		0.507
OREAS 925 (4 Acid) Meas	2	30.7	36		0.47	22.9		> 10.0		5.86				3.1		17.5				0.6	2.50	31.7	1.77
OREAS 925 (4 Acid) Cert	2.32	31.3	31.3		0.458	24.6		70.0		6.50				3.15		20.3				0.670	2.47	32.3	1.79
OREAS 925 (4 Acid) Meas	2	31.0	34		0.45	22.8		> 10.0		5.76				3.0		17.4				0.6	1.57	32.3	1.79
OREAS 925 (4 Acid) Cert	2.32	31.3	31.3		0.458	24.6		70.0		6.50				3.15		20.3				0.670	2.47	32.3	1.79
OREAS 925 (4 Acid) Meas	2		33		0.43																1.94		1.73

Analyte Symbol	Be	Bi	Bi	Br	Ca	Co	Co	Cr	Cr	Cs	Cs	Eu	Fe	Hf	Hf	Ga	Ge	Hg	In	Ir	K	Li	Mg
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	%
Lower Limit	1	0.02	2	0.5	0.01	0.1	1	1	2	0.05	1	0.2	0.01	0.1	1	0.1	0.1	10	0.1	5	0.01	0.5	0.01
Method Code	TD-ICP	TD-MS	TD-ICP	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP
Acid) Meas																							
OREAS 925 (4 Acid) Cert	2.32		31.3		0.458																2.47		1.79
OREAS 520 (4 Acid) Meas	1		< 2		4.18																3.42		1.21
OREAS 520 (4 Acid) Cert	1.06		2.94		4.10																3.46		1.19
OREAS 520 (4 Acid) Meas	1		< 2		4.15																2.97		1.21
OREAS 520 (4 Acid) Cert	1.06		2.94		4.10																3.46		1.19
OREAS 520 (4 Acid) Meas	1		< 2		4.12																2.87		1.19
OREAS 520 (4 Acid) Cert	1.06		2.94		4.10																3.46		1.19
Oreas 45e (4-Acid) Meas	< 1		< 2		0.06																0.33		0.15
Oreas 45e (4-Acid) Cert	0.62		0.28		0.065																0.324		0.156
Oreas 45e (4-Acid) Meas	< 1		< 2		0.06																0.30		0.15
Oreas 45e (4-Acid) Cert	0.62		0.28		0.065																0.324		0.156
Oreas 45e (4-Acid) Meas	< 1		3		0.05																0.30		0.14
Oreas 45e (4-Acid) Cert	0.62		0.28		0.065																0.324		0.156
OREAS 906 (INAA) Meas							26				7	1.5	6.04		8								
OREAS 906 (INAA) Cert							24.9				7.00	1.55	5.77		7.49								
OREAS 906 (INAA) Meas							26				7	1.5	6.04		8								
OREAS 906 (INAA) Cert							24.9				7.00	1.55	5.77		7.49								
LT18-321R Orig	2	2.89	< 2		11.3	25.9		> 10.0		8.06				1.2		8.6	0.1	750	0.2		2.86	57.3	0.39
LT18-321R Dup	2	2.66	< 2		11.1	24.6		> 10.0		7.68				1.1		8.0	< 0.1	520	0.1		3.36	53.1	0.40
LT18-364R Orig	1	0.03	3		8.50	18.0		> 10.0		5.70				1.2		14.5	0.1	130	< 0.1		2.33	13.7	0.55
LT18-364R Dup	1	0.02	< 2		8.40	17.8		> 10.0		5.58				1.1		14.1	0.1	120	< 0.1		2.21	13.1	0.54
LT18-410R Orig				< 0.5			15		13		< 1	2.4	7.38		< 1							< 5	
LT18-410R Dup				< 0.5			13		8		< 1	2.3	7.31		< 1							< 5	
LT18-448R Orig	< 1	12.1	14		3.12	24.8		> 10.0		1.10				0.1		9.3	< 0.1	< 10	0.2		0.57	29.0	1.08
LT18-448R Split PREP DUP	< 1	11.5	13		3.38	25.6		> 10.0		1.15				0.1		10.2	0.1	160	0.2		0.56	27.6	1.09
KD18-215R Orig	1	0.30	< 2		2.49	7.6		> 10.0		1.15				1.0		11.9	0.4	< 10	< 0.1		1.56	10.3	0.77
KD18-215R Dup	1	0.34	< 2		2.46	7.2		> 10.0		1.15				1.2		9.4	0.3	20	< 0.1		2.32	10.6	0.77

Analyte Symbol	Be	Bi	Bi	Br	Ca	Co	Co	Cr	Cr	Cs	Cs	Eu	Fe	Hf	Hf	Ga	Ge	Hg	In	Ir	K	Li	Mg
Unit Symbol	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppb	ppm	ppb	%	ppm	%
Lower Limit	1	0.02	2	0.5	0.01	0.1	1	1	2	0.05	1	0.2	0.01	0.1	1	0.1	0.1	10	0.1	5	0.01	0.5	0.01
Method Code	TD-ICP	TD-MS	TD-ICP	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	TD-MS	INAA	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP
KD18-263R Orig				< 0.5			14		< 2		< 1	3.9	5.59		3						< 5		
KD18-263R Dup				< 0.5			13		< 2		< 1	3.6	5.41		1						< 5		
KD18-283R Orig	< 1	2.25	4		0.33	11.0		> 10.0		1.21				3.4		14.9	0.1	10	< 0.1		1.06	21.4	1.42
KD18-283R Dup	< 1	2.28	< 2		0.33	11.6		> 10.0		1.22				3.3		15.4	0.1	30	< 0.1		1.04	21.3	1.41
AW18-367R Orig	< 1	0.05	< 2		0.24	16.8		> 10.0		1.79				2.7		9.4	0.2	30	< 0.1		6.50	20.0	0.27
AW18-367R Dup	< 1	0.05	< 2		0.23	16.9		> 10.0		1.73				1.2		9.1	0.2	50	< 0.1		4.30	20.6	0.27
AW18-375R Orig				< 0.5			235		7		11	< 0.2	17.5		< 1						< 5		
AW18-375R Dup				< 0.5			241		4		12	< 0.2	18.0		< 1						< 5		
AW18-389R Orig	< 1	0.11	< 2		13.9	6.3		> 10.0		1.52				0.7		2.6	0.1	< 10	< 0.1		0.66	18.1	0.32
AW18-389R Split PREP DUP	< 1	0.12	< 2		14.2	6.5		> 10.0		1.51				0.6		3.2	0.2	170	< 0.1		0.64	17.8	0.33
AW18-410R Orig	< 1	0.13	< 2		7.09	9.7		> 10.0		0.37				< 0.1		0.4	0.3	140	< 0.1		0.10	56.2	0.83
AW18-410R Dup	< 1	0.14	3		7.30	9.9		> 10.0		0.40				< 0.1		0.4	0.3	170	< 0.1		0.11	58.8	0.86
PM18-029R Orig				< 0.5			< 1		19		< 1	0.2	3.14		5						< 5		
PM18-029R Dup				< 0.5			< 1		20		< 1	0.3	2.87		5						< 5		
PM18-055R Orig	1	0.04	< 2		0.03	8.5		> 10.0		3.07				2.9		8.2	0.2	10	< 0.1		5.06	12.2	0.06
PM18-055R Dup	1	0.04	< 2		0.03	8.6		> 10.0		3.04				3.1		8.5	0.2	80	< 0.1		4.87	12.8	0.06
PM18-198R Orig	2	0.10	< 2		0.96	19.0		> 10.0		7.34				2.7		18.4	0.2	100	< 0.1		2.19	54.3	2.40
PM18-198R Dup	2	0.08	3		0.98	18.7		> 10.0		7.45				2.7		17.9	0.2	50	< 0.1		2.10	55.3	2.43
PM18-222R Orig	< 1	0.23	< 2		4.05	4.2		> 10.0		2.67				0.1		6.2	0.4	30	< 0.1		1.58	17.0	0.27
PM18-222R Split PREP DUP	< 1	0.23	< 2		4.08	4.1		> 10.0		2.68				2.7		5.8	0.2	70	< 0.1		2.40	17.3	0.28
Method Blank				< 0.5			< 1	< 2			< 1	< 0.2	< 0.01		< 1						< 5		
Method Blank	< 1	< 0.02	< 2		< 0.01	< 0.1		> 10.0		< 0.05				< 0.1		< 0.1	< 0.1	20	< 0.1		< 0.01	< 0.5	< 0.01
Method Blank		< 0.02				< 0.1		9		< 0.05				< 0.1		< 0.1	< 0.1	30	< 0.1			< 0.5	
Method Blank	< 1		< 2		< 0.01																< 0.01		< 0.01
Method Blank	< 1		< 2		< 0.01																< 0.01		< 0.01
Method Blank	< 1		< 2		< 0.01																< 0.01		< 0.01
Method Blank	< 1		< 2		< 0.01																< 0.01		< 0.01

Analyte Symbol	Mn	Nb	Na	P	Rb	Rb	Re	Sb	Sc	Se	Se	Sn	Sr	Ta	Ta	Te	Tb	Ti	Th	Th	Tl	U	U
Unit Symbol	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.01	0.001	0.2	15	0.001	0.1	0.1	0.1	3	1	0.2	0.1	0.5	0.1	0.5	0.01	0.1	0.2	0.05	0.1	0.5
Method Code	TD-ICP	TD-MS	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	INAA	TD-MS	TD-MS	INAA
SDC-1 Meas	795	< 0.1		0.051	58.1							< 1	175	< 0.1				0.09	10.9		0.61	2.8	
SDC-1 Cert	880.00	21.00		0.0690	127.00							3.00	180.00	1.20				0.606	12.00		0.70	3.10	
SDC-1 Meas	857	< 0.1		0.055	54.0							< 1	164	< 0.1				0.10	10.0		0.53	2.5	
SDC-1 Cert	880.00	21.00		0.0690	127.00							3.00	180.00	1.20				0.606	12.00		0.70	3.10	
GXR-6 Meas	1020			0.032																			
GXR-6 Cert	1010			0.0350																			
DNC-1a Meas		1.3			2.1									139					0.18				
DNC-1a Cert		3			5									144					0.29				
DNC-1a Meas		1.4			2.3									144					0.24				
DNC-1a Cert		3			5									144					0.29				
DNC-1a Meas																			0.28				
DNC-1a Cert																			0.29				
SBC-1 Meas																			0.52				
SBC-1 Cert																			0.51				
SBC-1 Meas																			0.50				
SBC-1 Cert																			0.51				
OREAS 923 (4 Acid) Meas	887			0.063															0.40				
OREAS 923 (4 Acid) Cert	950			0.0630															0.405				
OREAS 923 (4 Acid) Meas	904			0.059															0.42				
OREAS 923 (4 Acid) Cert	950			0.0630															0.405				
OREAS 621 (4 Acid) Meas	451	7.8		0.036	61.8					4.5		5	61.4						0.18	5.9	1.88	2.5	
OREAS 621 (4 Acid) Cert	532	8.61		0.0359	84.0					5.64		5.25	91.0						0.149	7.48	1.96	2.83	
OREAS 621 (4 Acid) Meas	475	7.8		0.036	60.9					4.7		5	61.6						0.19	6.0	1.95	2.6	
OREAS 621 (4 Acid) Cert	532	8.61		0.0359	84.0					5.64		5.25	91.0						0.149	7.48	1.96	2.83	
OREAS 621 (4 Acid) Meas	511			0.035															0.19				
OREAS 621 (4 Acid) Cert	532			0.0359															0.149				
OREAS 925 (4 Acid) Meas	961	12.1		0.061	77.1					8.2		14	33.1	0.8					0.38	14.1	0.80	2.8	
OREAS 925 (4 Acid) Cert	990	13.3		0.0620	163					9.07		14.9	36.2	1.06					0.391	16.0	0.870	2.94	
OREAS 925 (4 Acid) Meas	967	12.1		0.060	76.0					8.5		14	32.6	0.8					0.42	14.6	0.80	2.8	
OREAS 925 (4 Acid) Cert	990	13.3		0.0620	163					9.07		14.9	36.2	1.06					0.391	16.0	0.870	2.94	
OREAS 925 (4 Acid) Meas	877			0.058															0.40				

Analyte Symbol	Mn	Nb	Na	P	Rb	Rb	Re	Sb	Sc	Se	Se	Sn	Sr	Ta	Ta	Te	Tb	Ti	Th	Th	Tl	U	U
Unit Symbol	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.01	0.001	0.2	15	0.001	0.1	0.1	0.1	3	1	0.2	0.1	0.5	0.1	0.5	0.01	0.1	0.2	0.05	0.1	0.5
Method Code	TD-ICP	TD-MS	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	INAA	TD-MS	TD-MS	INAA
Acid) Meas																							
OREAS 925 (4 Acid) Cert	990			0.0620														0.391					
OREAS 520 (4 Acid) Meas	2280			0.067														0.33					
OREAS 520 (4 Acid) Cert	2420			0.0740														0.445					
OREAS 520 (4 Acid) Meas	2360			0.068														0.38					
OREAS 520 (4 Acid) Cert	2420			0.0740														0.445					
OREAS 520 (4 Acid) Meas	2380			0.067														0.39					
OREAS 520 (4 Acid) Cert	2420			0.0740														0.445					
Oreas 45e (4-Acid) Meas	503			0.023														0.27					
Oreas 45e (4-Acid) Cert	550.000			0.034														0.559					
Oreas 45e (4-Acid) Meas	537			0.027														0.44					
Oreas 45e (4-Acid) Cert	550.000			0.034														0.559					
Oreas 45e (4-Acid) Meas	502			0.024														0.35					
Oreas 45e (4-Acid) Cert	550.000			0.034														0.559					
OREAS 906 (INAA) Meas						143		2.6						< 0.5		< 0.5			14.7			5.4	
OREAS 906 (INAA) Cert						137		2.47						1.39		0.800			14.6			5.14	
OREAS 906 (INAA) Meas						143		2.6						< 0.5		< 0.5			15.3			5.4	
OREAS 906 (INAA) Cert						137		2.47						1.39		0.800			14.6			5.14	
LT18-321R Orig	5340	2.4		0.063	135		0.004			1.0		< 1	452	< 0.1		< 0.1		0.25	2.4		2.54	1.6	
LT18-321R Dup	5450	2.3		0.063	151		0.003			0.7		< 1	437	< 0.1		< 0.1		0.25	2.1		2.55	1.4	
LT18-364R Orig	6810	3.0		0.086	126		0.002			0.7		< 1	331	0.2		< 0.1		0.27	2.7		0.89	2.7	
LT18-364R Dup	6790	2.9		0.085	111		0.003			0.7		< 1	320	0.1		< 0.1		0.27	2.6		0.95	2.7	
LT18-410R Orig			0.54			30		1.8	7.7			< 3				< 0.5	1.0			1.2		< 0.5	
LT18-410R Dup			0.54			< 15		1.8	7.3			< 3				< 0.5	0.9			1.1		< 0.5	
LT18-448R Orig	2060	0.7		0.016	18.2		0.002			1.1		3	110	< 0.1		0.4		0.05	0.4		0.18	0.4	
LT18-448R Split PREP DUP	1990	0.6		0.015	17.7		< 0.001			0.9		3	106	< 0.1		0.3		0.04	0.4		0.20	0.4	
KD18-215R Orig	548	0.9		0.062	49.2		0.001			0.6		< 1	293	< 0.1		< 0.1		0.19	8.3		0.30	3.1	
KD18-215R Dup	543	0.8		0.062	30.8		0.001			0.4		1	288	< 0.1		< 0.1		0.20	8.4		0.31	3.1	

Analyte Symbol	Mn	Nb	Na	P	Rb	Rb	Re	Sb	Sc	Se	Se	Sn	Sr	Ta	Ta	Te	Tb	Ti	Th	Th	Tl	U	U
Unit Symbol	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	0.1	0.01	0.001	0.2	15	0.001	0.1	0.1	0.1	3	1	0.2	0.1	0.5	0.1	0.5	0.01	0.1	0.2	0.05	0.1	0.5
Method Code	TD-ICP	TD-MS	INAA	TD-ICP	TD-MS	INAA	TD-MS	INAA	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-ICP	TD-MS	INAA	TD-MS	TD-MS	INAA
KD18-263R Orig			0.07			137		22.6	30.9		< 3				< 0.5		1.7			4.4			< 0.5
KD18-263R Dup			0.06			99		21.4	29.6		< 3				< 0.5		2.7			2.4			< 0.5
KD18-283R Orig	452	8.0		0.142	35.8		0.002			1.7		2	125	0.3		1.4		0.41	8.7		0.15	4.4	
KD18-283R Dup	470	8.1		0.139	36.5		0.002			1.6		2	128	0.4		1.5		0.41	8.7		0.12	4.3	
AW18-367R Orig	570	5.3		0.090	186		0.004			0.6		2	31.2	0.3		< 0.1		0.26	6.1		1.38	5.2	
AW18-367R Dup	527	5.0		0.086	141		< 0.001			0.4		2	31.9	0.2		< 0.1		0.26	5.9		1.28	5.4	
AW18-375R Orig			0.03			< 15		3.8	0.4		4				< 0.5		< 0.5			< 0.2			4.1
AW18-375R Dup			0.03			< 15		4.0	0.5		7				< 0.5		< 0.5			< 0.2			2.7
AW18-389R Orig	4740	1.4		0.071	26.9		0.007			0.6		< 1	248	< 0.1		< 0.1		0.12	1.5		5.18	1.1	
AW18-389R Split PREP DUP	4730	1.4		0.072	26.5		0.009			0.9		< 1	248	< 0.1		< 0.1		0.13	1.4		4.60	1.0	
AW18-410R Orig	1380	< 0.1		0.012	3.0		0.006			< 0.1		< 1	176	< 0.1		< 0.1		< 0.01	0.3		0.15	0.8	
AW18-410R Dup	1420	< 0.1		0.012	3.1		0.004			0.5		< 1	182	< 0.1		< 0.1		< 0.01	0.3		0.17	0.9	
PM18-029R Orig			0.35			186		37.8	3.3		< 3				< 0.5		< 0.5			16.9			5.4
PM18-029R Dup			0.33			192		36.3	3.3		< 3				< 0.5		< 0.5			15.4			5.4
PM18-055R Orig	52	7.5		0.018	134		0.002			< 0.1		1	48.3	0.5		< 0.1		0.14	3.8		2.60	4.2	
PM18-055R Dup	89	7.7		0.018	141		0.003			0.2		1	54.8	0.3		< 0.1		0.14	2.0		2.61	4.5	
PM18-198R Orig	707	6.4		0.172	95.4		0.002			2.7		1	222	0.3		< 0.1		0.64	2.8		1.48	1.9	
PM18-198R Dup	696	6.1		0.174	91.0		0.003			2.0		1	218	0.4		< 0.1		0.66	2.7		1.48	2.0	
PM18-222R Orig	1310	1.4		0.031	36.3		0.001			0.3		< 1	110	< 0.1		< 0.1		0.13	11.7		0.56	5.1	
PM18-222R Split PREP DUP	1390	6.3		0.036	50.8		0.002			< 0.1		1	109	0.5		< 0.1		0.14	12.5		0.64	5.3	
Method Blank			< 0.01			< 15		< 0.1	< 0.1		< 3				< 0.5		< 0.5			< 0.2			< 0.5
Method Blank		< 0.1		< 0.001	< 0.2		0.001			< 0.1		< 1	< 0.2	< 0.1		< 0.1		< 0.01	0.1		0.13	< 0.1	
Method Blank		< 0.1			< 0.2		0.001			< 0.1		< 1	< 0.2	< 0.1		< 0.1		< 0.01	< 0.1		< 0.05	< 0.1	
Method Blank				< 0.001														< 0.01					
Method Blank				< 0.001														< 0.01					
Method Blank				< 0.001														< 0.01					
Method Blank				< 0.001														< 0.01					

Analyte Symbol	V	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Method Code	TD-ICP	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-MS
SDC-1 Meas	37			25	42.0		93.2			41.6		7.7		1.62	7.7	6.5	1.2	1.4	3.9	0.6	3.3		
SDC-1 Cert	102.00			290.00	42.00		93.00			40.00		8.20		1.70	7.00	6.70	1.20	1.50	4.10	0.65	4.00		
SDC-1 Meas	36			23	37.8		81.9			37.6		6.9		1.41	6.8	5.9	1.0	1.3	3.5	0.5	3.0		
SDC-1 Cert	102.00			290.00	42.00		93.00			40.00		8.20		1.70	7.00	6.70	1.20	1.50	4.10	0.65	4.00		
GXR-6 Meas	63																						
GXR-6 Cert	186																						
DNC-1a Meas	121		15.9	36	3.7					5.0				0.60								2.0	
DNC-1a Cert	148		18.0	38.0	3.6					5.20				0.59								2.0	
DNC-1a Meas	134		16.6	36	3.6					4.9				0.58								2.0	
DNC-1a Cert	148		18.0	38.0	3.6					5.20				0.59								2.0	
DNC-1a Meas	150																						
DNC-1a Cert	148																						
SBC-1 Meas	235																						
SBC-1 Cert	220.0																						
SBC-1 Meas	226																						
SBC-1 Cert	220.0																						
OREAS 923 (4 Acid) Meas	93																						
OREAS 923 (4 Acid) Cert	91.0																						
OREAS 923 (4 Acid) Meas	99																						
OREAS 923 (4 Acid) Cert	91.0																						
OREAS 621 (4 Acid) Meas	33		12.0	157	17.8		43.5										0.5					0.9	0.1
OREAS 621 (4 Acid) Cert	31.8		11.1	168	21.6		46.6										0.460					0.990	0.140
OREAS 621 (4 Acid) Meas	36		12.0	160	17.4		42.7										0.5					1.0	0.1
OREAS 621 (4 Acid) Cert	31.8		11.1	168	21.6		46.6										0.460					0.990	0.140
OREAS 621 (4 Acid) Meas	35																						
OREAS 621 (4 Acid) Cert	31.8																						
OREAS 925 (4 Acid) Meas	93		23.6	109	39.0		80.0		8.8	32.7		6.0		1.21	5.7	4.6	0.8	0.9	2.5	0.4	2.2		0.3
OREAS 925 (4 Acid) Cert	91.0		24.6	106	41.3		82.0		9.36	34.8		6.51		1.28	5.58	4.82	0.810	0.930	2.70	0.390	2.43		0.380
OREAS 925 (4 Acid) Meas	101		23.6	110	38.1		75.4		8.6	32.0		5.9		1.16	5.8	4.6	0.8	0.9	2.5	0.4	2.3		0.3
OREAS 925 (4 Acid) Cert	91.0		24.6	106	41.3		82.0		9.36	34.8		6.51		1.28	5.58	4.82	0.810	0.930	2.70	0.390	2.43		0.380
OREAS 925 (4 Acid) Meas	97																						

Analyte Symbol	V	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Yb	Lu
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Method Code	TD-ICP	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-MS
Acid) Meas																							
OREAS 925 (4 Acid) Cert	91.0																						
OREAS 520 (4 Acid) Meas	237																						
OREAS 520 (4 Acid) Cert	257																						
OREAS 520 (4 Acid) Meas	260																						
OREAS 520 (4 Acid) Cert	257																						
OREAS 520 (4 Acid) Meas	264																						
OREAS 520 (4 Acid) Cert	257																						
Oreas 45e (4-Acid) Meas	253																						
Oreas 45e (4-Acid) Cert	322																						
Oreas 45e (4-Acid) Meas	295																						
Oreas 45e (4-Acid) Cert	322																						
Oreas 45e (4-Acid) Meas	277																						
Oreas 45e (4-Acid) Cert	322																						
OREAS 906 (INAA) Meas		< 1				50.6		91			38		7.5										0.7
OREAS 906 (INAA) Cert		2.71				48.3		96.0			40.3		7.60										0.760
OREAS 906 (INAA) Meas		< 1				50.6		100			38		7.8										0.7
OREAS 906 (INAA) Cert		2.71				48.3		96.0			40.3		7.60										0.760
LT18-321R Orig	157		19.3	43	19.6		37.8		4.6	19.2		3.9		1.79	4.3	3.2	0.6	0.7	1.7	0.2	1.4		0.2
LT18-321R Dup	159		18.2	40	18.5		37.3		4.5	18.8		3.9		1.73	3.9	2.9	0.5	0.6	1.6	0.2	1.3		0.2
LT18-364R Orig	198		20.0	43	22.1		40.5		5.6	23.7		4.8		1.77	4.9	3.4	0.6	0.7	1.6	0.2	1.3		0.2
LT18-364R Dup	196		19.7	42	22.0		40.0		5.6	23.4		4.7		1.78	4.9	3.4	0.6	0.6	1.6	0.2	1.3		0.2
LT18-410R Orig		< 1				41.0		81			43		6.9										2.9
LT18-410R Dup		< 1				40.8		79			33		6.8										2.8
LT18-448R Orig	77		6.3	6	2.5		5.1		0.6	2.7		0.6		0.34	0.8	0.8	0.1	0.2	0.6	< 0.1	0.5		< 0.1
LT18-448R Split PREP DUP	76		6.4	7	2.4		5.1		0.6	2.6		0.6		0.36	0.9	0.8	0.1	0.2	0.6	< 0.1	0.6		< 0.1
KD18-215R Orig	63		14.4	51	18.9		33.9		3.6	13.1		2.4		0.77	2.6	2.4	0.4	0.5	1.5	0.2	1.4		0.2
KD18-215R Dup	67		14.7	55	19.9		35.5		3.8	14.0		2.5		0.78	2.7	2.4	0.4	0.5	1.6	0.2	1.5		0.2

Analyte Symbol	V	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Yb	Lu	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	2	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	
Method Code	TD-ICP	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	TD-MS	
KD18-263R Orig		< 1				43.0		90			36		10.1										5.0	
KD18-263R Dup		< 1				41.3		85			38		9.8										4.7	
KD18-283R Orig	115		18.7	126	17.9		36.5		4.3	17.5		3.4		0.85	3.4	3.3	0.5	0.8	2.3	0.4	2.4		0.4	
KD18-283R Dup	115		19.0	130	18.0		37.6		4.5	17.6		3.4		0.85	3.4	3.3	0.6	0.8	2.3	0.4	2.4		0.4	
AW18-367R Orig	59		16.5	105	11.8		24.8		3.6	14.8		3.0		0.92	3.2	2.9	0.5	0.7	2.0	0.3	1.9		0.3	
AW18-367R Dup	59		17.1	63	11.9		24.9		3.4	14.3		2.8		0.93	3.2	3.0	0.5	0.7	2.0	0.3	2.0		0.3	
AW18-375R Orig		38				1.4		< 3			< 5		< 0.1										0.2	
AW18-375R Dup		37				0.9		< 3			< 5		0.1											< 0.2
AW18-389R Orig	60		8.8	24	8.5		15.9		1.8	7.4		1.5		0.56	1.8	1.6	0.3	0.4	1.0	0.2	0.9		0.1	
AW18-389R Split PREP DUP	59		9.0	25	8.3		15.4		1.7	6.8		1.4		0.55	1.7	1.5	0.3	0.3	0.9	0.1	0.8		0.1	
AW18-410R Orig	24		4.8	6	1.6		3.8		0.5	2.7		0.7		0.34	0.9	0.9	0.2	0.2	0.5	< 0.1	0.3		< 0.1	
AW18-410R Dup	25		4.9	6	1.5		3.5		0.5	2.5		0.7		0.34	1.0	0.9	0.2	0.2	0.5	< 0.1	0.4		< 0.1	
PM18-029R Orig		< 1				15.8		25			< 5		1.4										2.5	
PM18-029R Dup		< 1				15.0		27			6		1.4										2.8	
PM18-055R Orig	37		11.8	101	4.8		19.6		3.4	15.2		2.1		0.45	1.8	1.8	0.3	0.5	1.5	0.2	1.7		0.3	
PM18-055R Dup	38		12.7	108	11.9		39.0		4.7	17.4		2.3		0.47	1.9	2.0	0.3	0.5	1.6	0.3	1.8		0.3	
PM18-198R Orig	276		23.5	103	18.4		46.0		6.4	27.1		5.5		1.68	5.8	4.6	0.8	1.0	2.7	0.4	2.2		0.3	
PM18-198R Dup	271		22.9	103	18.5		45.1		6.2	26.9		5.6		1.71	5.9	4.6	0.8	1.0	2.6	0.4	2.3		0.3	
PM18-222R Orig	32		14.2	22	21.8		40.1		4.1	14.9		2.7		0.66	2.9	2.4	0.4	0.5	1.5	0.2	1.5		0.2	
PM18-222R Split PREP DUP	35		13.7	96	21.4		40.0		4.1	14.7		2.7		0.67	3.0	2.5	0.4	0.5	1.5	0.2	1.5		0.2	
Method Blank		< 1				< 0.5		< 3			< 5		< 0.1										< 0.2	
Method Blank	< 2		< 0.1	< 1	< 0.1		< 0.1		< 0.1	< 0.1		< 0.1		< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank			< 0.1	< 1	< 0.1		< 0.1		< 0.1	< 0.1		< 0.1		< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
Method Blank	< 2																							
Method Blank	< 2																							
Method Blank	< 2																							
Method Blank	< 2																							

Analyte Symbol	Lu	Mass
Unit Symbol	ppm	g
Lower Limit	0.05	
Method Code	INAA	INAA
SDC-1 Meas		
SDC-1 Cert		
SDC-1 Meas		
SDC-1 Cert		
GXR-6 Meas		
GXR-6 Cert		
DNC-1a Meas		
DNC-1a Cert		
DNC-1a Meas		
DNC-1a Cert		
DNC-1a Meas		
DNC-1a Cert		
SBC-1 Meas		
SBC-1 Cert		
SBC-1 Meas		
SBC-1 Cert		
OREAS 923 (4 Acid) Meas		
OREAS 923 (4 Acid) Cert		
OREAS 923 (4 Acid) Meas		
OREAS 923 (4 Acid) Cert		
OREAS 621 (4 Acid) Meas		
OREAS 621 (4 Acid) Cert		
OREAS 621 (4 Acid) Meas		
OREAS 621 (4 Acid) Cert		
OREAS 621 (4 Acid) Meas		
OREAS 621 (4 Acid) Cert		
OREAS 621 (4 Acid) Meas		
OREAS 621 (4 Acid) Cert		
OREAS 925 (4 Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 925 (4 Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 925 (4		

Analyte Symbol	Lu	Mass
Unit Symbol	ppm	g
Lower Limit	0.05	
Method Code	INAA	INAA
Acid) Meas		
OREAS 925 (4 Acid) Cert		
OREAS 520 (4 Acid) Meas		
OREAS 520 (4 Acid) Cert		
OREAS 520 (4 Acid) Meas		
OREAS 520 (4 Acid) Cert		
OREAS 520 (4 Acid) Meas		
OREAS 520 (4 Acid) Cert		
OREAS 520 (4 Acid) Meas		
OREAS 520 (4 Acid) Cert		
Oreas 45e (4-Acid) Meas		
Oreas 45e (4-Acid) Cert		
Oreas 45e (4-Acid) Meas		
Oreas 45e (4-Acid) Cert		
Oreas 45e (4-Acid) Meas		
Oreas 45e (4-Acid) Cert		
OREAS 906 (INAA) Meas		
OREAS 906 (INAA) Cert		
OREAS 906 (INAA) Meas		
OREAS 906 (INAA) Cert		
LT18-321R Orig		
LT18-321R Dup		
LT18-364R Orig		
LT18-364R Dup		
LT18-410R Orig	0.12	29.8
LT18-410R Dup	0.10	30.9
LT18-448R Orig		
LT18-448R Split PREP DUP		
KD18-215R Orig		
KD18-215R Dup		

Analyte Symbol	Lu	Mass
Unit Symbol	ppm	g
Lower Limit	0.05	
Method Code	INAA	INAA
KD18-263R Orig	0.17	25.2
KD18-263R Dup	0.21	26.9
KD18-283R Orig		
KD18-283R Dup		
AW18-367R Orig		
AW18-367R Dup		
AW18-375R Orig	< 0.05	30.3
AW18-375R Dup	< 0.05	27.9
AW18-389R Orig		
AW18-389R Split PREP DUP		
AW18-410R Orig		
AW18-410R Dup		
PM18-029R Orig	0.17	27.5
PM18-029R Dup	0.17	28.1
PM18-055R Orig		
PM18-055R Dup		
PM18-198R Orig		
PM18-198R Dup		
PM18-222R Orig		
PM18-222R Split PREP DUP		
Method Blank	< 0.05	30.0
Method Blank		
Method Blank		
Method Blank		
Method Blank		
Method Blank		
Method Blank		



Date Submitted: 19-Oct-18
Invoice No.: A18-15519
Invoice Date: 10-Dec-18
Your Reference: Stewart 2018-AUX04

Auramex Resource Corp
20th Floor, 250 Howe Street
Vancouver BC V6C 3R8
Canada

ATTN: Paul Metcalfe

CERTIFICATE OF ANALYSIS

163 Soil samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-3 INAA(INAAGEO)/Total digestion ICP(Total)Total Digestion ICP/MS

REPORT **A18-15519**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Unaltered silicates and resistate minerals may not be dissolved. Values which exceed upper limit should be assayed.

Footnote: INAA data may be suppressed due to high concentrations of some analytes.
Insufficient sample for INAA analysis for PM18-054PC, PM18-143PC and PM18-146PC

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control

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Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
BS L1N 0E	16	0.36	30.6	0.2	< 1	24.6	21.2	108	0.02	8.01	13.9	1270	1.5	0.3	9.9	1.10	14.4	46	7.25	0.6	4.66	< 0.1	19.3
BS L1N 25E	15	0.30	19.4	< 0.1	< 1	25.4	12.1	71.8	0.06	7.66	13.3	987	1.3	0.3	30.3	1.00	8.1	49	6.80	1.1	3.74	0.2	25.2
BS L1N 50E	41	0.50	38.5	0.2	< 1	27.6	19.0	122	0.01	8.01	18.8	1430	1.4	0.3	3.7	0.90	7.1	18	7.32	0.6	4.79	0.5	22.4
BS L1N 75E	11	0.51	39.1	0.2	< 1	27.6	18.3	139	0.03	8.38	20.4	1600	1.8	0.3	3.9	0.78	12.1	48	7.53	2.0	4.85	2.1	23.1
BS L1N 100E	< 2	0.55	38.2	0.2	< 1	27.7	21.7	144	0.03	8.27	17.3	1520	1.6	0.3	2.0	0.97	13.4	47	7.37	2.1	4.58	3.7	24.6
BS L1N 125E	13	0.58	70.4	0.6	< 1	31.4	14.1	146	0.12	10.5	13.4	1690	1.7	0.3	24.3	0.89	17.0	28	16.9	2.0	5.49	2.3	22.6
BS L1N 150E	< 2	1.45	44.0	0.4	< 1	36.0	8.4	111	0.10	6.31	11.7	1790	1.3	0.2	34.7	1.16	15.9	27	7.95	1.0	4.84	0.3	18.9
BS L1N 175E	25	0.79	201	0.8	< 1	91.5	23.9	173	0.03	8.71	47.1	1720	2.9	0.6	49.8	0.97	18.3	51	15.2	2.9	5.82	5.0	22.5
BS L1N 200E	5	0.50	43.6	0.3	2	28.1	20.2	124	0.01	8.04	25.2	1620	1.5	0.2	4.2	0.97	13.9	25	7.20	0.5	4.90	2.9	20.8
BS L1N 225E	< 2	1.00	43.2	0.3	1	30.4	15.5	129	0.05	8.34	37.0	1020	1.7	0.3	10.9	0.87	17.5	37	8.31	1.7	5.08	2.8	26.2
BS L1N 250E	23	0.40	52.7	0.5	< 1	64.8	11.3	129	0.03	8.76	12.2	1240	1.6	0.3	3.0	0.59	15.8	15	13.5	0.8	5.31	0.3	24.3
BS L1N 275E	< 2	1.11	48.6	0.3	1	26.0	20.0	131	0.03	7.70	37.1	1330	2.0	0.2	20.9	0.98	6.3	51	8.51	1.7	5.09	0.9	21.7
BS L1N 300E	< 2	0.64	28.4	0.2	< 1	26.9	17.9	116	0.02	7.88	15.8	1420	1.4	0.3	16.7	0.81	12.1	42	8.06	1.8	4.48	1.5	24.6
BS L1N 325E	< 2	0.73	16.6	0.1	3	18.1	3.8	30.5	0.07	5.56	8.2	607	0.7	0.2	47.8	0.34	3.6	18	7.71	0.9	2.70	1.3	15.3
BS L1N 350E	12	0.62	35.0	0.2	< 1	29.2	19.2	126	0.02	8.00	14.8	1150	1.4	0.3	2.4	0.71	12.1	30	8.88	0.6	4.63	3.2	24.8
BS L1N 375E	< 2	0.79	39.3	0.6	< 1	32.6	20.5	161	0.03	7.85	16.6	1780	2.2	0.2	11.1	0.82	7.3	40	8.95	1.0	4.59	1.4	20.6
BS L1N 400E	4	0.54	36.5	0.2	< 1	29.8	17.7	119	0.03	7.75	19.3	1810	1.4	0.3	30.8	0.82	13.1	32	9.63	1.0	4.51	0.1	20.2
BS L1N 425E	28	0.51	36.8	0.3	< 1	28.1	19.8	132	< 0.01	7.80	18.1	1860	1.4	0.2	3.0	0.85	15.6	51	8.51	1.3	4.76	< 0.1	15.7
BS L1N 450E	< 2	0.51	35.1	0.2	3	25.6	31.7	121	0.08	15.5	15.3	2040	1.2	0.2	15.3	0.96	11.9	46	7.45	1.1	4.45	2.8	17.3
BS L1N 475E	< 2	0.65	25.7	0.3	1	20.7	11.1	134	0.10	9.28	10.7	998	1.3	0.2	15.9	0.56	17.2	74	9.51	0.9	4.74	2.5	19.6
BS L1N 500E	10	0.39	43.8	0.3	< 1	26.7	21.3	128	0.02	7.79	15.3	789	1.4	0.2	8.6	0.65	11.7	36	9.06	0.8	4.61	2.1	16.9
BS L2N 100E	35	0.41	29.0	0.2	< 1	32.2	13.8	92.3	0.04	7.71	17.1	1390	1.5	0.4	12.6	0.74	8.7	58	7.46	0.6	4.03	4.3	28.2
BS L2N 125E	6	0.36	31.9	0.2	< 1	30.0	18.7	123	0.03	8.07	16.4	1230	2.0	0.3	15.4	0.96	13.2	36	6.64	1.6	5.00	4.2	24.2
BS L2N 150E	< 2	0.45	75.7	0.6	1	42.1	16.4	178	0.05	8.61	31.0	1140	1.8	0.3	15.4	0.49	24.7	14	14.1	2.4	6.07	2.9	21.0
BS L2N 175E	< 2	0.60	116	0.5	3	36.2	17.5	165	0.11	11.0	20.9	1240	2.6	0.4	9.2	0.96	15.6	35	8.69	2.6	5.12	2.8	29.8
BS L2N 200E	23	0.69	60.7	0.5	< 1	35.3	25.2	194	0.03	8.52	27.2	1590	2.2	0.4	12.9	0.95	14.6	36	9.90	1.8	4.90	1.8	23.7
BS L2N 225E	19	0.75	57.5	0.5	< 1	37.3	26.4	180	0.02	8.38	19.4	1510	1.7	0.4	3.2	0.95	16.5	40	5.63	0.8	4.38	2.0	21.2
BS L2N 250E	17	0.91	101	0.7	< 1	28.1	22.0	143	0.02	8.54	18.5	1530	2.0	0.3	2.5	1.15	12.3	34	9.50	1.8	4.95	1.6	23.9
BS L2N 275E	21	0.77	48.0	0.3	< 1	35.4	23.6	141	0.02	8.48	15.0	1280	1.6	0.3	2.5	1.28	12.6	47	8.83	1.4	4.79	2.9	23.5
BS L2N 300E	8	0.52	27.7	0.3	< 1	24.1	16.1	120	< 0.01	7.84	13.6	1610	1.4	0.2	6.8	1.02	11.7	23	5.62	1.3	4.50	2.6	16.8
BS L2N 325E	5	0.67	49.6	0.3	< 1	27.3	14.7	129	0.04	8.31	19.6	1310	1.7	0.2	11.1	0.70	13.2	38	13.0	1.0	5.36	3.4	22.1
BS L2N 350E	4	1.17	24.1	0.2	3	36.7	14.2	101	0.09	9.41	16.3	941	1.1	0.4	39.0	0.55	8.0	28	8.52	0.6	4.06	4.3	24.2
BS L2N 375E	< 2	0.53	22.1	0.1	< 1	31.9	16.7	96.8	0.04	8.03	14.5	1260	1.3	0.3	21.1	0.71	8.3	32	8.91	0.6	3.98	3.7	25.0
BS L2N 400E	10	1.10	58.5	0.4	< 1	62.8	25.6	160	0.02	8.49	24.7	1830	1.6	0.6	13.1	0.79	13.6	73	8.50	1.0	4.92	2.4	20.5
BS L2N 425E	< 2	0.64	32.6	0.3	< 1	30.7	20.3	122	0.02	8.25	18.5	1370	1.5	0.2	3.7	0.66	11.6	34	9.54	0.4	4.51	2.2	17.8
BS L2N 450E	4	0.41	30.3	0.3	< 1	31.1	17.4	103	0.02	6.70	15.0	1240	1.3	0.2	22.5	0.75	11.1	29	7.04	1.1	3.91	0.7	14.5
BS L2N 475E	< 2	0.59	20.4	0.1	< 1	27.0	10.4	64.0	0.06	6.73	16.1	1080	0.9	0.3	21.4	0.57	6.1	55	7.67	1.1	3.64	2.1	21.6
BS L2N 500E	< 2	3.88	44.3	0.3	< 1	30.3	18.1	119	0.02	7.93	16.7	1310	1.4	0.2	11.8	0.70	10.6	40	13.0	0.7	4.55	0.9	17.6
BS L2N 525E	13	1.22	17.1	0.1	10	21.3	9.8	67.9	0.09	17.1	12.4	601	1.2	0.2	13.1	1.18	5.8	47	7.78	0.6	3.74	5.1	26.4

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
BS L2N 550E	10	0.94	43.8	0.3	3	33.8	23.6	133	0.02	8.12	15.1	1470	1.5	0.3	7.2	0.79	12.9	48	6.76	1.5	4.78	3.6	23.2
BS L2N 575E	< 2	0.72	33.2	0.2	1	24.1	17.4	107	0.04	7.74	22.4	1300	1.3	0.2	17.3	0.61	12.1	39	7.83	1.2	4.91	3.3	18.8
BS L2N 600E	< 2	0.49	19.2	0.3	6	21.3	11.6	74.9	0.10	9.94	19.6	906	0.8	0.2	28.5	0.37	7.7	36	6.77	0.5	5.13	2.5	17.5
BS L3N 175E	15	0.29	33.4	0.2	2	29.6	16.8	117	0.08	8.32	15.6	1270	1.5	0.4	42.3	0.77	11.4	59	9.06	1.4	4.44	3.5	23.5
BS L3N 200E	62	0.22	55.8	0.5	< 1	40.5	8.8	129	0.05	8.57	13.4	1500	1.3	0.2	14.1	1.75	18.1	19	7.30	0.8	5.94	2.2	24.3
BS L3N 225E	12	0.64	35.1	0.2	< 1	30.5	16.8	115	0.02	8.29	10.6	1500	1.4	0.4	1.3	0.93	14.1	42	8.66	1.4	3.98	1.7	22.0
BS L3N 250E	7	0.32	36.0	0.2	< 1	35.2	17.1	124	0.02	8.16	12.3	1210	1.5	0.3	8.3	0.96	11.6	39	8.59	1.3	4.35	0.2	22.3
BS L3N 275E	22	0.62	63.6	0.6	< 1	40.0	26.3	167	0.02	8.23	21.0	1520	1.9	0.4	8.9	0.97	18.0	41	10.4	1.8	4.22	0.2	20.5
BS L3N 300E	< 2	0.66	42.3	0.3	2	59.4	25.4	132	0.02	7.95	19.4	1680	1.5	0.3	3.7	0.72	13.6	29	8.91	0.8	4.87	2.8	17.1
BS L3N 325E	6	0.53	41.4	0.2	1	32.9	25.3	130	0.02	7.74	21.7	1310	1.8	0.4	1.1	0.84	10.7	40	7.31	0.5	4.50	4.7	21.2
BS L3N 350E	< 2	0.67	53.1	0.6	1	44.8	30.3	144	0.02	7.93	20.6	1360	1.8	0.4	< 0.5	0.91	16.7	51	8.37	0.4	4.64	3.5	18.3
BS L3N 375E	20	0.68	39.0	0.3	< 1	32.7	22.3	129	0.02	7.93	17.2	1540	1.7	0.3	< 0.5	0.96	14.3	39	8.18	1.3	4.67	3.6	19.4
BS L3N 400E	4	0.53	21.3	0.3	2	27.2	18.5	106	0.02	7.63	18.4	1340	2.4	0.3	< 0.5	0.87	11.8	41	6.83	1.6	4.74	6.4	19.7
BS L3N 425E	< 2	0.67	41.4	0.8	< 1	33.4	26.8	148	0.02	7.93	11.7	1540	1.9	0.2	< 0.5	1.05	10.6	31	8.38	0.5	4.69	2.1	14.8
BS L3N 450E	< 2	0.41	43.3	0.3	< 1	30.4	22.0	136	< 0.01	7.47	15.8	1740	1.8	0.2	< 0.5	0.83	15.5	32	9.60	0.6	4.68	0.6	14.3
BS L3N 475E	9	0.49	35.9	0.5	< 1	32.4	22.2	157	0.01	7.97	11.9	1230	2.5	0.3	< 0.5	0.96	10.8	41	8.38	1.3	4.20	0.5	18.3
BS L3N 500E	9	1.28	36.7	0.3	< 1	35.6	23.4	132	0.01	8.17	15.7	1280	2.1	0.3	< 0.5	0.85	14.5	42	8.85	1.6	4.52	0.3	21.0
BS L3N 525E	22	0.49	30.6	0.3	< 1	35.3	20.2	123	0.01	8.02	18.8	1420	1.6	0.3	1.9	0.62	12.2	24	9.57	0.7	4.76	< 0.1	18.0
BS L3N 550E	< 2	0.57	49.6	0.5	< 1	33.1	24.3	146	0.02	7.92	20.0	1650	2.1	0.2	< 0.5	0.72	17.8	34	9.40	1.6	4.90	3.4	17.7
BS L3N 575E	9	0.43	37.5	0.2	< 1	24.7	25.0	118	0.01	7.59	14.8	1300	1.5	0.2	6.0	0.97	15.1	50	7.01	1.3	5.19	2.1	18.0
BS L3N 600E	49	0.79	36.2	0.2	< 1	36.7	21.3	123	0.03	7.92	18.4	1380	1.5	0.2	7.2	0.70	15.2	39	8.98	1.4	4.96	3.0	17.2
BS L3N 625E	11	0.47	19.5	0.2	< 1	21.3	14.9	92.8	0.03	7.57	19.7	1200	1.1	0.2	16.0	0.51	8.8	37	7.87	0.3	4.83	2.8	15.5
BS L3N 650E	6	1.00	22.2	0.1	2	22.8	14.9	101	0.04	8.42	15.4	1030	2.0	0.3	13.4	0.97	4.9	47	8.72	1.3	4.47	8.0	30.8
BS L3N 675E	< 2	0.42	28.2	0.2	< 1	30.6	20.8	114	0.02	8.16	17.8	1300	1.3	0.2	11.8	0.60	10.6	29	9.63	1.3	4.70	2.7	14.7
KD18-211S	< 2	0.77	228	123	2	29.7	11.7	9540	0.16	8.05	8.5	2480	1.7	3.0	3.7	4.68	27.4	11	9.00	1.5	7.36	0.8	12.2
PM18-187S	68	10.9	4320	36.6	109	863	12.4	2330	0.65	7.32	109	15700	2.3	32.8	< 0.5	0.18	71.4	13	15.0	1.3	12.0	2.6	19.2
PM18-192S	542	26.4	1340	2.3	10	1010	3.1	850	1.45	5.00	2240	1740	0.9	7.6	< 0.5	0.09	15.7	13	8.29	< 0.2	20.7	1.7	16.0
PM18-197S	14	0.74	24.4	< 0.1	< 1	21.9	2.9	93.5	0.12	9.14	13.3	1740	2.2	0.1	< 0.5	0.41	9.3	8	60.8	0.9	6.03	1.8	14.8
PM18-205S	117	25.6	23.6	3.6	57	554	1.8	170	7.41	7.37	167	2100	2.6	72.6	< 0.5	0.05	20.7	13	17.5	1.9	14.8	4.3	26.4
PM18-209S	< 2	0.98	47.2	0.2	6	30.7	4.4	96.1	0.08	9.12	25.6	521	1.2	1.4	40.8	0.57	13.2	40	9.29	1.3	6.95	4.7	26.1
PM18-214S	< 2	0.44	25.2	0.3	1	14.6	6.1	64.4	0.59	9.97	25.2	1170	2.4	0.2	< 0.5	1.14	29.2	< 1	24.1	1.4	6.76	2.2	19.5
AB18-090T	1350	2.87	78.3	11.3	1	215	20.6	185	0.05	5.54	> 10000	755	1.3	0.8	< 0.5	0.52	45.1	27	3.08	< 0.2	13.3	1.5	11.2
AB18-115T	< 2	0.88	46.2	1.2	5	31.1	16.6	215	0.10	6.93	166	1420	2.0	2.1	46.3	1.97	28.0	54	9.91	0.4	5.17	1.7	8.9
AB18-116T	< 2	0.74	37.5	0.6	< 1	36.4	35.0	197	0.02	7.56	38.7	1460	1.7	0.3	20.0	0.46	17.8	131	8.33	0.5	4.90	1.7	9.4
AB18-117T	< 2	1.14	27.2	0.6	2	24.0	6.4	119	0.13	5.02	20.3	642	1.8	0.6	40.4	1.01	24.0	41	5.81	1.2	4.68	0.4	9.5
AW18-366T	< 2	3.50	34.3	4.0	2	146	9.9	462	0.48	7.63	43.6	3100	3.0	0.2	< 0.5	1.07	8.3	7	8.01	0.4	3.89	3.3	6.3
AW18-475T	12	0.69	55.1	1.4	< 1	34.3	34.2	148	0.09	6.47	174	1440	1.3	0.2	23.0	1.32	18.2	38	6.48	0.3	4.89	0.7	8.8
AW18-486T	< 2	1.54	23.4	6.1	< 1	109	13.8	896	0.14	6.74	52.0	2540	2.4	0.2	26.5	0.69	17.7	22	7.23	1.5	7.76	0.5	1.6
KD18-089T	< 2	0.67	29.8	0.9	< 1	19.5	5.2	107	0.04	7.60	22.7	1290	1.4	0.1	11.2	1.30	11.9	9	9.49	0.4	4.86	1.9	10.1

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT I TD- ICP/TD- ICP-MS	MULT I TD- ICP/TD- ICP-MS	TD-ICP	MULT I TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT I TD- ICP/TD- ICP-MS	MULT I TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
KD18-090T	25	7.62	64.1	7.0	4	461	8.4	488	0.17	5.73	157	1690	1.3	0.3	90.1	1.64	19.9	20	16.7	0.6	5.27	1.7	12.1
KD18-091T	< 2	1.39	56.1	3.6	3	57.4	8.2	282	0.11	5.93	82.3	1210	1.0	0.2	54.1	1.72	14.9	< 1	19.5	0.5	4.07	1.7	11.2
KD18-230T	14	0.79	57.7	0.6	< 1	43.3	9.3	138	0.51	7.94	25.4	2180	1.3	0.2	< 0.5	1.19	18.8	58	4.07	1.0	4.99	2.4	14.9
KD18-355T	< 2	4.41	66.4	5.3	3	135	7.3	612	0.58	7.35	66.0	3410	1.9	0.3	< 0.5	0.99	11.3	15	7.65	0.8	4.95	3.4	13.4
KD18-358T	9	0.85	34.3	2.9	4	152	6.3	551	0.05	7.48	63.3	1980	2.2	0.2	10.5	0.73	10.6	8	27.0	0.7	4.86	2.3	13.3
KD18-359T	< 2	0.46	33.5	1.0	< 1	33.4	5.5	140	0.70	7.20	13.1	1780	1.5	0.2	< 0.5	2.71	12.0	10	5.27	0.4	5.64	2.2	11.2
KD18-360T	12	1.14	152	3.6	4	51.9	20.8	323	0.15	5.29	71.0	1430	1.4	0.7	107	1.49	20.6	39	28.7	0.6	5.41	1.7	11.1
KD18-361T	< 2	0.99	23.6	1.0	< 1	74.7	4.3	324	0.09	8.15	14.5	6250	2.2	0.1	< 0.5	1.03	11.3	8	6.44	0.4	4.49	0.8	3.2
KD18-362T	< 2	2.48	60.9	4.3	< 1	105	10.3	546	0.09	7.02	59.3	3090	1.9	0.3	34.5	1.08	12.0	10	20.3	0.4	5.33	1.7	7.3
KD18-363T	< 2	2.79	64.9	1.7	< 1	108	5.8	377	0.07	6.78	32.5	3110	1.6	0.3	36.8	1.21	12.6	8	18.6	< 0.2	5.06	1.5	8.7
LT18-270T	18	1.84	113	9.2	3	35.9	22.4	1330	0.07	7.44	15.1	1830	1.6	0.7	41.0	3.35	25.6	125	3.31	1.5	5.60	0.5	10.7
LT18-276T	15	1.01	43.0	4.2	8	17.8	15.8	285	0.08	6.16	9.5	2030	1.4	0.4	16.4	2.86	17.8	19	2.55	0.3	4.83	1.1	9.3
LT18-308T	< 2	0.76	24.9	1.5	< 1	33.7	14.7	223	0.11	7.89	36.7	2730	1.7	0.1	< 0.5	1.40	4.5	28	5.41	0.4	3.85	2.1	11.0
LT18-310T	2	0.93	25.8	1.3	1	36.8	13.6	210	0.11	7.91	38.5	2790	1.9	0.2	< 0.5	1.43	8.9	20	5.31	1.3	4.11	1.6	10.7
PM18-054T	< 2	0.91	98.0	3.0	3	16.7	7.8	153	0.19	3.37	6.2	551	0.9	0.6	185	3.08	13.4	14	1.81	< 0.2	3.09	0.3	6.2
PM18-056T	< 2	2.71	27.1	0.7	3	95.0	3.1	181	0.38	6.24	437	3110	1.5	0.1	< 0.5	0.13	4.4	< 1	7.51	< 0.2	7.31	1.5	10.0
PM18-058T	22	3.77	25.2	3.1	8	287	6.4	455	0.24	5.83	203	3130	1.4	0.2	< 0.5	0.23	28.3	5	4.85	1.1	5.23	1.7	9.2
PM18-061T	20	0.96	108	0.7	2	20.2	44.3	108	0.15	6.80	36.2	799	1.5	0.1	11.8	1.00	18.1	80	4.70	0.3	4.30	1.6	13.6
PM18-064T	< 2	1.21	40.1	0.7	3	19.1	29.2	148	0.09	6.18	15.2	1000	1.3	0.1	16.7	1.59	13.8	57	6.13	0.3	3.78	1.7	10.7
PM18-066T	< 2	0.93	53.3	0.6	< 1	25.2	37.6	209	0.05	6.60	22.7	1140	1.4	0.2	16.0	1.20	16.5	72	7.19	0.4	4.29	1.1	12.5
PM18-067T	33	1.08	79.7	1.5	6	67.9	34.4	167	0.07	6.71	38.7	970	1.4	0.2	4.3	0.76	16.0	56	4.87	0.3	4.23	1.9	12.6
PM18-091T	64	11.4	133	3.1	2	3410	42.5	1090	1.55	4.69	206	308	0.7	< 0.1	25.4	1.10	23.6	140	1.88	0.8	14.3	1.7	16.6
PM18-115T	< 2	0.66	75.0	0.3	< 1	18.2	6.1	109	0.05	8.05	12.5	1580	1.4	0.2	< 0.5	2.53	15.0	11	4.95	0.5	7.23	1.5	11.3
PM18-117T	< 2	0.35	20.2	0.2	< 1	11.6	4.9	99.4	0.13	8.13	9.1	2440	1.5	0.2	< 0.5	1.66	15.4	18	4.13	0.4	6.80	1.3	7.3
PM18-118T	< 2	0.31	26.5	0.3	< 1	13.0	5.2	101	0.13	8.36	11.2	1950	1.7	0.2	< 0.5	1.56	14.5	21	4.51	0.6	7.55	1.3	10.0
PM18-143T	126	1.64	81.6	3.1	1	95.5	21.3	666	0.29	6.74	90.3	781	1.3	2.7	14.0	2.09	34.9	61	4.18	0.9	5.80	0.5	13.8
PM18-146T	11	0.64	25.2	0.5	< 1	27.5	6.3	120	0.07	7.78	57.8	806	1.6	0.8	24.4	1.69	42.0	< 1	5.45	1.4	5.54	0.5	12.4
PM18-159T	20	0.67	59.2	0.6	< 1	40.3	9.5	131	0.48	7.50	30.1	1780	1.5	0.2	< 0.5	1.26	19.1	31	4.13	1.2	4.70	2.3	9.8
PM18-196T	6	0.42	21.3	0.1	< 1	22.0	4.1	103	0.12	8.44	11.6	1570	1.7	< 0.1	< 0.5	0.39	10.5	20	30.4	0.5	5.68	2.4	13.3
PM18-199T	< 2	0.39	19.5	1.7	2	19.6	10.4	138	0.33	7.00	45.4	1410	4.8	< 0.1	< 0.5	0.60	29.6	9	7.57	2.8	11.7	1.9	9.9
PM18-203T	< 2	0.93	25.1	2.7	5	31.5	13.1	328	0.15	6.92	39.8	732	2.1	0.1	64.5	3.06	32.2	3	3.76	1.4	2.61	0.8	4.1
AB18-115M	< 2	0.84	33.6	1.2	2	23.6	12.0	201	0.17	4.88	64.8	681	1.4	1.3	29.1	1.80	25.4	24	6.55	0.3	3.75	1.0	7.1
AB18-117M	< 2	1.09	33.6	0.7	3	20.6	5.8	98.5	0.16	3.82	14.4	622	1.4	0.5	31.0	0.92	21.8	7	4.79	0.5	3.41	0.2	9.0
AW18-366M	< 2	7.66	47.0	4.9	3	260	10.3	536	0.60	7.42	92.8	3350	2.7	0.3	< 0.5	0.98	11.2	16	8.21	1.0	5.32	3.7	10.8
AW18-486M	< 2	1.30	35.8	6.3	1	117	14.6	745	0.14	5.85	53.7	2150	2.2	0.1	23.1	0.75	< 0.1	24	7.06	1.2	4.90	0.8	3.6
KD18-230M	28	0.99	64.9	0.7	< 1	25.8	11.4	142	0.31	7.31	31.7	1880	1.6	0.2	< 0.5	1.12	21.8	24	4.75	0.7	5.70	1.7	9.8
KD18-355M	< 2	5.66	47.4	4.8	3	492	7.4	599	1.14	6.58	148	3670	2.2	0.4	< 0.5	0.76	13.4	26	7.33	0.8	6.13	2.7	13.2
KD18-358M	< 2	1.34	35.8	4.5	4	111	6.8	590	0.10	6.10	48.8	1720	1.9	0.2	44.3	1.16	< 0.1	8	7.33	0.6	3.92	0.3	6.4
KD18-359M	20	0.99	37.8	1.1	< 1	54.2	7.1	148	1.50	6.96	22.4	2480	1.8	0.3	< 0.5	2.40	17.3	17	5.32	1.5	7.64	2.8	13.7

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
KD18-360M	< 2	1.46	113	3.5	6	58.9	10.7	299	0.15	5.11	67.9	1430	1.3	1.0	46.2	1.79	< 0.1	14	22.5	0.7	5.12	< 0.1	10.2
KD18-361M	18	1.70	38.0	1.6	< 1	118	6.3	408	0.16	7.66	17.6	8220	2.1	0.1	< 0.5	1.09	11.7	28	6.93	0.7	5.36	3.2	7.6
KD18-362M	< 2	37.3	45.6	6.9	3	92.1	7.3	630	0.11	6.47	65.2	2500	1.9	0.2	35.8	1.07	16.0	11	9.59	1.4	5.18	1.7	9.2
KD18-363M	14	3.04	56.5	0.7	2	99.0	6.5	396	0.06	6.93	31.7	3720	1.6	0.4	24.1	0.89	14.1	12	6.76	0.7	5.43	1.6	9.3
PM18-054M	< 2	1.18	94.6	3.2	4	14.2	5.7	142	0.25	1.65	6.8	412	0.7	0.2	177	4.11	6.7	22	1.20	1.7	1.36	< 0.1	2.1
PM18-061M	41	1.01	108	0.8	20	23.8	49.6	113	0.22	11.5	40.2	757	1.5	0.2	15.1	0.84	23.0	72	4.71	0.5	4.66	0.4	12.8
PM18-064M	19	1.00	46.5	1.0	4	16.5	28.0	147	0.13	4.54	11.7	690	1.1	0.1	30.4	2.01	21.7	75	4.75	0.8	3.49	1.1	8.9
PM18-066M	< 2	1.25	59.0	1.2	6	17.5	31.8	195	0.14	5.61	10.8	583	1.4	0.1	36.8	2.29	26.4	44	4.31	0.5	3.66	1.1	8.0
PM18-067M	21	1.34	87.2	1.6	2	81.5	36.9	170	0.09	6.24	43.3	757	1.3	0.2	4.6	0.93	20.1	68	4.95	0.6	4.40	1.6	13.1
PM18-110M	< 2	0.63	50.1	4.3	2	15.9	105	159	0.10	4.15	22.1	378	1.0	< 0.1	33.5	4.23	42.9	422	3.08	0.9	6.19	0.6	8.3
PM18-115M	3	0.47	22.8	0.3	< 1	16.3	6.7	108	0.04	8.01	11.3	1500	1.4	0.2	< 0.5	2.58	17.3	18	5.35	1.6	7.21	1.7	13.2
PM18-117M	< 2	0.56	42.2	0.2	< 1	13.1	7.8	107	0.10	7.55	10.9	2010	1.3	0.2	< 0.5	1.91	18.3	14	4.41	0.7	6.47	1.7	12.2
PM18-118M	6	0.45	22.5	1.0	< 1	15.2	5.7	130	0.14	7.73	8.1	1860	1.4	0.2	< 0.5	1.65	< 0.1	9	4.26	0.6	7.18	2.0	13.9
PM18-130M	15	0.73	34.6	1.3	5	21.9	14.4	164	0.15	3.69	57.3	581	1.2	0.8	33.6	1.86	< 0.1	13	5.55	0.4	3.07	0.5	6.9
PM18-143M	30	1.11	68.8	3.2	4	78.8	23.2	518	0.34	5.89	89.6	637	1.1	1.5	4.9	2.12	26.6	22	3.50	1.0	5.77	0.5	12.7
PM18-146M	17	0.90	37.6	0.7	3	19.6	8.5	85.2	0.13	4.65	19.5	728	1.2	0.4	24.5	1.05	28.6	9	3.10	0.5	3.84	0.4	8.5
PM18-159M	73	0.74	70.8	0.6	2	26.0	12.8	142	0.33	7.32	28.5	1640	1.5	0.2	< 0.5	1.09	< 0.1	32	4.64	0.7	5.39	1.9	11.5
PM18-165M	2	10.8	79.7	14.9	5	352	15.6	940	0.95	7.32	115	3600	2.7	1.3	< 0.5	0.96	18.2	27	8.66	1.0	6.00	3.3	14.5
PM18-196M	< 2	0.82	21.0	0.1	< 1	27.0	5.8	104	0.13	7.99	14.7	1500	1.9	0.1	< 0.5	0.34	11.7	15	21.0	1.5	6.28	2.1	14.8
PM18-203M	7	0.89	31.5	2.3	4	36.5	9.7	297	0.18	5.34	22.8	865	1.7	0.1	70.1	3.84	< 0.1	9	2.31	0.9	2.41	0.4	0.9
AB18-115PC	379	0.81	44.7	0.5	< 1	24.0	19.5	207	0.18	7.36	250	1170	1.7	2.3	3.6	2.17	28.0	100	11.1	1.2	6.01	1.6	13.5
AB18-117PC	< 2	0.74	39.8	2.1	3	51.7	20.9	209	0.05	7.08	35.7	2000	1.5	0.5	< 0.5	1.35	25.8	64	7.54	1.3	6.32	1.5	14.6
AW18-366PC	< 2	7.84	50.1	4.1	4	238	9.2	508	0.96	7.15	124	4130	2.6	0.2	< 0.5	1.08	8.5	33	6.77	1.2	6.98	3.4	15.2
AW18-486PC	< 2	1.27	28.2	1.9	< 1	54.5	8.2	737	0.19	6.85	45.1	1980	2.3	0.2	< 0.5	0.47	11.9	52	5.09	1.2	14.5	1.2	7.3
EL18-001PC	24	0.58	20.4	0.2	4	21.9	14.5	102	0.07	5.86	5.6	569	2.7	1.4	< 0.5	1.48	8.6	92	2.38	2.8	7.13	2.0	17.7
KD18-230PC	9	0.72	54.1	0.3	2	15.4	9.0	112	0.48	7.07	27.5	1260	1.4	0.2	< 0.5	1.10	16.6	27	3.90	0.7	4.61	2.1	9.5
KD18-355PC	1350	21.5	130	13.3	4	1770	9.4	1380	4.27	6.39	457	5170	2.6	1.4	< 0.5	1.04	20.7	13	6.29	1.0	9.99	2.9	14.0
KD18-358PC	7	1.11	23.9	2.0	< 1	84.0	6.0	497	0.05	7.68	43.2	1990	2.3	0.2	< 0.5	0.46	10.9	14	8.36	0.9	5.51	0.3	5.1
KD18-359PC	< 2	1.85	59.8	1.3	< 1	148	9.0	181	2.78	6.52	32.2	2710	1.6	0.5	< 0.5	2.70	22.2	28	4.98	1.4	9.79	2.4	15.4
KD18-360PC	7	0.79	65.0	1.5	4	74.7	13.7	281	0.46	7.65	81.0	1970	1.5	1.3	8.8	0.70	31.2	50	13.0	1.2	8.12	2.4	15.5
KD18-361PC	2	1.21	23.5	1.1	1	59.4	5.0	356	0.14	7.60	12.5	9980	1.8	0.1	< 0.5	1.23	12.4	21	5.36	1.0	6.27	2.7	15.4
KD18-362PC	6	2.72	47.2	1.5	< 1	104	7.5	629	0.12	6.42	54.2	3990	2.0	0.5	3.9	0.64	17.6	28	8.85	0.4	10.2	1.1	16.0
KD18-363PC	5	2.17	45.2	0.8	< 1	84.5	6.8	421	0.05	7.16	21.9	3760	1.7	0.3	5.7	0.69	14.9	32	10.2	0.5	6.38	0.7	13.2
LT18-307PC	3	1.05	26.8	1.4	2	57.1	11.5	242	0.20	7.28	60.4	2790	1.8	0.2	< 0.5	1.52	11.0	24	5.31	1.3	4.89	1.1	10.4
LT18-310PC	27	0.89	20.1	1.1	< 1	36.6	11.4	225	0.14	7.67	80.9	2770	1.9	0.1	< 0.5	1.28	< 0.1	30	5.35	0.7	7.56	1.3	9.4
PM18-115PC	10	0.39	49.8	0.2	< 1	20.9	7.3	102	0.16	6.70	16.3	1470	1.6	0.2	< 0.5	3.01	20.8	24	4.28	0.7	11.2	0.4	12.6
PM18-054PC		0.65	63.1	0.6	< 1	20.9	12.6	152	0.08	7.48		793	1.5	1.5		0.41	27.2	30	2.58			1.7	16.7
PM18-061PC	33	0.66	82.7	0.5	3	16.8	39.0	89.0	0.10	6.74	32.3	851	1.3	0.1	0.9	0.81	19.2	153	3.54	0.6	4.36	1.7	14.3
PM18-064PC	< 2	0.49	33.3	0.3	< 1	14.5	33.4	112	0.05	5.85	13.5	1020	1.2	0.1	1.5	1.38	16.9	117	5.29	1.0	4.34	0.9	11.6

Analyte Symbol	Au	Ag	Cu	Cd	Mo	Pb	Ni	Zn	S	Al	As	Ba	Be	Bi	Br	Ca	Co	Cr	Cs	Eu	Fe	Hf	Ga
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	2	0.05	0.2	0.1	1	0.5	0.5	0.5	0.01	0.01	0.5	1	0.1	0.1	0.5	0.01	0.1	1	0.05	0.2	0.01	0.1	0.1
Method Code	INAA	MULT I NAA/T D- ICP/TD- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	TD-ICP	MULT TD- ICP/TD- ICP-MS	MULT I NAA/T D- ICP/TD- MS	MULT I NAA/T D- ICP/TD- MS	TD-ICP	TD-ICP	INAA	MULT I NAA/T D-ICP- MS	MULT TD- ICP/TD- ICP-MS	MULT TD- ICP/TD- ICP-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	MULT I NAA/T D-ICP- MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS
PM18-066PC	116	0.62	49.0	0.7	3	17.5	38.6	181	0.06	7.54	18.0	700	1.4	0.1	12.9	1.21	27.3	80	5.12	0.9	4.73	1.8	13.9
PM18-067PC	6	0.61	52.5	0.8	2	43.1	30.9	133	0.05	7.47	34.2	953	1.3	0.1	< 0.5	0.52	14.9	73	3.85	0.8	4.29	1.7	14.9
PM18-117PC	6	0.41	59.9	0.4	< 1	13.6	5.7	103	0.24	7.47	15.4	4260	1.5	0.2	< 0.5	1.79	20.0	28	3.65	1.2	10.5	1.0	8.2
PM18-118PC	6	0.35	35.0	0.3	< 1	18.6	6.5	110	0.42	7.46	15.8	2820	1.5	0.3	< 0.5	1.75	20.2	28	3.58	1.1	8.49	1.4	11.0
PM18-143PC		1.43	64.5	1.7	8	65.0	17.6	428	0.66	6.69		469	1.4	1.9		2.21	21.7	20	3.29			0.8	15.4
PM18-146PC		1.13	41.5	0.4	< 1	24.4	5.8	112	0.07	7.46		978	1.3	1.7		2.27	44.6	8	6.09			0.4	15.4
PM18-159PC	< 2	0.94	97.8	0.8	< 1	49.3	11.6	154	1.77	7.43	24.6	1980	1.5	0.5	< 0.5	1.20	26.5	39	3.91	1.1	6.84	2.4	16.8

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
BS L1N 0E	0.2	90	< 0.1	< 5	2.17	23.9	1.19	772	0.2	1.33	0.095	75.7	0.002	2.8	12.5	1.1	< 1	285	< 0.1	< 0.1	< 0.5	0.09	7.2
BS L1N 25E	0.2	80	< 0.1	< 5	1.96	16.1	0.88	440	0.2	1.35	0.115	71.6	0.003	2.1	12.3	1.2	< 1	277	< 0.1	< 0.1	< 0.5	0.13	8.6
BS L1N 50E	0.2	50	< 0.1	< 5	2.63	25.4	1.10	991	0.5	1.27	0.101	88.6	0.001	2.6	12.4	0.8	< 1	268	< 0.1	< 0.1	0.6	0.14	10.6
BS L1N 75E	0.3	40	< 0.1	< 5	2.68	25.6	1.10	1060	0.9	1.40	0.124	87.8	0.001	2.6	12.2	1.9	< 1	232	< 0.1	< 0.1	< 0.5	0.19	9.6
BS L1N 100E	0.4	10	< 0.1	< 5	2.73	25.8	1.17	975	1.6	1.43	0.137	87.0	0.001	2.4	12.6	1.6	1	263	< 0.1	< 0.1	0.7	0.34	8.1
BS L1N 125E	0.2	< 10	< 0.1	< 5	2.61	31.3	1.48	1950	8.6	0.93	0.260	103	0.001	2.1	13.2	1.7	2	239	0.2	< 0.1	< 0.5	0.49	5.2
BS L1N 150E	0.3	30	< 0.1	< 5	2.20	23.4	0.93	3070	0.4	1.44	0.157	88.7	0.002	2.5	14.6	0.9	< 1	362	< 0.1	< 0.1	< 0.5	0.32	3.1
BS L1N 175E	0.3	50	0.1	< 5	2.27	36.3	1.23	1930	5.4	1.10	0.126	88.8	0.004	3.5	11.8	1.7	3	239	< 0.1	< 0.1	< 0.5	0.24	9.7
BS L1N 200E	0.5	50	< 0.1	< 5	1.66	29.8	1.15	1410	4.7	1.17	0.098	22.7	0.003	2.9	13.1	1.2	< 1	253	0.2	< 0.1	< 0.5	0.49	8.4
BS L1N 225E	0.3	< 10	< 0.1	< 5	2.53	26.3	1.18	1850	1.0	1.19	0.175	93.0	0.002	2.0	12.3	1.3	1	245	< 0.1	< 0.1	< 0.5	0.33	7.0
BS L1N 250E	0.3	20	< 0.1	< 5	2.74	26.2	1.25	1480	0.2	0.99	0.131	108	0.003	2.3	12.6	0.7	< 1	173	< 0.1	< 0.1	< 0.5	0.19	6.9
BS L1N 275E	0.3	40	< 0.1	< 5	2.61	38.0	1.12	956	< 0.1	1.43	0.116	87.8	0.002	2.4	12.1	1.5	< 1	258	< 0.1	< 0.1	< 0.5	0.35	7.5
BS L1N 300E	0.2	30	< 0.1	< 5	2.65	26.6	1.04	634	0.2	1.21	0.092	91.3	< 0.001	2.2	11.8	1.2	< 1	238	< 0.1	< 0.1	< 0.5	0.14	8.8
BS L1N 325E	0.2	< 10	< 0.1	< 5	1.34	12.7	0.40	384	1.9	0.73	0.149	55.9	0.001	2.0	9.8	1.4	< 1	128	< 0.1	< 0.1	< 0.5	0.22	5.5
BS L1N 350E	0.3	< 10	< 0.1	< 5	2.69	28.4	1.02	954	0.5	1.26	0.143	95.2	< 0.001	2.7	11.8	1.4	< 1	242	< 0.1	< 0.1	< 0.5	0.26	7.8
BS L1N 375E	0.3	10	< 0.1	< 5	2.62	31.2	0.99	1460	0.1	1.26	0.128	97.5	0.003	2.5	11.6	1.2	< 1	235	< 0.1	< 0.1	< 0.5	0.19	8.9
BS L1N 400E	0.3	70	< 0.1	< 5	2.61	27.4	0.99	1050	0.3	1.16	0.133	96.5	0.001	2.7	11.6	1.0	< 1	229	< 0.1	< 0.1	< 0.5	0.18	9.1
BS L1N 425E	0.3	70	< 0.1	< 5	2.77	29.9	1.09	1360	< 0.1	2.19	0.111	93.9	0.002	3.1	18.4	0.8	< 1	261	< 0.1	< 0.1	< 0.5	0.21	7.3
BS L1N 450E	0.3	80	< 0.1	< 5	2.26	26.4	1.43	1130	1.5	1.69	0.120	39.6	0.002	2.8	16.5	0.9	< 1	166	< 0.1	< 0.1	< 0.5	0.86	6.1
BS L1N 475E	0.2	< 10	< 0.1	< 5	3.01	27.1	1.21	2950	9.4	1.03	0.213	109	< 0.001	2.3	14.3	1.1	1	134	0.3	< 0.1	< 0.5	0.47	4.6
BS L1N 500E	0.2	< 10	< 0.1	< 5	2.79	30.3	1.06	897	0.3	1.21	0.080	100	0.001	2.6	11.9	1.1	< 1	225	< 0.1	< 0.1	< 0.5	0.16	8.1
BS L2N 100E	0.4	< 10	< 0.1	< 5	2.53	23.6	0.90	676	1.8	1.36	0.137	84.2	< 0.001	2.2	11.4	1.3	2	207	< 0.1	< 0.1	< 0.5	0.35	7.8
BS L2N 125E	0.4	< 10	< 0.1	< 5	2.71	24.6	1.12	1040	1.3	1.59	0.141	86.6	0.001	2.3	13.3	1.2	1	227	< 0.1	< 0.1	< 0.5	0.33	7.4
BS L2N 150E	0.5	< 10	< 0.1	< 5	3.50	27.4	1.42	2700	1.6	0.97	0.165	124	< 0.001	2.4	13.8	1.8	2	110	< 0.1	< 0.1	< 0.5	0.45	7.9
BS L2N 175E	0.3	< 10	0.1	< 5	2.77	27.9	1.23	1630	13.8	1.46	0.271	87.6	0.001	2.0	13.4	1.7	3	298	0.2	< 0.1	< 0.5	0.66	8.8
BS L2N 200E	0.4	30	< 0.1	< 5	2.71	32.3	1.18	1560	0.4	1.30	0.160	90.1	0.001	2.6	12.6	1.4	1	284	< 0.1	< 0.1	< 0.5	0.25	8.7
BS L2N 225E	0.3	< 10	< 0.1	< 5	2.84	33.2	1.19	1200	0.2	1.22	0.129	93.0	< 0.001	2.0	12.9	1.1	< 1	277	< 0.1	< 0.1	< 0.5	0.26	8.8
BS L2N 250E	0.3	< 10	< 0.1	< 5	2.79	29.6	1.29	2590	< 0.1	1.46	0.122	87.1	0.002	2.7	14.0	1.4	1	347	< 0.1	< 0.1	< 0.5	0.32	8.2
BS L2N 275E	0.6	< 10	< 0.1	< 5	2.74	27.4	1.14	1220	1.9	1.30	0.117	91.6	0.001	3.4	13.4	1.1	1	529	< 0.1	< 0.1	< 0.5	0.30	7.4
BS L2N 300E	0.6	< 10	< 0.1	< 5	3.13	24.2	1.09	1380	7.7	1.74	0.130	92.9	< 0.001	2.8	13.8	1.1	< 1	280	0.2	< 0.1	< 0.5	0.44	7.7
BS L2N 325E	0.2	< 10	< 0.1	< 5	2.82	26.7	1.14	3310	21.5	1.19	0.224	101	0.001	2.4	12.0	1.5	2	229	0.9	< 0.1	< 0.5	0.47	5.7
BS L2N 350E	0.3	< 10	< 0.1	< 5	2.28	23.1	0.97	695	10.4	0.94	0.164	66.9	< 0.001	2.4	10.2	2.0	2	167	0.2	< 0.1	1.0	0.64	7.7
BS L2N 375E	0.4	< 10	< 0.1	< 5	2.61	26.4	1.01	550	0.7	1.17	0.118	84.8	0.002	2.0	11.6	1.4	< 1	212	< 0.1	< 0.1	< 0.5	0.32	8.8
BS L2N 400E	0.4	< 10	< 0.1	< 5	3.00	32.2	1.28	1230	0.5	1.94	0.094	106	0.001	3.6	21.0	1.4	< 1	215	< 0.1	< 0.1	0.9	0.21	7.8
BS L2N 425E	0.3	< 10	< 0.1	< 5	2.82	30.2	1.08	1120	0.6	1.18	0.109	99.0	< 0.001	2.5	11.9	1.1	< 1	225	< 0.1	< 0.1	< 0.5	0.21	8.4
BS L2N 450E	0.2	20	< 0.1	< 5	2.42	26.6	0.95	781	< 0.1	1.37	0.078	80.9	0.001	2.8	12.1	0.9	< 1	245	< 0.1	< 0.1	< 0.5	0.12	6.9
BS L2N 475E	0.3	< 10	< 0.1	< 5	1.95	20.0	0.72	392	0.3	1.02	0.121	72.1	0.002	2.5	12.4	1.2	< 1	176	< 0.1	< 0.1	< 0.5	0.25	7.4
BS L2N 500E	0.3	< 10	< 0.1	< 5	2.67	31.4	1.03	1320	0.2	1.20	0.110	97.8	< 0.001	3.3	11.9	0.9	< 1	234	< 0.1	< 0.1	< 0.5	0.19	7.8
BS L2N 525E	0.3	80	< 0.1	< 5	1.95	22.9	0.93	544	4.4	1.17	0.204	47.8	< 0.001	2.3	10.2	1.5	1	230	0.1	< 0.1	< 0.5	1.29	9.6
BS L2N 550E	0.6	< 10	< 0.1	< 5	2.92	28.9	1.15	1330	5.4	1.29	0.115	103	0.002	2.7	13.1	1.5	1	240	< 0.1	< 0.1	< 0.5	0.39	8.1

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
BS L2N 575E	0.5	< 10	< 0.1	< 5	2.48	25.6	0.99	986	7.1	1.16	0.138	82.9	0.001	3.0	11.7	1.9	1	226	0.1	< 0.1	< 0.5	0.44	8.7
BS L2N 600E	0.4	20	< 0.1	< 5	1.93	19.6	0.90	653	2.0	0.58	0.149	45.3	0.001	1.9	9.3	1.7	< 1	131	< 0.1	< 0.1	< 0.5	0.87	6.2
BS L3N 175E	0.4	< 10	< 0.1	< 5	2.54	27.0	1.12	702	1.4	2.00	0.177	88.6	0.002	1.9	17.1	1.9	2	222	< 0.1	< 0.1	< 0.5	0.69	6.4
BS L3N 200E	0.7	< 10	< 0.1	< 5	2.72	22.1	1.09	3380	3.9	1.48	0.126	87.7	0.001	3.7	12.7	1.3	2	> 1000	< 0.1	< 0.1	< 0.5	0.34	5.8
BS L3N 225E	0.3	30	< 0.1	< 5	2.51	26.3	1.03	652	0.1	1.42	0.135	92.5	0.002	3.0	16.0	1.1	< 1	310	< 0.1	< 0.1	< 0.5	0.20	8.1
BS L3N 250E	0.3	60	< 0.1	< 5	2.54	27.8	1.03	738	0.1	1.21	0.103	96.2	0.001	2.8	14.9	0.5	< 1	335	< 0.1	< 0.1	< 0.5	0.11	7.3
BS L3N 275E	0.3	40	< 0.1	< 5	2.64	33.0	1.16	1740	0.2	1.39	0.114	90.6	0.001	3.2	15.1	1.1	< 1	257	< 0.1	< 0.1	< 0.5	0.14	7.8
BS L3N 300E	0.6	110	< 0.1	< 5	2.99	29.8	1.11	1000	2.5	1.15	0.112	84.8	0.001	2.6	12.6	1.2	< 1	229	< 0.1	< 0.1	< 0.5	0.48	8.4
BS L3N 325E	0.4	< 10	< 0.1	< 5	2.51	29.9	1.03	698	4.3	1.38	0.130	84.7	0.001	3.1	11.5	1.8	2	226	< 0.1	< 0.1	< 0.5	0.33	8.0
BS L3N 350E	0.6	< 10	< 0.1	< 5	2.76	30.6	1.22	1570	8.6	1.27	0.132	93.7	0.002	2.7	12.9	1.5	2	230	0.2	< 0.1	< 0.5	0.46	6.9
BS L3N 375E	0.7	< 10	< 0.1	< 5	2.69	29.4	1.09	802	9.8	1.48	0.112	90.3	0.003	3.3	14.7	1.4	2	271	0.3	< 0.1	0.8	0.46	7.7
BS L3N 400E	0.5	< 10	< 0.1	< 5	2.68	27.4	0.97	1430	12.4	1.75	0.128	90.0	0.001	2.9	12.9	1.4	2	230	0.3	< 0.1	< 0.5	0.43	10.5
BS L3N 425E	0.3	< 10	< 0.1	< 5	2.97	30.3	1.15	1220	0.2	1.41	0.103	98.3	< 0.001	2.8	13.1	1.1	< 1	275	< 0.1	< 0.1	< 0.5	0.18	8.5
BS L3N 450E	0.3	60	< 0.1	< 5	2.57	33.5	1.15	1030	< 0.1	1.31	0.103	86.2	< 0.001	3.2	12.9	0.8	< 1	254	< 0.1	< 0.1	< 0.5	0.21	7.5
BS L3N 475E	0.3	< 10	< 0.1	< 5	2.95	30.0	1.05	931	0.2	1.41	0.108	102	< 0.001	2.3	11.5	1.2	< 1	251	< 0.1	< 0.1	< 0.5	0.15	9.3
BS L3N 500E	0.3	50	< 0.1	< 5	2.73	30.6	1.07	711	0.3	1.63	0.111	90.9	0.002	3.2	14.1	1.6	< 1	231	< 0.1	< 0.1	< 0.5	0.12	9.5
BS L3N 525E	0.2	70	< 0.1	< 5	2.29	31.9	1.07	997	0.1	1.12	0.092	85.3	0.001	2.9	11.9	0.9	< 1	217	< 0.1	< 0.1	< 0.5	0.10	8.3
BS L3N 550E	0.3	90	< 0.1	< 5	2.04	31.3	1.11	1440	1.4	1.42	0.108	78.2	< 0.001	3.0	14.0	1.0	< 1	221	< 0.1	< 0.1	0.8	0.29	9.1
BS L3N 575E	0.4	< 10	< 0.1	< 5	2.61	28.0	1.19	692	1.3	1.52	0.098	87.3	< 0.001	3.1	13.4	1.2	< 1	277	< 0.1	< 0.1	< 0.5	0.30	7.2
BS L3N 600E	0.6	< 10	< 0.1	< 5	2.72	29.9	1.08	1020	4.7	1.31	0.132	94.9	< 0.001	2.9	13.4	1.6	1	230	< 0.1	< 0.1	< 0.5	0.41	8.6
BS L3N 625E	0.6	< 10	< 0.1	< 5	2.21	27.6	0.85	803	3.1	0.94	0.113	77.4	< 0.001	3.4	10.7	1.0	< 1	191	< 0.1	< 0.1	< 0.5	0.41	8.3
BS L3N 650E	0.4	< 10	< 0.1	< 5	2.69	22.6	0.93	877	32.7	1.58	0.207	89.9	0.003	2.5	11.1	1.5	5	213	0.8	< 0.1	0.6	0.52	8.6
BS L3N 675E	0.4	20	< 0.1	< 5	2.70	32.0	1.07	701	0.5	1.18	0.102	96.3	0.002	2.8	12.4	1.1	< 1	227	< 0.1	< 0.1	< 0.5	0.21	9.5
KD18-211S	0.6	1250	0.1	< 5	2.25	19.2	1.66	2810	0.8	0.95	0.168	95.4	0.002	1.9	13.6	2.5	< 1	599	< 0.1	0.2	< 0.5	0.26	16.2
PM18-187S	0.3	100	0.3	< 5	3.15	21.3	0.51	9940	8.0	1.03	0.085	130	< 0.001	22.1	22.5	2.3	1	214	0.3	0.3	< 0.5	0.35	8.9
PM18-192S	0.3	530	0.1	< 5	2.28	13.5	0.19	416	4.2	0.60	0.086	70.7	0.002	39.2	11.5	5.0	< 1	78.4	< 0.1	< 0.1	< 0.5	0.25	5.7
PM18-197S	0.5	120	< 0.1	< 5	4.55	50.1	1.48	724	0.3	0.66	0.176	216	0.001	5.0	13.9	1.2	1	187	< 0.1	< 0.1	< 0.5	0.34	6.1
PM18-205S	0.5	170	0.2	< 5	3.39	28.3	1.24	272	12.5	0.29	0.084	117	0.005	6.9	30.9	7.0	4	41.8	0.6	23.6	0.6	0.41	7.7
PM18-209S	0.5	< 10	0.1	< 5	2.41	26.6	0.62	702	24.8	1.83	0.169	85.2	0.002	2.5	20.9	2.0	3	139	0.8	0.2	< 0.5	0.51	12.6
PM18-214S	0.3	< 10	< 0.1	< 5	5.16	14.9	1.01	2280	4.9	0.92	0.161	176	< 0.001	3.6	43.3	0.9	< 1	75.0	0.2	< 0.1	< 0.5	0.54	4.8
AB18-090T	0.2	< 10	0.1	< 5	1.30	25.6	2.39	2900	7.2	0.49	0.131	40.6	< 0.001	21.3	12.4	6.2	1	85.8	< 0.1	0.4	< 0.5	0.14	< 0.1
AB18-115T	0.2	< 10	< 0.1	< 5	1.53	40.1	0.90	4300	6.8	1.65	0.126	55.9	< 0.001	3.1	17.6	1.4	1	223	0.2	< 0.1	< 0.5	0.30	5.5
AB18-116T	0.4	< 10	< 0.1	< 5	2.57	41.3	1.01	1940	0.3	2.17	0.093	90.7	< 0.001	5.1	23.5	0.8	< 1	149	< 0.1	< 0.1	< 0.5	0.21	6.3
AB18-117T	0.3	160	< 0.1	< 5	0.79	23.1	0.59	1950	2.6	1.38	0.175	25.3	< 0.001	2.3	13.8	1.1	< 1	147	< 0.1	< 0.1	< 0.5	0.26	3.3
AW18-366T	0.5	60	< 0.1	< 5	5.14	31.2	0.51	1430	10.1	1.08	0.111	184	0.002	11.9	7.0	1.1	1	236	0.3	< 0.1	< 0.5	0.39	12.3
AW18-475T	0.5	50	< 0.1	< 5	1.97	30.6	1.25	1670	0.6	0.85	0.131	67.2	0.002	4.6	11.0	3.2	< 1	230	< 0.1	< 0.1	< 0.5	0.27	3.3
AW18-486T	0.3	60	< 0.1	< 5	3.81	26.9	0.69	2830	< 0.1	2.07	0.117	130	0.003	6.9	17.4	1.9	< 1	165	< 0.1	< 0.1	0.5	0.14	8.5
KD18-089T	0.4	40	< 0.1	< 5	2.78	35.5	1.24	1570	0.6	1.49	0.103	97.5	0.001	2.9	12.9	1.3	< 1	242	< 0.1	< 0.1	< 0.5	0.16	5.7
KD18-090T	0.2	30	< 0.1	< 5	2.00	25.3	0.81	3470	6.8	1.76	0.139	68.1	0.003	12.1	22.6	4.1	1	160	0.3	0.2	< 0.5	0.34	4.6
KD18-091T	0.3	< 10	< 0.1	< 5	1.82	28.9	0.69	2850	6.0	1.48	0.141	64.3	0.006	6.0	18.8	3.2	< 1	176	0.2	< 0.1	0.7	0.34	4.0

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
KD18-230T	0.4	20	< 0.1	< 5	4.55	26.5	1.06	1590	6.9	1.73	0.113	128	0.001	5.7	22.4	0.8	< 1	135	0.3	< 0.1	< 0.5	0.42	7.8
KD18-355T	0.4	20	< 0.1	< 5	5.52	24.0	0.53	1820	12.0	2.02	0.108	185	0.002	13.8	16.1	1.3	1	209	0.6	< 0.1	< 0.5	0.41	12.6
KD18-358T	0.5	< 10	< 0.1	< 5	4.94	32.0	0.64	3660	0.9	0.72	0.096	194	0.002	6.8	11.0	1.9	1	135	< 0.1	< 0.1	< 0.5	0.28	9.0
KD18-359T	0.5	30	< 0.1	< 5	3.02	33.8	1.29	1100	5.5	1.91	0.101	88.2	0.001	2.2	12.7	1.1	1	534	< 0.1	< 0.1	< 0.5	0.46	5.7
KD18-360T	0.3	60	< 0.1	< 5	2.16	37.4	0.80	4770	2.8	0.83	0.134	78.5	0.005	5.6	11.5	3.6	1	142	< 0.1	0.1	< 0.5	0.30	5.5
KD18-361T	0.3	40	< 0.1	< 5	4.02	19.9	0.89	1470	0.3	2.72	0.087	117	< 0.001	6.8	18.2	0.9	< 1	344	< 0.1	< 0.1	< 0.5	0.17	11.5
KD18-362T	0.4	150	< 0.1	< 5	3.11	33.1	0.69	4500	0.4	0.64	0.130	108	0.002	8.4	10.9	2.5	< 1	179	< 0.1	< 0.1	< 0.5	0.26	6.6
KD18-363T	0.3	10	< 0.1	< 5	4.34	24.7	0.61	6030	0.5	0.77	0.112	147	0.001	7.8	11.6	2.2	< 1	220	< 0.1	< 0.1	< 0.5	0.29	6.4
LT18-270T	0.3	< 10	< 0.1	< 5	1.34	34.6	1.96	3160	8.2	2.38	0.193	37.2	0.005	1.3	35.5	2.5	1	353	0.3	0.1	< 0.5	0.34	2.9
LT18-276T	0.3	< 10	< 0.1	< 5	2.07	18.8	1.24	2830	12.1	1.08	0.143	44.7	0.001	0.9	14.3	3.1	1	259	0.6	< 0.1	< 0.5	0.31	2.7
LT18-308T	0.7	20	< 0.1	< 5	5.18	25.2	0.67	1480	0.9	1.25	0.097	142	0.003	5.0	10.3	0.8	< 1	315	< 0.1	< 0.1	< 0.5	0.31	6.2
LT18-310T	0.5	40	< 0.1	< 5	5.00	24.7	0.68	1420	0.2	1.45	0.100	143	0.002	4.6	11.4	1.0	< 1	317	< 0.1	< 0.1	0.8	0.26	7.3
PM18-054T	0.2	50	< 0.1	< 5	0.85	14.0	0.41	2720	4.7	1.36	0.149	24.5	0.008	2.4	10.1	7.8	< 1	155	< 0.1	< 0.1	< 0.5	0.18	2.9
PM18-056T	0.5	60	< 0.1	< 5	5.54	16.0	0.23	348	5.2	0.69	0.099	163	< 0.001	15.1	5.6	0.5	8	99.8	< 0.1	< 0.1	< 0.5	0.32	18.6
PM18-058T	0.5	170	< 0.1	< 5	5.18	39.3	0.14	1430	4.9	0.53	0.061	145	0.001	30.0	8.0	0.9	2	83.8	< 0.1	< 0.1	< 0.5	0.22	13.0
PM18-061T	0.5	80	< 0.1	< 5	2.19	28.0	1.27	1230	0.4	1.15	0.128	62.4	0.006	6.5	12.3	4.0	< 1	167	< 0.1	< 0.1	< 0.5	0.26	2.8
PM18-064T	0.4	120	< 0.1	< 5	1.93	27.1	0.94	3880	1.6	0.99	0.130	59.9	0.011	2.6	11.4	3.0	< 1	186	< 0.1	< 0.1	< 0.5	0.30	3.6
PM18-066T	0.4	30	< 0.1	< 5	2.14	36.1	0.90	2020	< 0.1	0.92	0.086	77.1	0.009	3.0	11.4	1.9	< 1	172	< 0.1	< 0.1	< 0.5	0.19	5.5
PM18-067T	0.4	< 10	< 0.1	< 5	2.23	28.5	1.15	1720	6.8	1.21	0.125	66.3	0.005	5.0	11.8	2.4	< 1	167	0.2	< 0.1	< 0.5	0.36	3.5
PM18-091T	0.5	< 10	< 0.1	< 5	0.84	22.8	2.42	1090	17.1	1.42	0.155	26.2	< 0.001	11.2	33.3	1.3	1	191	0.8	< 0.1	< 0.5	0.39	2.7
PM18-115T	0.6	< 10	< 0.1	< 5	2.86	40.3	1.79	1450	1.0	2.13	0.127	83.6	< 0.001	1.9	19.0	0.8	< 1	530	< 0.1	< 0.1	< 0.5	0.38	4.3
PM18-117T	0.4	10	< 0.1	< 5	3.19	38.3	1.71	1290	0.2	2.16	0.116	90.0	< 0.001	1.5	17.6	0.7	< 1	404	< 0.1	< 0.1	< 0.5	0.21	5.1
PM18-118T	0.4	< 10	< 0.1	< 5	3.22	41.3	1.67	1450	0.1	2.20	0.126	95.8	< 0.001	1.2	17.6	0.5	< 1	384	< 0.1	< 0.1	< 0.5	0.20	6.8
PM18-143T	0.3	30	0.4	< 5	1.25	27.7	1.82	1480	1.0	2.23	0.121	39.1	0.002	2.2	17.5	3.3	1	236	< 0.1	< 0.1	< 0.5	0.24	3.3
PM18-146T	0.4	20	< 0.1	< 5	0.98	20.8	1.34	2480	< 0.1	2.37	0.114	35.5	0.001	3.7	17.4	1.4	< 1	211	< 0.1	< 0.1	< 0.5	0.52	3.7
PM18-159T	0.4	60	< 0.1	< 5	3.36	31.2	0.98	1470	6.2	1.36	0.109	108	< 0.001	6.0	17.4	0.8	< 1	139	0.2	< 0.1	< 0.5	0.43	5.0
PM18-196T	0.5	110	< 0.1	< 5	2.87	47.4	1.56	1030	0.5	0.64	0.159	127	< 0.001	4.3	14.1	1.1	< 1	181	< 0.1	< 0.1	< 0.5	0.21	7.0
PM18-199T	0.6	< 10	< 0.1	< 5	2.98	120	3.55	2810	1.6	0.71	0.227	84.4	0.001	8.3	24.3	2.3	1	76.2	< 0.1	< 0.1	0.6	0.50	4.3
PM18-203T	0.2	< 10	< 0.1	< 5	0.57	18.3	0.30	6770	5.5	0.42	0.131	17.7	0.004	1.8	7.9	2.5	< 1	196	0.2	< 0.1	< 0.5	0.15	2.7
AB18-115M	0.2	< 10	< 0.1	< 5	1.03	22.1	0.46	6330	6.3	0.55	0.166	36.2	< 0.001	2.1	6.4	1.2	< 1	151	0.3	< 0.1	< 0.5	0.21	2.8
AB18-117M	0.2	80	< 0.1	< 5	0.70	13.7	0.35	2410	4.6	0.47	0.228	23.6	0.001	1.8	5.1	1.3	< 1	111	< 0.1	< 0.1	< 0.5	0.21	2.2
AW18-366M	0.7	70	< 0.1	< 5	4.79	27.2	0.47	1520	9.9	1.33	0.131	175	0.002	15.9	8.4	1.1	1	243	0.3	< 0.1	< 0.5	0.46	13.9
AW18-486M	0.4	50	< 0.1	< 5	4.72	22.9	0.64	3170	0.2	0.95	0.110	150	0.002	5.6	9.3	2.4	< 1	162	< 0.1	< 0.1	< 0.5	0.26	8.5
KD18-230M	0.6	50	< 0.1	< 5	4.21	30.3	1.09	1950	0.7	0.99	0.121	122	0.001	6.0	13.1	0.4	< 1	136	< 0.1	< 0.1	< 0.5	0.35	7.2
KD18-355M	0.4	140	< 0.1	< 5	4.51	23.3	0.43	1380	12.3	1.16	0.126	153	0.001	17.6	8.1	1.5	1	197	0.2	< 0.1	< 0.5	0.52	13.0
KD18-358M	0.6	80	< 0.1	< 5	3.66	29.7	0.58	2510	0.8	0.67	0.098	146	0.001	5.2	8.9	2.8	< 1	160	< 0.1	< 0.1	< 0.5	0.24	5.1
KD18-359M	0.6	80	< 0.1	< 5	2.76	30.3	1.06	1090	7.3	1.78	0.116	82.2	0.001	2.3	13.8	1.3	1	568	0.1	< 0.1	< 0.5	0.57	8.1
KD18-360M	0.2	120	< 0.1	< 5	2.17	33.4	0.68	5180	1.1	0.82	0.151	88.4	0.003	5.7	11.5	2.0	1	156	< 0.1	< 0.1	< 0.5	0.30	7.3
KD18-361M	0.6	< 10	< 0.1	< 5	4.49	20.0	0.93	2280	4.6	1.33	0.123	136	< 0.001	6.6	11.1	0.6	1	390	< 0.1	< 0.1	< 0.5	0.46	11.3
KD18-362M	0.3	30	< 0.1	< 5	4.41	16.2	0.69	4160	1.9	0.99	0.146	154	< 0.001	7.9	15.9	2.2	< 1	168	< 0.1	< 0.1	< 0.5	0.40	5.5

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
KD18-363M	0.4	40	< 0.1	< 5	5.06	20.3	0.64	3630	0.6	0.56	0.128	170	< 0.001	7.1	13.1	1.8	< 1	202	< 0.1	< 0.1	< 0.5	0.31	7.9
PM18-054M	0.2	130	< 0.1	< 5	0.32	5.7	0.20	2590	2.5	0.36	0.158	10.4	0.008	2.1	5.9	< 0.1	< 1	174	< 0.1	< 0.1	< 0.5	0.07	1.3
PM18-061M	0.5	50	< 0.1	< 5	2.33	27.7	1.19	1360	0.5	1.30	0.189	58.8	0.010	5.6	13.2	4.3	< 1	160	< 0.1	< 0.1	< 0.5	0.70	2.9
PM18-064M	0.2	80	< 0.1	< 5	1.43	20.3	0.72	5760	4.4	1.09	0.147	47.3	0.006	1.5	14.2	3.5	< 1	187	< 0.1	< 0.1	< 0.5	0.26	2.7
PM18-066M	0.3	170	< 0.1	< 5	1.15	20.8	0.59	3940	5.9	0.68	0.154	38.0	0.012	1.9	10.7	5.3	< 1	174	0.2	< 0.1	< 0.5	0.23	2.5
PM18-067M	0.5	70	< 0.1	< 5	2.14	27.8	1.15	1830	0.5	1.27	0.133	65.0	0.004	4.9	12.0	3.3	< 1	167	< 0.1	< 0.1	< 0.5	0.23	3.3
PM18-110M	0.3	20	< 0.1	< 5	0.76	16.0	4.02	3080	3.5	1.39	0.126	19.3	0.002	0.5	35.0	3.0	< 1	294	< 0.1	< 0.1	< 0.5	0.24	1.6
PM18-115M	0.5	10	< 0.1	< 5	2.83	39.6	1.78	1380	1.0	2.35	0.129	84.3	< 0.001	1.6	20.7	0.7	< 1	557	< 0.1	< 0.1	< 0.5	0.33	5.2
PM18-117M	0.7	< 10	< 0.1	< 5	3.10	37.1	1.68	1310	2.0	2.30	0.123	85.7	0.001	1.4	17.5	0.6	< 1	441	< 0.1	< 0.1	< 0.5	0.41	5.8
PM18-118M	0.7	< 10	< 0.1	< 5	3.13	35.7	1.57	1420	2.6	2.33	0.124	87.1	< 0.001	1.5	17.3	0.5	< 1	398	< 0.1	< 0.1	< 0.5	0.36	6.2
PM18-130M	0.2	60	< 0.1	< 5	0.81	18.3	0.37	5290	4.5	0.42	0.161	31.1	< 0.001	1.5	5.1	1.0	1	141	< 0.1	< 0.1	< 0.5	0.16	2.2
PM18-143M	0.4	10	0.2	< 5	1.14	21.3	1.59	1320	2.4	1.96	0.135	35.0	0.002	2.5	15.9	2.9	< 1	224	< 0.1	< 0.1	< 0.5	0.31	8.0
PM18-146M	0.3	170	< 0.1	< 5	0.60	10.6	0.72	1990	2.7	1.02	0.134	21.4	< 0.001	1.6	8.0	1.8	2	131	< 0.1	< 0.1	< 0.5	0.25	2.0
PM18-159M	0.6	30	< 0.1	< 5	4.19	29.8	1.13	2040	1.1	1.05	0.126	118	< 0.001	5.3	13.1	0.7	< 1	148	< 0.1	< 0.1	< 0.5	0.38	6.2
PM18-165M	0.4	160	< 0.1	< 5	4.58	26.7	0.49	3740	11.7	1.29	0.141	162	0.001	18.1	8.9	1.8	2	231	0.2	< 0.1	< 0.5	0.50	14.7
PM18-196M	0.5	90	< 0.1	< 5	2.89	44.8	1.56	1000	0.6	0.70	0.175	132	< 0.001	3.6	16.7	0.8	< 1	151	< 0.1	< 0.1	1.1	0.42	7.7
PM18-203M	0.2	130	< 0.1	< 5	0.33	11.5	0.17	6160	3.4	0.22	0.132	11.6	0.001	1.6	4.9	3.4	< 1	199	0.1	< 0.1	< 0.5	0.09	2.0
AB18-115PC	0.6	20	< 0.1	< 5	2.37	41.8	1.29	1820	1.4	2.02	0.065	83.9	< 0.001	4.7	20.2	1.1	< 1	311	< 0.1	< 0.1	< 0.5	0.32	9.2
AB18-117PC	0.6	< 10	< 0.1	< 5	2.42	29.3	1.21	7100	2.9	2.52	0.067	77.7	0.001	6.7	19.4	0.6	< 1	281	< 0.1	< 0.1	< 0.5	0.36	7.2
AW18-366PC	0.4	10	< 0.1	< 5	4.99	22.7	0.51	1660	10.3	1.57	0.106	178	0.002	16.2	10.9	0.9	1	225	0.4	< 0.1	< 0.5	0.39	14.5
AW18-486PC	0.6	20	< 0.1	< 5	5.30	22.8	0.71	1550	0.2	1.78	0.104	179	0.001	5.7	13.8	0.7	< 1	163	< 0.1	< 0.1	< 0.5	0.27	12.1
EL18-001PC	0.7	30	< 0.1	< 5	2.33	17.1	0.49	1230	0.5	2.97	0.117	79.6	< 0.001	0.2	7.3	1.1	1	257	< 0.1	< 0.1	< 0.5	0.24	95.2
KD18-230PC	0.6	40	< 0.1	< 5	4.39	29.2	0.98	1230	5.1	1.31	0.094	124	< 0.001	4.3	16.5	0.7	1	139	< 0.1	< 0.1	< 0.5	0.40	8.0
KD18-355PC	0.3	250	< 0.1	< 5	4.10	22.0	0.54	1820	6.5	1.23	0.097	113	0.002	28.1	12.8	2.4	1	101	< 0.1	< 0.1	< 0.5	0.54	11.4
KD18-358PC	0.4	90	< 0.1	< 5	3.95	35.7	0.68	1500	< 0.1	1.22	0.073	162	0.001	5.5	14.3	0.7	< 1	117	< 0.1	< 0.1	< 0.5	0.11	10.8
KD18-359PC	0.5	90	< 0.1	< 5	2.36	33.0	1.21	1070	2.0	2.46	0.099	72.4	0.003	2.7	20.9	1.7	< 1	485	< 0.1	< 0.1	< 0.5	0.39	8.0
KD18-360PC	0.8	10	< 0.1	< 5	3.27	38.4	1.10	2340	7.2	1.96	0.077	111	< 0.001	6.2	19.0	1.3	2	168	< 0.1	< 0.1	< 0.5	0.52	8.8
KD18-361PC	0.6	< 10	< 0.1	< 5	4.43	16.0	0.86	1430	0.8	1.58	0.094	132	< 0.001	7.3	11.8	0.8	< 1	444	< 0.1	< 0.1	< 0.5	0.38	10.9
KD18-362PC	0.5	30	< 0.1	< 5	2.19	15.1	0.67	2810	0.3	0.99	0.084	79.2	0.002	12.2	14.4	0.6	< 1	216	< 0.1	< 0.1	< 0.5	0.40	6.3
KD18-363PC	0.4	60	< 0.1	< 5	4.82	21.0	0.66	3350	< 0.1	1.19	0.067	154	0.001	7.8	14.4	0.5	< 1	241	< 0.1	< 0.1	< 0.5	0.23	6.2
LT18-307PC	0.4	170	< 0.1	< 5	4.29	22.5	0.68	1320	< 0.1	1.36	0.097	129	0.002	4.9	11.6	0.7	< 1	349	< 0.1	< 0.1	< 0.5	0.49	7.0
LT18-310PC	0.4	90	< 0.1	< 5	4.87	23.8	0.69	1290	< 0.1	1.31	0.093	146	0.001	6.0	12.1	0.4	< 1	321	< 0.1	< 0.1	< 0.5	0.16	7.9
PM18-115PC	0.4	30	< 0.1	< 5	2.36	33.6	1.73	1260	< 0.1	2.15	0.107	71.4	< 0.001	1.8	22.3	0.6	< 1	583	< 0.1	< 0.1	< 0.5	0.19	5.2
PM18-054PC	0.3	20	< 0.1		1.76	29.3	1.04	1090	< 0.1		0.068	50.0	0.001			1.1	< 1	127	< 0.1	< 0.1		0.12	8.9
PM18-061PC	0.3	60	< 0.1	< 5	1.63	26.6	1.26	806	0.5	1.67	0.108	53.6	0.007	4.2	14.3	1.7	< 1	168	< 0.1	< 0.1	< 0.5	0.30	2.7
PM18-064PC	0.4	30	< 0.1	< 5	2.37	26.1	1.46	1790	< 0.1	1.73	0.070	73.0	0.004	1.9	18.0	0.9	< 1	198	< 0.1	< 0.1	< 0.5	0.20	5.1
PM18-066PC	0.6	< 10	< 0.1	< 5	2.14	25.7	1.22	1970	1.1	1.37	0.113	65.1	0.008	2.2	15.3	1.4	< 1	164	< 0.1	< 0.1	< 0.5	0.33	3.9
PM18-067PC	0.6	< 10	< 0.1	< 5	2.47	25.0	1.27	938	0.7	1.58	0.107	72.5	0.004	4.3	12.1	1.3	< 1	174	< 0.1	< 0.1	< 0.5	0.30	3.8
PM18-117PC	0.5	< 10	< 0.1	< 5	2.96	34.8	1.70	1240	0.2	2.02	0.115	90.3	< 0.001	1.8	20.0	0.4	< 1	487	< 0.1	< 0.1	< 0.5	0.27	5.2
PM18-118PC	0.5	30	< 0.1	< 5	2.85	35.4	1.59	1270	0.3	2.73	0.115	85.5	< 0.001	1.8	20.0	0.7	1	444	< 0.1	< 0.1	< 0.5	0.33	10.3

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Ge	Hg	In	Ir	K	Li	Mg	Mn	Nb	Na	P	Rb	Re	Sb	Sc	Se	Sn	Sr	Ta	Te	Tb	Ti	Th
Unit Symbol	ppm	ppb	ppm	ppb	%	ppm	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
Lower Limit	0.1	10	0.1	5	0.01	0.5	0.01	1	0.1	0.01	0.001	0.2	0.001	0.1	0.1	0.1	1	0.2	0.1	0.1	0.5	0.01	0.1
Method Code	TD-MS	TD-MS	TD-MS	INAA	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS	TD-MS	INAA	INAA	MULT I NAA/T D-ICP- MS	TD-MS	TD-MS	MULT I NAA/T D-ICP- MS	TD-MS	INAA	TD-ICP	MULT I NAA/T D-ICP- MS
PM18-143PC	0.3	10	0.2		1.53	23.7	1.85	1020	1.8		0.092	49.7	0.002			2.6	1	295	< 0.1	0.1		0.39	4.1
PM18-146PC	0.3	50	< 0.1		1.27	20.5	1.74	3050	< 0.1		0.051	45.3	0.003			0.9	< 1	263	< 0.1	< 0.1		0.12	4.9
PM18-159PC	0.5	70	< 0.1	< 5	4.20	26.3	1.00	1270	6.2	1.48	0.111	123	0.002	5.6	16.3	1.2	1	142	0.1	0.1	< 0.5	0.50	6.4

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
BS L1N 0E	0.74	67	3.3	< 1	18.5	6	23.4	27.1	44.8	50	5.3	20.4	25	4.2	4.4	1.06	4.1	3.6	0.6	0.7	2.1	0.3	2.0
BS L1N 25E	0.73	80	5.5	< 1	15.5	14	23.0	22.4	44.8	48	5.3	19.8	14	4.0	3.7	0.99	3.7	3.1	0.5	0.6	1.8	0.3	1.7
BS L1N 50E	0.78	77	3.4	< 1	21.5	26	23.1	26.2	50.9	54	5.8	22.8	25	4.8	5.1	1.13	4.6	4.3	0.7	0.8	2.4	0.4	2.2
BS L1N 75E	0.75	104	4.0	< 1	27.9	97	29.5	34.8	67.7	79	7.5	29.8	40	6.4	6.8	1.32	6.2	5.7	0.9	1.0	2.9	0.5	2.8
BS L1N 100E	0.70	132	3.5	< 1	25.5	151	28.9	33.0	60.9	69	7.1	28.1	33	5.7	6.4	1.35	5.6	4.8	0.8	0.9	2.6	0.4	2.5
BS L1N 125E	0.75	157	2.4	< 1	29.1	97	31.6	39.4	65.1	78	7.1	28.1	40	6.0	6.7	1.86	6.0	5.2	0.8	1.0	2.8	0.4	2.5
BS L1N 150E	0.65	138	1.9	< 1	16.4	30	20.6	23.4	39.6	46	4.6	18.4	39	3.7	4.2	1.06	3.5	2.9	0.5	0.6	1.6	0.2	1.5
BS L1N 175E	0.86	129	4.1	< 1	43.0	211	45.0	45.3	97.2	96	11.1	46.4	71	10.1	9.2	2.94	9.8	8.3	1.4	1.6	4.5	0.7	4.3
BS L1N 200E	0.69	159	2.6	< 1	13.1	111	9.0	24.4	25.8	60	2.6	11.0	21	2.7	4.8	0.67	2.6	2.7	0.4	0.5	1.7	0.3	1.7
BS L1N 225E	0.76	151	3.4	< 1	25.4	120	27.9	31.0	60.2	64	6.8	27.1	31	5.7	5.7	1.41	5.4	4.7	0.8	0.9	2.6	0.4	2.3
BS L1N 250E	0.94	112	2.8	< 1	21.1	18	28.0	32.0	59.7	66	6.3	24.6	27	4.9	5.4	1.46	4.7	3.9	0.6	0.7	2.2	0.3	2.2
BS L1N 275E	0.71	146	7.2	< 1	32.9	41	33.2	37.7	57.3	65	7.6	30.1	46	6.4	6.5	1.64	6.3	5.4	0.9	1.1	3.1	0.5	2.7
BS L1N 300E	0.76	84	3.3	< 1	20.3	63	24.8	28.4	49.4	61	5.8	22.3	25	4.6	4.8	1.06	4.2	3.8	0.6	0.7	2.2	0.3	2.1
BS L1N 325E	0.54	96	2.5	< 1	10.6	61	15.5	17.4	30.3	35	3.5	13.4	< 5	2.7	2.7	0.67	2.4	2.1	0.3	0.4	1.1	0.2	1.1
BS L1N 350E	0.80	116	3.6	< 1	22.2	129	24.0	25.5	55.5	60	6.3	24.7	10	5.4	5.1	1.22	5.0	4.3	0.7	0.9	2.4	0.4	2.3
BS L1N 375E	0.77	98	7.3	< 1	27.6	65	28.3	31.0	63.1	65	6.8	27.3	29	5.8	5.7	1.39	5.5	4.9	0.8	0.9	2.7	0.4	2.5
BS L1N 400E	0.81	102	3.7	< 1	19.9	11	23.4	25.7	47.8	49	5.4	21.4	27	4.4	4.7	1.10	4.3	3.7	0.6	0.7	2.0	0.3	2.0
BS L1N 425E	0.89	87	3.4	< 1	21.1	7	23.7	25.4	52.3	57	5.7	22.9	17	5.0	4.7	1.21	4.8	4.2	0.7	0.8	2.3	0.4	2.2
BS L1N 450E	0.71	208	2.3	< 1	11.5	139	10.7	22.2	24.4	66	2.9	11.7	19	2.6	3.9	0.69	2.6	2.5	0.4	0.5	1.5	0.2	1.4
BS L1N 475E	0.83	162	2.3	< 1	14.5	98	18.3	20.9	40.4	49	4.2	16.5	29	3.4	3.5	0.89	3.1	2.8	0.5	0.5	1.6	0.3	1.5
BS L1N 500E	0.82	81	3.2	< 1	19.6	82	23.8	26.3	53.9	60	5.6	21.6	13	4.6	4.9	1.12	4.3	3.8	0.6	0.7	2.1	0.3	2.1
BS L2N 100E	0.80	127	3.1	< 1	19.9	176	26.6	29.6	53.2	54	6.2	24.0	27	4.8	5.1	1.12	4.7	3.9	0.7	0.8	2.2	0.3	2.0
BS L2N 125E	0.69	127	2.8	< 1	23.5	178	28.2	30.1	56.4	59	6.8	26.6	21	5.6	5.8	1.29	5.2	4.6	0.8	0.9	2.5	0.4	2.3
BS L2N 150E	1.01	182	2.2	< 1	30.9	119	32.6	35.9	68.1	69	8.3	34.2	33	7.7	8.0	2.48	7.9	6.2	1.1	1.2	3.2	0.5	2.8
BS L2N 175E	0.70	193	3.0	< 1	44.5	189	39.5	43.8	83.6	91	10.8	44.5	58	9.6	10.6	2.18	9.5	8.2	1.4	1.6	4.5	0.7	4.0
BS L2N 200E	0.80	120	6.3	< 1	31.4	93	34.6	36.8	72.4	76	8.9	35.9	35	7.5	7.3	1.74	6.8	5.9	1.0	1.1	3.2	0.5	2.8
BS L2N 225E	0.87	125	5.0	< 1	27.5	87	28.5	29.0	59.0	65	6.8	26.8	31	5.8	5.5	1.44	5.7	5.0	0.8	1.0	2.8	0.4	2.5
BS L2N 250E	0.73	146	3.0	< 1	36.5	75	29.0	30.7	55.0	60	7.4	30.1	35	6.8	7.0	1.86	6.8	6.3	1.0	1.2	3.5	0.5	3.2
BS L2N 275E	0.74	133	3.1	< 1	25.1	120	26.5	30.0	53.0	58	6.2	24.4	33	5.1	5.8	1.36	5.1	4.5	0.7	0.9	2.5	0.4	2.2
BS L2N 300E	0.71	142	2.8	< 1	20.2	107	21.5	23.2	46.8	54	5.1	20.0	14	4.3	4.6	1.09	4.1	3.6	0.6	0.7	2.0	0.3	1.9
BS L2N 325E	0.73	159	2.4	< 1	22.9	133	23.3	25.8	64.1	71	6.0	24.9	29	5.6	5.8	1.55	5.5	4.5	0.8	0.9	2.3	0.4	2.1
BS L2N 350E	0.67	167	3.2	< 1	17.6	184	23.1	25.8	47.7	63	5.8	22.4	40	4.6	5.2	1.03	4.3	3.6	0.6	0.7	2.0	0.3	1.8
BS L2N 375E	0.79	123	3.3	< 1	20.2	154	26.3	27.5	50.7	59	6.1	22.7	37	4.7	4.9	1.10	4.5	3.9	0.7	0.7	2.2	0.3	2.1
BS L2N 400E	0.87	109	6.2	< 1	23.4	94	26.8	29.3	54.9	63	6.5	25.4	27	5.2	5.3	1.30	5.0	4.4	0.7	0.8	2.5	0.4	2.3
BS L2N 425E	0.85	98	3.7	2	19.3	86	23.6	24.4	48.0	43	5.5	21.1	23	4.4	4.2	1.05	4.0	3.6	0.6	0.7	2.1	0.3	2.0
BS L2N 450E	0.74	66	3.4	< 1	17.6	33	22.2	22.1	43.2	43	5.0	19.7	17	4.0	3.8	1.00	3.7	3.3	0.6	0.6	1.9	0.3	1.8
BS L2N 475E	0.71	101	3.0	< 1	14.9	88	20.6	22.0	39.7	42	4.6	17.5	18	3.4	3.7	0.85	3.0	2.8	0.5	0.6	1.6	0.3	1.6
BS L2N 500E	0.81	97	3.0	< 1	21.3	45	24.8	26.5	54.9	56	5.8	22.4	29	4.8	4.9	1.29	4.4	4.0	0.7	0.8	2.2	0.3	2.1
BS L2N 525E	0.76	251	2.6	< 1	14.3	219	16.9	27.4	32.2	55	3.8	14.6	33	3.1	4.4	0.70	3.0	2.7	0.4	0.6	1.7	0.3	1.6
BS L2N 550E	0.81	142	3.5	< 1	23.3	148	26.5	28.8	53.5	61	6.6	26.1	37	5.2	5.8	1.24	5.1	4.4	0.7	0.8	2.5	0.4	2.3

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
BS L2N 575E	0.68	159	3.1	< 1	19.5	136	21.9	23.7	45.5	49	5.3	20.6	39	4.4	4.7	1.03	4.1	3.7	0.6	0.7	2.1	0.3	1.8
BS L2N 600E	0.60	219	2.7	< 1	12.4	97	16.6	20.1	32.6	39	3.7	14.1	25	2.9	3.0	0.70	2.7	2.5	0.4	0.5	1.5	0.2	1.3
BS L3N 175E	0.82	186	2.7	< 1	23.9	146	26.1	27.3	55.4	60	6.8	27.5	37	6.0	5.7	1.42	5.7	4.6	0.8	0.9	2.4	0.4	2.2
BS L3N 200E	0.73	183	2.3	< 1	23.1	91	16.8	18.2	39.2	45	4.3	17.9	27	4.2	4.4	1.43	4.4	3.9	0.6	0.8	2.2	0.3	2.0
BS L3N 225E	0.89	99	3.1	< 1	20.4	74	23.2	25.5	47.6	56	5.4	21.2	17	4.2	4.7	1.10	4.0	3.6	0.6	0.7	2.1	0.3	2.0
BS L3N 250E	0.84	85	3.1	< 1	20.2	10	23.8	24.2	47.1	54	5.4	20.7	13	4.2	4.3	1.07	4.0	3.7	0.6	0.7	2.2	0.3	2.0
BS L3N 275E	0.85	95	4.6	< 1	26.8	14	29.3	28.9	58.8	62	6.8	27.1	21	5.7	6.0	1.48	5.6	4.7	0.8	0.9	2.7	0.4	2.4
BS L3N 300E	0.82	150	3.4	< 1	20.1	109	21.9	24.9	46.8	56	5.2	20.2	28	4.3	4.4	1.07	4.1	3.7	0.6	0.7	2.1	0.3	2.1
BS L3N 325E	0.71	121	3.5	< 1	25.2	195	29.7	30.6	65.5	65	7.4	29.0	34	6.0	6.1	1.26	5.6	5.1	0.9	1.0	2.8	0.4	2.5
BS L3N 350E	0.74	161	3.5	< 1	23.1	138	28.4	29.2	57.9	62	6.5	25.4	22	5.1	5.1	1.22	4.9	4.2	0.7	0.8	2.4	0.4	2.1
BS L3N 375E	0.78	157	3.3	< 1	21.6	140	25.6	27.1	52.8	58	6.0	23.3	17	4.9	5.0	1.19	4.6	4.1	0.7	0.8	2.3	0.4	2.1
BS L3N 400E	0.75	140	4.1	< 1	28.0	269	34.3	36.8	72.7	80	8.6	32.9	28	6.8	7.1	1.23	6.3	5.9	1.0	1.1	3.1	0.5	2.9
BS L3N 425E	0.80	81	3.4	< 1	26.6	81	28.2	30.4	54.9	55	6.7	26.1	30	5.6	5.7	1.36	5.3	4.7	0.8	0.9	2.7	0.4	2.4
BS L3N 450E	0.83	92	3.4	< 1	26.9	27	27.1	28.1	64.0	58	6.7	26.1	28	5.5	5.5	1.26	5.3	4.9	0.8	1.0	2.9	0.5	2.7
BS L3N 475E	0.82	83	3.7	< 1	30.6	35	33.7	31.9	67.2	80	8.1	31.1	27	6.5	5.8	1.40	6.3	5.5	0.9	1.1	3.2	0.5	2.8
BS L3N 500E	0.81	73	3.4	< 1	27.2	17	31.1	32.6	63.5	69	7.3	28.1	24	5.8	6.3	1.29	5.7	5.1	0.8	1.0	2.9	0.4	2.5
BS L3N 525E	0.83	63	3.5	< 1	23.1	6	25.3	26.0	51.1	51	6.1	24.0	27	5.0	4.6	1.16	4.7	4.5	0.7	0.9	2.6	0.4	2.3
BS L3N 550E	0.79	121	3.4	< 1	27.4	145	27.9	32.3	60.3	70	7.0	27.4	26	6.0	7.0	1.28	5.5	4.9	0.8	1.0	2.8	0.4	2.6
BS L3N 575E	0.71	118	2.8	< 1	18.8	83	24.0	25.9	47.2	50	5.6	20.9	29	4.1	4.6	1.03	4.0	3.4	0.6	0.7	2.0	0.3	1.8
BS L3N 600E	0.80	139	3.2	< 1	18.3	110	21.7	24.0	47.0	55	5.4	21.6	21	4.6	5.5	1.16	4.3	3.7	0.6	0.7	2.1	0.3	2.0
BS L3N 625E	0.73	131	3.1	< 1	14.8	105	20.9	22.0	40.5	36	4.6	17.7	23	3.5	3.4	0.90	3.1	2.8	0.5	0.6	1.7	0.3	1.6
BS L3N 650E	0.70	134	3.2	< 1	22.4	334	27.0	28.5	59.9	56	7.1	27.8	27	6.1	6.2	1.26	5.2	4.9	0.8	0.9	2.8	0.4	2.6
BS L3N 675E	0.84	91	3.5	< 1	20.4	105	25.6	26.1	52.5	55	6.0	22.9	20	5.0	5.2	1.17	4.6	4.2	0.7	0.8	2.4	0.4	2.1
KD18-211S	1.08	100	6.7	< 1	27.5	25	28.8	29.8	53.7	57	6.3	24.2	21	5.1	5.3	1.30	5.3	4.9	0.8	1.0	2.9	0.4	2.5
PM18-187S	1.03	168	8.5	6	30.7	106	27.2	32.3	59.0	58	7.1	27.0	40	5.8	4.9	1.47	5.4	5.1	0.8	1.0	3.0	0.5	2.8
PM18-192S	0.65	129	3.1	< 1	8.4	65	22.3	27.0	41.0	46	4.6	17.0	19	3.0	2.8	0.50	2.4	1.6	0.3	0.3	1.0	0.2	1.1
PM18-197S	1.48	156	3.0	< 1	20.4	74	35.4	33.1	66.8	78	7.7	29.4	50	5.6	4.4	1.60	4.8	3.9	0.7	0.8	2.3	0.4	2.1
PM18-205S	0.66	303	4.5	< 1	24.2	158	41.5	45.8	85.3	103	10.5	40.4	33	7.3	7.3	1.74	5.7	4.6	0.8	1.0	3.0	0.5	3.0
PM18-209S	1.32	229	4.5	< 1	19.5	173	34.3	37.4	71.1	80	7.7	28.9	20	5.8	5.4	1.51	5.2	4.3	0.7	0.8	2.3	0.3	2.0
PM18-214S	1.27	347	1.8	3	23.2	77	25.2	29.2	52.3	60	6.7	28.0	26	6.1	6.7	1.40	5.7	4.7	0.8	0.9	2.7	0.4	2.3
AB18-090T	0.61	171	1.6	< 1	29.6	155	18.5	19.2	37.5	< 3	5.0	21.1	< 5	5.0	4.5	1.43	5.6	5.3	0.9	1.1	3.3	0.5	2.9
AB18-115T	0.71	130	2.8	< 1	14.8	61	23.0	25.3	55.7	54	5.4	20.2	33	4.1	3.9	1.17	3.8	3.1	0.5	0.6	1.7	0.3	1.4
AB18-116T	0.92	111	2.8	< 1	17.0	60	21.1	23.8	43.1	40	5.0	19.5	16	3.9	4.3	1.05	3.8	3.5	0.6	0.7	2.1	0.3	1.8
AB18-117T	0.49	112	1.9	< 1	12.0	18	17.0	18.2	32.8	33	4.0	15.7	11	3.3	3.6	0.92	3.1	2.6	0.5	0.5	1.3	0.2	1.1
AW18-366T	1.69	99	6.6	< 1	22.9	133	31.5	28.7	61.0	49	7.4	27.8	38	5.6	4.2	1.43	5.0	4.3	0.7	0.8	2.6	0.4	2.4
AW18-475T	0.65	132	6.1	< 1	16.2	29	20.7	20.2	38.8	42	4.6	17.8	16	3.6	3.5	1.09	3.5	3.2	0.5	0.6	1.8	0.3	1.6
AW18-486T	1.70	141	6.5	< 1	21.7	26	30.8	36.7	58.7	63	7.3	27.7	21	5.5	5.9	1.34	5.0	4.1	0.7	0.8	2.3	0.4	2.1
KD18-089T	0.86	104	3.5	< 1	20.1	71	22.9	22.6	36.5	33	5.2	20.6	17	4.1	3.8	1.26	4.1	3.7	0.6	0.7	2.2	0.3	2.0
KD18-090T	1.49	138	2.1	< 1	19.9	68	18.8	25.9	36.9	39	4.5	18.0	15	4.0	4.9	1.25	4.2	3.5	0.6	0.7	2.1	0.3	1.7
KD18-091T	1.14	141	2.6	< 1	16.1	62	17.8	19.8	30.3	36	3.9	15.4	< 5	3.2	3.5	0.97	3.3	2.8	0.5	0.6	1.7	0.3	1.5

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
KD18-230T	0.98	171	3.2	< 1	16.7	87	21.7	22.7	42.2	40	5.1	20.1	29	4.1	4.5	1.12	3.9	3.1	0.5	0.6	1.9	0.3	1.7
KD18-355T	2.04	114	5.4	< 1	21.5	129	33.3	33.8	62.7	55	7.4	26.9	11	5.3	5.4	1.36	4.8	3.9	0.7	0.8	2.4	0.4	2.2
KD18-358T	1.92	114	6.3	< 1	21.9	95	27.2	27.3	53.4	46	6.4	24.6	30	4.9	4.7	1.33	4.8	3.8	0.7	0.8	2.4	0.4	2.2
KD18-359T	0.77	204	3.1	< 1	18.7	84	27.4	26.9	49.1	45	5.8	21.8	20	4.3	4.0	1.31	4.2	3.5	0.6	0.7	2.0	0.3	1.7
KD18-360T	1.40	142	4.4	< 1	21.9	71	27.4	27.3	54.1	47	6.5	25.2	24	5.1	4.6	1.34	4.7	3.7	0.6	0.7	2.0	0.3	1.7
KD18-361T	1.08	93	5.2	< 1	22.6	63	29.9	34.1	58.0	60	6.7	25.3	24	4.9	5.4	1.22	4.8	4.0	0.7	0.8	2.4	0.4	2.1
KD18-362T	1.44	147	11.1	< 1	20.3	72	27.0	27.0	50.0	45	6.0	23.2	40	4.7	4.3	1.37	4.6	3.7	0.6	0.7	2.1	0.3	1.8
KD18-363T	1.11	152	11.5	< 1	17.2	71	22.6	22.2	47.5	54	5.0	19.0	43	3.9	3.5	1.15	3.6	3.1	0.5	0.6	1.8	0.3	1.6
LT18-270T	0.61	232	2.6	< 1	18.4	20	13.2	14.8	27.7	29	3.3	13.5	< 5	3.1	3.4	0.99	3.6	3.3	0.6	0.7	2.0	0.3	1.6
LT18-276T	0.62	183	3.8	4	16.2	48	15.0	15.6	27.3	25	3.5	14.1	13	3.0	3.0	0.88	3.3	3.0	0.5	0.6	1.8	0.3	1.4
LT18-308T	1.49	115	3.5	< 1	20.2	87	25.0	23.3	47.4	56	5.9	23.3	26	4.8	4.3	1.26	4.3	3.6	0.6	0.7	2.2	0.3	1.9
LT18-310T	1.53	110	3.4	< 1	20.9	72	25.2	27.0	48.9	52	6.1	23.3	21	4.8	4.8	1.30	4.5	3.7	0.6	0.7	2.1	0.3	1.8
PM18-054T	0.27	64	29.6	< 1	17.6	18	25.5	32.0	34.0	21	5.5	21.7	< 5	4.4	4.3	1.16	4.1	2.7	0.5	0.5	1.5	0.2	1.2
PM18-056T	2.26	65	4.8	< 1	13.8	78	25.9	24.5	45.7	39	5.0	17.4	21	3.1	2.6	0.76	2.6	2.3	0.4	0.5	1.6	0.3	1.7
PM18-058T	1.98	51	5.9	< 1	16.1	90	25.6	29.7	49.0	55	5.6	20.2	28	3.4	3.3	0.85	2.7	2.5	0.4	0.6	1.8	0.3	1.9
PM18-061T	0.51	159	2.3	< 1	15.5	60	18.1	16.6	32.4	28	4.4	17.6	16	3.6	3.5	0.99	3.5	2.9	0.5	0.6	1.7	0.3	1.5
PM18-064T	0.51	139	2.6	< 1	14.7	64	17.7	18.0	34.6	44	4.3	16.7	25	3.5	3.4	0.98	3.4	2.7	0.5	0.5	1.6	0.3	1.5
PM18-066T	0.68	112	2.6	< 1	16.6	46	20.0	18.4	41.9	50	4.8	18.6	24	3.6	3.6	1.01	3.4	3.1	0.5	0.6	1.9	0.3	1.8
PM18-067T	0.55	189	2.7	< 1	15.6	69	18.0	17.4	32.5	56	4.2	16.8	33	3.5	3.4	0.99	3.3	2.8	0.5	0.6	1.6	0.3	1.5
PM18-091T	0.32	222	0.7	< 1	12.7	68	11.5	11.1	27.6	24	2.9	12.4	11	2.8	2.3	0.84	2.9	2.5	0.4	0.5	1.3	0.2	1.1
PM18-115T	0.56	212	2.6	< 1	21.7	59	27.8	24.8	53.7	54	6.7	25.7	24	5.3	4.8	1.63	5.0	4.3	0.7	0.8	2.4	0.4	2.0
PM18-117T	0.65	144	2.5	< 1	19.9	54	25.9	26.5	49.2	48	5.9	23.4	13	4.7	4.6	1.42	4.5	3.8	0.7	0.8	2.2	0.3	1.8
PM18-118T	0.63	151	3.1	< 1	21.7	52	28.6	27.6	56.5	65	6.7	26.2	36	5.4	4.9	1.61	5.1	4.2	0.7	0.8	2.4	0.4	2.0
PM18-143T	0.37	124	2.1	< 1	15.6	18	22.1	21.5	42.5	41	5.1	20.2	12	4.2	3.5	1.19	4.0	3.1	0.5	0.6	1.7	0.2	1.3
PM18-146T	0.40	236	1.7	< 1	16.6	19	19.5	19.4	38.5	30	4.7	18.7	16	3.9	3.5	1.16	3.7	3.3	0.6	0.6	1.8	0.3	1.4
PM18-159T	0.84	166	3.1	< 1	16.9	90	22.3	21.6	43.1	34	5.3	20.9	14	4.3	3.7	1.14	4.0	3.2	0.6	0.6	1.8	0.3	1.7
PM18-196T	1.38	125	3.0	< 1	20.4	94	34.9	34.7	67.3	61	7.9	29.1	31	5.6	5.2	1.62	4.9	4.0	0.7	0.8	2.4	0.4	2.0
PM18-199T	1.03	227	2.4	< 1	59.3	72	84.7	80.0	137	121	17.8	71.2	95	14.2	13.1	4.08	14.6	10.7	1.9	1.9	5.0	0.7	3.4
PM18-203T	0.31	61	3.0	< 1	16.8	33	21.6	21.9	55.0	54	5.5	21.4	20	4.5	4.2	1.19	4.3	3.3	0.6	0.6	1.6	0.2	1.2
AB18-115M	0.48	86	2.1	< 1	10.5	38	15.9	17.9	38.2	37	3.8	14.6	18	2.9	3.1	0.83	2.8	2.1	0.4	0.4	1.1	0.2	0.9
AB18-117M	0.40	84	1.5	< 1	10.5	14	15.0	16.3	29.9	38	3.5	13.7	< 5	2.7	2.8	0.75	2.6	2.1	0.4	0.4	1.1	0.2	0.8
AW18-366M	1.74	108	6.4	< 1	25.6	140	41.2	39.8	77.5	71	9.1	34.1	13	6.5	5.8	1.74	5.9	4.9	0.8	0.9	2.8	0.4	2.5
AW18-486M	1.58	129	5.7	< 1	19.7	36	27.7	33.2	50.1	51	6.4	23.9	13	4.9	5.3	1.24	4.6	3.7	0.6	0.7	2.2	0.3	1.8
KD18-230M	0.97	134	3.2	< 1	18.0	64	24.5	25.3	46.3	48	5.7	22.7	6	4.7	4.6	1.32	4.5	3.5	0.6	0.7	2.0	0.3	1.8
KD18-355M	2.27	117	5.9	< 1	22.7	112	36.1	40.8	70.3	95	8.4	32.0	18	6.3	5.6	1.59	5.3	4.3	0.7	0.8	2.5	0.4	2.3
KD18-358M	1.48	96	9.0	< 1	18.7	18	23.1	23.6	42.5	48	5.4	21.2	7	4.3	4.2	1.16	4.0	3.4	0.6	0.7	2.1	0.3	1.9
KD18-359M	0.73	261	4.2	< 1	20.3	100	31.2	32.0	57.5	53	6.9	26.2	20	5.2	4.7	1.50	4.7	4.0	0.7	0.8	2.3	0.3	1.9
KD18-360M	1.77	131	5.2	< 1	20.3	5	28.8	27.4	55.3	50	6.2	25.0	11	5.1	4.7	1.37	5.1	3.8	0.7	0.8	2.1	0.3	1.9
KD18-361M	1.01	164	5.6	2	24.4	143	33.6	34.8	63.5	66	7.6	29.1	26	5.8	5.3	1.42	5.5	4.4	0.8	0.8	2.5	0.4	2.0
KD18-362M	1.61	179	8.5	< 1	19.3	73	26.4	26.5	48.4	47	5.7	21.4	33	4.4	4.0	1.30	4.2	3.5	0.6	0.7	2.0	0.3	1.6

Results

Activation Laboratories Ltd.

Report: A18-15519

Analyte Symbol	Ti	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
KD18-363M	1.21	162	7.6	4	15.6	75	21.1	22.2	39.9	51	4.5	17.5	17	3.6	3.7	1.09	3.4	3.0	0.5	0.6	1.8	0.3	1.5
PM18-054M	0.21	26	30.5	< 1	16.3	9	20.7	21.1	20.7	18	4.4	17.9	40	3.6	2.2	1.06	3.4	2.4	0.4	0.5	1.2	0.2	0.9
PM18-061M	0.48	347	2.5	< 1	16.4	17	18.5	18.7	33.9	36	4.6	18.1	7	3.8	3.9	1.05	3.6	3.0	0.5	0.6	1.8	0.3	1.6
PM18-064M	0.42	115	2.2	< 1	13.8	47	16.2	16.4	31.8	28	4.0	15.8	< 5	3.3	3.1	0.90	3.1	2.5	0.4	0.5	1.4	0.2	1.2
PM18-066M	0.36	119	2.2	< 1	15.1	43	15.7	16.8	32.5	31	3.9	15.6	14	3.4	3.5	1.01	3.4	2.9	0.5	0.6	1.6	0.2	1.3
PM18-067M	0.51	160	2.7	< 1	16.5	60	18.7	19.0	34.8	39	4.4	17.7	9	3.8	3.7	1.07	3.6	3.1	0.5	0.6	1.8	0.3	1.6
PM18-110M	0.43	183	2.0	< 1	13.6	22	10.5	9.2	17.7	21	2.3	9.6	< 5	2.3	2.3	0.64	2.6	2.5	0.4	0.5	1.4	0.2	1.1
PM18-115M	0.55	192	2.5	< 1	21.7	64	28.1	27.1	53.6	53	6.4	24.6	24	5.2	5.1	1.65	5.0	4.2	0.7	0.8	2.4	0.3	1.9
PM18-117M	0.59	220	2.5	< 1	19.7	71	24.9	25.6	46.0	43	5.7	22.4	16	4.6	4.6	1.43	4.6	3.7	0.6	0.7	2.2	0.3	1.8
PM18-118M	0.60	209	2.9	< 1	21.0	84	28.3	29.0	53.6	53	6.4	24.9	12	5.0	4.8	1.49	4.6	4.0	0.6	0.8	2.3	0.3	1.9
PM18-130M	0.39	69	1.9	< 1	9.1	23	14.5	15.1	34.8	39	3.4	13.0	11	2.5	2.6	0.72	2.4	1.8	0.3	0.3	0.9	0.1	0.8
PM18-143M	0.33	148	1.7	< 1	14.3	19	20.3	23.1	37.8	45	4.6	18.2	17	3.7	3.5	1.05	3.5	2.7	0.5	0.5	1.5	0.2	1.2
PM18-146M	0.25	118	1.2	< 1	11.6	17	14.2	14.7	27.3	26	3.3	13.2	< 5	2.9	2.8	0.78	2.7	2.3	0.4	0.4	1.3	0.2	1.0
PM18-159M	0.89	138	3.1	< 1	18.4	71	25.1	24.0	47.0	48	5.8	22.8	11	4.7	4.5	1.35	4.6	3.6	0.6	0.7	2.1	0.3	1.7
PM18-165M	1.80	115	7.1	< 1	27.4	117	45.2	44.5	85.1	79	10.0	37.7	13	7.3	6.4	1.93	6.5	5.3	0.9	1.0	3.0	0.4	2.7
PM18-196M	1.38	181	2.7	< 1	18.9	84	32.5	36.6	64.0	73	7.6	28.5	34	5.6	6.3	1.60	4.7	3.9	0.7	0.8	2.3	0.3	2.0
PM18-203M	0.31	36	2.6	< 1	16.2	18	24.2	24.0	56.4	60	5.8	22.5	5	4.5	4.6	1.18	4.4	3.3	0.6	0.6	1.6	0.2	1.2
AB18-115PC	0.80	142	2.4	< 1	14.7	57	34.3	36.8	64.1	63	7.1	25.4	19	4.7	4.6	1.36	4.0	3.2	0.5	0.6	1.7	0.3	1.3
AB18-117PC	1.00	167	2.7	< 1	16.6	55	23.5	26.6	44.2	46	5.2	19.9	14	4.0	4.0	1.28	3.8	3.3	0.5	0.6	1.9	0.3	1.6
AW18-366PC	1.59	112	5.3	< 1	20.3	133	27.9	36.4	53.3	54	6.4	23.6	24	4.6	4.4	1.19	4.2	3.6	0.6	0.7	2.2	0.3	2.1
AW18-486PC	1.77	225	5.2	< 1	18.5	50	26.1	30.6	51.1	57	6.0	22.7	19	4.6	4.3	1.11	4.4	3.5	0.6	0.7	2.1	0.3	1.9
EL18-001PC	0.64	118	30.8	138	36.5	39	92.5	82.2	169	131	19.3	69.0	75	12.2	8.9	2.55	10.2	7.0	1.3	1.2	3.7	0.6	3.3
KD18-230PC	0.90	164	3.1	< 1	15.8	81	22.3	20.9	41.4	45	5.0	19.6	10	4.0	2.9	1.10	3.6	3.0	0.5	0.6	1.8	0.3	1.6
KD18-355PC	4.06	187	6.4	< 1	19.5	110	14.9	36.1	50.2	56	7.2	30.6	< 5	6.0	4.3	1.46	5.2	3.8	0.7	0.8	2.2	0.3	2.2
KD18-358PC	1.92	76	5.3	< 1	18.6	26	29.9	26.4	57.3	46	7.0	26.3	23	5.1	3.8	1.30	4.5	3.6	0.6	0.8	2.4	0.4	2.2
KD18-359PC	0.87	315	4.4	< 1	19.6	83	28.5	31.1	55.9	48	6.8	25.8	22	5.1	3.8	1.62	5.0	4.2	0.7	0.8	2.3	0.4	2.0
KD18-360PC	1.33	225	3.8	< 1	14.8	86	24.0	28.9	47.4	53	5.3	19.8	13	3.9	4.1	1.10	3.7	3.0	0.5	0.6	1.7	0.3	1.6
KD18-361PC	1.03	193	5.5	< 1	20.3	113	30.9	30.3	57.2	56	6.7	24.8	36	4.8	4.6	1.22	4.6	3.8	0.6	0.8	2.3	0.4	2.0
KD18-362PC	1.35	275	5.3	7	16.9	53	25.7	24.1	47.3	46	5.4	20.4	16	4.2	3.6	1.20	3.9	3.5	0.6	0.7	2.0	0.3	1.7
KD18-363PC	1.20	150	4.8	< 1	15.3	38	19.9	20.3	40.0	42	4.4	17.1	14	3.5	3.1	1.11	3.4	3.0	0.5	0.6	1.8	0.3	1.5
LT18-307PC	1.55	156	3.7	< 1	20.7	44	29.5	27.0	55.1	50	6.9	26.9	26	5.4	4.8	1.41	5.1	4.1	0.7	0.8	2.3	0.4	2.0
LT18-310PC	1.53	105	3.8	< 1	20.5	52	33.3	30.8	60.5	59	7.4	28.5	12	5.5	4.8	1.40	5.2	4.2	0.7	0.8	2.4	0.4	2.1
PM18-115PC	0.53	305	3.3	< 1	21.2	20	29.2	28.0	53.2	48	6.5	26.0	8	5.4	4.4	1.73	5.1	4.3	0.7	0.8	2.4	0.4	2.1
PM18-054PC	0.35	84	5.1		15.4	66	39.0		76.5		9.1	34.9		6.6		1.46	5.0	3.3	0.6	0.6	1.9	0.3	1.8
PM18-061PC	0.43	185	2.1	< 1	12.3	62	15.1	16.8	27.3	31	3.7	14.4	12	3.1	3.2	0.77	2.9	2.5	0.4	0.5	1.5	0.2	1.4
PM18-064PC	0.54	149	2.2	< 1	11.8	34	19.4	18.3	36.0	36	4.5	17.4	20	3.4	3.6	0.87	3.0	2.4	0.4	0.5	1.4	0.2	1.3
PM18-066PC	0.48	188	2.6	< 1	14.1	64	17.4	18.6	34.7	41	4.4	17.9	25	3.7	3.8	0.97	3.5	2.9	0.5	0.6	1.7	0.3	1.6
PM18-067PC	0.49	182	2.2	< 1	12.4	62	15.0	16.3	27.7	28	3.6	14.6	< 5	3.1	3.1	0.74	2.7	2.4	0.4	0.5	1.5	0.2	1.4
PM18-117PC	0.56	244	2.9	3	19.9	44	31.4	27.7	56.6	47	6.8	26.2	19	5.3	4.7	1.56	5.0	4.0	0.7	0.8	2.3	0.3	1.8
PM18-118PC	0.56	236	3.7	< 1	20.2	45	29.3	28.3	53.1	53	6.5	25.4	20	5.3	4.7	1.54	5.0	4.2	0.7	0.8	2.4	0.4	2.0

Analyte Symbol	Tl	V	U	W	Y	Zr	La	La	Ce	Ce	Pr	Nd	Nd	Sm	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	2	0.1	1	0.1	1	0.1	0.5	0.1	3	0.1	0.1	5	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Method Code	TD-MS	TD-ICP	MULTI NAA/T D-ICP- MS	INAA	TD-MS	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	INAA	TD-MS	INAA	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS
PM18-143PC	0.54	184	1.9		15.2	28	26.6		48.7		5.6	22.6		4.5		1.15	4.2	3.0	0.6	0.6	1.6	0.2	1.5
PM18-146PC	0.50	87	2.0		18.8	18	28.9		55.9		6.6	26.0		5.2		1.49	4.9	4.0	0.7	0.7	2.1	0.3	1.8
PM18-159PC	1.15	197	3.3	< 1	15.7	85	20.4	23.9	41.0	47	5.3	20.7	28	4.2	4.3	1.15	3.9	3.1	0.5	0.6	1.9	0.3	1.8

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
BS L1N 0E	2.0	0.3	0.18	8.78
BS L1N 25E	2.0	0.3	0.09	25.8
BS L1N 50E	2.4	0.3	0.25	8.48
BS L1N 75E	3.2	0.4	0.28	8.10
BS L1N 100E	2.8	0.4	0.36	8.27
BS L1N 125E	3.2	0.4	0.29	5.06
BS L1N 150E	3.0	0.2	0.29	1.07
BS L1N 175E	4.0	0.6	0.39	5.23
BS L1N 200E	2.2	0.3	0.17	6.06
BS L1N 225E	2.6	0.4	0.28	6.03
BS L1N 250E	2.2	0.4	0.19	5.73
BS L1N 275E	3.0	0.4	0.38	6.84
BS L1N 300E	2.7	0.3	0.25	6.70
BS L1N 325E	0.6	0.2	0.25	0.963
BS L1N 350E	2.2	0.4	0.27	6.76
BS L1N 375E	2.7	0.4	0.32	6.41
BS L1N 400E	2.6	0.3	0.26	5.55
BS L1N 425E	2.7	0.3	0.35	1.58
BS L1N 450E	2.3	0.4	0.30	1.23
BS L1N 475E	1.9	0.2	0.33	1.16
BS L1N 500E	2.4	0.3	0.18	6.03
BS L2N 100E	2.3	0.3	0.24	5.81
BS L2N 125E	3.1	0.4	0.14	29.5
BS L2N 150E	3.4	0.4	0.26	5.89
BS L2N 175E	4.4	0.6	0.39	5.05
BS L2N 200E	2.8	0.4	0.32	6.68
BS L2N 225E	2.5	0.4	0.27	6.70
BS L2N 250E	3.1	0.5	0.40	6.68
BS L2N 275E	2.8	0.4	0.27	6.94
BS L2N 300E	2.6	0.3	0.11	29.5
BS L2N 325E	2.2	0.3	0.22	6.44
BS L2N 350E	2.1	0.3	0.20	4.46
BS L2N 375E	2.3	0.3	0.21	5.01
BS L2N 400E	3.3	0.4	0.45	1.33
BS L2N 425E	2.3	0.3	0.19	6.33
BS L2N 450E	1.8	0.3	0.10	29.0
BS L2N 475E	2.5	0.3	0.09	20.1
BS L2N 500E	2.6	0.3	0.24	6.22
BS L2N 525E	2.7	0.3	0.23	5.35
BS L2N 550E	2.9	0.4	0.28	7.05
BS L2N 575E	1.8	0.3	0.25	6.39
BS L2N 600E	1.3	0.2	0.10	4.42

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
BS L3N 175E	2.8	0.3	0.32	1.14
BS L3N 200E	2.2	0.3	0.20	6.10
BS L3N 225E	2.7	0.3	0.13	22.8
BS L3N 250E	2.4	0.3	0.11	23.3
BS L3N 275E	3.0	0.4	0.14	23.1
BS L3N 300E	1.9	0.3	0.17	6.84
BS L3N 325E	2.2	0.4	0.17	7.55
BS L3N 350E	2.0	0.3	0.18	7.41
BS L3N 375E	2.6	0.3	0.13	27.0
BS L3N 400E	3.7	0.4	0.17	24.7
BS L3N 425E	2.4	0.4	0.16	8.26
BS L3N 450E	2.3	0.4	0.19	7.20
BS L3N 475E	2.0	0.4	0.21	7.98
BS L3N 500E	3.4	0.4	0.15	23.1
BS L3N 525E	2.4	0.4	0.15	6.36
BS L3N 550E	4.8	0.4	0.28	27.9
BS L3N 575E	2.8	0.3	0.17	28.6
BS L3N 600E	2.7	0.3	0.21	24.0
BS L3N 625E	1.5	0.3	0.11	5.34
BS L3N 650E	2.7	0.4	0.18	5.75
BS L3N 675E	3.8	0.3	0.22	25.5
KD18-211S	4.1	0.4	0.32	29.5
PM18-187S	3.8	0.4	0.57	1.73
PM18-192S	0.6	0.2	0.14	1.66
PM18-197S	1.4	0.3	0.11	6.92
PM18-205S	4.8	0.5	0.62	1.61
PM18-209S	3.3	0.3	0.41	1.17
PM18-214S	3.6	0.4	0.37	1.76
AB18-090T	< 0.2	0.4	< 0.05	6.79
AB18-115T	2.6	0.2	0.36	1.09
AB18-116T	4.0	0.3	0.32	1.19
AB18-117T	0.6	0.2	0.22	0.624
AW18-366T	1.8	0.4	0.17	10.2
AW18-475T	1.1	0.2	0.10	4.18
AW18-486T	3.8	0.3	0.48	1.38
KD18-089T	1.4	0.3	0.11	6.73
KD18-090T	3.2	0.3	0.52	1.02
KD18-091T	3.2	0.2	0.31	0.919
KD18-230T	3.1	0.3	0.35	2.07
KD18-355T	3.8	0.4	0.47	2.10
KD18-358T	2.2	0.3	0.17	5.42
KD18-359T	0.7	0.3	0.12	9.93

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
KD18-360T	1.4	0.3	0.12	3.29
KD18-361T	3.8	0.3	0.42	2.15
KD18-362T	1.4	0.3	0.19	4.34
KD18-363T	1.2	0.2	0.11	4.58
LT18-270T	3.5	0.2	0.24	1.04
LT18-276T	1.0	0.2	0.12	4.97
LT18-308T	1.6	0.3	0.12	9.45
LT18-310T	3.4	0.3	0.18	37.2
PM18-054T	< 0.2	0.2	0.33	0.135
PM18-056T	1.5	0.3	0.15	9.09
PM18-058T	2.2	0.3	0.38	1.65
PM18-061T	1.3	0.2	0.18	6.28
PM18-064T	1.4	0.2	0.12	4.35
PM18-066T	1.6	0.3	0.14	4.61
PM18-067T	1.3	0.2	0.13	5.90
PM18-091T	1.3	0.1	0.18	1.41
PM18-115T	1.1	0.3	0.13	9.80
PM18-117T	1.5	0.3	0.15	10.2
PM18-118T	1.3	0.3	0.08	8.30
PM18-143T	2.3	0.2	0.18	1.16
PM18-146T	1.9	0.2	0.25	0.960
PM18-159T	2.1	0.3	0.23	2.08
PM18-196T	1.6	0.3	0.14	8.41
PM18-199T	2.7	0.5	0.26	6.51
PM18-203T	1.6	0.2	0.19	0.656
AB18-115M	0.6	0.1	0.07	3.04
AB18-117M	1.0	0.1	< 0.05	2.37
AW18-366M	2.2	0.4	0.13	9.43
AW18-486M	2.2	0.3	0.16	3.23
KD18-230M	2.2	0.3	0.09	7.60
KD18-355M	2.8	0.4	0.13	9.68
KD18-358M	1.9	0.3	0.11	3.86
KD18-359M	3.1	0.3	0.17	40.4
KD18-360M	2.0	0.3	0.12	3.29
KD18-361M	2.7	0.3	0.14	7.80
KD18-362M	2.0	0.2	0.33	0.834
KD18-363M	2.3	0.2	0.13	4.83
PM18-054M	0.4	0.1	0.38	0.451
PM18-061M	2.2	0.2	0.08	5.45
PM18-064M	1.9	0.2	0.35	0.773
PM18-066M	1.6	0.2	0.08	3.86
PM18-067M	1.8	0.3	0.09	6.14

Analyte Symbol	Yb	Lu	Lu	Mass
Unit Symbol	ppm	ppm	ppm	g
Lower Limit	0.2	0.1	0.05	
Method Code	INAA	TD-MS	INAA	INAA
PM18-110M	1.8	0.2	0.19	0.840
PM18-115M	2.9	0.3	0.15	31.0
PM18-117M	2.2	0.3	0.06	7.98
PM18-118M	1.8	0.3	0.08	8.04
PM18-130M	0.8	0.1	< 0.05	2.35
PM18-143M	1.8	0.2	0.25	0.852
PM18-146M	1.5	0.1	0.08	3.26
PM18-159M	2.0	0.3	0.10	7.38
PM18-165M	3.3	0.4	0.13	8.41
PM18-196M	3.4	0.3	0.19	25.1
PM18-203M	1.3	0.2	< 0.05	2.57
AB18-115PC	2.5	0.2	0.36	1.01
AB18-117PC	2.7	0.2	0.23	0.974
AW18-366PC	2.6	0.3	0.29	2.24
AW18-486PC	2.3	0.3	0.30	1.64
EL18-001PC	5.1	0.5	0.90	1.59
KD18-230PC	2.3	0.3	0.21	1.98
KD18-355PC	2.5	0.3	0.39	1.53
KD18-358PC	2.3	0.3	0.33	1.78
KD18-359PC	2.0	0.3	0.29	2.41
KD18-360PC	2.5	0.3	0.28	1.74
KD18-361PC	2.0	0.3	0.42	2.05
KD18-362PC	1.9	0.2	0.39	2.05
KD18-363PC	1.5	0.2	0.24	1.95
LT18-307PC	3.2	0.3	0.18	40.6
LT18-310PC	2.3	0.3	0.11	10.6
PM18-115PC	2.2	0.3	0.12	11.8
PM18-054PC		0.3		
PM18-061PC	1.4	0.2	0.24	1.83
PM18-064PC	1.7	0.2	0.29	0.774
PM18-066PC	2.0	0.3	0.29	1.25
PM18-067PC	1.8	0.2	0.11	9.41
PM18-117PC	2.9	0.3	0.15	39.6
PM18-118PC	1.6	0.3	0.33	1.58
PM18-143PC		0.2		
PM18-146PC		0.3		
PM18-159PC	2.1	0.3	0.32	0.650

Analyte Symbol	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Zn	Zn	S	Al	Ba	Be	Be	Bi	Bi	Ca	Co	Cr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	0.05	0.3	0.2	1	0.1	0.3	1	0.5	3	0.5	1	0.5	1	0.01	0.01	1	0.1	1	0.02	2	0.01	0.1	1
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-MS
SDC-1 Meas			25.6	23				24.1	24	34.1	33	106	99		7.78	611	3.1	3			1.00	17.4	> 10.0
SDC-1 Cert			30.000	30.000				25.00	25.00	38.0	38.0	103.00	103.00		8.34	630	3.00	3.00			1.00	18.0	64.00
SDC-1 Meas			25.9	29				24.7	24	33.5	34	106	105		7.74	629	3.0	3			1.05	17.8	> 10.0
SDC-1 Cert			30.000	30.000				25.00	25.00	38.0	38.0	103.00	103.00		8.34	630	3.00	3.00			1.00	18.0	64.00
SDC-1 Meas				24						18		33	100		7.78				3			1.05	
SDC-1 Cert				30.000						25.00		38.0	103.00		8.34				3.00			1.00	
GXR-6 Meas	0.59	0.5	62.4	56	0.1	0.5	< 1	92.7	86	23.5	25	133	123	0.02	12.9	1520	1.3	1	0.17	< 2	0.19	12.6	> 10.0
GXR-6 Cert	1.30	1.30	66.0	66.0	1.00	1.00	2.40	101	101	27.0	27.0	118	118	0.0160	17.7	1300	1.40	1.40	0.290	0.290	0.180	13.8	96.0
GXR-6 Meas	0.39	0.4	60.1	59	0.1	0.4	< 1	94.7	89	22.6	25	127	125	0.02	13.3	1530	1.2	1	0.17	< 2	0.19	12.9	> 10.0
GXR-6 Cert	1.30	1.30	66.0	66.0	1.00	1.00	2.40	101	101	27.0	27.0	118	118	0.0160	17.7	1300	1.40	1.40	0.290	0.290	0.180	13.8	96.0
DNC-1a Meas			103	99				9.0	3	270	240	76.5	62			105					7.43	59.0	> 10.0
DNC-1a Cert			100	100				6.3	6.3	247	247	70	70			118					8.21	57	270
DNC-1a Meas			103	99				9.0	< 3	270	241	76.5	65			105					7.54	59.0	> 10.0
DNC-1a Cert			100	100				6.3	6.3	247	247	70	70			118					8.21	57	270
DNC-1a Meas				100						3		245	61									7.60	
DNC-1a Cert				100						6.3		247	70									8.21	
SBC-1 Meas			33.2	31	0.4	0.4	2	36.5	26	86.4	82	207	188			764	3.4	3	0.65	< 2		22.3	> 10.0
SBC-1 Cert			31.0	31.0	0.40	0.40	2	35.0	35.0	82.8	83	186	186			788.0	3.20	3.20	0.70	0.70		22.7	109
SBC-1 Meas			31.8	30	0.4	0.9	4	35.3	28	83.3	88	200	177			781	3.5	3	0.69	< 2		23.3	> 10.0
SBC-1 Cert			31.0	31.0	0.40	0.40	2	35.0	35.0	82.8	83	186	186			788.0	3.20	3.20	0.70	0.70		22.7	109
SBC-1 Meas				30		< 0.3	3		25		81		179						3		< 2		
SBC-1 Cert				31.0		0.40	2		35.0		83		186						3.20		0.70		
OREAS 905 (INAA) Meas																							
OREAS 905 (INAA) Cert																							
OREAS 905 (INAA) Meas																							
OREAS 905 (INAA) Cert																							
OREAS 923 (4 Acid) Meas	1.96	2.6	4380	4270	0.4	< 0.3	< 1	81.7	82	39.5	39	365	344	0.68	6.86	413	2.4	2	20.6	5	0.45	23.4	> 10.0
OREAS 923 (4 Acid) Cert	1.60	1.60	4230	4230	0.420	0.420	0.930	83.0	83.0	35.8	35.8	345	345	0.691	7.29	434	2.42	2.42	21.4	21.4	0.473	23.1	71.0
OREAS 923 (4 Acid) Meas	1.81	2.6	4390	4530	0.4	< 0.3	< 1	84.0	76	37.6	38	355	350	0.71	6.92	431	2.7	2	21.4	18	0.49	24.0	> 10.0
OREAS 923 (4 Acid) Cert	1.60	1.60	4230	4230	0.420	0.420	0.930	83.0	83.0	35.8	35.8	345	345	0.691	7.29	434	2.42	2.42	21.4	21.4	0.473	23.1	71.0
OREAS 923 (4 Acid) Meas		1.8		4300		0.5	< 1		72		38		345	0.72	6.87			2		14	0.49		
OREAS 923 (4 Acid) Cert		1.60		4230		0.420	0.930		83.0		35.8		345	0.691	7.29			2.42		21.4	0.473		
OREAS 621 (4 Acid) Meas	65.3	68.5	3630	3630	271	287	13	> 5000	> 5000	27.8	30	> 10000	> 10000	4.61	6.10		1.9	2	3.96	2	2.08	29.6	> 10.0
OREAS 621 (4	69.0	69.0	3630	3630	284	284	13.6	13600	13600	26.2	26.2	52200	52200	4.48	6.40		1.69	1.69	3.93	3.93	1.97	29.3	37.1

Analyte Symbol	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Zn	Zn	S	Al	Ba	Be	Be	Bi	Bi	Ca	Co	Cr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	0.05	0.3	0.2	1	0.1	0.3	1	0.5	3	0.5	1	0.5	1	0.01	0.01	1	0.1	1	0.02	2	0.01	0.1	1
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-MS
Acid) Cert																							
OREAS 621 (4 Acid) Meas	65.5	67.5	3480	3580	266	282	13	> 5000	> 5000	26.7	25	> 10000	> 10000	4.63	5.85		1.9	2	3.93	< 2	2.04	29.8	> 10.0
OREAS 621 (4 Acid) Cert	69.0	69.0	3630	3630	284	284	13.6	13600	13600	26.2	26.2	52200	52200	4.48	6.40		1.69	1.69	3.93	3.93	1.97	29.3	37.1
OREAS 925 (4 Acid) Meas	2.66	3.0	6220	6290	0.6	0.6	< 1	115	113	38.2	38	459	434	0.97	6.85	396	2.5	2	30.7	16	0.42	20.7	> 10.0
OREAS 925 (4 Acid) Cert	2.36	2.36	6150	6150	0.540	0.540	0.10	100	100	34.8	34.8	446	446	0.962	7.32	425	2.32	2.32	31.3	31.3	0.458	24.6	70.0
OREAS 925 (4 Acid) Meas	2.56	2.4	6340	6210	0.6	0.5	< 1	122	114	37.2	42	449	443	0.97	6.61	417	2.6	2	33.2	22	0.46	21.4	> 10.0
OREAS 925 (4 Acid) Cert	2.36	2.36	6150	6150	0.540	0.540	0.10	100	100	34.8	34.8	446	446	0.962	7.32	425	2.32	2.32	31.3	31.3	0.458	24.6	70.0
OREAS 925 (4 Acid) Meas		2.5	6150		0.7	< 1		118		44		439	0.99	6.59			2		16	0.47			
OREAS 925 (4 Acid) Cert		2.36	6150		0.540	0.10		100		34.8		446	0.962	7.32			2.32		31.3	0.458			
OREAS 520 (4 Acid) Meas		0.9	2880		54	< 3		70		22	0.93	5.15					< 1		< 2	3.93			
OREAS 520 (4 Acid) Cert		0.450	2930		65.0	5.85		76.0		22.7	1.01	5.63					1.06		2.94	4.10			
OREAS 520 (4 Acid) Meas		0.7	2840		42	13		68		23	0.91	5.12					< 1		< 2	4.02			
OREAS 520 (4 Acid) Cert		0.450	2930		65.0	5.85		76.0		22.7	1.01	5.63					1.06		2.94	4.10			
OREAS 520 (4 Acid) Meas		0.6	2820		33	7		78		23	0.92	5.10					1		< 2	4.05			
OREAS 520 (4 Acid) Cert		0.450	2930		65.0	5.85		76.0		22.7	1.01	5.63					1.06		2.94	4.10			
Oreas 45e (4-Acid) Meas	0.71	0.9	810	813		2	20.0	8	473	434	54.8	43	0.04	6.12	233	0.6	< 1	0.25	< 2	0.06	58.4	> 10.0	
Oreas 45e (4-Acid) Cert	0.311	0.311	780	780		2.40	18.2	18.2	454	454	46.7	46.7	0.046	6.78	252	0.62	0.62	0.28	0.28	0.065	57.0	979	
Oreas 45e (4-Acid) Meas	0.54	0.8	804	751		< 1	19.5	17	454	433	52.5	42	0.04	5.83	243	0.5	< 1	0.25	< 2	0.06	59.4	> 10.0	
Oreas 45e (4-Acid) Cert	0.311	0.311	780	780		2.40	18.2	18.2	454	454	46.7	46.7	0.046	6.78	252	0.62	0.62	0.28	0.28	0.065	57.0	979	
Oreas 45e (4-Acid) Meas		0.8	763		< 1	19		431		43	0.04	5.60					< 1		< 2	0.06			
Oreas 45e (4-Acid) Cert		0.311	780		2.40	18.2		454		46.7	0.046	6.78					0.62		0.28	0.065			
BS L1N 300E Orig	0.54	< 0.3	29.2	27	0.1	< 0.3	< 1	26.8	30	17.7	19	114	116	0.02	7.84	1180	1.4	1	0.25	< 2	0.82	11.5	> 10.0
BS L1N 300E Dup	0.75	0.9	27.7	25	0.2	< 0.3	< 1	27.1	27	18.1	20	118	115	0.03	7.93	1230	1.5	1	0.26	< 2	0.80	11.4	> 10.0
BS L2N 225E Orig	0.74	0.6	61.1	57	0.5	< 0.3	< 1	37.6	41	26.4	27	180	180	0.02	8.35	1470	1.7	2	0.40	< 2	0.95	19.7	> 10.0
BS L2N 225E Dup	0.77	0.8	60.6	59	0.5	0.4	< 1	37.1	39	26.3	27	181	181	0.02	8.41	1480	1.7	2	0.39	< 2	0.96	19.4	> 10.0
BS L3N 400E Orig	0.59	0.8	21.0	18	0.3	0.4	3	27.0	19	18.8	19	113	105	0.01	7.46	1240	2.4	2	0.26	< 2	0.86	12.3	> 10.0
BS L3N 400E Dup	0.47	1.0	21.6	20	0.3	< 0.3	2	27.5	25	18.2	19	113	107	0.02	7.81	1230	2.4	2	0.27	< 2	0.88	12.2	> 10.0

Analyte Symbol	Ag	Ag	Cu	Cu	Cd	Cd	Mo	Pb	Pb	Ni	Ni	Zn	Zn	S	Al	Ba	Be	Be	Bi	Bi	Ca	Co	Cr
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
Lower Limit	0.05	0.3	0.2	1	0.1	0.3	1	0.5	3	0.5	1	0.5	1	0.01	0.01	1	0.1	1	0.02	2	0.01	0.1	1
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-MS
PM18-192S Orig	26.4	26.6	1400	1370	2.3	1.4	11	960	1020	3.3	8	855	859	1.45	5.06	133	0.9	< 1	7.33	5	0.09	16.7	> 10.0
PM18-192S Dup	26.0	26.2	1340	1310	2.3	2.0	9	999	1010	3.0	7	826	840	1.44	4.94	177	0.8	< 1	7.96	5	0.09	16.3	> 10.0
LT18-308T Orig	0.80	0.7	29.0	26	1.5	1.5	2	33.4	28	14.4	15	231	222	0.10	7.92	2820	1.7	1	0.11	< 2	1.41	10.6	> 10.0
LT18-308T Dup	0.73	0.6	20.7	18	1.5	1.7	< 1	34.1	32	15.1	15	229	224	0.11	7.87	2800	1.6	1	0.14	< 2	1.39	10.5	> 10.0
PM18-146T Orig	0.68	0.7	25.7	26	0.5	0.6	14	28.3	16	6.4	8	127	122	0.08	8.89	786	1.5	1	0.87	< 2	1.67	38.1	> 10.0
PM18-146T Dup	0.60	0.3	24.6	23	0.5	0.5	< 1	26.7	21	6.2	8	122	118	0.07	6.67	787	1.7	1	0.77	< 2	1.71	35.7	10
PM18-118M Orig	0.45	0.3	22.5	28	1.0	0.9	< 1	15.2	12	5.7	7	142	124	0.14	7.64	1850	1.4	1	0.20	< 2	1.65	18.1	> 10.0
PM18-118M Dup		< 0.3		19		1.2	< 1		10		6		136	0.14	7.83			1		3	1.65		
KD18-355PC Orig	21.5	23.7	168	130	14.4	13.3	4	1700	1770	9.4	14	1650	1380	4.27	6.39	26	2.6	2	1.37	< 2	1.04	25.9	> 10.0
PM18-143PC Orig	1.43	1.2	81.8	65	1.7	1.8	8	117	65	17.6	18	464	428	0.66	6.69	469	1.4	1	1.89	< 2	2.21	21.7	> 10.0
Method Blank	< 0.05	< 0.3	< 0.2	< 1	< 0.1	< 0.3	< 1	1.6	< 3	< 0.5	< 1	1.4	< 1	< 0.01	0.01	2	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1
Method Blank	0.14	< 0.3	< 0.2	< 1	< 0.1	< 0.3	< 1	1.1	< 3	< 0.5	< 1	< 0.5	4	< 0.01	< 0.01	1	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1
Method Blank	0.10	< 0.3	< 0.2	< 1	< 0.1	< 0.3	< 1	< 0.5	< 3	< 0.5	< 1	0.8	4	< 0.01	< 0.01	< 1	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1
Method Blank	< 0.05	< 0.3	< 0.2	< 1	< 0.1	< 0.3	< 1	2.6	< 3	< 0.5	< 1	0.9	< 1	< 0.01	< 0.01	< 1	< 0.1	< 1	< 0.02	< 2	< 0.01	< 0.1	< 1
Method Blank	< 0.05		< 0.2		< 0.1			2.6		< 0.5		0.9				< 1	< 0.1		< 0.02			< 0.1	< 1
Method Blank		< 0.3		< 1		< 0.3	< 1		< 3		< 1		1	< 0.01	< 0.01				< 1		< 2	< 0.01	
Method Blank		< 0.3		< 1		< 0.3	< 1		4		< 1		1	< 0.01	< 0.01			< 1		< 2	< 0.01		

Analyte Symbol	Cs	Hf	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Rb	Re	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U	
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
Lower Limit	0.05	0.1	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.2	0.001	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1	
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	
SDC-1 Meas	3.84	0.9	21.3		< 10		2.31	36.2	0.99	893	0.3	0.057	115			< 1	172	< 0.1		0.13	11.2	0.61	2.6	
SDC-1 Cert	4.00	8.30	21.00		200.00		2.72	34.0	1.02	880.00	21.00	0.0690	127.00			3.00	180.00	1.20		0.606	12.00	0.70	3.10	
SDC-1 Meas	4.00	0.9	21.8		< 10		2.41	37.0	1.01	918	0.3	0.057	115			< 1	168	< 0.1		0.07	11.8	0.63	2.7	
SDC-1 Cert	4.00	8.30	21.00		200.00		2.72	34.0	1.02	880.00	21.00	0.0690	127.00			3.00	180.00	1.20		0.606	12.00	0.70	3.10	
SDC-1 Meas							2.81		0.99	955		0.056								0.22				
SDC-1 Cert							2.72		1.02	880.00		0.0690								0.606				
GXR-6 Meas	3.94	1.9	31.0		20	< 0.1	1.74	38.6	0.61	1040	0.8	0.034	73.2		0.8	< 1	42.8	< 0.1	< 0.1		5.1	1.78	1.3	
GXR-6 Cert	4.20	4.30	35.0		68.0	0.260	1.87	32.0	0.609	1010	7.50	0.0350	90.0		0.940	1.70	35.0	0.485	0.0180		5.30	2.20	1.54	
GXR-6 Meas	3.97	1.9	29.6		10	< 0.1	1.79	38.8	0.63	1080	0.8	0.035	71.3		1.1	< 1	40.7	< 0.1	< 0.1		5.3	1.77	1.3	
GXR-6 Cert	4.20	4.30	35.0		68.0	0.260	1.87	32.0	0.609	1010	7.50	0.0350	90.0		0.940	1.70	35.0	0.485	0.0180		5.30	2.20	1.54	
DNC-1a Meas			14.0					4.7					1.1		2.9						0.27			
DNC-1a Cert			15					5.2					3		5						0.29			
DNC-1a Meas			14.0					4.7					1.1		2.9						0.23			
DNC-1a Cert			15					5.2					3		5						0.29			
DNC-1a Meas																					0.27			
DNC-1a Cert																					0.29			
SBC-1 Meas	8.04	3.2	25.5					159					13.3		132		3	173	0.6		0.50	14.6	0.82	5.2
SBC-1 Cert	8.2	3.7	27.0					163					15.3		147		3.3	178.0	1.10		0.51	15.8	0.89	5.76
SBC-1 Meas	8.26	3.1	25.6					165					13.3		131		3	167	0.6		0.47	15.3	0.83	5.4
SBC-1 Cert	8.2	3.7	27.0					163					15.3		147		3.3	178.0	1.10		0.51	15.8	0.89	5.76
SBC-1 Meas																					0.45			
SBC-1 Cert																					0.51			
OREAS 905 (INAA) Meas																								
OREAS 905 (INAA) Cert																								
OREAS 905 (INAA) Meas																								
OREAS 905 (INAA) Cert																								
OREAS 923 (4 Acid) Meas	6.36	3.3	20.4			0.5	2.18	30.3	1.66	1000	8.0	0.061	152		4.9	13	40.9	< 0.1		0.42	14.5	0.82	2.9	
OREAS 923 (4 Acid) Cert	6.70	3.42	20.3			0.520	2.51	31.4	1.69	950	14.1	0.0630	166		6.54	13.3	43.0	1.11		0.405	16.5	0.860	3.06	
OREAS 923 (4 Acid) Meas	6.69	3.3	19.6			0.5	2.59	31.2	1.69	1050	8.1	0.062	150		5.3	13	39.3	0.1		0.41	15.2	0.85	3.1	
OREAS 923 (4 Acid) Cert	6.70	3.42	20.3			0.520	2.51	31.4	1.69	950	14.1	0.0630	166		6.54	13.3	43.0	1.11		0.405	16.5	0.860	3.06	
OREAS 923 (4 Acid) Meas							2.63		1.70	976		0.061									0.39			
OREAS 923 (4 Acid) Cert							2.51		1.69	950		0.0630									0.405			
OREAS 621 (4 Acid) Meas	3.24	4.2	25.6			1.8	1.50	13.3	0.50	523	9.8	0.036	64.6		5.7	6	70.9			0.18	5.7	2.05	2.6	
OREAS 621 (4 Acid) Meas	3.28	4.41	24.6			1.83	2.20	14.2	0.507	532	8.61	0.0359	84.0		5.64	5.25	91.0			0.149	7.48	1.96	2.83	

Analyte Symbol	Cs	Hf	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Rb	Re	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.2	0.001	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
Acid) Cert																							
OREAS 621 (4 Acid) Meas	3.22	4.1	24.5			1.8	1.51	14.0	0.49	565	9.6	0.036	61.3		5.2	5	65.5			0.18	5.8	2.08	2.6
OREAS 621 (4 Acid) Cert	3.28	4.41	24.6			1.83	2.20	14.2	0.507	532	8.61	0.0359	84.0		5.64	5.25	91.0			0.149	7.48	1.96	2.83
OREAS 925 (4 Acid) Meas	6.28	3.1	17.9			0.7	2.24	31.6	1.78	1040	8.3	0.061	152		8.4	15	34.1	< 0.1		0.41	14.0	0.84	2.8
OREAS 925 (4 Acid) Cert	6.50	3.15	20.3			0.670	2.47	32.3	1.79	990	13.3	0.0620	163		9.07	14.9	36.2	1.06		0.391	16.0	0.870	2.94
OREAS 925 (4 Acid) Meas	6.44	3.2	18.1			0.7	2.49	32.2	1.74	1060	8.6	0.060	150		8.0	16	33.4	< 0.1		0.40	15.3	0.85	2.9
OREAS 925 (4 Acid) Cert	6.50	3.15	20.3			0.670	2.47	32.3	1.79	990	13.3	0.0620	163		9.07	14.9	36.2	1.06		0.391	16.0	0.870	2.94
OREAS 925 (4 Acid) Meas							2.52		1.75	966		0.060								0.39			
OREAS 925 (4 Acid) Cert							2.47		1.79	990		0.0620								0.391			
OREAS 520 (4 Acid) Meas							2.72		1.16	2340		0.070								0.44			
OREAS 520 (4 Acid) Cert							3.46		1.19	2420		0.0740								0.445			
OREAS 520 (4 Acid) Meas							3.34		1.16	2360		0.067								0.36			
OREAS 520 (4 Acid) Cert							3.46		1.19	2420		0.0740								0.445			
OREAS 520 (4 Acid) Meas							3.34		1.15	2300		0.065								0.33			
OREAS 520 (4 Acid) Cert							3.46		1.19	2420		0.0740								0.445			
Oreas 45e (4-Acid) Meas	1.18	3.3	17.2			< 0.1	0.32	4.8	0.15	580	1.5	0.033	19.2		0.9	< 1	14.4	< 0.1		0.55	11.5	0.20	2.3
Oreas 45e (4-Acid) Cert	1.26	3.11	16.5			0.099	0.324	6.58	0.156	550.000	6.80	0.034	21.2		2.97	1.32	15.9	0.56		0.559	12.9	0.15	2.41
Oreas 45e (4-Acid) Meas	1.19	3.1	17.0			< 0.1	0.32	4.8	0.14	549	1.4	0.027	19.2		0.9	< 1	14.0	< 0.1		0.40	11.8	0.18	2.3
Oreas 45e (4-Acid) Cert	1.26	3.11	16.5			0.099	0.324	6.58	0.156	550.000	6.80	0.034	21.2		2.97	1.32	15.9	0.56		0.559	12.9	0.15	2.41
Oreas 45e (4-Acid) Meas							0.33		0.14	557		0.027								0.40			
Oreas 45e (4-Acid) Cert							0.324		0.156	550.000		0.034								0.559			
BS L1N 300E Orig	7.94	0.2	25.4	0.2	60	< 0.1	2.67	26.8	1.04	625	0.2	0.088	90.8	0.002	1.1	< 1	237	< 0.1	< 0.1	0.10	7.1	0.75	3.3
BS L1N 300E Dup	8.18	2.7	23.9	0.3	10	< 0.1	2.64	26.4	1.04	642	0.2	0.095	91.9	< 0.001	1.3	< 1	238	< 0.1	< 0.1	0.18	8.3	0.77	3.4
BS L2N 225E Orig	10.1	1.8	21.0	0.3	< 10	< 0.1	2.87	32.8	1.18	1230	0.2	0.128	91.6	0.003	1.1	1	274	< 0.1	< 0.1	0.23	7.4	0.86	5.0
BS L2N 225E Dup	10.1	2.2	21.3	0.4	< 10	< 0.1	2.80	33.6	1.19	1180	0.2	0.129	94.4	< 0.001	1.2	< 1	279	< 0.1	< 0.1	0.30	7.7	0.88	5.1
BS L3N 400E Orig	6.81	6.8	19.1	0.6	< 10	< 0.1	2.60	27.7	0.95	1420	20.3	0.127	89.6	0.001	1.5	3	229	0.6	< 0.1	0.45	10.3	0.74	4.2
BS L3N 400E Dup	6.85	6.0	20.4	0.5	< 10	< 0.1	2.75	27.1	0.98	1440	4.5	0.129	90.5	0.001	1.3	2	232	< 0.1	< 0.1	0.40	9.7	0.75	4.1

Analyte Symbol	Cs	Hf	Ga	Ge	Hg	In	K	Li	Mg	Mn	Nb	P	Rb	Re	Se	Sn	Sr	Ta	Te	Ti	Th	Tl	U
Unit Symbol	ppm	ppm	ppm	ppm	ppb	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.1	0.1	10	0.1	0.01	0.5	0.01	1	0.1	0.001	0.2	0.001	0.1	1	0.2	0.1	0.1	0.01	0.1	0.05	0.1
Method Code	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS
PM18-192S Orig	8.21	1.5	16.5	0.3	520	0.1	2.29	13.2	0.19	410	4.4	0.086	72.6	0.002	4.9	< 1	80.7	0.1	< 0.1	0.25	6.0	0.66	3.1
PM18-192S Dup	8.38	1.9	15.4	0.3	550	0.1	2.26	13.8	0.18	421	4.1	0.085	68.9	0.001	5.2	< 1	76.1	< 0.1	< 0.1	0.25	5.9	0.63	3.2
LT18-308T Orig	5.50	2.2	11.3	0.8	20	< 0.1	5.05	25.3	0.66	1480	1.5	0.097	146	0.003	0.8	< 1	312	< 0.1	< 0.1	0.35	7.4	1.52	3.6
LT18-308T Dup	5.32	2.0	10.7	0.6	20	< 0.1	5.30	25.1	0.67	1480	0.4	0.098	138	0.003	0.8	< 1	318	< 0.1	< 0.1	0.28	6.7	1.46	3.3
PM18-146T Orig	5.43	0.5	13.0	0.4	30	< 0.1	1.00	21.1	1.36	2560	< 0.1	0.128	36.1	0.001	1.5	< 1	212	< 0.1	< 0.1	0.83	3.7	0.41	1.6
PM18-146T Dup	5.47	0.4	11.8	0.4	20	< 0.1	0.96	20.4	1.33	2400	< 0.1	0.100	34.9	0.001	1.2	< 1	210	< 0.1	< 0.1	0.21	4.3	0.38	1.7
PM18-118M Orig	4.26	2.0	13.9	0.7	< 10	< 0.1	3.14	35.7	1.57	1450	2.6	0.127	87.1	< 0.001	0.5	< 1	398	< 0.1	< 0.1	0.47	6.6	0.60	2.9
PM18-118M Dup							3.12		1.58	1380		0.120								0.25			
KD18-355PC Orig	6.29	2.9	14.0	0.3	250	< 0.1	4.10	22.0	0.54	1820	6.5	0.097	113	0.002	2.4	1	101	< 0.1	< 0.1	0.54	4.2	4.06	6.4
PM18-143PC Orig	3.29	0.8	15.4	0.3	10	0.2	1.53	23.7	1.85	1020	1.8	0.092	49.7	0.002	2.6	1	295	< 0.1	0.1	0.39	4.1	0.54	1.9
Method Blank	< 0.05	< 0.1	0.2	< 0.1	190	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	0.002	0.3	< 1	0.3	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	< 10	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	< 0.001	0.3	< 1	< 0.2	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	20	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	< 0.001	0.2	< 1	< 0.2	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	30	< 0.1	< 0.01	< 0.5	< 0.01		< 0.1	< 0.001	< 0.2	0.002	< 0.1	< 1	< 0.2	< 0.1	< 0.1	< 0.01	< 0.1	< 0.05	< 0.1
Method Blank	< 0.05	< 0.1	< 0.1	< 0.1	30	< 0.1		< 0.5			< 0.1		< 0.2	0.002	< 0.1	< 1	< 0.2	< 0.1	< 0.1		< 0.1	< 0.05	< 0.1
Method Blank							< 0.01		< 0.01			< 0.001								< 0.01			
Method Blank							< 0.01		< 0.01			< 0.001								< 0.01			

Analyte Symbol	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Zn	As	Ba	Co	Cs
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	50	0.5	50	1	1
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	INAA	INAA	INAA	INAA	INAA
SDC-1 Meas	40		31	40.8	86.1		40.1	8.1	1.64	7.3	6.6	1.1	1.3	3.7	0.5	3.1							
SDC-1 Cert	102.00		290.00	42.00	93.00		40.00	8.20	1.70	7.00	6.70	1.20	1.50	4.10	0.65	4.00							
SDC-1 Meas	32		32	41.9	90.5		41.5	8.2	1.53	7.4	6.5	1.1	1.3	3.8	0.6	3.3							
SDC-1 Cert	102.00		290.00	42.00	93.00		40.00	8.20	1.70	7.00	6.70	1.20	1.50	4.10	0.65	4.00							
SDC-1 Meas	52																						
SDC-1 Cert	102.00																						
GXR-6 Meas	101	12.1	68	12.7	32.8		11.9	2.6	0.65	2.5	2.4	0.4				1.5	0.2						
GXR-6 Cert	186	14.0	110	13.9	36.0		13.0	2.67	0.760	2.97	2.80	0.415				2.40	0.330						
GXR-6 Meas	114	12.8	69	12.6	33.7		12.4	2.6	0.63	2.4	2.4	0.4				1.5	0.3						
GXR-6 Cert	186	14.0	110	13.9	36.0		13.0	2.67	0.760	2.97	2.80	0.415				2.40	0.330						
DNC-1a Meas	147	16.4	36	3.7			4.9		0.56							1.9							
DNC-1a Cert	148	18.0	38.0	3.6			5.20		0.59							2.0							
DNC-1a Meas	132	16.4	36	3.7			4.9		0.56							1.9							
DNC-1a Cert	148	18.0	38.0	3.6			5.20		0.59							2.0							
DNC-1a Meas	147																						
DNC-1a Cert	148																						
SBC-1 Meas	221	31.3	108	49.9	103	12.2	46.5	9.2	1.87	8.4	6.8	1.2	1.3	3.6	0.6	3.1	0.5						
SBC-1 Cert	220.0	36.5	134.0	52.5	108.0	12.6	49.2	9.6	1.98	8.5	7.10	1.20	1.40	3.80	0.56	3.64	0.54						
SBC-1 Meas	215	32.7	111	50.8	105	12.8	48.9	9.6	1.90	8.3	6.8	1.2	1.3	3.6	0.6	3.2	0.5						
SBC-1 Cert	220.0	36.5	134.0	52.5	108.0	12.6	49.2	9.6	1.98	8.5	7.10	1.20	1.40	3.80	0.56	3.64	0.54						
SBC-1 Meas	215																						
SBC-1 Cert	220.0																						
OREAS 905 (INAA) Meas																		372	< 50	37.9	2930	16	7
OREAS 905 (INAA) Cert																		391	139	36.2	2800	15.3	7.10
OREAS 905 (INAA) Meas																		373	130	34.5	2660	16	7
OREAS 905 (INAA) Cert																		391	139	36.2	2800	15.3	7.10
OREAS 923 (4 Acid) Meas	97	25.9	115	41.9	80.3	9.5	34.3	6.5	1.30	6.0	5.0	0.8	0.9	2.8	0.4	2.5	0.4						
OREAS 923 (4 Acid) Cert	91.0	26.4	116	42.2	83.0	9.58	35.4	6.64	1.37	5.73	5.05	0.850	0.960	2.86	0.410	2.57	0.390						
OREAS 923 (4 Acid) Meas	99	27.2	117	43.3	83.6	9.5	35.5	6.9	1.29	6.2	5.2	0.9	1.0	2.8	0.4	2.5	0.4						
OREAS 923 (4 Acid) Cert	91.0	26.4	116	42.2	83.0	9.58	35.4	6.64	1.37	5.73	5.05	0.850	0.960	2.86	0.410	2.57	0.390						
OREAS 923 (4 Acid) Meas	94																						
OREAS 923 (4 Acid) Cert	91.0																						
OREAS 621 (4 Acid) Meas	35	11.8	155	20.8	46.8							0.5				0.9	0.1						
OREAS 621 (4 Acid) Meas	31.8	11.1	168	21.6	46.6							0.460				0.990	0.140						

Analyte Symbol	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Zn	As	Ba	Co	Cs
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	50	0.5	50	1	1
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	INAA	INAA	INAA	INAA	INAA
Acid) Cert																							
OREAS 621 (4 Acid) Meas	34	12.0	151	20.9	46.4							0.5					0.9	0.1					
OREAS 621 (4 Acid) Cert	31.8	11.1	168	21.6	46.6							0.460					0.990	0.140					
OREAS 925 (4 Acid) Meas	98	23.9	106	40.1	76.8	9.1	33.1	6.2	1.24	5.8	4.8	0.8	0.9	2.6	0.4		2.3	0.4					
OREAS 925 (4 Acid) Cert	91.0	24.6	106	41.3	82.0	9.36	34.8	6.51	1.28	5.58	4.82	0.810	0.930	2.70	0.390		2.43	0.380					
OREAS 925 (4 Acid) Meas	96	25.6	110	41.3	81.2	9.6	35.1	6.5	1.24	5.8	4.8	0.8	0.9	2.8	0.4		2.4	0.4					
OREAS 925 (4 Acid) Cert	91.0	24.6	106	41.3	82.0	9.36	34.8	6.51	1.28	5.58	4.82	0.810	0.930	2.70	0.390		2.43	0.380					
OREAS 925 (4 Acid) Meas	96																						
OREAS 925 (4 Acid) Cert	91.0																						
OREAS 520 (4 Acid) Meas	256																						
OREAS 520 (4 Acid) Cert	257																						
OREAS 520 (4 Acid) Meas	244																						
OREAS 520 (4 Acid) Cert	257																						
OREAS 520 (4 Acid) Meas	226																						
OREAS 520 (4 Acid) Cert	257																						
Oreas 45e (4-Acid) Meas	323	7.8	111	10.4	22.2	2.4	8.8	2.0		2.0	2.0			1.1		1.1	0.2						
Oreas 45e (4-Acid) Cert	322	8.28	110	11.0	23.5	2.57	9.57	2.28		1.99	2.05			1.20		1.19	0.17						
Oreas 45e (4-Acid) Meas	278	8.1	111	10.5	22.8	2.5	8.9	2.0		2.0	2.0			1.1		1.1	0.2						
Oreas 45e (4-Acid) Cert	322	8.28	110	11.0	23.5	2.57	9.57	2.28		1.99	2.05			1.20		1.19	0.17						
Oreas 45e (4-Acid) Meas	287																						
Oreas 45e (4-Acid) Cert	322																						
BS L1N 300E Orig	71	20.1	17	24.4	49.0	5.7	22.3	4.6	1.04	4.2	3.6	0.6	0.7	2.2	0.3	2.1	0.3						
BS L1N 300E Dup	96	20.5	110	25.2	49.9	5.8	22.2	4.6	1.08	4.3	3.9	0.6	0.7	2.2	0.3	2.2	0.3						
BS L2N 225E Orig	120	27.5	80	28.5	59.7	6.8	26.6	5.7	1.42	5.7	5.0	0.8	1.0	2.8	0.4	2.5	0.4						
BS L2N 225E Dup	131	27.5	94	28.6	58.3	6.9	27.0	5.8	1.45	5.8	4.9	0.8	0.9	2.8	0.4	2.5	0.4						
BS L3N 400E Orig	145	27.8	281	34.0	72.6	8.6	32.8	6.8	1.23	6.4	5.8	0.9	1.1	3.1	0.5	2.8	0.4						
BS L3N 400E Dup	134	28.3	257	34.6	72.8	8.6	32.9	6.8	1.23	6.2	6.0	1.0	1.1	3.2	0.5	2.9	0.4						

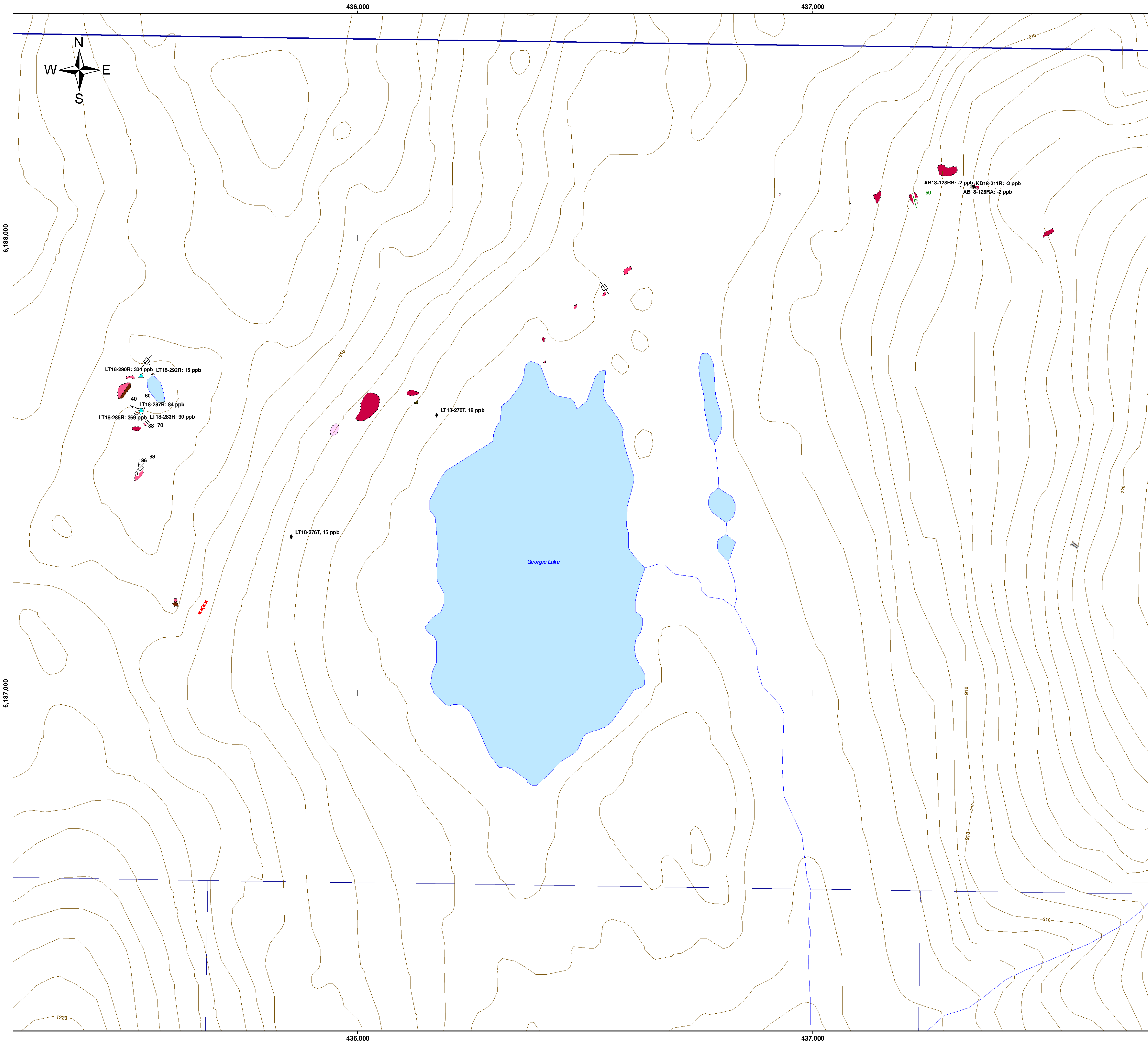
Analyte Symbol	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Dy	Tb	Ho	Er	Tm	Yb	Lu	Au	Zn	As	Ba	Co	Cs
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	0.1	1	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	2	50	0.5	50	1	1
Method Code	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	INAA	INAA	INAA	INAA	INAA	INAA
PM18-192S Orig	130	8.7	63	22.8	41.5	4.7	16.8	3.0	0.49	2.3	1.6	0.3	0.3	1.0	0.2	1.1	0.2						
PM18-192S Dup	129	8.2	67	21.9	40.5	4.6	17.1	3.1	0.50	2.5	1.6	0.3	0.3	1.0	0.2	1.1	0.2						
LT18-308T Orig	121	20.2	90	25.6	48.7	6.1	23.9	4.8	1.32	4.5	3.6	0.6	0.7	2.2	0.3	1.9	0.3						
LT18-308T Dup	110	20.3	83	24.3	46.1	5.7	22.6	4.7	1.20	4.2	3.6	0.6	0.7	2.1	0.3	1.9	0.3						
PM18-146T Orig	333	16.5	21	18.3	36.1	4.4	17.9	3.8	1.15	3.7	3.2	0.5	0.6	1.7	0.3	1.4	0.2						
PM18-146T Dup	140	16.7	16	20.7	40.9	4.9	19.4	4.0	1.17	3.8	3.4	0.6	0.6	1.8	0.3	1.4	0.2						
PM18-118M Orig	250	21.0	84	28.3	53.6	6.4	24.9	5.0	1.49	4.6	4.0	0.6	0.8	2.3	0.3	1.9	0.3						
PM18-118M Dup	168																						
KD18-355PC Orig	187	19.5	110	14.9	50.2	7.2	30.6	6.0	1.46	5.2	3.8	0.7	0.8	2.2	0.3	2.2	0.3						
PM18-143PC Orig	184	15.2	28	26.6	48.7	5.6	22.6	4.5	1.15	4.2	3.0	0.6	0.6	1.6	0.2	1.5	0.2						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1						
Method Blank	< 2																						
Method Blank	< 2																						

Analyte Symbol	Eu	Hf	Rb	Sb	Ta	Tb	Th	U	W	La	Ce	Nd	Sm	Yb	Fe
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.2	1	15	0.1	0.5	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2	0.01
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
SDC-1 Meas															
SDC-1 Cert															
SDC-1 Meas															
SDC-1 Cert															
SDC-1 Meas															
SDC-1 Cert															
GXR-6 Meas															
GXR-6 Cert															
GXR-6 Meas															
GXR-6 Cert															
DNC-1a Meas															
DNC-1a Cert															
DNC-1a Meas															
DNC-1a Cert															
DNC-1a Meas															
DNC-1a Cert															
SBC-1 Meas															
SBC-1 Cert															
SBC-1 Meas															
SBC-1 Cert															
SBC-1 Meas															
SBC-1 Cert															
OREAS 905 (INAA) Meas	1.4	7	130	1.9	< 0.5	< 0.5	14.0	4.8	< 1	47.5	94	39	7.6	< 0.2	4.03
OREAS 905 (INAA) Cert	1.46	7.26	137	1.96	1.38	0.810	14.7	5.00	3.02	48.0	96.0	40.5	7.64	0.760	4.23
OREAS 905 (INAA) Meas	1.4	7	143	2.0	< 0.5	< 0.5	14.9	5.2	< 1	45.7	91	39	7.3	0.7	4.03
OREAS 905 (INAA) Cert	1.46	7.26	137	1.96	1.38	0.810	14.7	5.00	3.02	48.0	96.0	40.5	7.64	0.760	4.23
OREAS 923 (4 Acid) Meas															
OREAS 923 (4 Acid) Cert															
OREAS 923 (4 Acid) Meas															
OREAS 923 (4 Acid) Cert															
OREAS 923 (4 Acid) Meas															
OREAS 923 (4 Acid) Cert															
OREAS 621 (4 Acid) Meas															
OREAS 621 (4 Acid) Cert															

Analyte Symbol	Eu	Hf	Rb	Sb	Ta	Tb	Th	U	W	La	Ce	Nd	Sm	Yb	Fe
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.2	1	15	0.1	0.5	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2	0.01
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
Acid) Cert															
OREAS 621 (4 Acid) Meas															
OREAS 621 (4 Acid) Cert															
OREAS 925 (4 Acid) Meas															
OREAS 925 (4 Acid) Cert															
OREAS 925 (4 Acid) Meas															
OREAS 925 (4 Acid) Cert															
OREAS 925 (4 Acid) Meas															
OREAS 925 (4 Acid) Cert															
OREAS 925 (4 Acid) Meas															
OREAS 925 (4 Acid) Cert															
OREAS 520 (4 Acid) Meas															
OREAS 520 (4 Acid) Cert															
OREAS 520 (4 Acid) Meas															
OREAS 520 (4 Acid) Cert															
OREAS 520 (4 Acid) Meas															
OREAS 520 (4 Acid) Cert															
Oreas 45e (4-Acid) Meas															
Oreas 45e (4-Acid) Cert															
Oreas 45e (4-Acid) Meas															
Oreas 45e (4-Acid) Cert															
Oreas 45e (4-Acid) Meas															
Oreas 45e (4-Acid) Cert															
BS L1N 300E Orig															
BS L1N 300E Dup															
BS L2N 225E Orig															
BS L2N 225E Dup															
BS L3N 400E Orig															
BS L3N 400E Dup															

Analyte Symbol	Eu	Hf	Rb	Sb	Ta	Tb	Th	U	W	La	Ce	Nd	Sm	Yb	Fe
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.2	1	15	0.1	0.5	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2	0.01
Method Code	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA	INAA
PM18-192S Orig															
PM18-192S Dup															
LT18-308T Orig															
LT18-308T Dup															
PM18-146T Orig															
PM18-146T Dup															
PM18-118M Orig															
PM18-118M Dup															
KD18-355PC Orig															
PM18-143PC Orig															
Method Blank															
Method Blank															
Method Blank															
Method Blank															
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Method Blank															
Method Blank															

**Map 1: Mapped geology, rock and stream sediment sampling
Exdale area
1:4,000**

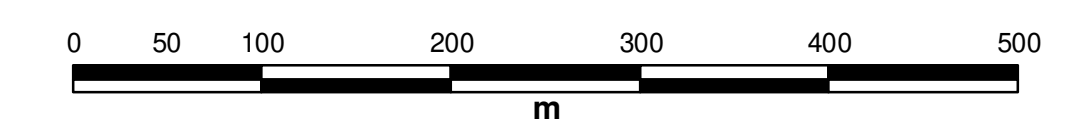


- Topography**
- Contour; 30 m (100 ft) interval
 - Watercourse
 - Waterbody
 - Adit portal
- Auramex mineral tenure**
- Georgie River property boundary
 - Tenure boundaries
- 2018 rock samples, labelled by sample number, Au (ppb)**
- Au_ppb**
- 2 - 100
 - 101 - 250
 - 251 - 500
 - 501 - 1,500
 - 1,501 - 5,000
 - 5,001 - 10,000
 - 10,001 - 13,500
 - 13,501 - 30,000
- 2018 sediment samples, labelled by sample number, Au (ppb)**
- silt
 - soil
 - moss mat
- Geological units**
- Eocene, Hyder Suite, quartz monzonite dyke
 - Early Jurassic, mineralization, quartz + sulphide vein or breccia
 - Early Jurassic, mineralization, silica flooding and/or veining
 - Early Jurassic, alteration, hornfels after Stuhini Group
 - Early Jurassic, alteration, quartz+sericite alteration
 - Early Jurassic, (inferred), apite dyke
 - Early Jurassic, (inferred), quartz+feldspar-phryic intrusion
 - Early Jurassic, undefined, intrusive rock
 - Early Jurassic, Dodd-Theny Porphyry, quartz-phryic intrusion
 - Early Jurassic, Colling Ridge Porphyry, plagioclase + hornblende phryic monzonite
 - Early Jurassic, Bulldog Creek Pluton, feldspar-megacrystic hornblende quartz diorite
 - Early Jurassic, Bulldog Creek Pluton, hornblende quartz diorite
 - Early Jurassic, Bulldog Creek Pluton, hornblende diorite
 - Triassic, Stuhini Group, sericite ± chlorite phyllite
 - Triassic, Stuhini Group, fine-grained clastic sedimentary rocks
 - Triassic, Stuhini Group, sand-sized clastic sedimentary rocks
 - Triassic, Stuhini Group, clastic sedimentary rocks
 - Triassic, Stuhini Group, epiclastic rocks
 - Triassic, Stuhini Group, volcanic agglomerate
 - Triassic, Stuhini Group, volcanic breccia
 - Triassic, Stuhini Group, volcanic rock
 - Triassic, Stuhini Group, mafic volcanic rock
- Structural measurements type**
- Bedding, inclined
 - Banding, inclined
 - Contact, stratigraphic, inclined
 - Contact, intrusive, inclined
 - Contact, intrusive, trend
 - Contact, structural, inclined
 - Fault, dextral, inclined
 - Fault, dextral, vertical
 - Fault, normal
 - Fault, reverse
 - Fault, indeterminate, inclined
 - Fold axial plane, inclined
 - Fold axial plane, vertical
 - Fold axis
 - Cleavage, inclined
 - Foliation, inclined
 - Fracture, inclined
 - Fracture, vertical
 - Joint, inclined
 - Joint, vertical
 - Shear, dextral, inclined
 - Slickenline
 - Vein, inclined
 - Vein, vertical
 - Vein, trend

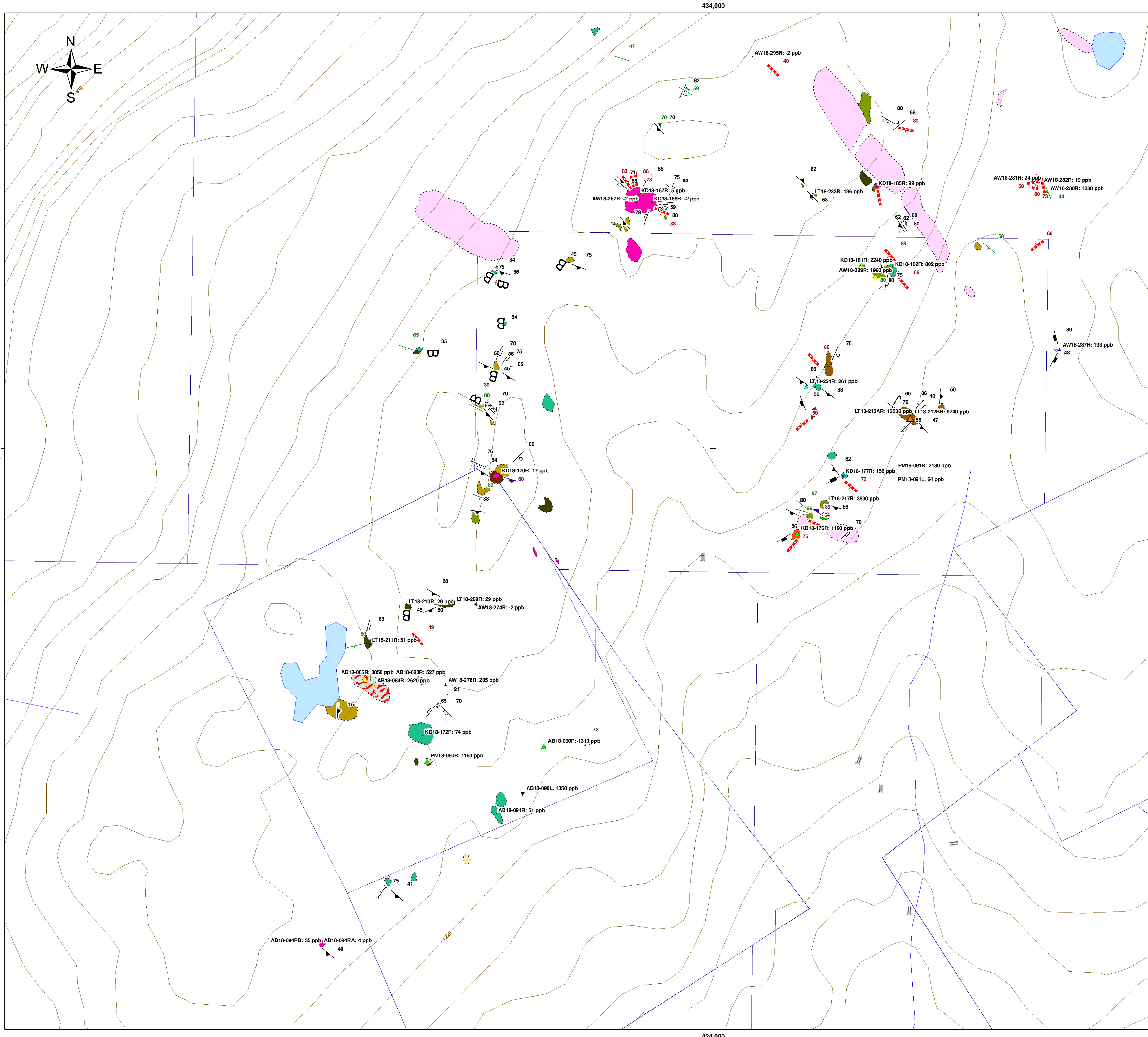
Universal Transverse Mercator (UTM) projection (Zone 9)
using the 1983 North American Datum (NAD'83)

UTM North (shown) is 359.12 True (0.88 degees W. of true North)

Geological mapping by A. Wilkins, L. Theny, K. Dodd, A. Bryson and P. Metcalfe, 2018
Compiled by: P. Metcalfe



**Map 2: Mapped geology, rock and stream sediment sampling
Hume Creek – Georgia River Mine areas
1:2,500**



Topography

- Contour; 30 m (100 ft) interval
- Watercourse
- Waterbody
- Adit portal

Auramex mineral tenure

- Georgia River property boundary
- Tenure boundaries

2018 rock samples, labelled by sample number, Au (ppb)

Au ppb

- 2 - 100
- 101 - 250
- 251 - 500
- 501 - 1,500
- 1,501 - 5,000
- 5,001 - 10,000
- 10,001 - 13,500
- 13,501 - 30,000

2018 sediment samples, labelled by sample number, Au (ppb)

- silt
- soil
- moss mat

Geological units

- Eocene, Hyder Suite, quartz monzonite dyke
- Early Jurassic, mineralization, quartz + sulphide vein or breccia
- Early Jurassic, mineralization, silica flooding and/or veining
- Early Jurassic, alteration, hornfels after Stuhini Group
- Early Jurassic, alteration, quartz+sericite alteration
- Early Jurassic, (inferred), apite dyke
- Early Jurassic, (inferred), quartz+feldspar-phryic intrusion
- Early Jurassic, undefined, intrusive rock
- Early Jurassic, Dodd-Thery Porphyry, quartz-phryic intrusion
- Early Jurassic, Colling Ridge Porphyry, plagioclase + hornblende phryic monzonite
- Early Jurassic, Bulldog Creek Pluton, feldspar-megacrystic hornblende quartz diorite
- Early Jurassic, Bulldog Creek Pluton, hornblende quartz diorite
- Early Jurassic, Bulldog Creek Pluton, hornblende diorite
- Triassic, Stuhini Group, sericite ± chlorite phyllite
- Triassic, Stuhini Group, fine-grained clastic sedimentary rocks
- Triassic, Stuhini Group, sand-sized clastic sedimentary rocks
- Triassic, Stuhini Group, clastic sedimentary rocks
- Triassic, Stuhini Group, epiclastic rocks
- Triassic, Stuhini Group, volcanic agglomerate
- Triassic, Stuhini Group, volcanic breccia
- Triassic, Stuhini Group, volcanic rock
- Triassic, Stuhini Group, mafic volcanic rock

Structural measurements type

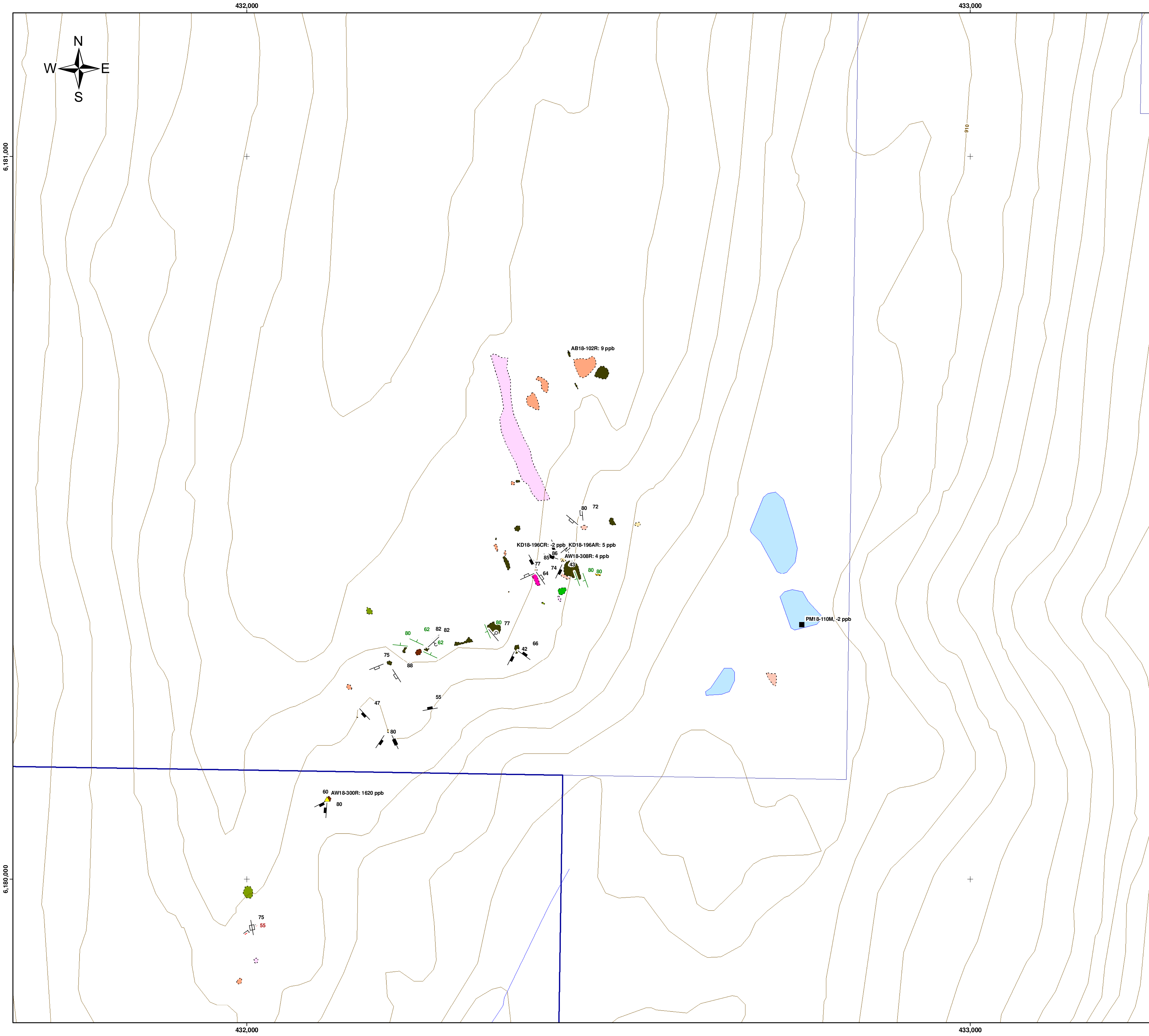
- Bedding, inclined
- Banding, inclined
- Contact, stratigraphic, inclined
- Contact, intrusive, inclined
- Contact, intrusive, trend
- Contact, structural, inclined
- Fault, dextral, inclined
- Fault, dextral, vertical
- Fault, normal
- Fault, reverse
- Fault, indeterminate, inclined
- Fold axial plane, inclined
- Fold axial plane, vertical
- Fold axis
- Cleavage, inclined
- Foliation, inclined
- Fracture, inclined
- Fracture, vertical
- Joint, inclined
- Joint, vertical
- Shear, dextral, inclined
- Slickenline
- Vein, inclined
- Vein, vertical
- Vein, trend

Universal Transverse Mercator (UTM) projection (Zone 9)
using the 1983 North American Datum (NAD'83)

UTM North (shown) is 359.12 True (0.88 degees W. of true North)

Geological mapping by A. Wilkins, L. Theny, K. Dodd, A. Bryson and P. Metcalfe, 2018
Compiled by: P. Metcalfe

**Map 3: Mapped geology, rock and stream sediment sampling
Anomaly 2 area
1:2,500**



Topography

- Contour; 30 m (100 ft) interval
- Watercourse
- Waterbody
- Adit portal

Auramex mineral tenure

- Georgie River property boundary
- Tenure boundaries

2018 rock samples, labelled by sample number, Au (ppb)

- 2 - 100
- 101 - 250
- 251 - 500
- 501 - 1,500
- 1,501 - 5,000
- 5,001 - 10,000
- 10,001 - 13,500
- 13,501 - 30,000

2018 sediment samples, labelled by sample number, Au (ppb)

- silt
- soil
- moss mat

Geological units

- Eocene, Hyder Suite, quartz monzonite dyke
- Early Jurassic, mineralization, quartz + sulphide vein or breccia
- Early Jurassic, mineralization, silica flooding and/or veining
- Early Jurassic, alteration, hornfels after Stuhini Group
- Early Jurassic, alteration, quartz-sericite alteration
- Early Jurassic, (inferred), aplite dyke
- Early Jurassic, (inferred), quartz+feldspar-phryic intrusion
- Early Jurassic, undefined, intrusive rock
- Early Jurassic, Dodd-Theny Porphyry, quartz-phryic intrusion
- Early Jurassic, Colling Ridge Porphyry, plagioclase + hornblende phryic monzonite
- Early Jurassic, Bulldog Creek Pluton, feldspar-megacrystic hornblende quartz diorite
- Early Jurassic, Bulldog Creek Pluton, hornblende quartz diorite
- Early Jurassic, Bulldog Creek Pluton, hornblende diorite
- Triassic, Stuhini Group, sericite ± chlorite phyllite
- Triassic, Stuhini Group, fine-grained clastic sedimentary rocks
- Triassic, Stuhini Group, sand-sized clastic sedimentary rocks
- Triassic, Stuhini Group, clastic sedimentary rocks
- Triassic, Stuhini Group, epiclastic rocks
- Triassic, Stuhini Group, volcanic agglomerate
- Triassic, Stuhini Group, volcanic breccia
- Triassic, Stuhini Group, volcanic rock
- Triassic, Stuhini Group, mafic volcanic rock

Structural measurements type

- Bedding, inclined
- Banding, inclined
- Contact, stratigraphic, inclined
- Contact, intrusive, inclined
- Contact, intrusive, trend
- Contact, structural, inclined
- Fault, dextral, inclined
- Fault, dextral, vertical
- Fault, normal
- Fault, reverse
- Fault, indeterminate, inclined
- Fold axial plane, inclined
- Fold axial plane, vertical
- Fold axis
- Cleavage, inclined
- Foliation, inclined
- Fracture, inclined
- Fracture, vertical
- Joint, inclined
- Joint, vertical
- Shear, dextral, inclined
- Slickenline
- Vein, inclined
- Vein, vertical
- Vein, trend

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