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WIRE LAKE PROJECT



**WORK REPORT OF THE
2018 DRILLING PROGRAM
ON THE WIRE LAKE PROJECT,
HEMLO AREA, ONTARIO
For
CANADIAN OREBODIES INC.**

NTS Map Sheets 42/C12, 42/C13, 42/D09, 42/D16

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February 2020

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1.0 INTRODUCTION

From September to October 2018 a diamond drill gold exploration program was carried out on Canadian Orebodies Inc.'s Wire Lake Project that is located in the Hemlo Area of north-western Ontario.

The Wire Lake Project is located approximately 15 kilometres northeast of the town of Marathon.

The work performed on the Wire Lake Project consisted of diamond drilling, six holes (1093m), primarily testing surface targets identified during the 2017 Field season. All of the work was carried out on the Wire Lake Main Claim Group (see below).

1.1 Property Description, Location, and Access

Canadian Orebodies Inc.'s Wire Lake Project is located northeast of Lake Superior in north-western Ontario (see **Figure 1.1.1**). The property is situated approximately 15 kilometres northeast of the town of Marathon, and the exploration camp site on Wire Lake is located approximately 10.5 kilometers to the northeast of the Marathon Airport. Winter access to the camp is available through a series of snowmobile trails that can be accessed off Highway 17 approximately 1.7 kilometers west of Black River (see **Figure 1.1.2**).

The Wire Lake Project is comprised of 245 staked claim-cell units in 3 claim groups (Cirrus Lake, Goodchild Lake, and the Wire Lake Main Claim Groups). (see **Figure 1.1.3 and Table 1.1.1 to Table 1.1.3**). The property lies within the traditional territories of the Heron Bay and Pic Moberg First Nations.

The center of the property lies at UTM (NAD83 Zone 16) 585,000 mE and 5,407,000 mN. The project area is currently bounded by the following geographic coordinates, 48°52 N. and 48°46 N. and 85°59 W. and 85°40 W.

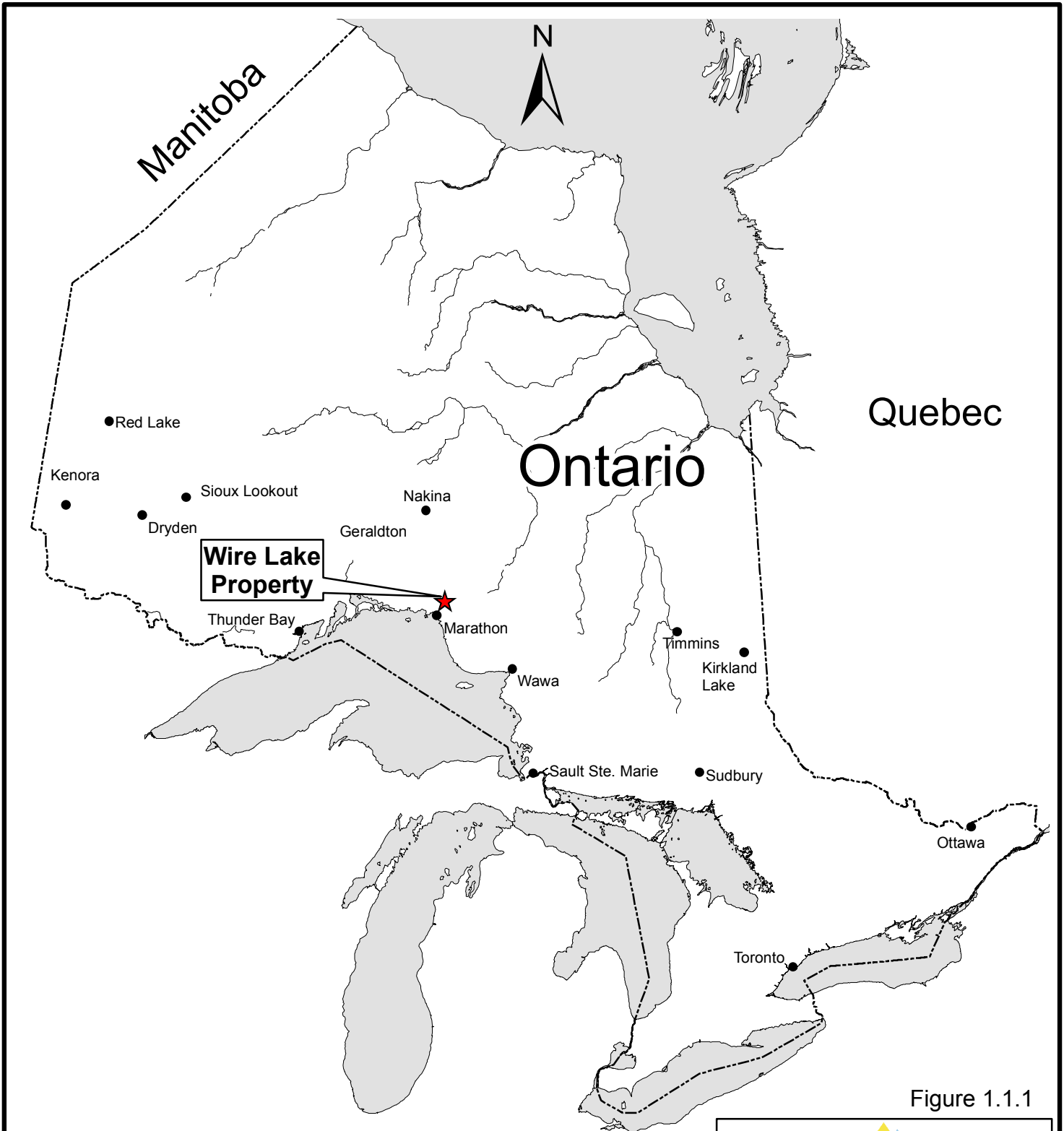



Figure 1.1.1

 CANADIANOREBODIES	
<h3>Wire Lake Property General Location Map</h3>	
Date: December, 2018	Name: TS
File: ontloc_dec2018_WL	

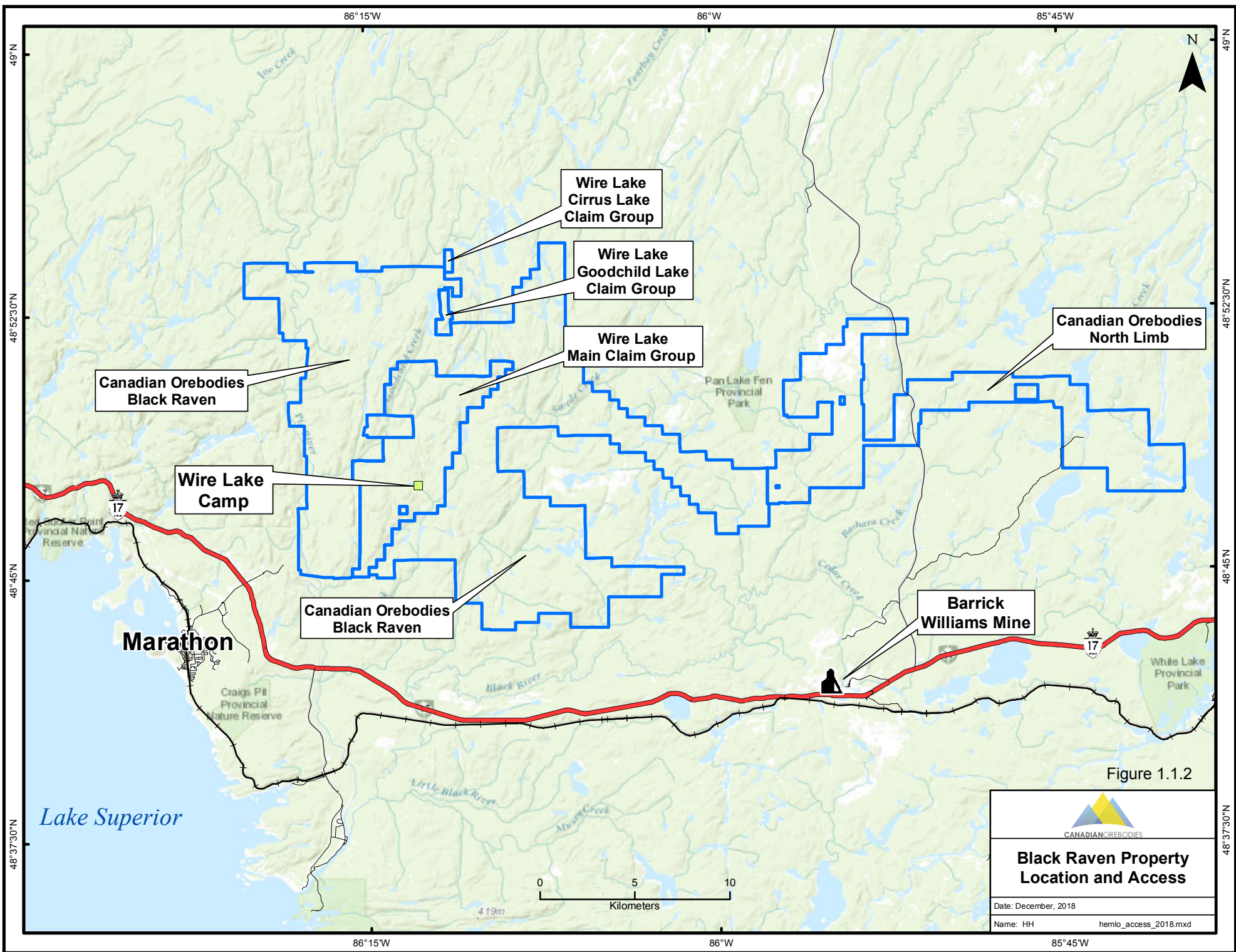



Figure 1.1.2


CANADIAN OREBODIES

**Black Raven Property
Location and Access**

Date: December, 2018

Name: HH hemlo_access_2018.mxd

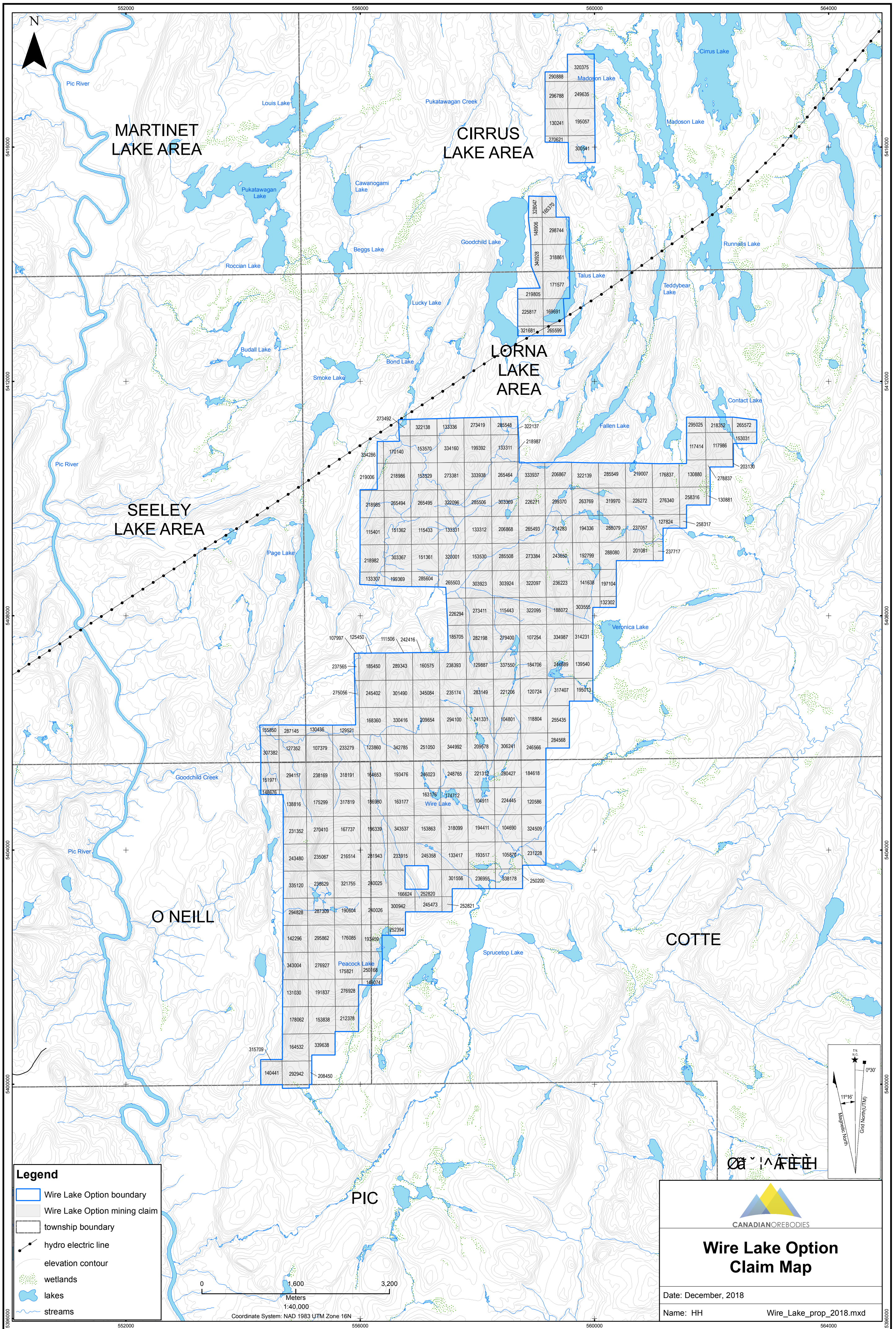


Table 1.1.1: List of Mining Claims Wire Lake Property (Wire Lake Main Claim-Cell Group)

Claim ID	Cell Type	Active	Date of Issue	Date of Expiry	% Held	Ownership
104690	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
104801	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
104911	Single Cell Mining Claim	Active	20180410	20250221	100	All-Terrain Track Sales & Services Ltd.
105870	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
107254	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
107379	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
107997	Boundary Cell Mining Claim	Active	20180410	20190815	100	All-Terrain Track Sales & Services Ltd.
111506	Boundary Cell Mining Claim	Active	20180410	20190815	100	All-Terrain Track Sales & Services Ltd.
115401	Boundary Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
115433	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
115443	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
117414	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
117986	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
118804	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
120586	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
120724	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
123860	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
125450	Boundary Cell Mining Claim	Active	20180410	20190815	100	All-Terrain Track Sales & Services Ltd.
127352	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
127824	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
129521	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
129887	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
130436	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
130880	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
130881	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
131030	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
132302	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
133307	Boundary Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
133311	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
133312	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
133331	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
133336	Boundary Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
133417	Single Cell Mining Claim	Active	20180410	20191012	100	All-Terrain Track Sales & Services Ltd.
138816	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
139540	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
140441	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
141638	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
142296	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
148676	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
149074	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
151361	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
151362	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
151971	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
153031	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
153529	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
153530	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.

303923	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
303924	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
306241	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
307382	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
314231	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
315709	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
317407	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
317819	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
318099	Single Cell Mining Claim	Active	20180410	20191012	100	All-Terrain Track Sales & Services Ltd.
318191	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
319970	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
320001	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
321755	Single Cell Mining Claim	Active	20180410	20191012	100	All-Terrain Track Sales & Services Ltd.
322095	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
322096	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
322097	Single Cell Mining Claim	Active	20180410	20190512	100	All-Terrain Track Sales & Services Ltd.
322137	Boundary Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
322138	Boundary Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
322139	Boundary Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
324509	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
330416	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
333937	Boundary Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
333938	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
334160	Single Cell Mining Claim	Active	20180410	20191026	100	All-Terrain Track Sales & Services Ltd.
334286	Boundary Cell Mining Claim	Active	20180410	20191012	100	All-Terrain Track Sales & Services Ltd.
334987	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
335120	Boundary Cell Mining Claim	Active	20180410	20191012	100	All-Terrain Track Sales & Services Ltd.
337550	Single Cell Mining Claim	Active	20180410	20200222	100	All-Terrain Track Sales & Services Ltd.
338178	Boundary Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
339638	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
342785	Single Cell Mining Claim	Active	20180410	20200325	100	All-Terrain Track Sales & Services Ltd.
343004	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
343537	Single Cell Mining Claim	Active	20180410	20191012	100	All-Terrain Track Sales & Services Ltd.
344992	Single Cell Mining Claim	Active	20180410	20250325	100	All-Terrain Track Sales & Services Ltd.
345084	Single Cell Mining Claim	Active	20180410	20240814	100	All-Terrain Track Sales & Services Ltd.

Table 1.1.2: List of Mining Claims Wire Lake Property (Goodchild Lake Claim-Cell Group)

Claim ID	Cell Type	Active	Date of Issue	Date of Expiry	% Held	Ownership
148906	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
165370	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
169691	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
171577	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
219805	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
225817	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
265599	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
298744	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
318861	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
321681	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
328047	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
340928	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.

Table 1.1.3: List of Mining Claims Wire Lake Property (Cirrus Lake Claim-Cell Group)

Claim ID	Cell Type	Active	Date of Issue	Date of Expiry	% Held	Ownership
130241	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
195057	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
249635	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
270621	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
290888	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
296788	Boundary Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
300541	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.
320375	Single Cell Mining Claim	Active	20180410	20191125	100	All-Terrain Track Sales & Services Ltd.

1.2 Climate, Local Resources, Infrastructure and Physiography

The Wire Lake Property is located within the Canadian Shield, which is a major physiographic division of Canada. The property is situated in an area of swamps, small lakes, and moderate to steep hills, with scattered to locally moderate outcrop. Elevation across the project area ranges from 275 m to 450 m.

The Property is covered with a thick secondary growth of birch, balsam fir, black spruce, red cedar and some jack pine and poplar. The underbrush can be very dense with intergrowths of maple, alder, and hazel.

The Wire Lake Property is situated ~15 km northeast of the town of Marathon, Ontario (population 3300), and 30 km northwest of the producing gold mine at Hemlo. Access for the 2017 summer exploration program was by helicopter based out of the Wire Lake exploration camp.

Marathon is approximately 350 km east of Thunder Bay, Ontario (population ~110,000) along Trans-Canada Hwy 17. Thunder Bay is serviced by many airlines, with daily flights to major cities in Canada such as Toronto and Winnipeg, allowing easy connections to other Canadian cities and international destinations.

Climate in the area is typical of Northern Ontario, with cold winters and warm summers. Average January minimum temperatures range from -18°C to -32°C, and average July temperatures are between 24°C and 32°C. Work can be done (subject to snow and freezing) for most of the year. Certain mapping, mechanized stripping, and soil sampling activities are best performed in snow-free conditions, whereas drilling can occur any time of the year.

Adequate water for drilling is available at several different locations throughout the Property and a major east-west trending Hydro Transmission line also passes through the northern portion of the Wire Lake Main claim block

Most supplies and services such as groceries, hardware, and accommodation are available in Marathon, or Manitowadge. Both Marathon and Manitowadge have been mining centers serving exploration and mining activities at the Hemlo and past producing Geco Mines for more than 40 years.

Major supplies and services are available in Thunder Bay. Local experienced labour is readily available. Thunder Bay is the main Mineral Titles center and has topographic and geological maps through both the Ministry of Northern Development and Mines (MNDM) and the Ministry of Natural Resources (MNR), both with regional offices located in Thunder Bay. ALS Chemex, and Activation Laboratories are full-service analytical companies with preparation facilities +/- analytical facilities also in Thunder Bay.

1.3 Personnel

Stephen MacConnell, consulting geologist, supervised drill operations; under contract to Canadian Orebodies Inc. Core Pic Mobert First Nations provided handling assistants. The drilling was contracted to Chibougamau Diamond Drilling Ltd. of Chibougamau Quebec. Camp services and helicopter were supplied by, Expedition Camp Services and Logistics, of Cochrane, Ontario. The program was based out of the Wire Lake base camp.

2.0 GEOLOGY

2.1 Regional Geology

The following description of the regional geology is adapted from an Economic Geology paper by Lin (2001), which was utilized in the Technical Report on the Lunny Lake Area by B.J. Price Geological Consultants Inc. in 2008.

The Wire Lake Project is situated within the eastern portion of the Wawa Sub-province, a division of the Superior Structural Province and Precambrian Canadian Shield (**see Figure 2.1.1**). The Wawa Sub-province consists of a sequence of Archean sedimentary and felsic, intermediate and mafic volcanic rocks ranging in age from 2720 million years (Ma) to 2688 Ma. The supracrustal rocks of the Wawa Sub-province have been metamorphosed, with metamorphic grade increasing from upper greenschist facies west of Lake Superior, to middle amphibolite facies east of Lake Superior, the latter portion of the Sub-province that includes the Hemlo deposit area (**see Figure 2.1.2**).

The greenstone belt is intruded by granodioritic to tonalitic plutons and dikes. Major plutons include the Pukaskwa Intrusive Complex, the Heron Bay pluton, the Cedar Lake pluton, and the Gowan Lake pluton. A marginal gneissic phase of the Pukaskwa complex yielded a U-Pb zircon age of 2719 Ma, whereas an internal phase of the complex, the Heron Bay pluton and the Cedar Lake pluton, yielded U-Pb zircon ages of 2688 Ma. The Cedar Creek stock has been dated at 2684 Ma, and the Gowan Lake pluton and two other plutons at 2679 to 2677 Ma (**see Figure 2.1.3**).

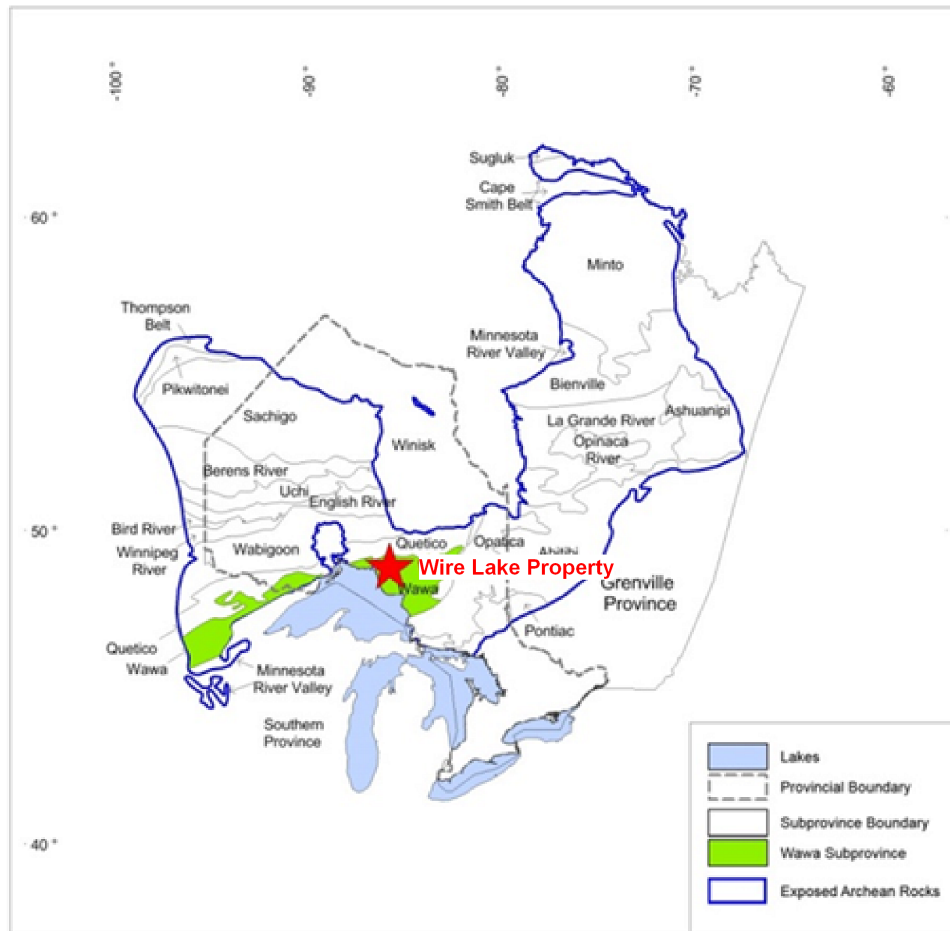


Figure 2.1.1: Superior Geological Province of Ontario and Quebec, Canada

2.2 Local and Property Geology

The following description of Local geology is adapted from Gregor Goldfields 1995 report on the Marathon (Hemlo) Property by J.M. Siriunas, P.Eng. NR&J Resource Associates Limited.

J. E. Thomson carried out the first government geological reconnaissance of the region in the early 1930s. The property area and its environs were mapped in greater detail, for the Ontario government by Milne (1967), who also mapped the Black River area immediately to the east (Milne, 1968). The Hemlo and Heron Bay areas to the south have been mapped by Muir (1982a and 1982b). Additional geological information has been provided by the mapping in the immediate area reported on by Brereton and Willoughby (1986), Hillier (1983), Jensen (1994) and Wilson (1989).

A north-south trending sequence of massive and pillowed tholeiitic basalts dominate the bedrock geology of the Wire Lake Property area. Volcaniclastics varying in grain size from tuff to agglomerate are also noted to be present. In the north-central and adjacent parts of the property spinifex-textured clasts have been noted in what is believed to be an agglomerate. Schnieders and Smyk (1995) report the presence of "spinifex-like" textures in Mg-tholeiites from the northwest part of the area. The volcanic rocks contain abundant chlorite and biotite; garnets can be locally abundant. The massive basalts may grade into coarse-grained gabbro that often contains poikilitic amphibole grains up to 3 cm in size. It is unclear whether these gabbroic phases represent coarse-grained flows, sub-volcanic intrusions or are due to the (contact) metamorphism of the original volcanics. Interflow bands of argillite, graphitic argillite and cherty iron formation have been identified in several areas within the mafic volcanics. To date none of these bands have been traced over a great distance (precluding their use as marker horizons).

Volcanic rocks of felsic composition have not been found on the property but do occur just to the west of the property boundary. These felsic rocks include coarse pyroclastic varieties especially in the vicinity of Page Lake. Sulphide-bearing chemical sediments that have returned significant values in base and precious metals are associated with these felsic volcanics.

The volcanic rocks are bounded on the east by biotite granodiorite gneisses of the Black-Pic Batholith. A large and a younger (2.678 Ga; Corfu, 1994) intrusion of biotite-hornblende quartz monzonite (Gowan Lake Pluton) is present between the Batholith and the volcanic rock sequence and underlies much of the extreme eastern margin of the property. A small intrusion of biotite granodiorite is also present in the northwest part of the area. The close spatial association between this particular intrusive and the felsic volcanic rocks in the Page Lake area intimates that it may represent the core to a (felsic) volcanic center.

Proterozoic-age diabase dikes are common on the property; two main sets are interpreted to be present. An older set probably related to the Marathon dike swarm around 1.9 Ga trend in north and northeasterly directions (Osmani, 1991). Younger dikes probably related to the Pukaskwa swarm (1.1 Ga) are observed to offset the Marathon dikes. The Pukaskwa dikes trend in a northwesterly direction. All dikes are anastomosing and extensively bifurcating.

Numerous dikes of lamprophyre typically from 0.5 m to 2 m in width are present on the property. The majority is reported to contain abundant biotite. It is thought that these dikes are closely allied to the rocks of the Coldwell Complex.

The Archean-age rocks in the region have been folded about a northeast – southwest trending, northeast plunging, anticlinal axis. The axis strikes at 038° and dips 86° SE while plunging 046°/66°. Presumed stratigraphic tops on the property would be toward the east. On the property itself Jensen (1994) reports lineations plunging northwest at 50° and also southwest between 30° and 70°.

A number of faults are interpreted to be present from the geology and geophysics. Some correspond with the Marathon (i.e., northwest trending) diabase dikes. Numerous, lineaments which could be related to faulting or at least jointing are discernable from air photographs, Jointing is commonly observed in the rocks and is similar in orientation to that of the diabase dikes.

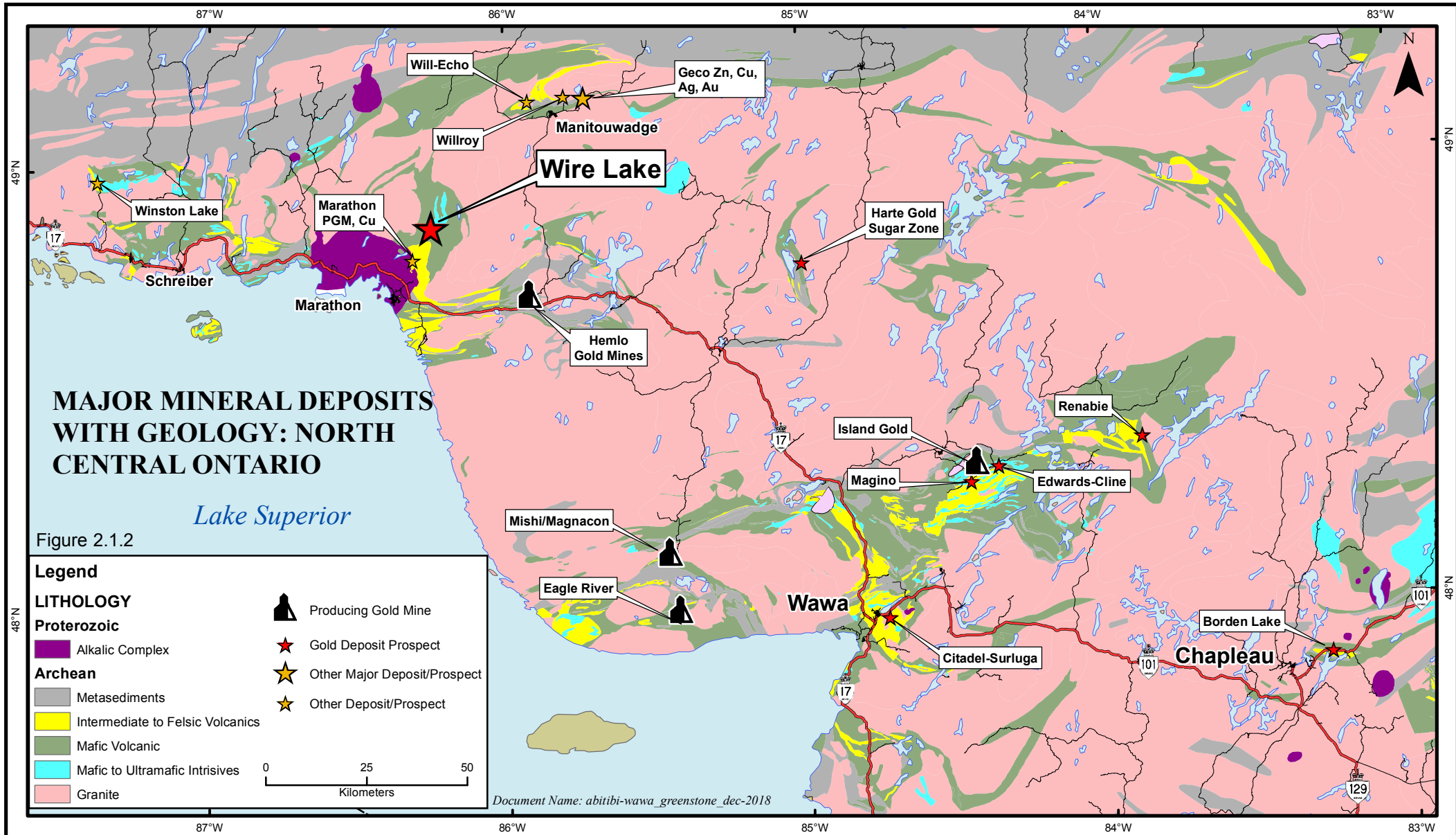
3.0 EXPLORATION HISTORY

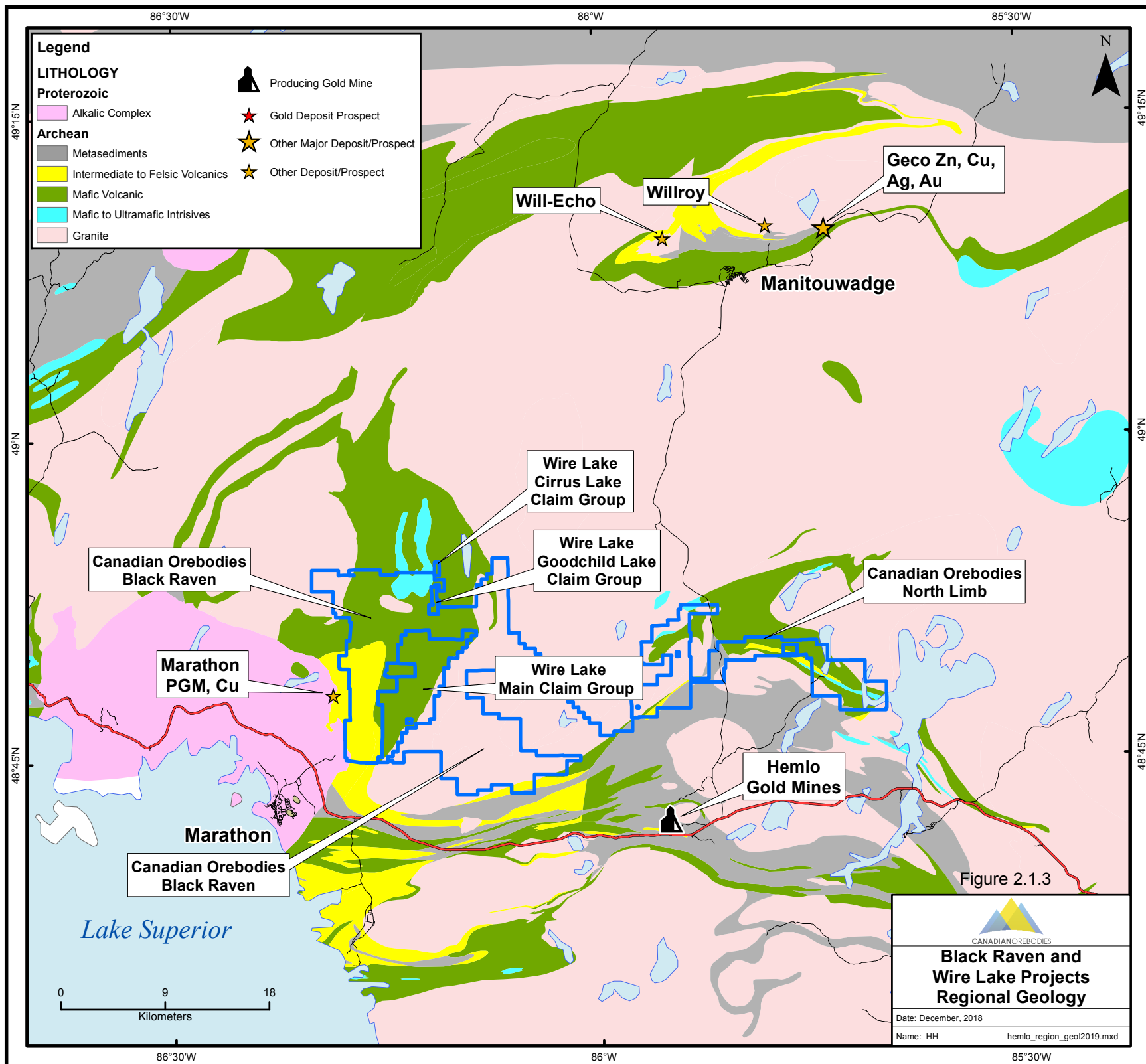
3.1 Pre-2016 Exploration History

Pre-2016 exploration work on the Wire Lake Property consisted of:

1984, MPH Consulting Limited conducted an assessment data compilation and Aerodat Limited completed a combined helicopter borne magnetic and VLF surveys consisting of 450-line kilometres over 407 unpatented mining claims.

1986, MPH Consulting Limited completed geological, geochemical and geophysical surveys on 4 large flagged grids within the 407 mining claims of the original property. This program consisted of geological mapping (1:5,000); a VLF-EM geophysical survey; and a B-Horizon soil geochemical survey. This work was conducted on a flagged compass grid. Several samples of the iron formation were reported to return values from 0.01 to 0.95 oz./ton gold. This area was reported to be similar in appearance to previously located iron formation approximately 1.6 kilometres to the south where grab samples were reported to assay as high as 0.45 oz./ton gold. The soil geochemical survey reported 12 sample locations anomalous in gold with values ranging from 160 to 1130 ppb. The VLF-EM survey located 86 conductive zones.





Exploration history continued.

1987, Combined geological and “B” Horizon geochemical surveys were conducted in, by D.T.e. Exploration Services Inc. and a geological survey was conducted over two flagged grids covering approximately 32 unpatented mining claims, a total of 5,295 samples were collected over the five flagged grids. A total of 2,319 samples were collected on the Discovery North Grid and indicated several interesting gold anomalies.

1988, Terraquest Ltd. conducted an airborne magnetic and VLF-EM survey consisting of 612-line kilometres covering portions of the 407 unpatented mining claims. 2583 metre diamond drill program was completed from January to March 1988.

1989, an extensive exploration program was conducted on a portion of the 241 unpatented mining claims. This program consisted of 120 kilometres of line-cutting, a total field magnetic geophysical survey, mechanical stripping, an IP survey and a 32- hole diamond drill program consisting of 3,468 metres.

1989, VX Ltd. conducted a time domain spectral induced polarization/resistivity surveys from August to October. These surveys were conducted on cut grid lines and totaled 46 line kilometres which included 4 lines south of Wire Lake and the balance north of Wire Lake to Line 3300 North. (Jensen, K.A., 1994)

During 1995, MPH Consulting Limited completed an exploration program on 4 portions of the 407 mining claims. This program consisted of geological mapping (1:5,000); prospecting and sampling; ground magnetic and VLF-EM geophysical surveys; and humus and stream geochemical surveys. This work was conducted on a flagged compass grid. The stream geochemical survey reported an area with up to 210 ppb gold and several locations with elevated arsenic values. The humus geochemical survey indicated several weak gold anomalies. The VLF-EM survey reported the location of 52 conductive zones. Bedrock sampling of quartz veining and sheared mafic metavolcanics in Grid D was reported to return values ranging from 1,450 to 12,410 ppb gold.

1995 – 2016 no exploration was carried out as the project was subject to litigation.

2016- the ligation issues on the property were resolved and subsequently Canadian Orebodies Inc. entered into an Option Agreement to earn a 100% in the property.

3.2 2016 Exploration History

An initial prospecting program was carried out by Bruce MacLachlan and Rogan Hennie for Canadian Orebodies Inc. on October 13th, 14th and 16th which returned values up to 6.76gpt Au from grab samples.

Between November 12th and 17th, 2016 Geotech Ltd. carried out a helicopter-borne 3-axis magnetic gradiometer and VLF-EM survey over the Wire Lake Property. A total of 620-line kilometers were flown at 100 metre spacing.

3.3 2017 Exploration History

Between April 24th and May 15th, 2017 Abitibi Geophysics Inc. carried out an OREVISION, time domain Resistivity and Induced Polarization Survey over a portion of the Wire Lake Main Claim Group. A total of 28 lines (29.55 kilometres) were read.

From May to October 2017 Canadian Orebodies contract geologists conducted a 1:2000 scale geological mapping program. The area mapped is contained within UTM co-ordinates 5,404,250mN to 5,406750mN and 556,700mE and 558250mE. The geological mapping program was able to confirm the historical extent of Wire Lake Gold Zone and has been able to extend it 1400m to the north through the Candlestick Zone and 700m to the south through the South Lake Zone.

From June 06 to June 26, 2017 a channel sampling program was conducted on Canadian Orebodies Wire Lake Project. A Trenching program consisting of eight (8) trenches, was able to confirm the extent and mineral tenure of the main Wire Lake Gold zone as well as confirming the extension of the zone to the north through the Candlestick Zone and north to Trench TR-17-08.

Of the 151-samples taken 29 returned values of 1 g/t Au or better and 106 samples returned anomalous results >100 ppb Au.

Contract personnel for Canadian Orebodies from May to October 2017 on the Wire Lake Project undertook an extensive prospecting program. A total of 538 grab samples were taken during the prospecting program and several areas returned samples with >1g/t Au. Follow up of these results revealed them to be hosted by narrow <1cm quartz +/- carbonate veins in small discrete shears. The Kakeaway Zone, a new zone of gold mineralization, which lies between 500 to 700 metres south of the Wire Lake Gold Zone, was also discovered. Fifteen grab samples taken from this area averaged 1.92 gpt gold.

In the second quarter of 2017 a diamond drill program was carried out on the Wire Lake Property. Twenty-two holes (WL-2017-001 to 009, 009A, and WL-2017-010 to 21) totaling 3069 metres were drilled. Hole WL-2017-012 (204 metres) was drilled to test the West Zone, hole WL-2017-014 (102 metres) was drilled to test a new gold showing discovered during the 2017 prospecting program, while the remaining 20 holes (2,763 metres) were drilled along the Wire Lake Gold Zone. Hole WL-2017-009 had to be abandoned and was re-drilled as hole WL-2017-009A.

4.0 DIAMOND DRILLING PROGRAM 2018

4.1 Introduction

From October 5 to 16 of 2018 a diamond drill program was carried out on the Wire Lake Property. Five holes (WL-2018-022 to 026) totaling 1093 metres were drilled. Holes WL-2017-022 (117 metres) and 023 (148 metres) were drilled to test the Kakeeway zone showing discovered during the 2017 prospecting program, south of Wire Lake. Holes WL-2017-024 (201 metres) and 025 (120m) were drilled to test an IP anomaly identified by the ground survey conducted on behalf of Canadian Orebodies in 2017. Hole WL-2018-26 (390 metres) was drilled to test down dip extension of the Lucky Seven zone (holes WL-2017-10 and 011).

Drill hole collars were spotted using a hand-held GPS device. The holes were aligned using a Silva Compass.

The core is presently stored at the Wire Lake field camp.

A total of 447 samples (including blanks and standards) representing a combined length of 389.64 metres were collected for gold analyses. The core samples were sawed at the Wire Lake field camp. Sample intervals were marked on the core boxes with a coloured 'China Marker'. A 'Write-in-Rain' numbered tag was placed at the beginning of each core sample. Sampling lengths ranged from 0.2 to 1.6 metres and averaged ~1.0 metre. Samples collected were individually bagged and labeled; individually bagged samples were then put into rice bags for shipping to ALS Laboratories in Thunder Bay.

In addition to the standard quality control of the laboratory, a series of blanks and standards are inserted in every shipment for quality control purposes.

The summary of the diamond drill collar co-ordinates is given in **Table 4.1.1**. Diamond drill logs can be found in **Appendix I**, while copies of the Assay Sample Sheets can be found in **Appendix II** and Assay Certificates are located in **Appendix III**. **Figure 4.1.1**, and plan maps in **Appendix V** show the location of the diamond drill holes in relation to the claim boundaries.

Diamond drill hole data were entered into Gemcom and a set of sections as well as drill hole plans were produced at a scale of 1:500 for the drill sections. These are included in **Appendix V** of the report.

Table 4.1.1: Drill Hole Collar Locations

Hole ID	Easting	Northing	Elevation	Azimuth	Dip	Depth (m)	Zone
WL-2018-22	557795	5403889	320	265	-45	148	Kakeeway
WL-2018-23	557795	5403889	320	265	-65	117	Kakeeway
WL-2018-24	556886	5405364	310	260	-45	201	IP west
WL-2018-25	556886	5405364	310	260	-60	120	IP west
WL-2018-26	557450	5405870	435	260	-68	390	Lucky 7

4.2 Discussion of Results

From October 5 to 16 of 2018 a diamond drill program was carried out on the Wire Lake Property. Five holes (WL-2018-022 to 026) totaling 976 metres were drilled. Holes WL-2017-022 (117 metres) and 023 (148 metres) was drilled to test the Kakeeway zone showing discovered during the 2017 prospecting program, south of Wire Lake. Holes WL-2017-024 (201 metres) and 025 (120m) were drilled to test an IP anomaly identified by the ground survey conducted on behalf of Canadian Orebodies in 2017. Hole WL-2018-26 (390 metres) was drilled to test down dip extension of the Lucky Seven zone (holes WL-2017-10 and 011), **Figure 4.2.1**.

No significant results were returned from drill holes WL-2018-22 to WL-2018-25.

Hole WL-2018-26 returned a significant broad zone (261.31 to 280.75m) of silicified and mafic volcanics and returned 19.54m grading at 0.87 g/t Au with sample A757832 returning 3.22 g/t Au over 1m.

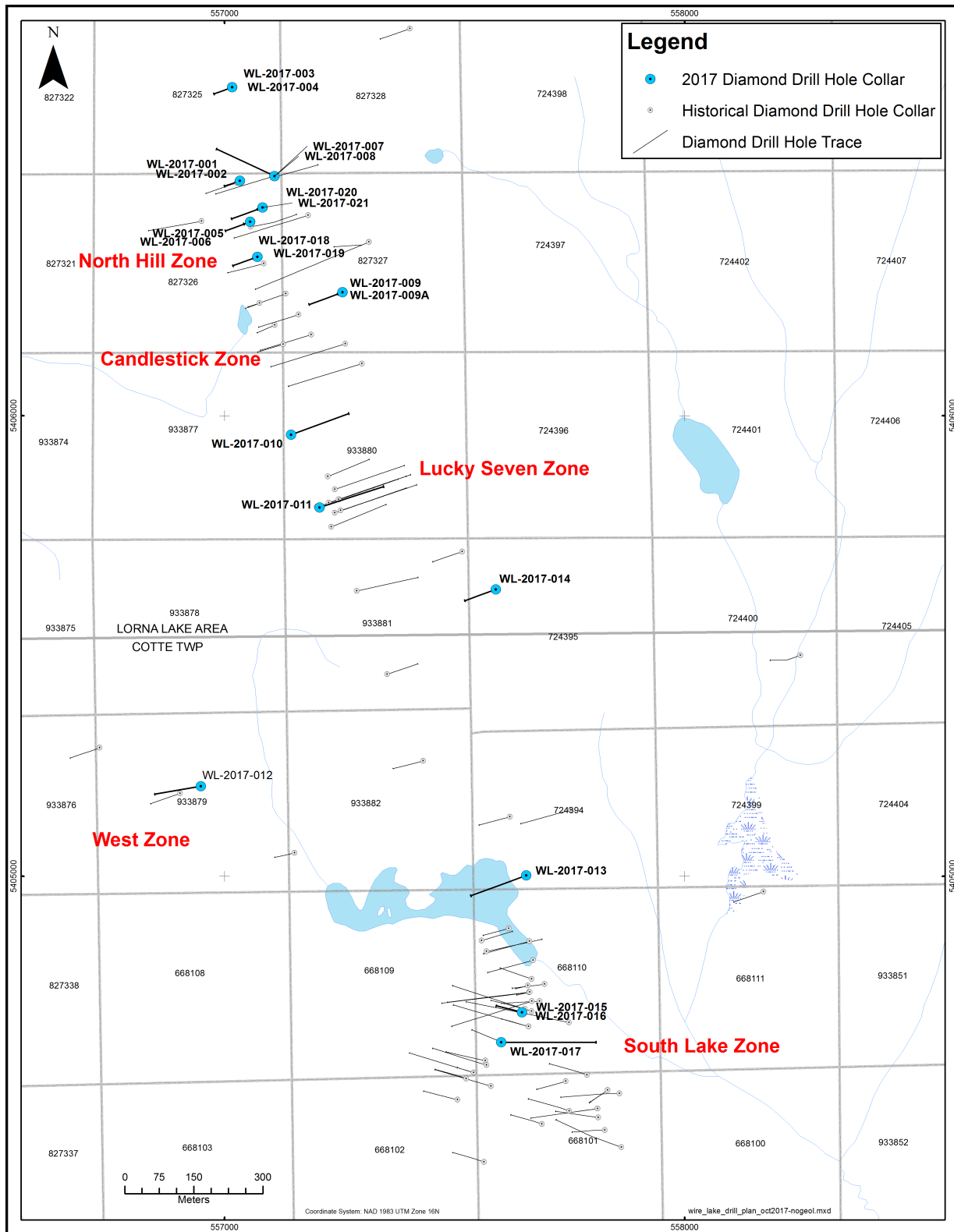


Figure 4.1.1 Collar Location map Wire Lake Drilling 2018.

4.2.1 WL-2018-022

Hole WL-2018-022 was the first of a planned two-hole fan drilled from the same set up to test the Kakeeway zone discovered by Company Prospectors in 2017. This set up is located approximately 20m east of the showing at co-ordinates 557795mE, 5403889mN and was drilled on an azimuth of 265 degrees at an angle of -45. This hole was started on October 7th and completed on the 8th at a depth of 148m.

This hole consists mainly of a light to medium grey green, fine grained mafic volcanic, weakly foliated at 40-45 DTCA. Alteration consists of weak to locally moderate pervasive chlorite / biotite alteration. Quartz veinlets up to 30cm at 40-45 DTCA foliation parallel and cross cutting, locally moderate to strongly brecciated with smoky grey quartz fracture fill. 1-2% very fine-grained pyrite and pyrrhotite, (locally up to 10%) as fracture fill and fine-grained disseminations. Occasional medium grained massive biotite quartz feldspar intrusive with 5-7cm fine grained felsic dykes at 68DTCA. Trace fine grained disseminated pyrite. Contacts are generally sharp but irregular.

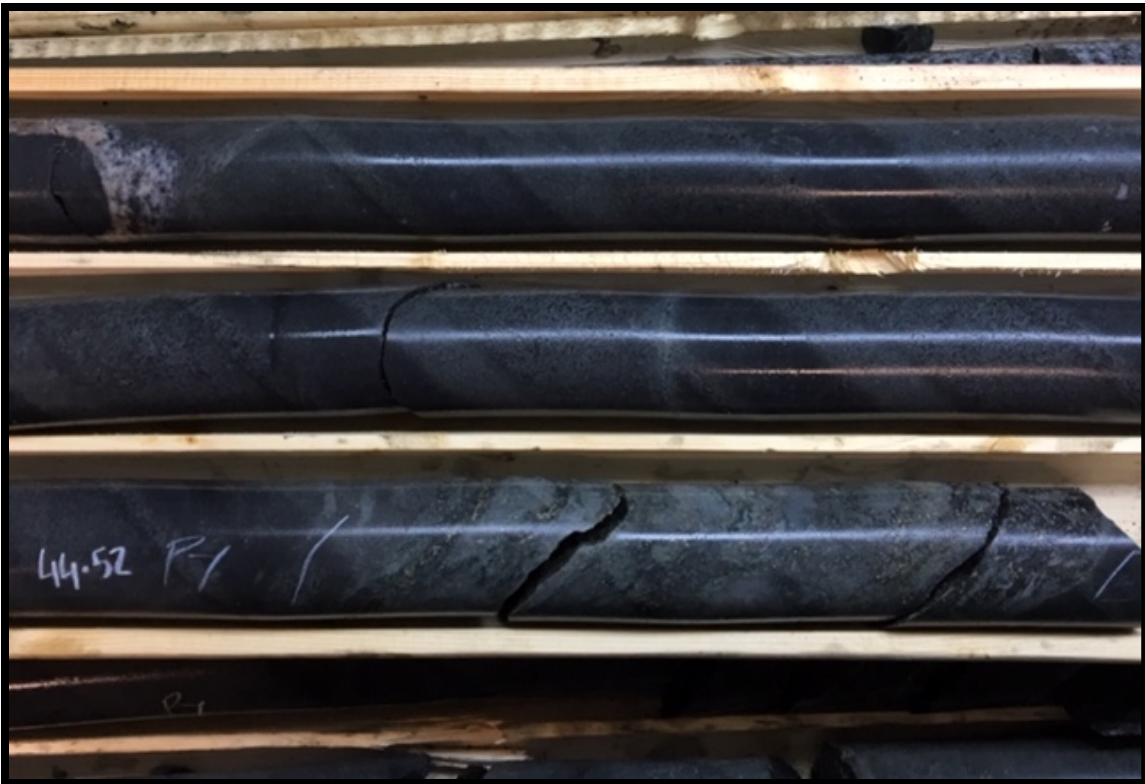
Two zones of mineralization were noted in this hole. The main “Kakeeway zone” at 25.37-47.93m, is a strongly sheared and altered mafic volcanic, **Photograph 4.2.1.1.** with strong white to smoky grey brecciated and mineralized vein quartz veins up to 30cm, **Photograph 4.2.1.2.** Mineralization consists of 1 to locally 10% fine to medium grained disseminated and fracture fill pyrite and pyrrhotite.

A second brecciated zone was observed from 51.5-73.7m. This consists of a strongly sheared, brecciated and altered mafic volcanic. 10-15% smoky grey quartz as 1-5cm irregular quartz veins and as fracture fill. Occasional larger (up to 25cm) quartz veins with 1-2% fine grained pyrite along vein margins and 3-5% fine to medium grained pyrite / pyrrhotite as disseminations, **Photograph 4.2.1.3.**

A total of 91 samples were taken including 14 blanks and standards. No significant results were returned for this hole. A low-grade 19-297 ppb Au zone was intersected from 30 to 45.5m down hole.



Photograph 4.2.1.1 Main Kakeeway zone veining and alteration.



Photograph 4.2.1.2 Brecciated smoky grey quartz vein main Kakeeway zone.



Photograph 4.2.1.3 Quartz veins and alteration, second mineralized zone Kakeeway showing.

4.2.2 WL-2018-023

Hole WL-2018-023 is the second hole designed to test the down dip extension of mineralization found at the Kakeeway zone discovered by Company Prospectors in 2017. This set up is located approximately 20m east of the showing at co-ordinates 557795mE, 5403889mN and was drilled on an azimuth of 265 degrees at an angle of -65. This hole was started on October 8th and completed on the 9th at a depth of 117m.

This hole consists mainly of a Dark grey to grey green, fine grained, massive to locally moderately brecciated mafic volcanic. Weakly to locally strong chlorite / biotite alteration with occasional 1-40cm light white to smoky grey quartz veins, (at 30-35 and 50-60 degrees to core axis). Occasional granodiorite dykes up to 1.3m with sharp contacts at 50 DTCA.

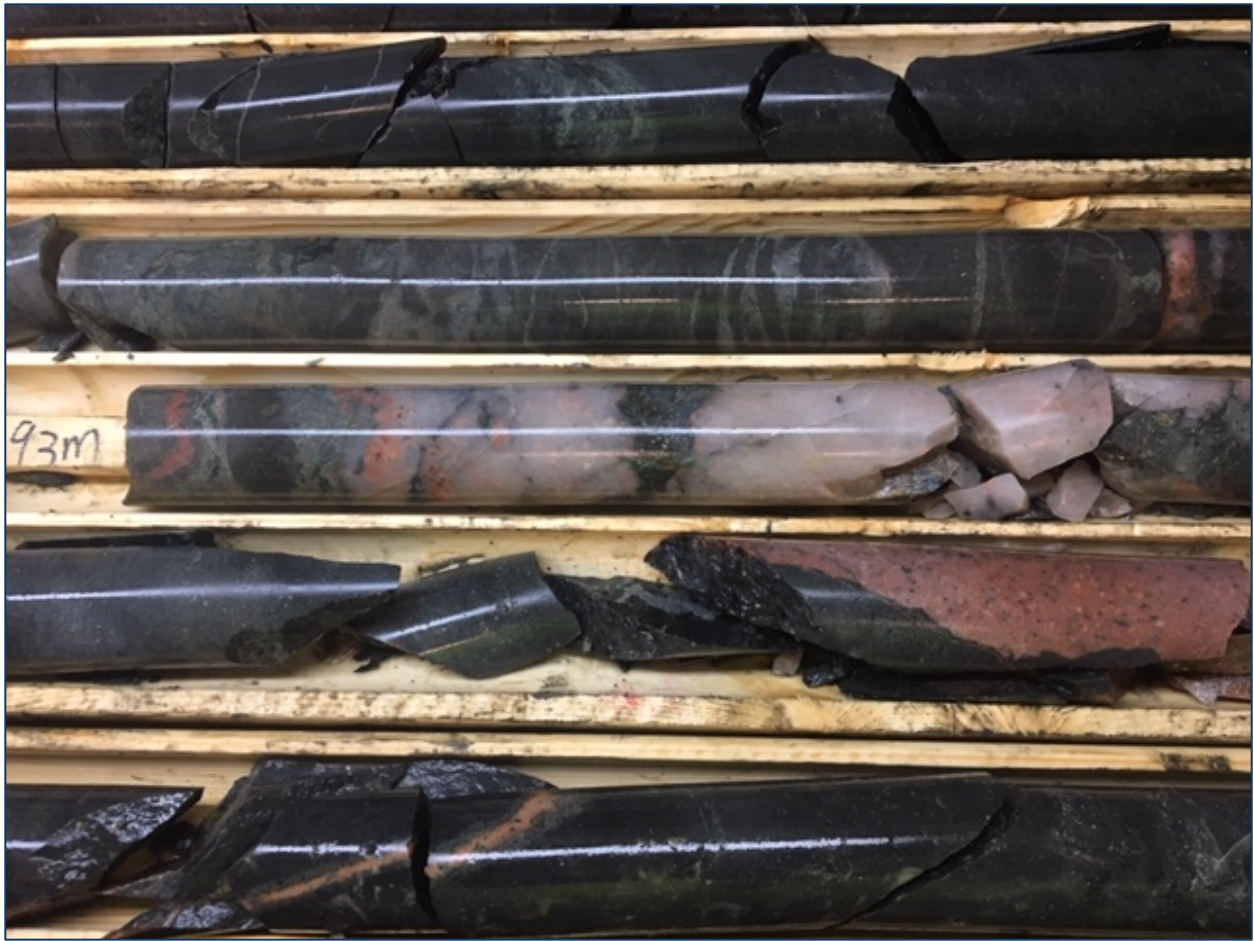
Both the main Kakeeway and secondary zones observed in WL-2018-22 are present in this hole. The Main zone consists of a broad (45.70-69.51m) zone of locally strongly sheared and chlorite / biotite altered mafic volcanics. Locally 5-20mm light white grey to smoky grey quartz fracture fill in breccia with 2-5% fine grained pyrrhotite / pyrite associated with breccia. Within this broader zone a strongly mineralized section from 56.90-59.31m exists with a strongly brecciated and altered zone with smoky grey quartz and 50-60% pyrrhotite > pyrite as fracture fill **Photograph 4.2.2.1**. The second mineralized zone is present from 79.43-96.50m and consists of a series of weak to locally moderately brecciated

zones 20-210cm, with 5-20% 1-30mm white grey quartz fracture fill and 3-5% fine grained pyrite and pyrrhotite. Occasional, 35-47cm white to smoky grey quartz veins with strong chlorite +/- epidote alteration and 1-5% pyrite, were observed, **Photograph 4.2.2.2.**

A total of 94 samples were taken including 15 blanks and standards. No significant results were observed in this hole. A low-grade gold zone is associated with the second mineralized zone from 79.43-96.50m, 26 – 416 ppb Au.

Photograph 4.2.2.1 Semi-massive pyrite and Pyrrhotite





Photograph 4.2.2.2. 40cm Quartz vein in diamond drill hole WL-2018-23 at 93m.

4.2.3 WL-2018-024

Hole WL-2018-024 was designed to test a strong IP chargeability anomaly on the end line of the grid surveyed in 2017. This set up is located west of the interpreted main Wire Lake zone and it was speculated that it might represent a parallel structure. The co-ordinates for this set up are 556886mE, 5405364mN and the hole was drilled on an azimuth of 260 degrees at an angle of -45 degrees. This hole was started on October 9th and completed on the 11th at a depth of 201m.

This hole was collared in mafic volcanics, with locally moderate breccia zones up to 4m with Tr-2% pyrite and pyrrhotite down to 46.7m. These are in contact with a cherty iron formation with minor graphite and interlayered mafic volcanics **Photograph 4.2.3.1**. Dark black, Massive to locally banded and insitu brecciated, with 2-3% disseminated pyrrhotite>chalcopyrite>pyrite, locally up to 20-30% over 60cm, down to 49.7m and from 69.7m to 80.0m, **Photograph 4.2.3.2**.



Photograph 4.2.3.1 Iron Formation contact with pyrrhotite and pyrite, WL-2018-024.



Photograph 4.2.3.2. Pyrrhotite, pyrite and chalcopyrite 49.7m in WL-2018-024.

The remainder of the hole is comprised of dark grey – black mafic volcanic. These are weak to locally moderately brecciated with minor 5-10mm quartz veins and 1-2% pyrite / pyrrhotite as fracture fill. Minor dark black weakly graphitic sediments are also noted.

The sulphides present in this hole can adequately explain the surface geophysical IP anomaly.

A total of 61 samples were taken including 7 blanks and standards. No significant results were observed in this hole with the highest returned value being 385 ppb Au associated with sample A757676 in a lean sulphide poor Iron Formation.

4.2.4 WL-2018-025

Due to the strong sulphide mineralization observed in drill hole WL-2018-024, it was decided by CORE management to drill a second hole WL-2018-25, to test for any down dip potential of the mineralization. This hole was drilled of the same set-up as WL-2018-24 with co-ordinates for this set up are 556886mE, 5405364mN and the hole was drilled on an azimuth of 260 degrees at an angle of -60 degrees. This hole was started on October 11th and completed on the 12th at a depth of 160.0m.

This drill hole was also collared in mafic volcanics with two mineralized zones observed. The first is from 30.70m to 39.82m and is comprised of; inter-fingered graphitic iron formation (70%) and mafic volcanic. These are dark black to medium grey, fine grained massive to locally strongly brecciated. Moderate to locally intense pervasive silica alteration is present with locally strong insitu brecciation and <1-2mm light white quartz fracture fill. Mineralization including 5-7% pyrrhotite – pyrite > chalcopyrite (locally up to 40% over 0.7m), was observed, **photograph 4.2.4.1 and 4.2.4.2.**



Photograph 4.2.4.1 Pyrrhotite – pyrite mineralized zone 30.7m to 39.7m in WL-2018-025.



Photograph 4.2.4.2 Details of mineralization 39.0m – 39.7m in WL-2108-025.

From 39.82m to 81.9m lithology consists of moderately altered mafic volcanic. Light grey-to-grey-green, fine grained, massive to locally weakly brecciated, moderate to strong pervasive silica alteration and weak chlorite with local minor biotite alteration. Trace to locally 80% massive pyrrhotite > pyrite >> chalcopyrite. Minor light white quartz - carbonate veinlets. Two mineralized zones were observed in this interval at 63.30m to 63.76m, moderately brecciated chert with minor graphite with sharp but irregular contacts. Mineralization consists of, 10-15%, semi-massive pyrrhotite > chalcopyrite as irregular bands and fracture fill. 81.00m to 83.50m moderate to strongly sheared and brecciated with light white smoky grey quartz fracture fill. Alteration consists of strong, pervasive silica with locally moderate chlorite / biotite alteration. Mineralization consists of 5-7% (locally 80% over 80cm), pyrrhotite / pyrite +/- chalcopyrite, as fracture fill, **photograph 4.2.4.3.**

The remainder of this hole consists of weakly altered mafic volcanics with trace amounts of pyrite and pyrrhotite associated with fractures.



Photograph 4.2.4.3 Details of massive pyrrhotite at 81.0m in WL-2018-25.

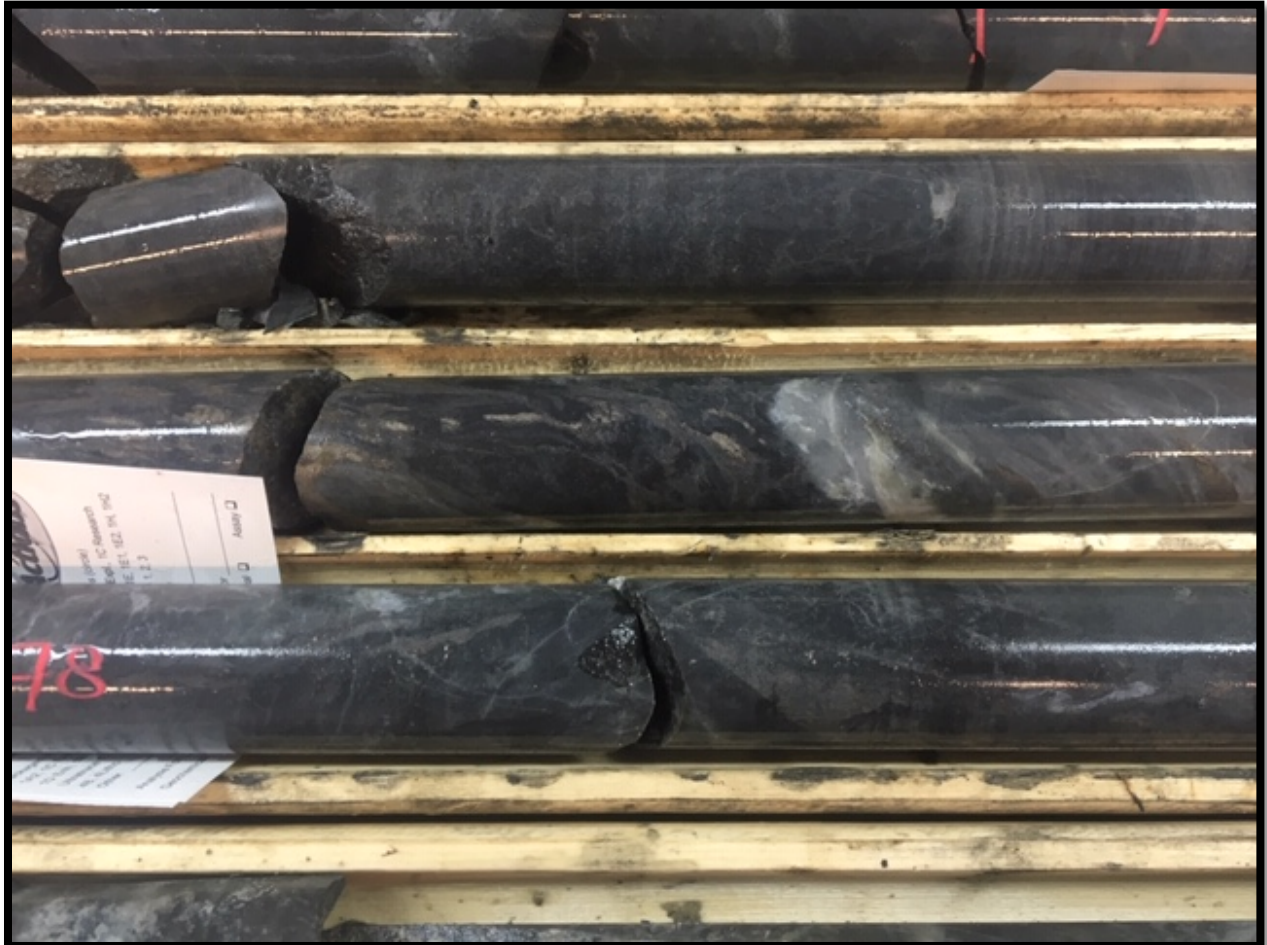
A total of 26 samples were taken including 4 blanks and standards. No significant results were observed in this hole with the highest returned value being 103 ppb Au in sample A757715 at 31 – 32m down hole.

4.2.5 WL-2018-026

Hole WL-2018-026 was designed to test at depth mineralization encountered in the Lucky Seven zone by previous drilling and is located east of the interpreted main Wire Lake zone. The co-ordinates for this set up are 557450mE, 5405870mN and the hole was drilled on an azimuth of 260 degrees at an angle of -68 degrees. This hole was started on October 12th and completed on the 16th at a depth of 390m.

This hole was collared in massive weakly altered gabbro to 47.45m. This interval is light green grey, medium grained, massive to locally weak insitu brecciation with <1mm quartz fracture fill. Alteration consists of weak pervasive chlorite. Minor 1-10mm quartz / carbonate veinlets at 45 and 75 DTCA. From 47.45m to 99.80m lithology's consist mainly of weak to moderately altered mafic volcanics and interflow

sediments. Volcanics are light green to green-grey, fine-grained, massive to locally weak insitu brecciation with minor to locally moderate quartz chlorite fracture fill. Locally moderate 1-5mm light white quartz veinlets at 15 and 50 DTCA. Occasional light white quartz +/- carbonate veins 1-5cm at 55 DTCA. Trace to locally 1 2% fine grained, pyrrhotite as disseminations **photograph 4.2.5.1.**



Photograph 4.2.5.1 Fine-grained pyrrhotite – pyrite in mafic volcanics 68.10m to 76.50m drill hole WL-2018-26.

Interflow sediments are light grey-to-grey black, fine-grained, weak to locally strongly banded at 20-40 DTCA. Weak to locally intense shearing and brecciation at 20 DTCA with 1-7mm light white grey quartz fracture fill. Moderate pervasive silica and locally moderate biotite, biotite associated with breccias and veins. Occasional brecciated smoky grey quartz veins up to 30cm. 10-15% pyrrhotite as disaggregated bands, 1-5cm and as fracture fill in breccia and veins. 1-2% pyrite >chalcopyrite as fracture fill and vein margins, **photograph 4.2.5.2.**



Photograph 4.2.5.2 Pyrrhotite and pyrite in interflow sediments at 67.0m drill hole WL-2018-026.

From 99.80m to 261.31m hole consists of alternating bands of massive gabbro and moderately altered mafic volcanics. Gabbros are light grey green, medium grained, massive to locally weakly brecciated with 1-2mm quartz fracture fill. Intervals are unaltered to locally strong pervasive silica alteration with weak chlorite. Occasional quartz veins, light white grey, crystalline, massive are observed. Gabbros are unmineralized to locally trace to 0.5% pyrite associated with fractures. The volcanics in the section tend to be, light grey to medium green grey, fine grained, massive to locally weakly sheared and brecciated. Weak to moderate pervasive silica alteration and chlorite / biotite associated with brecciated areas. Occasional, 1-5cm light white quartz veins at 24-30 DTCA. Veins are weak to moderately brecciated with 2-3 % pyrrhotite > chalcopryrite as fracture fill **photograph 4.2.5.3**. Minor 1-3mm quartz / carbonate veinlets at 25 and 45 DTCA.



Photograph 4.2.5.3 Pyrite and chalcopyrite as fracture fill drill hole WL-2018-26.

In this interval two areas of moderate to strong silicification and mineralization from 144.90m to 147.15m, (moderate insitu brecciation and shearing with 10-15% quartz fracture fill and 3-5% fine grained pyrrhotite > chalcopyrite as fracture fill) and 152.9m to 157.0m (moderately brecciated and sheared with 10-15% quartz fill and 5-7% pyrrhotite > pyrite > chalcopyrite as fracture fill and associated with low angle 1-3cm quartz veins at 20 DTCA) were noted.

261.31m to 280.75m, silicified and mineralized mafic volcanic. Interval is light grey green to grey brown, fine-grained, moderate to locally strong foliation and brecciation at 47-53 DTCA. Alteration consists of moderate to strong pervasive silica with moderate to locally strong chlorite / biotite alteration. 20-30% of interval is smoky grey white quartz fracture fill with 2-4% fine grained pyrrhotite / pyrite >>chalcopyrite as fracture fill and along foliation margins **photograph 4.2.5.4.**



Photograph 4.2.5.4 Silicified and mineralized section 261.31m-to-280.75m drill-hole WL-2018-026.

The remainder of the hole is taken up with alternating gabbro and mafic volcanics similar to that described above. One section of silicified and mineralized volcanics is present from 317.10m to 322.24m. Volcanics are medium grey green to brown grey, fine-grained, massive to locally moderately sheared and brecciated at 45-50 DTCA. Smoky grey quartz as fracture fill with 2-3% very fine grained, pyrite / pyrrhotite as fracture fill. Alteration consists of moderate to locally strong silica / biotite / chlorite alteration. Lower contact is a 10cm smoky grey white quartz vein at 80 DTCA, **photograph 4.2.5.5**.

A total of 125 samples were taken including 19 blanks and standards. A broad zone (261.31 to 280.75m) of silicified and mafic volcanics returned 19.54m grading at 0.87 g/t Au with sample A757832 returning 3.22 g/t Au over 1m.



Photograph 4.2.5.5 Silicified and mineralized section 317.10m to 322.24m in drill-hole WL-2018-26.

5.0 CONCLUSIONS AND RECOMMENDATIONS

From October 5 to 16 of 2018 a diamond drill program was carried out on the Wire Lake Property. Five holes (WL-2018-022 to 026) totaling 976 metres were drilled. Holes WL-2017-022 (117 metres) and 023 (148 metres) was drilled to test the Kakeaway zone showing discovered during the 2017 prospecting program, south of Wire Lake. Holes WL-2017-024 (201 metres) and 025 (120m) were drilled to test an IP anomaly identified by the ground survey conducted on behalf of Canadian Orebodies in 2017. Hole WL-2018-26 (390 metres) was drilled to test down dip extension of the Lucky Seven zone (holes WL-2017-10 and 011).

Although no significant results were returned from drill holes WL-2018-22 and WL-2018-23 on the Kakeaway zone surface samples directly above drilling returned significant gold values up to 10 g/t and further investigation of this area is warranted.

It is felt that a better understanding of the tenure of gold mineralization, through further petrographic and chemical analysis is warranted to better understand the nature and distribution of gold in this area. A detailed examination of the complex structural picture in this area should also be undertaken.

No significant assays were returned for drill holes WL-2018-24 and WL-2018-25 and no further work is recommended in this area at this time.

Hole WL-2018-26 returned a significant broad zone (261.31 to 280.75m) of silicified and mafic volcanics returned 19.54m grading at 0.87 g/t Au with sample A757832 returning 3.22 g/t Au over 1m.

This remains a zone of interest and further work, mainly data modeling, is recommended to see how this fits in with the surface mapping and historical drilling.

APPENDIX – I

Diamond Drill Logs/Reports

DRILL HOLE REPORT

Hole Number: **WL-2018-022**

Project: **WIRE LAKE**

Project Number: **001**

Drilling	Casing	Core	Location	Other
Azimuth: 260	Length: 0	Dimension: BTW	Township: COTTE TOW	Logged by: Stephen MacConnell
Dip: -68	Pulled: no	Storage: Wire Lake	Claim No.: 318099	Relog by:
Length: 150	Capped: no	Section:	NTS: 63N/02	Contractor: Chibougamau
Started: 07-Oct-18	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Stephen MacConnell
Completed: 08-Oct-18				Surveyed: yes
Logged: 08-Oct-18				Surveyed by: GPS
Comment:				Geophysics:
		Coordinate - Gemcom	Coordinate - UTM	Geophysic Contractor:
		East: 557795	East: 557795	Left in hole: Casing
		North: 5403889	North: 5403889	Making water: no
		Elev.: 320	Elev.: 320	Multi shot survey: no
			Zone: 16 NAD: NAD83	

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	260.00	-68.00	C	<input checked="" type="checkbox"/>	
18.00	272.20	-43.00	S	<input checked="" type="checkbox"/>	
69.00	274.50	-40.80	S	<input checked="" type="checkbox"/>	
120.00	273.90	-38.30	S	<input checked="" type="checkbox"/>	
150.00	274.70	-38.20	S	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-022**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
0.00	3.10	CAS Casing					
3.10	25.37	1A Altered Mafic Volcanic Light to medium grey green, fine grained, weakly foliated at 40-45 DTCA. Weak to locally moderate (associated with brecci zones) chlorite / biotite alteration. Quartz veinlets up to 2cm at 40-45 DTCA foliation parallel and cross cutting. 1-2% very fine grained py and po as disseminations and irregular <1mm. Lower contact is gradational	A757468	3.00	4.00	1.00	3
			A757469	4.00	5.00	1.00	3
			A757470	5.00	6.00	1.00	3
			A757471	6.00	7.00	1.00	3
			A757472	7.00	8.00	1.00	3
			A757473	8.00	9.00	1.00	3
			A757475	9.00	10.10	1.10	6
			A757477	10.10	11.00	0.90	3
			A757478	11.00	12.00	1.00	5
		Minor Interval:	A757479	12.00	13.00	1.00	7
		10.11 11.75 1A Altered Mafic Volcanic	A757480	13.00	14.00	1.00	3
		Moderate to locally strongly sheared at 41 DTCA, locally brecciated with strong chlorite biotite alteration. Quartz stringers up to 5cm associated with alteration and 2-3% fine grained py / po as fracture fill and along vein margins.	A757481	14.00	15.00	1.00	3
			A757482	15.00	16.00	1.00	3
			A757483	16.00	17.00	1.00	3
			A757484	17.00	18.00	1.00	3
			A757485	18.00	19.00	1.00	3
			A757487	19.00	20.00	1.00	3
			A757488	20.00	21.00	1.00	3
			A757489	21.00	22.00	1.00	3
			A757491	22.00	23.00	1.00	3
			A757492	23.00	24.00	1.00	3

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-022**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
			A757493	24.00	25.40	1.40	3
25.37	47.93	1A Altered Mafic Volcanic Light green to dark grey - black, fine grained, weak to locally strongly foliated / sheared at 40-45 DTCA. Weak to locally strong chlorite / biotite alteration. Occasional quartz veins 5-30cm smoky grey white crystalline, locally brecciated with up to 10% medium grained py as fracture fill and along margins. Numerous 1-5mm quartz stringers parallel to foliation with 1-3% py. Several coarse grained granodiorite dykes observed up to 70cm. Lower contact is sharp at 65 DTCA.	A757494	25.40	26.40	1.00	6
			A757495	26.40	27.00	0.60	6
			A757496	27.00	28.00	1.00	5
			A757497	28.00	29.00	1.00	7
			A757498	29.00	30.00	1.00	10
			A757499	30.00	31.40	1.40	65
			A757501	31.40	32.00	0.60	40
			A757502	32.00	33.00	1.00	122
			A757503	33.00	34.00	1.00	72
		Minor Interval:	A757504	34.00	35.00	1.00	150
31.43	33.00	1A Altered Mafic Volcanic Strongly sheared at 40 DTCA and altered (Chlorite / biotite) mafic volcanic. Moderately brecciated with smoky grey fracture fill and 3-5% fine to medium grained pyrite.	A757506	35.00	36.00	1.00	55
			A757507	36.00	37.00	1.00	85
			A757508	37.00	38.00	1.00	141
		Minor Interval:	A757509	38.00	39.00	1.00	126
29.05	29.85	5B Intermediate Biotitic Intrusive Course grained, unaltered dyke with sharp contacts at 45 DTCA	A757510	39.00	40.00	1.00	19
			A757511	40.00	41.00	1.00	297
		Minor Interval:	A757513	41.00	42.00	1.00	273
35.43	36.00	5B Intermediate Biotitic Intrusive Course grained, weak hematite staining, dyke at 37 DTCA	A757515	42.00	43.00	1.00	138
			A757516	43.00	44.00	1.00	48
		Minor Interval:	A757517	44.00	44.50	0.50	62
44.52	44.77	QTZ Quartz Vein Smoky grey quartz vein, moderately brecciated with 10-15% py as fracture fill and along margins. Contacts are sharp at 44 DTCA.	A757518	44.50	45.00	0.50	219
			A757519	45.00	45.50	0.50	16
		Minor Interval:	A757520	45.50	46.00	0.50	11
45.42	45.57	QTZ Quartz Vein Strongly brecciated with quartz fracture fill and 5-7% py.	A757521	46.00	47.00	1.00	12
			A757523	47.00	48.00	1.00	12

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-022**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> <i>(ppb)</i>
47.93	51.50	5B Intermediate Biotitic Intrusive Medium grained massive biotite quartz feldspar intrusive with 5-7cm fine grained felsic dykes at 68 DTCA. Trace fine grained disseminated pyrite. Lower contact not observed due to fractured core.	A757524	48.00	49.00	1.00	3
			A757525	49.00	50.00	1.00	6
			A757526	50.00	51.50	1.50	7
51.50	73.70	1A Altered Mafic Volcanic Strongly sheared (35-45 DTCA) and brecciated altered mafic volcanic. Interval is fine grained, moderate to locally strong chlorite / biotite altered (associated with brecciation). 10-15% smoky grey quartz as 1-5cm irregular quartz veins and as fracture fill. Occasional larger (up to 25cm) quartz veins at 45-50 DTCA with 1-2% fine grained py along vein margins. 3-5% fine to medium grained py / po as disseminations, irregular <1mm veinlets, fracture fill and along vein margins. Lower contact is sharp at 39 DTCA.	A757527	51.50	52.00	0.50	17
			A757528	52.00	53.00	1.00	46
			A757529	53.00	54.00	1.00	71
			A757530	54.00	55.00	1.00	35
			A757531	55.00	56.00	1.00	17
			A757533	56.00	57.00	1.00	29
			A757534	57.00	58.00	1.00	23
			A757535	58.00	59.00	1.00	77
			A757536	59.00	60.00	1.00	20
			A757538	60.00	61.00	1.00	17
			A757539	61.00	62.00	1.00	22
			A757540	62.00	63.00	1.00	21
			A757541	63.00	63.50	0.50	28
			A757542	63.50	64.00	0.50	17
			A757543	64.00	65.00	1.00	3
			A757544	65.00	66.00	1.00	3
			A757546	66.00	67.00	1.00	3
			A757548	67.00	68.00	1.00	3
			A757549	68.00	69.00	1.00	5
			A757550	69.00	70.00	1.00	3
		Minor Interval: 63.26 63.51 QTZ <i>Quartz Vein</i> Light smoky grey white, weakly brecciated quartz vein with minor host rock inclusions and 1-2% fine grained py along contacts. Lower contact sharp at 56 DTCA.					

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-022**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
			A757551	70.00	71.00	1.00	5
			A757552	71.00	72.00	1.00	3
			A757553	72.00	73.00	1.00	5
			A757554	73.00	73.70	0.70	3
73.70	76.16	5B Intermediate Biotitic Intrusive Medium grained, massive to weakly foliated at 43 DTCA, quartz feldspar biotite intrusive. Lower contact is sharp at 42 DTCA.					
76.16	148.00	1A Altered Mafic Volcanic Light green grey fine grained, moderately foliated at 56 DTCA. Weak to locally moderate (associated with breccia zones) chlorite biotite alteration. Localised insitu brecciation over 10-40cm with light white grey quartz / carbonate fracture fill. Only trace amounts of py where observed.	A757556	83.00	84.00	1.00	3
			A757557	84.00	85.00	1.00	3
			A757558	85.00	86.00	1.00	9
148.00	0.00	End of hole.					

DRILL HOLE REPORT

Hole Number: **WL-2018-023**

Project: **WIRE LAKE**

Project Number: **001**

Drilling	Casing	Core	Location	Other
Azimuth: 265	Length: 0	Dimension: BTW	Township: COTTE TOW	Logged by: Stephen MacConnell
Dip: -65	Pulled: yes	Storage: Wire Lake	Claim No.: 318099	Relog by:
Length: 117	Capped: no	Section:	NTS: 63N/02	Contractor: Chibougamau
Started: 08-Oct-18	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Stephen MacConnell
Completed: 09-Oct-18				Surveyed: no
Logged: 09-Oct-18				Surveyed by: GPS

Comment:	Coordinate - Gemcom	Coordinate - UTM	Geophysics:
	East: 557795	East: 557795	Geophysic Contractor:
	North: 5403889	North: 5403889	Left in hole:
	Elev.: 320	Elev.: 320	Making water: no
		Zone: 16 NAD: NAD83	Multi shot survey: no

Deviation Tests

Distance	Azimuth	Dip	Type	Good	Comments
0.00	265.00	-65.00	C	<input checked="" type="checkbox"/>	
18.00	273.40	-66.30	S	<input checked="" type="checkbox"/>	
69.00	277.20	-65.20		<input checked="" type="checkbox"/>	

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-023**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
0.00	2.50	CAS Casing					
2.50	45.71	1A Altered Mafic Volcanic Dark grey to grey green, fine grained, massive to locally moderately brecciated over 10-30cm. Weak to locally strong (associated with breccia zones) chlorite / biotite alteration. Occasional 1-2cm light white quartz veins at 30-35 and 50-60 DTCA. Breccia has an crackle texture with 1-10mm quartz fracture fill, 2-3% py/po as fracture fill and <1mm irregular veinlets. Trace to 1% very fine grained po / py through out interval. Occasional granodiorite dykes up to 1.3m with sharp contacts at 50 DTCA. Lower contact is gradational.	A757559	3.00	4.50	1.50	7
			A757560	4.50	6.00	1.50	3
			A757561	6.00	7.50	1.50	5
			A757563	7.50	9.00	1.50	3
			A757564	9.00	10.50	1.50	3
			A757565	10.50	12.00	1.50	3
			A757566	12.00	13.50	1.50	3
			A757567	13.50	15.00	1.50	3
			A757568	15.00	16.50	1.50	3
			A757569	16.50	18.00	1.50	3
			A757571	18.00	19.50	1.50	3
			A757572	19.50	21.00	1.50	3
			A757573	21.00	22.50	1.50	3
			A757574	22.50	24.00	1.50	3
			A757575	24.00	25.50	1.50	3
			A757576	25.50	27.00	1.50	3
			A757578	27.00	28.50	1.50	3
			A757579	28.50	30.00	1.50	3
			A757580	30.00	31.50	1.50	3
			A757581	31.50	33.00	1.50	3
			A757583	33.00	34.50	1.50	3

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-023**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> <i>(ppb)</i>
			A757585	34.50	36.00	1.50	3
			A757586	36.00	37.50	1.50	3
			A757587	37.50	39.00	1.50	3
			A757588	39.00	40.50	1.50	3
			A757589	40.50	42.00	1.50	5
			A757590	42.00	43.50	1.50	3
			A757592	43.50	45.00	1.50	3
			A757593	45.00	45.70	0.70	5
45.71	71.20	1A <i>Altered Mafic Volcanic</i> Light to medium grey to grey green, fine to locally medium grained, massive to locally strongly sheared and brecciated at 30-40 DTCA. 5-20mm light white grey to smoky grey quartz fracture fill in breccias with strong chlorite / biotite alteration. Generally 2-5% fine grained po / py associated with breccia as fracture fill and 1-2mm irregular veinlets but locally up to 60% over 2.4m. Lower contact is sharp at 47 DTCA.	A757594	45.70	47.00	1.30	7
			A757596	47.00	48.00	1.00	3
			A757597	48.00	49.00	1.00	3
			A757598	49.00	50.00	1.00	3
			A757599	50.00	51.00	1.00	3
			A757600	51.00	52.00	1.00	3
			A757601	52.00	53.00	1.00	3
			A757602	53.00	54.00	1.00	7
			A757603	54.00	55.00	1.00	9
			A757604	55.00	56.00	1.00	3
			A757606	56.00	56.90	0.90	19
			A757607	56.90	58.00	1.10	25
			A757608	58.00	59.30	1.30	55
			A757609	59.30	60.00	0.70	14
			A757610	60.00	61.00	1.00	9
			A757611	61.00	62.00	1.00	6
			A757612	62.00	63.00	1.00	6
			A757614	63.00	64.00	1.00	6
			A757615	64.00	65.00	1.00	7
		Minor Interval: 56.90 59.31 MZ <i>Mineralized Zone >1% Py, Po</i> Strongly brecciated and altered with smoky grey quartz fracture fill and 50-60% po>py as fracture fill. Lower contact is sharp at 31 DTCA.					

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-023**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
			A757616	65.00	66.00	1.00	5
			A757617	66.00	67.00	1.00	201
			A757618	67.00	68.00	1.00	38
			A757619	68.00	69.00	1.00	10
			A757620	69.00	70.00	1.00	5
			A757621	70.00	71.20	1.20	3
71.20	79.43	5B Intermediate Biotitic Intrusive Light white pink, coarse grained, massive to weakly foliated at 47 DTCA, feldspar, biotite, quartz. Weak potassic alteration and minor chloritisation of biotite. No sulphides where observed. Lower contact is sharp at 36 DTCA.	A757623	71.20	72.00	0.80	3
			A757624	72.00	73.50	1.50	3
			A757625	73.50	75.00	1.50	3
			A757626	75.00	76.50	1.50	3
			A757627	76.50	78.00	1.50	3
			A757629	78.00	79.50	1.50	11
		Minor Interval: 73.70 73.90 6 <i>Fault, Shear Zone</i> Brittle fault with broken core and 1-2cm clay fault gouge.					
79.43	96.50	1A Altered Mafic Volcanic Medium grey black to grey green, fine grained massive to weakly foliated at 35-40 DTCA. Weak to locally moderately brecciated zones 20-210cm, with 5-20% 1-30mm white gray quartz fracture fill with 3-5% fine grained py/po associated with fractures and margins. 1-2% fine grained disseminated py also present. Occasional 35-47cm white smoky grey quartz veins with strong chlorite +/- epidote alteration. 1-5% py along vein margins and minor fracture fill. Lower contact is faulted broken core.	A757630	79.50	80.30	0.80	172
			A757631	80.30	81.00	0.70	212
			A757632	81.00	82.00	1.00	27
			A757633	82.00	83.00	1.00	129
			A757635	83.00	84.00	1.00	126
			A757636	84.00	85.00	1.00	125
			A757637	85.00	86.00	1.00	149
			A757639	86.00	86.70	0.70	74
			A757640	86.70	87.10	0.40	416
			A757641	87.10	88.00	0.90	140
		Minor Interval: 80.30 80.65 QTZ <i>Quartz Vein</i>					

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-023**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
		Smoky grey white quartz tight insitu brecciated with 3-5% fracture fill py. Contact sharp at 58 DTCA	A757642	88.00	89.00	1.00	26
			A757643	89.00	90.00	1.00	58
		Minor Interval:	A757644	90.00	91.00	1.00	49
86.70	87.10	QTZ <i>Quartz Vein</i>	A757645	91.00	92.00	1.00	90
		Smokey grey quartz veins 5-7cm in highly altered zone with 2-3% py along vein margins. Sharp contacts at 33 DTCA.	A757646	92.00	93.00	1.00	129
		Minor Interval:	A757648	93.00	93.50	0.50	129
93.00	93.42	QTZ <i>Quartz Vein</i>	A757649	93.50	94.50	1.00	86
		Light smoky grey quartz vein with 20% host rock inclusions and 5-7% medium grained py along inclusion and vein margins. Contacts are brecciated.	A757650	94.50	95.50	1.00	74
		Minor Interval:	A757652	95.50	96.50	1.00	67
95.86	96.30	QTZ <i>Quartz Vein</i>					
		Medium grey quartz vein weakly brecciated with 1-2% fine grained fracture fill py. Contacts are sharp but irregular.					
96.50	103.49	5B <i>Intermediate Biotitic Intrusive</i>					
		Fault zone with strongly brecciated and broken core with graphitic slips. Locally strongly brecciated with calcite fracture fill. No sulphides where observed. Lower contact is sharp at 58 DTCA.					
103.49	108.31	1A <i>Altered Mafic Volcanic</i>					
		Dark grey black, fine grained, massive to locally moderate insitu brecciated with <1mm quartz-carbonate fracture fill. Moderate pervasive silica alteration. No sulphides observed. Lower contact is sharp but irregular.					

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-023**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
108.31	113.30	5B <i>Intermediate Biotitic Intrusive</i> Light grey to salmon pink, coarse grained, massive, unaltered to locally strong potassic alteration. No veining or sulphides where observed. Lower contact is sharp but irregular.					
113.30	117.00	1A <i>Altered Mafic Volcanic</i> Medium to dark grey, fine grained, massive, moderately silicified mafic volcanic. No sulphides observed.					
117.00	0.00	End of Hole					

DRILL HOLE REPORT

Hole Number: **WL-2018-024**

Project: **WIRE LAKE**

Project Number: **001**

Drilling	Casing	Core	Location	Other
Azimuth: 260	Length: 0	Dimension: BTW	Township: COTTE TOW	Logged by: Stephen MacConnell
Dip: -45	Pulled: yes	Storage: Wire Lake	Claim No.: 246023	Relog by:
Length: 201	Capped: no	Section:	NTS: 63N/02	Contractor: Chibougamau
Started: 09-Oct-18	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Stephen MacConnell
Completed: 11-Oct-18				Surveyed: yes
Logged: 11-Oct-18				Surveyed by: GPS

Comment:	Coordinate - Gemcom	Coordinate - UTM	Geophysics:
	East: 556886	East: 556886	Geophysic Contractor:
	North: 5405364	North: 5405364	Left in hole:
	Elev.: 310	Elev.: 310	Making water: no
		Zone: 16 NAD: NAD83	Multi shot survey: no

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	260.00	-45.00	C	<input checked="" type="checkbox"/>	
21.00	256.40	-45.40	S	<input checked="" type="checkbox"/>	
75.00	336.00	-44.20	S	<input type="checkbox"/>	
78.00	276.80	-44.10	S	<input type="checkbox"/>	
117.00	280.60	-44.70	S	<input type="checkbox"/>	
129.00	258.40	-41.70	S	<input checked="" type="checkbox"/>	
201.00	260.50	-38.60	S	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-024**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
0.00	3.80	CAS	Casing					
3.80	46.70	1A	Altered Mafic Volcanic Light grey to grey green, fine grained, massive to weakly foliated at 50-55 DTCA. Weak to locally moderately brecciated with 1-10mm quartz / carbonate fracture fill. Locally moderate foliation parallel 1-3mm quartz veinlets. Occasional light white to grey quartz veins up to 3cm at 30-40 DTCA and 50-55 DTCA. Trace to locally 2% fine grained py / po associated with breccias and veinlets. Lower contact is sharp but irregular.	A757653	19.00	20.00	1.00	28
				A757654	20.00	21.00	1.00	5
				A757656	21.00	22.00	1.00	3
				A757657	22.00	23.00	1.00	3
				A757658	23.00	24.00	1.00	3
				A757660	24.00	25.00	1.00	3
				A757661	25.00	26.00	1.00	5
				A757662	26.00	27.00	1.00	3
				A757663	44.00	45.00	1.00	3
				A757664	45.00	46.00	1.00	3
				A757665	46.00	46.70	0.70	3
			Minor Interval: 3.80 12.50 1A <i>Altered Mafic Volcanic</i> Moderate quartz / carbonate stringers 1-3mm with trace py.					
			Minor Interval: 19.70 25.80 1A <i>Altered Mafic Volcanic</i> Moderate insity brecciated with 1-10mm quartz / carbonate fracture fill, tr-2% fine grained py as fracture fill.					
46.70	50.80	MZ	Mineralized Zone >1% Py, Po Cherry iron formation with minor graphite and interlayered mafic volcanics. Dark black, very fine grained and hard, Massive to locally banded and insitu brecciated at 50-55 DTCA. 2-3% disseminated po>cpy>py with up to 20-30% over 60cm. Minor banding parallel quartz veins up to 5cm. Lower contact is sharp but irregular with 5-7% py over 10cm.	A757666	46.70	47.70	1.00	11
				A757667	47.70	48.70	1.00	3
				A757668	48.70	49.70	1.00	12
				A757669	49.70	51.00	1.30	3

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-024**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> Au (ppb)
50.80	69.70	1 Mafic Volcanics	A757671	51.00	52.00	1.00	3
		Light grey fine grained, massive to very weakly foliated at 41 DTCA. Unaltered to locally weak pervasive chlorite. Minor dark black graphitic sediments. Occasional light white quartz +/- carbonate stringers 1-3mm parallel to foliation. Lower contact is difuse at approximately 50 DTCA.	A757672	60.00	61.00	1.00	28
			A757673	61.00	62.00	1.00	3
			A757674	69.00	69.70	0.70	3
		Minor Interval:					
	60.20	61.10	4 <i>Interflow sediments</i>				
		Black fine grained weakly brecciated with 5-7% fracture fill po. Moderatly silicious with graphitic slips. Lower contact is sharp at 24 DTCA.					
69.70	80.00	MZ Mineralized Zone >1% Py, Po	A757675	69.70	71.00	1.30	34
		Iron formation, dark black to medium grey green, fine grained weak tolocally moderately banded at approximately 50 DTCA, locally brecciate. Moderate tolocally intently silicified with minor chlorite +/- biotite sections. Moderate to strong insitu breccia with 1-10mm smoky grey quartz fracture fill. 10-15% po>>cpy>py (locally up to 60% over 70cm) as bands, fracture fill and disseminations. Lower contact is gradational with decrease in sulphides over 30cm.	A757676	71.00	72.00	1.00	385
			A757677	72.00	73.00	1.00	28
			A757678	73.00	74.00	1.00	31
			A757680	74.00	75.00	1.00	20
			A757681	75.00	76.00	1.00	73
			A757682	76.00	77.00	1.00	90
			A757684	77.00	78.00	1.00	39
			A757685	78.00	79.00	1.00	28
			A757686	79.00	80.00	1.00	10

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-024**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
80.00	86.90	1A Altered Mafic Volcanic Variolitic mafic volcanic. Dark green fine grained massive to weakly foliated at 47 DTCA. Weak insitu brecciation with 1=2mm light white quartz fracture fill with trace py. Lower contact is sharp at 49 DTCA.	A757687	80.00	81.00	1.00	7
			A757688	81.00	82.00	1.00	8
			A757689	82.00	83.00	1.00	5
			A757690	83.00	84.00	1.00	3
			A757691	84.00	85.00	1.00	3
			A757692	85.00	86.00	1.00	3
			A757693	86.00	87.00	1.00	14
86.90	100.15	1A Altered Mafic Volcanic Light grey to medium grey green, fine grained, massive to locally strongly insitu brecciated. Weak to locally moderate chlorite +/- biotite alteration associated with breccias. 1-10mm light white smoky grey quartz fracture fil. 1-3mm light white quartz veinlets at 40-50 DTCA. Occasional 3-7cm veins at 20-25 DTCA. Trace fine grained py as fracture fill. Lower contact is gradational.	A757694	87.00	88.00	1.00	7
			A757695	88.00	89.00	1.00	8
			A757697	89.00	90.00	1.00	3
			A757698	90.00	91.00	1.00	6
			A757699	91.00	92.00	1.00	6
			A757701	92.00	93.00	1.00	6
			A757702	93.00	94.00	1.00	6
			A757703	94.00	95.00	1.00	9
			A757704	95.00	96.00	1.00	6
			A757705	96.00	97.00	1.00	6
			A757706	97.00	98.00	1.00	13
			A757707	98.00	99.00	1.00	9
			A757708	99.00	100.00	1.00	50
100.15	135.40	1 Mafic Volcanics Light grey to locally green grey, fine grained, massive to locally brecciated. Moderrate to locally strong pervasive silica alteration, local moderate chlorite. Trace to 0.5% fracture fill py associated with breccia. Lower contact is faulted / broken core.	A757709	111.00	112.00	1.00	6
			A757710	112.00	113.00	1.00	12
			A757711	113.00	114.00	1.00	7
			A757712	114.00	114.50	0.50	7
			A757713	114.50	115.00	0.50	7

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-024**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	-FINAL Au (ppb)	
Minor Interval:								
	111.20	114.50	1A	<i>Altered Mafic Volcanic</i>				
	Moderate to strong insitu brecciated with 1-3mm light white grey quartz fracture fill. Occasional light white, sugary quartz veins 1-5cm at 60-65 DTCA. Trace - 0.5% py as fine grained fracture fill.							
135.40	142.50	6	<i>Fault, Shear Zone</i>					
	60% of interval is comprised of broken mafic volcanic fragments with 1-25mm clay fault gouge. Fault appears to be at a low angle between 20-30 DTCA.							
142.50	150.00	4	<i>Interflow sediments</i>					
	Dark black to black green, fine grained, massive to weakly banded at 50-56 DTCA. Weak to locally moderate 1-3mm light white quartz - carbonate veinlets parallel to banding. Minor insitu brecciation with <1mm quartz fracture fill. No sulphides observed. Lower contact not observed due to broken core.							
150.00	201.00	1	<i>Mafic Volcanics</i>					
	Dark grey fine grained massive. Moderate pervasive silica alteration. Occasional 1-5mm quartz - carbonate veinlets at 45-55 DTCA. Occasional light white grey quartz veins up to up to 7cm at 35-40 DTCA. No sulphides observed.							

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-024**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> <i>(ppb)</i>
201.00	0.00	End of hole.					

DRILL HOLE REPORT

Hole Number: **WL-2018-025**

Project: **WIRE LAKE**

Project Number: **001**

Drilling	Casing	Core	Location	Other
Azimuth: 260	Length: 0	Dimension: BTW	Township: COTTE TOW	Logged by: Stephen MacConnell
Dip: -60	Pulled: no	Storage: Wire Lake	Claim No.: 246023	Relog by:
Length: 120	Capped: no	Section:	NTS: 63N/02	Contractor: Chibougamau
Started: 11-Oct-18	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Stephen MacConnell
Completed: 12-Oct-18				Surveyed: yes
Logged: 12-Oct-18				Surveyed by: GPS
Comment:				Geophysics:

Coordinate - Gemcom	Coordinate - UTM
East: 556886	East: 556886
North: 5405364	North: 5405364
Elev.: 310	Elev.: 310
	Zone: 16 NAD: NAD83

Geophysic Contractor:

Left in hole:

Making water: no

Multi shot survey: no

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	260.00	-60.00	C	<input checked="" type="checkbox"/>	
21.00	259.90	-57.80	S	<input checked="" type="checkbox"/>	
72.00	260.70	-56.10	S	<input checked="" type="checkbox"/>	
120.00	262.90	-54.50	S	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-025**

Project: **WIRE LAKE**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL Au (ppb)</i>
0.00	3.00	CAS	Casing					
3.00	30.70	1	Mafic Volcanics	A757714	30.00	31.00	1.00	7
			Lightgrey to grey green, fine grained massive to weakly foliated at 40 DTCA. Locally variolitic with weakpervasive chlorite and moderate to strongly silicified and weak patchy biotite. Weak to locally moderate, over 20-60cm light white grey 1-7mm grey white stringers at 25 DTCA and 55 DTCA. Trace po/py associated with stringers. Lower contact is sharp at 36 DTCA.					
		Structure Maj.:	Type/Core Angle	Comment				
		24.00 - 27.00	BC	Fault zone with 1-2cm clay fault gouge 24.5m				
30.70	39.82	MZ	Mineralized Zone >1% Py, Po	A757715	31.00	32.00	1.00	103
			Interfingered graphitic iron formation (70%) and mafic volcanic, dark black to medium grey, fine grained massive to locallystrongly brecciated. Moderate to locally intense pervasive silica alteration. Locally strong insitu brecciation with <1-2mm light white quartz fracture fill. 5-7% po-py>cpy, locally up to 40% over 0.7m. Lower contact is sharp but irregular at approximately 25 DTCA.					
		Mineralization Maj. :	Type/Style/%Mineral	Comment				
		38.70 - 39.82	CP FF 1	A757716	32.00	33.00	1.00	31
		38.70 - 39.82	PY FF 3	A757717	33.00	34.00	1.00	37
		38.70 - 39.82	PO Mass 40	A757718	34.00	35.00	1.00	34
				A757720	35.00	36.00	1.00	20
				A757721	36.00	37.00	1.00	48
				A757722	37.00	38.00	1.00	31
				A757723	38.00	39.00	1.00	28
				A757724	39.00	39.80	0.80	22
		Structure Maj.:	Type/Core Angle	Comment				
		30.70 - 31.20	BX	Light white grey quartz fracture fill 1-15mm with 5-7% po-py fracture fill				

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-025**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
	32.60 - 34.70	BX Flat lying quartz veins up to 3cm at 15 DTCA 7-10% Po/py/cpy as fracture fill					
	36.10 - 38.70	BX Strongly brecciated with 3-5cm quartz veins at 27 DTCA. 7-10% po/py as fracture fill and blebs.					
39.82	88.90	1A <i>Altered Mafic Volcanic</i> Light grey to grey green, fine grained, massive to locally weakly brecciated, moderate to strong pervasive silica alteration and weak chlorite with local minor biotite alteration. Trace to locally 80% massive po>py>>cpy. Minor light white quartz - carbonate veinlets 1-5mm at 30-40 DTCA. Lower contact is sharp at 47 DTCA.	A757726	39.80	41.00	1.20	3
			A757727	61.00	62.00	1.00	3
			A757728	62.00	63.00	1.00	3
			A757729	63.00	64.00	1.00	5
			A757730	64.00	65.00	1.00	8
			A757731	65.00	66.00	1.00	3
			A757732	80.00	81.00	1.00	6
			A757734	81.00	82.00	1.00	28
			A757735	82.00	83.00	1.00	18
			A757737	83.00	84.00	1.00	29
		Mineralization Maj. :					
	63.30 - 63.76	CP FF 1					
	63.30 - 63.76	PY FF 3					
	63.30 - 63.76	PO Mass 15					
	81.00 - 81.80	CP FF 1					
	81.00 - 81.80	PY FF 3					
	81.00 - 81.80	PO Mass 80					
	81.80 - 83.50	PO 2					
	81.80 - 83.50	PY 5					
		Minor Interval:					
	61.70 - 63.30	7 <i>Silicified Mafic Volcanic</i> Moderately brecciated with light white grey quartz fracture fill and veins up to 7cm. Moderate chlorite +/- biotite alteration. 2-3% py / po as fracture fill.					

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-025**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> Au (ppb)
		Minor Interval:					
63.30	63.76	MZ <i>Mineralized Zone >1% Py, Po</i> Moderately brecciated chert with minor graphite with sharp but irregular contacts. 10-15% semi-massive po>cpy as irregular bands and fracture fill.					
		Minor Interval:					
81.00	83.50	MZ <i>Mineralized Zone >1% Py, Po</i> Moderate to strongly sheared and brecciated with light white smoky grey quartz fracture fill. Strong pervasive silica with locally moderate chlorite / biotite alteration 5-7% po / py +/- cpy as fracture fill, Locally up to 80% over 80cm.					
88.90	90.30	12 Lamprophere Dark green black, medium grained massive. Lower contact is sharp at 81 DTCA.					
90.30	120.00	1 Mafic Volcanics Light to locally medium grey to grey green, fine grained, massive to locally moderately brecciated over 1-2m. Weak pervasive chlorite. Occasional 1-7mm light white quartz / carbonate veinlets at 45 and 60 DTCA, rare light white grey quartz vein upto 5cm at 35-40 DTCA. 1-2% fracture fill py / po associated with breccias.	A757738	90.30	91.30	1.00	3
			A757739	91.30	92.30	1.00	3
		Minor Interval:					
90.30	92.30	1A <i>Altered Mafic Volcanic</i> Moderately brecciated with moderate chlorite / biotite alteration. Light white to grey quartz fracture fill and 3-5vm quartz veins with 1-2% py / po as fracture fill.					

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-025**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> <i>(ppb)</i>
120.00	0.00	End of hole					

DRILL HOLE REPORT

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

Drilling	Casing	Core	Location	Other
Azimuth: 180	Length: 0	Dimension: BTW	Township: COTTE TOW	Logged by: Stephen MacConnell
Dip: -45	Pulled:	Storage: Wire Lake	Claim No.: 251050	Relog by:
Length: 390	Capped: no	Section:	NTS: 63N/02	Contractor: Chibougamau
Started: 12-Oct-18	Cemented: no	Hole Type DD	Hole: SURFACE	Spotted by: Stephen MacConnell
Completed: 16-Oct-18				Surveyed: yes
Logged: 16-Oct-18				Surveyed by: GPS

Comment:	Coordinate - Gemcom	Coordinate - UTM	Geophysics:
	East: 557450	East: 557450	Geophysic Contractor:
	North: 5410740	North: 5410740	Left in hole:
	Elev.: 320	Elev.: 320	Making water: no
		Zone: 16 NAD: NAD83	Multi shot survey: no

Deviation Tests

<i>Distance</i>	<i>Azimuth</i>	<i>Dip</i>	<i>Type</i>	<i>Good</i>	<i>Comments</i>
0.00	180.00	-45.00	C	<input checked="" type="checkbox"/>	
21.00	265.90	-66.90	S	<input checked="" type="checkbox"/>	
72.00	268.70	-66.90	S	<input checked="" type="checkbox"/>	
123.00	276.30	-67.20	S	<input checked="" type="checkbox"/>	
174.00	281.00	-67.10	S	<input checked="" type="checkbox"/>	
228.00	285.80	-66.50	S	<input checked="" type="checkbox"/>	
279.00	288.80	-66.20	S	<input checked="" type="checkbox"/>	
330.00	294.20	-65.00	S	<input checked="" type="checkbox"/>	
390.00	299.70	-64.80	S	<input checked="" type="checkbox"/>	

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>	<i>Lithology</i>		<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL Au (ppb)</i>
0.00	3.00	CAS	Casing					
3.00	47.45	2	Gabbro Light green grey, medium grained, massive to locally weak insitu brecciation with <1mm quartz fracture fill. Weak pervasive chlorite alteration. Minor 1-10mm quartz / carbonate veinlets at 45 and 75 DTCA. Lower contact is sharp but irregular at approximately 45 DTCA.					
		Minor Interval:						
	23.50	24.75	5B	<i>Intermediate Biotitic Intrusive</i> Light grey, medium grained quartz-feldspar-biotite, massive, unaltered. Lower contact is sharp at 80 DTCA.				
47.45	58.77	1A	Altered Mafic Volcanic Light grey to grey green, fine grained, massive to locally weakly insitu brecciated with <1mm quartz / chlorite fracture fill. Occasional 1-3cm light white quartz / carbonate veins at 75-80 DTCA. Trace fine grained disseminated po. Lower contact is sharp but irregular.					

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
58.77	64.80	1A <i>Altered Mafic Volcanic</i> Pillow basalts light to medium grey green, pillow salvages with 1-2mm garnets and 3-5% po-py>cpy along margins and as fracture fill.	A757740	58.70	60.00	1.30	12
			A757741	60.00	61.00	1.00	10
			A757742	61.00	62.00	1.00	14
			A757744	62.00	63.00	1.00	6
			A757745	63.00	64.00	1.00	3
			A757746	64.00	65.00	1.00	5
64.80	68.10	4 <i>Interflow sediments</i> Iron formation, medium grey black, fine grained, moderate to well banded at 40-45 DTCA. Locally brecciated with light white to smoky grey quartz fracture fill. 10-15% po>py>cpy as 1-2cm disaggregated bands and fracture fill in breccias. Lower contact is sharp at 50 DTCA.	A757747	65.00	66.00	1.00	43
			A757748	66.00	67.00	1.00	33
			A757749	67.00	68.10	1.10	38
68.10	76.30	1A <i>Altered Mafic Volcanic</i> Light grey fine grained massive to locally moderate insitu brecciation with <1mm quartz fracture fill. Strong pervasive silica alteration. Tr-1% very fine grained disseminated po. Lower contact is sharp at 47 DTCA.	A757750	68.10	69.00	0.90	3
			A757752	69.00	70.00	1.00	6
			A757753	70.00	71.00	1.00	3
			A757754	71.00	72.00	1.00	6
			A757755	72.00	73.00	1.00	5
			A757756	73.00	74.00	1.00	8
			A757757	74.00	75.00	1.00	3
			A757759	75.00	76.00	1.00	3

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
76.30	83.85	4	<i>Interflow sediments</i> Light grey to grey black, fine grained, weak to locally strongly banded at 20-40 DTCA. Weak to locally intense shearing and brecciation at 20 DTCA with 1-7mm light white grey quartz fracture fill. Moderate pervasive silica and locally moderate biotite, biotite associated with breccias and veins. Occasional brecciated smoky grey quartz veins up to 30cm. 10-15% po as disagregatted bands 1-5cm and as fracture fill in breccia and veins. 1-2% py>cpy as fracture fill and vein margins. Lower contact is sharp at 80 DTCA	A757760	76.00	77.00	1.00	16
				A757761	77.00	78.00	1.00	18
				A757762	78.00	79.00	1.00	7
				A757764	79.00	80.00	1.00	8
				A757766	80.00	81.00	1.00	27
				A757767	81.00	82.00	1.00	22
				A757768	82.00	83.00	1.00	11
				A757769	83.00	84.00	1.00	24
			Minor Interval:					
	83.51	83.85	QTZ Brecciated smoky grey quartz vein with 5-7% fracture fill po>py>>cpy. Moderate biotite alteration. Lower contact sharp at 80 DTCA.					
83.85	94.41	1A	<i>Altered Mafic Volcanic</i> Light green to green grey fine grained massive to locally weak insitu brecciation with minor quartz chlorite fracture fill. Locally moderate 1-5mm light white quartz veinlets at 15 and 50 DTCA. Occasional light white quartz +/- carbonate veins 1-5cm at 55 DTCA. Trace to locally 1-2% fine grained po as disseminations. Lower contact is a quartz vein at 60 DTCA.	A757770	84.00	85.00	1.00	3
				A757771	85.00	86.00	1.00	6
				A757773	86.00	87.00	1.00	3
				A757774	87.00	88.00	1.00	3
				A757775	88.00	89.00	1.00	3
				A757777	89.00	90.00	1.00	49
				A757778	90.00	91.00	1.00	3
				A757779	91.00	92.00	1.00	3
				A757780	92.00	93.00	1.00	7
				A757781	93.00	94.00	1.00	11

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	-FINAL <i>Au</i> (ppb)
94.41	99.80	4	<i>Interflow sediments</i> Light grey to grey black fine grained well banded at 50-60 DTCA. Locally moderately sheared and brecciated with light white to smoky grey quartz fracture fill. Minor local light white grey quartz veins up to 30cm parallel to banding. Strong biotite alteration associated with breccia zones. 10-15% po as 1-5cm bands and as fracture fill. 1-2% py>cpy associated with breccia and quartz veins. Lower contact is chill margin over 20cm.	A757782	94.00	95.00	1.00	54
				A757783	95.00	96.00	1.00	651
				A757784	96.00	97.00	1.00	101
				A757785	97.00	98.00	1.00	84
				A757787	98.00	99.00	1.00	209
				A757788	99.00	99.80	0.80	81
			Minor Interval: 94.41 94.90 QTZ <i>Quartz Vein</i> Strongly brecciated light white grey quartz vein with 2-3% po>py>cpy as fracture fill. Lower contact is sharp at 24 DTCA.					
			Minor Interval: 98.10 99.80					
99.80	105.34	2	<i>Gabbro</i> Medium green, medium grained massive to minor insitu brecciation with <1mm quartz / chlorite fracture fill. Weak to locally moderate chlorite alteration weak silica. Lower contact is 3cm quartz vein at 53 DTCA.	A757789	99.80	101.00	1.20	8
105.34	134.76	1A	<i>Altered Mafic Volcanic</i> Light grey to medium green grey, fine grained, massive to locally weakly sheared and brecciated. Weak to moderate pervasive silica alteration and chlorite / biotite associated with brecciated areas. Occasional 1-5cm light white quartz veins at 24-30 DTCA. Veins are weak to moderately brecciated with 2-3 % (up to 50%) po>cpy as fracture fill. Minor 1-3mm quartz / carbonate veinlets at 25 and 45 DTCA. Lower contact is sheared quartz vein at 47 DTCA.	A757790	113.00	114.00	1.00	3
				A757791	114.00	115.00	1.00	7
				A757792	115.00	116.00	1.00	6
				A757793	116.00	117.00	1.00	7
				A757795	117.00	118.00	1.00	7

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> Au (ppb)
		Minor Interval:					
	114.55	114.61	QTZ	<i>Quartz Vein</i>			
	Brecciated quartz vein with 20-30% po>>cpy sharp contacts at 22 DTCA.						
			Minor Interval:				
	132.43	133.37	5B	<i>Intermediate Biotitic Intrusive</i>			
	Sharp contacts at 45 DTCA						
			Minor Interval:				
	127.40	132.43	1M	<i>Silicified and mineralized mafic volc.</i>			
	Moderate to locally strong pervasive silica with tight insitu brecciation and 1-5mm light white quartz fracture fill with 1-2% po and trace - 0.5% cpy as fracture fill.						
134.76	139.84	2	Gabbro				
	Light grey green, medium grained, massive to locally weakly brecciated with 1-2mm quartz fracture fill. Strong pervasive silica alteration with weak chlorite. Occasional light white grey crystalline massive quartz vein at 60 DTCA. Trace to 0.5% py associated with fractures. Lower contact is sharp at 36 DTCA.						
139.84	140.68	12	Lamprophere				
	Dark black medium grained massive. Lower contact is sharp at 21 DTCA.						

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
140.68	165.70	1A <i>Altered Mafic Volcanic</i> Light grey to grey green, fine to locally medium grained, massive to locally sheared and brecciated at 20-30 DTCA. Moderate to locally strongly silicified and chlorite / biotite altered. Smoky grey white quartz as fracture fill and veins up to 20cm at 47 DTCA. 3-5% po>py>>cpy associated with shear, brecciation and veins.	A757796	144.00	145.00	1.00	3
			A757797	145.00	146.00	1.00	3
			A757798	146.00	147.00	1.00	7
			A757799	147.00	148.00	1.00	5
			A757800	148.00	149.00	1.00	8
			A757801	149.00	150.00	1.00	3
			A757802	150.00	151.00	1.00	9
			A757804	151.00	152.00	1.00	5
		Minor Interval:	A757805	152.00	153.00	1.00	5
		144.90 147.15 1M <i>Silicified and mineralized mafic volc.</i>	A757806	153.00	154.00	1.00	29
		Moderate insitu brecciation and shearing with 10-15% quartz fracture fill and 3-5% fine grained po>cpy as fracture fill.	A757807	154.00	155.00	1.00	23
		Minor Interval:	A757808	155.00	156.00	1.00	5
		152.90 157.00 1M <i>Silicified and mineralized mafic volc.</i>	A757810	156.00	157.00	1.00	11
		Moderately brecciated and sheared with 10-15% quartz fill and 5-7% po>py>cpy as fracture fill and associated with low angle 1-3cm quartz veins at 20 DTCA.					
165.70	170.36	5B <i>Intermediate Biotitic Intrusive</i> Light grey medium to coarse grained massive unaltered, Lower contact is sharp at 51 DTCA.					
170.36	190.50	1A <i>Altered Mafic Volcanic</i> Dark green to black green, fine grained, massive to locally brecciated over 5-20cm. Moderate pervasive silica alteration and chlorite. Breccia are light white grey fracture fill with trace py. 1-3mm quartz veinlets at 31 and 50 degrees to core axis. Lower contact is a light white grey quartz vein at 56 DTCA.					

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
190.50	202.52	2 Gabbro Light to medium green, medium grained, massive with weak to moderate silica alteration. Occasional irregular light white buff cherty quartz veins up to 20cm at approximately 28 DTCA. No sulphides observed. Lower contact is brecciated with quartz fracture fill and vwin at 36 degrees to core axis.					
202.52	261.31	1A Altered Mafic Volcanic Dark black grey to locally grey green, fine grained, massive to locally weakly sheared and moderately brecciated. Moderate to strong pervasive silica alteration, locally moderate chlorite +/- biotite and local garnets in pillow salvages. Locally brecciated over 10-40cm with light white grey sugary quartz fracture fill moderate chlorite alteration associated with brecciation +/- biotite. Trace to 3% fine grained po/py>>cpy associated with breccia as fracture fill. Occasional 1-10mm light white grey quartz +/- carbonate veinlets at 30 and 65 DTCA.	A757811	213.00	214.00	1.00	6
			A757812	214.00	215.00	1.00	5
			A757813	215.00	216.00	1.00	5
			A757814	216.00	217.00	1.00	3
			A757816	217.00	218.00	1.00	12
			A757817	218.00	219.00	1.00	13
			A757818	219.00	220.00	1.00	63
			A757819	220.00	221.00	1.00	169
			A757820	241.00	242.00	1.00	9
			A757821	242.00	243.00	1.00	5
			A757822	243.00	244.00	1.00	3
			A757824	244.00	245.00	1.00	7
			A757825	245.00	246.00	1.00	6
			A757826	246.00	247.00	1.00	11
			A757827	247.00	248.00	1.00	14
		Minor Interval: 202.52 220.90 1A <i>Altered Mafic Volcanic</i> Possible pillow basalt with garnet rich salvages. Locally strongly brecciated with light white grey quartz fracture fill makes up approximately 20% of interval with 1-2% fine grained fracture fill py/po.					

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> (ppb)
261.31	280.75	1M Silicified and mineralized mafic volc. Light grey green to grey brown, fine grained, moderate to locally strong foliation and brecciation at 47-53 DTCA. Moderate to strong pervasive silica alteration with moderate to locally strong chlorite / biotite alteration. 20-30% of interval is smoky grey white quartz fracture fill with 2-4% fine grained po/py>>cpy as fracture fill and along foliation margins. Lowercontact is sharp at 45 DTCA.	A757828	261.00	262.00	1.00	240
			A757829	262.00	263.00	1.00	724
			A757831	263.00	264.00	1.00	1270
			A757832	264.00	265.00	1.00	3220
			A757833	265.00	266.00	1.00	238
			A757834	266.00	267.00	1.00	51
			A757836	267.00	268.00	1.00	92
			A757838	268.00	269.00	1.00	151
		Minor Interval:	A757839	269.00	270.00	1.00	99
		271.11 272.12 12	A757840	270.00	271.10	1.10	143
		Lamprophere Dark grey black, medium grained massive with sharp contacts at 53 DTCA.	A757841	271.10	272.20	1.10	196
			A757842	272.20	273.00	0.80	602
			A757843	273.00	274.00	1.00	620
			A757845	274.00	275.00	1.00	2860
			A757846	275.00	276.00	1.00	2290
			A757847	276.00	277.00	1.00	1110
			A757849	277.00	278.00	1.00	2660
			A757850	278.00	279.00	1.00	468
			A757851	279.00	280.00	1.00	257
			A757852	280.00	280.75	0.75	23
280.75	281.60	5B Intermediate Biotitic Intrusive Light white grey, medium grained, massive, quartz-seldspar-biotite intrusive sharp lower contact at 42 DTCA.					

LITHOLOGY REPORT

- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From (m)</i>	<i>To (m)</i>		<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL Au (ppb)</i>
281.60	287.29	1	<i>Mafic Volcanics</i> Light grey, fine grained, massive, weakly silicified mafic volcanic. No sulphides observed. Lower contact is faulted at 53 DTCA.					
287.29	287.89	6	<i>Fault, Shear Zone</i> Strongly brecciated and faulted with 30-40% light white quartz fracture fill. 3-5mm clay fault gouge at 53 DTCA. Lower contact is brecciated.					
287.89	300.70	1A	<i>Altered Mafic Volcanic</i> Light to medium grey, fine grained. Weak to locally moderately sheared at 41-44 DTCA, weak local insitu brecciation with <1mm quartz fracture fill. Moderate to locally strong pervasive silica alteration. 1-2\$ fine grained py-po associated with foliation planes. Lower contact is gradational.	A757853	297.00	298.00	1.00	9
				A757854	298.00	299.00	1.00	2250
				A757855	299.00	300.00	1.00	391
300.70	317.10	1	<i>Mafic Volcanics</i> Medium grey, fine grained, massive. Moderate pervasive silica alteration locally minor chlorite. Occasional 1-10mm quartz veinlets at 20-25 DTCA. No sulphides observed.	A757856	315.00	316.00	1.00	10
				A757857	316.00	317.00	1.00	10

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> (m)	<i>To</i> (m)	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL Au</i> (ppb)
317.10	322.24	1M <i>Silicified and mineralized mafic volc.</i> Medium grey green to brown grey, fine grained, massive to locally moderately sheared and brecciated at 45-50 DTCA. Smoky grey quartz as fracture fill with 2-3% very fine grained py/po as fracture fill. Moderate to locally strong silica / biotite / chlorite alteration. Lower contact is a 10cm smoky grey white quartz vein at 80 DTCA.	A757859 A757860 A757861 A757862 A757863	317.00 318.00 319.00 320.00 321.00	318.00 319.00 320.00 321.00 322.20	1.00 1.00 1.00 1.00 1.20	16 20 72 540 31
322.24	343.55	2 <i>Gabbro</i> Medium green, medium grained, massive with locally moderate chlorite alteration. Lower contact is sharp at 59 DTCA.	A757864	322.20	323.00	0.80	9
343.55	390.00	1A <i>Altered Mafic Volcanic</i> Dark green, fine grained, massive, weak to locally moderately chloritised. Occasional 1-20mm light white grey quartz vein at 70-80 degrees to core axis. No sulphides observed					
390.00	0.00	End of Hole					

LITHOLOGY REPORT
- Detailed -

Hole Number: **WL-2018-026**

Project: **WIRE LAKE**

Project Number: **001**

<i>From</i> <i>(m)</i>	<i>To</i> <i>(m)</i>	<i>Lithology</i>	<i>Sample #</i>	<i>From</i>	<i>To</i>	<i>Length</i>	<i>-FINAL</i> <i>Au</i> <i>(ppb)</i>
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APPENDIX – II

Drill Hole Laboratory Certificates



Date Submitted: 15-Oct-18
Invoice No.: A18-15006
Invoice Date: 23-Nov-18
Your Reference: Wire Lake

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

430 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A18-15006**

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:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with loops and a long horizontal stroke at the end.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757223	< 5	
A757224	11	
A757225	7	
A757226	4740	4.11
A757227	< 5	
A757228	< 5	
A757229	< 5	
A757230	< 5	
A757231	5	
A757232	5	
A757233	8	
A757234	< 5	
A757235	14	
A757236	25	
A757237	10	
A757238	< 5	
A757239	< 5	
A757240	13	
A757241	1940	
A757242	35	
A757243	89	
A757244	10	
A757245	163	
A757246	< 5	
A757247	11	
A757248	4220	4.69
A757249	20	
A757250	78	
A757251	24	
A757252	80	
A757253	284	
A757254	15	
A757255	6	
A757256	22	
A757257	< 5	
A757258	64	
A757259	> 5000	14.1
A757260	22	
A757261	16	
A757262	32	
A757263	29	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757264	65	
A757265	77	
A757266	27	
A757267	20	
A757268	40	
A757269	< 5	
A757270	25	
A757271	111	
A757272	148	
A757273	43	
A757274	15	
A757275	< 5	
A757276	< 5	
A757277	1990	
A757278	< 5	
A757279	45	
A757280	< 5	
A757281	22	
A757282	< 5	
A757283	6	
A757284	41	
A757285	12	
A757286	< 5	
A757287	< 5	
A757288	22	
A757289	25	
A757290	14	
A757291	13	
A757292	> 5000	13.8
A757293	< 5	
A757294	< 5	
A757295	< 5	
A757296	12	
A757297	< 5	
A757298	< 5	
A757299	20	
A757300	27	
A757301	< 5	
A757302	4280	4.23
A757303	15	
A757304	8	
A757305	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757306	< 5	
A757307	< 5	
A757308	42	
A757309	5	
A757310	15	
A757311	< 5	
A757312	77	
A757313	98	
A757314	28	
A757315	1640	
A757316	7	
A757317	5	
A757318	7	
A757319	84	
A757320	< 5	
A757321	< 5	
A757322	< 5	
A757323	< 5	
A757324	< 5	
A757325	53	
A757326	4110	4.39
A757327	94	
A757328	36	
A757329	29	
A757330	33	
A757331	19	
A757332	< 5	
A757333	38	
A757334	20	
A757335	60	
A757336	15	
A757337	< 5	
A757338	153	
A757339	12	
A757340	82	
A757341	11	
A757342	< 5	
A757343	< 5	
A757344	< 5	
A757345	11	
A757346	1810	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757347	202	
A757348	12	
A757349	10	
A757350	6	
A757351	11	
A757352	16	
A757353	5	
A757354	36	
A757355	9	
A757356	109	
A757357	17	
A757358	36	
A757359	57	
A757360	31	
A757361	103	
A757362	59	
A757363	> 5000	12.9
A757364	13	
A757365	72	
A757366	91	
A757367	< 5	
A757368	33	
A757369	156	
A757370	8	
A757371	25	
A757372	12	
A757373	15	
A757374	26	
A757375	< 5	
A757376	5	
A757377	1320	
A757378	902	
A757379	38	
A757380	79	
A757381	48	
A757382	26	
A757383	140	
A757384	716	
A757385	1800	
A757386	33	
A757387	115	
A757388	258	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757389	306	
A757390	64	
A757391	245	
A757392	216	
A757393	43	
A757394	< 5	
A757395	6	
A757396	< 5	
A757397	19	
A757398	< 5	
A757399	31	
A757400	17	
A757401	19	
A757402	< 5	
A757403	16	
A757404	366	
A757405	4080	4.15
A757406	7	
A757407	68	
A757408	62	
A757409	< 5	
A757410	20	
A757411	20	
A757412	12	
A757413	183	
A757414	30	
A757415	42	
A757416	88	
A757417	15	
A757418	86	
A757419	90	
A757420	38	
A757421	38	
A757422	6	
A757423	4070	4.22
A757424	15	
A757425	53	
A757426	236	
A757427	237	
A757428	7	
A757429	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757430	< 5	
A757431	7	
A757432	7	
A757433	8	
A757434	9	
A757435	< 5	
A757436	< 5	
A757437	> 5000	14.1
A757438	< 5	
A757439	< 5	
A757440	14	
A757441	< 5	
A757442	< 5	
A757443	< 5	
A757444	< 5	
A757445	5	
A757446	< 5	
A757447	< 5	
A757448	< 5	
A757449	< 5	
A757450	158	
A757451	6	
A757452	7	
A757453	13	
A757454	10	
A757455	< 5	
A757456	5	
A757457	1690	
A757458	7	
A757459	8	
A757460	9	
A757461	17	
A757462	15	
A757463	< 5	
A757464	16	
A757465	25	
A757466	47	
A757467	29	
A757468	< 5	
A757469	< 5	
A757470	< 5	
A757471	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757472	< 5	
A757473	< 5	
A757474	5	
A757475	6	
A757476	4070	4.20
A757477	< 5	
A757478	5	
A757479	7	
A757480	< 5	
A757481	< 5	
A757482	< 5	
A757483	< 5	
A757484	< 5	
A757485	< 5	
A757486	< 5	
A757487	< 5	
A757488	< 5	
A757489	< 5	
A757490	375	
A757491	< 5	
A757492	< 5	
A757493	< 5	
A757494	6	
A757495	6	
A757496	5	
A757497	7	
A757498	10	
A757499	65	
A757500	1140	
A757501	40	
A757502	122	
A757503	72	
A757504	150	
A757505	5	
A757506	55	
A757507	85	
A757508	141	
A757509	126	
A757510	19	
A757511	297	
A757512	4080	4.15

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757513	273	
A757514	< 5	
A757515	138	
A757516	48	
A757517	62	
A757518	219	
A757519	16	
A757520	11	
A757521	12	
A757522	399	
A757523	12	
A757524	< 5	
A757525	6	
A757526	7	
A757527	17	
A757528	46	
A757529	71	
A757530	35	
A757531	17	
A757532	1100	
A757533	29	
A757534	23	
A757535	77	
A757536	20	
A757537	< 5	
A757538	17	
A757539	22	
A757540	21	
A757541	28	
A757542	17	
A757543	< 5	
A757544	< 5	
A757545	4290	4.18
A757546	< 5	
A757547	< 5	
A757548	< 5	
A757549	5	
A757550	< 5	
A757551	5	
A757552	< 5	
A757553	5	
A757554	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757555	428	
A757556	< 5	
A757557	< 5	
A757558	9	
A757559	7	
A757560	< 5	
A757561	5	
A757562	3980	4.25
A757563	< 5	
A757564	< 5	
A757565	< 5	
A757566	< 5	
A757567	< 5	
A757568	< 5	
A757569	< 5	
A757570	< 5	
A757571	< 5	
A757572	< 5	
A757573	< 5	
A757574	< 5	
A757575	< 5	
A757576	< 5	
A757577	368	
A757578	< 5	
A757579	< 5	
A757580	< 5	
A757581	< 5	
A757582	< 5	
A757583	< 5	
A757584	1160	
A757585	< 5	
A757586	< 5	
A757587	< 5	
A757588	< 5	
A757589	5	
A757590	< 5	
A757591	< 5	
A757592	< 5	
A757593	5	
A757594	7	
A757595	314	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757596	< 5	
A757597	< 5	
A757598	< 5	
A757599	< 5	
A757600	< 5	
A757601	< 5	
A757602	7	
A757603	9	
A757604	< 5	
A757605	< 5	
A757606	19	
A757607	25	
A757608	55	
A757609	14	
A757610	9	
A757611	6	
A757612	6	
A757613	4230	4.78
A757614	6	
A757615	7	
A757616	5	
A757617	201	
A757618	38	
A757619	10	
A757620	5	
A757621	< 5	
A757622	< 5	
A757623	< 5	
A757624	< 5	
A757625	< 5	
A757626	< 5	
A757627	< 5	
A757628	1110	
A757629	11	
A757630	172	
A757631	212	
A757632	27	
A757633	129	
A757634	< 5	
A757635	126	
A757636	125	
A757637	149	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757638	4250	4.25
A757639	74	
A757640	416	
A757641	140	
A757642	26	
A757643	58	
A757644	49	
A757645	90	
A757646	129	
A757647	< 5	
A757648	129	
A757649	86	
A757650	74	
A757651	343	
A757652	67	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.70
OREAS 216 (Fire Assay) Cert		6.66
OREAS 216 (Fire Assay) Meas		6.66
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Meas	2500	
OREAS 254 Cert	2550	
OREAS 254 Meas	2460	
OREAS 254 Cert	2550	
OREAS 254 Meas	2440	
OREAS 254 Cert	2550	
OREAS 254 Meas	2450	
OREAS 254 Cert	2550	
OREAS 254 Meas	2420	
OREAS 254 Cert	2550	
OREAS 254 Meas	2490	
OREAS 254 Cert	2550	
OREAS 254 Meas	2500	
OREAS 254 Cert	2550	
OREAS 254 Meas	2540	
OREAS 254 Cert	2550	
OREAS 254 Meas	2550	
OREAS 254 Cert	2550	
OREAS 254 Meas	2510	
OREAS 254 Cert	2550	
OREAS 254 Meas	2550	
OREAS 254 Cert	2550	
OREAS 254 Meas	2510	
OREAS 254 Cert	2550	
OREAS 254 Meas	2500	
OREAS 254 Cert	2550	
OREAS 257 Meas		14.0
OREAS 257 Cert		14.18
OREAS 257 Meas		14.3
OREAS 257 Cert		14.18
Oreas 221 (Fire Assay) Meas	1030	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire	1020	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
Assay) Meas		
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1030	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	999	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1010	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1010	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1010	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1010	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1010	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1060	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1050	
Oreas 221 (Fire Assay) Cert	1060	
A757232 Orig	5	
A757232 Dup	5	
A757242 Orig	36	
A757242 Dup	33	
A757252 Orig	85	
A757252 Dup	74	
A757267 Orig	23	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757267 Dup	17	
A757272 Orig	148	
A757272 Split PREP DUP	161	
A757276 Orig	< 5	
A757276 Dup	< 5	
A757287 Orig	< 5	
A757287 Dup	< 5	
A757301 Orig	< 5	
A757301 Dup	< 5	
A757312 Orig	78	
A757312 Dup	76	
A757321 Orig	< 5	
A757321 Dup	< 5	
A757323 Orig	< 5	
A757323 Split PREP DUP	< 5	
A757338 Orig	139	
A757338 Dup	166	
A757349 Orig	12	
A757349 Dup	8	
A757359 Orig	54	
A757359 Dup	59	
A757370 Orig	7	
A757370 Dup	8	
A757372 Orig	12	
A757372 Split PREP DUP	10	
A757379 Orig	43	
A757379 Dup	33	
A757389 Orig	306	
A757407 Orig	80	
A757407 Dup	56	
A757418 Orig	75	
A757418 Dup	97	
A757422 Orig	6	
A757422 Split PREP DUP	5	
A757427 Orig	200	
A757427 Dup	274	
A757438 Orig	< 5	
A757438 Dup	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757448 Orig	< 5	
A757448 Dup	< 5	
A757458 Orig	7	
A757458 Dup	7	
A757472 Orig	< 5	
A757472 Split PREP DUP	< 5	
A757473 Orig	< 5	
A757473 Dup	< 5	
A757482 Orig	< 5	
A757482 Dup	< 5	
A757492 Orig	< 5	
A757492 Dup	< 5	
A757507 Orig	85	
A757507 Dup	85	
A757517 Orig	62	
A757517 Dup	62	
A757523 Orig	12	
A757523 Split PREP DUP	11	
A757526 Orig	7	
A757526 Dup	6	
A757544 Orig	< 5	
A757544 Dup	< 5	
A757556 Orig	< 5	
A757556 Dup	13	
A757565 Orig	< 5	
A757565 Dup	< 5	
A757572 Orig	< 5	
A757572 Split PREP DUP	< 5	
A757575 Orig	< 5	
A757575 Dup	< 5	
A757585 Orig	< 5	
A757585 Dup	< 5	
A757596 Orig	< 5	
A757596 Dup	< 5	
A757610 Orig	8	
A757610 Dup	9	
A757620 Orig	5	
A757620 Dup	5	
A757623 Orig	< 5	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757623 Split PREP DUP	< 5	
A757629 Orig	11	
A757629 Dup	10	
A757644 Orig	49	
A757644 Dup	48	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
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Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02
Method Blank		< 0.02



Date Submitted: 19-Oct-18
Invoice No.: A18-15491
Invoice Date: 30-Nov-18
Your Reference: Wire Lake

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

212 Core samples were submitted for analysis.

The following analytical package(s) were requested:

Code 1A2-50-Tbay Au - Fire Assay AA(QOP Fire Assay Tbay)

REPORT **A18-15491**

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3

Footnote: A757719 is insufficient for 1A3

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive style with some loops and is positioned above a horizontal line.

Emmanuel Esemé , Ph.D.
Quality Control

ACTIVATION LABORATORIES LTD.
1201 Walsh Street West, Thunder Bay, Ontario, Canada, P7E 4X6
TELEPHONE +807 622-6707 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Tbay@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757653	28	
A757654	5	
A757655	< 5	
A757656	< 5	
A757657	< 5	
A757658	< 5	
A757659	4130	4.23
A757660	< 5	
A757661	5	
A757662	< 5	
A757663	< 5	
A757664	< 5	
A757665	< 5	
A757666	11	
A757667	< 5	
A757668	12	
A757669	< 5	
A757670	< 5	
A757671	< 5	
A757672	28	
A757673	< 5	
A757674	< 5	
A757675	34	
A757676	385	
A757677	28	
A757678	31	
A757679	324	
A757680	20	
A757681	73	
A757682	90	
A757683	< 5	
A757684	39	
A757685	28	
A757686	10	
A757687	7	
A757688	8	
A757689	5	
A757690	< 5	
A757691	< 5	
A757692	< 5	
A757693	14	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757694	7	
A757695	8	
A757696	1300	
A757697	< 5	
A757698	6	
A757699	6	
A757700	5	
A757701	6	
A757702	6	
A757703	9	
A757704	6	
A757705	6	
A757706	13	
A757707	9	
A757708	50	
A757709	6	
A757710	12	
A757711	7	
A757712	7	
A757713	7	
A757714	7	
A757715	103	
A757716	31	
A757717	37	
A757718	34	
A757719	4240	
A757720	20	
A757721	48	
A757722	31	
A757723	28	
A757724	22	
A757725	< 5	
A757726	< 5	
A757727	< 5	
A757728	< 5	
A757729	5	
A757730	8	
A757731	< 5	
A757732	6	
A757733	333	
A757734	28	
A757735	18	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757736	7	
A757737	29	
A757738	< 5	
A757739	< 5	
A757740	12	
A757741	10	
A757742	14	
A757743	4240	4.20
A757744	6	
A757745	< 5	
A757746	5	
A757747	43	
A757748	33	
A757749	38	
A757750	< 5	
A757751	< 5	
A757752	6	
A757753	< 5	
A757754	6	
A757755	5	
A757756	8	
A757757	< 5	
A757758	374	
A757759	< 5	
A757760	16	
A757761	18	
A757762	7	
A757763	< 5	
A757764	8	
A757765	1180	
A757766	27	
A757767	22	
A757768	11	
A757769	24	
A757770	< 5	
A757771	6	
A757772	< 5	
A757773	< 5	
A757774	< 5	
A757775	< 5	
A757776	382	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757777	49	
A757778	< 5	
A757779	< 5	
A757780	7	
A757781	11	
A757782	54	
A757783	651	
A757784	101	
A757785	84	
A757786	< 5	
A757787	209	
A757788	81	
A757789	8	
A757790	< 5	
A757791	7	
A757792	6	
A757793	7	
A757794	4290	4.27
A757795	7	
A757796	< 5	
A757797	< 5	
A757798	7	
A757799	5	
A757800	8	
A757801	< 5	
A757802	9	
A757803	5	
A757804	5	
A757805	5	
A757806	29	
A757807	23	
A757808	5	
A757809	1210	
A757810	11	
A757811	6	
A757812	5	
A757813	5	
A757814	< 5	
A757815	4280	4.30
A757816	12	
A757817	13	
A757818	63	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757819	169	
A757820	9	
A757821	5	
A757822	< 5	
A757823	< 5	
A757824	7	
A757825	6	
A757826	11	
A757827	14	
A757828	240	
A757829	724	
A757830	359	
A757831	1270	
A757832	3220	3.47
A757833	238	
A757834	51	
A757835	10	
A757836	92	
A757837	1250	
A757838	151	
A757839	99	
A757840	143	
A757841	196	
A757842	602	
A757843	620	
A757844	< 5	
A757845	2860	
A757846	2290	
A757847	1110	
A757848	413	
A757849	2660	
A757850	468	
A757851	257	
A757852	23	
A757853	9	
A757854	2250	
A757855	391	
A757856	10	
A757857	10	
A757858	< 5	
A757859	16	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757860	20	
A757861	72	
A757862	540	
A757863	31	
A757864	9	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
OREAS 216 (Fire Assay) Meas		6.67
OREAS 216 (Fire Assay) Cert		6.66
OREAS 254 Meas	2510	
OREAS 254 Cert	2550	
OREAS 254 Meas	2580	
OREAS 254 Cert	2550	
OREAS 254 Meas	2580	
OREAS 254 Cert	2550	
OREAS 254 Meas	2540	
OREAS 254 Cert	2550	
OREAS 254 Meas	2580	
OREAS 254 Cert	2550	
OREAS 254 Meas	2510	
OREAS 254 Cert	2550	
OREAS 254 Meas	2540	
OREAS 254 Cert	2550	
Oreas 221 (Fire Assay) Meas	989	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1070	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1070	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1020	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1060	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1050	
Oreas 221 (Fire Assay) Cert	1060	
Oreas 221 (Fire Assay) Meas	1050	
Oreas 221 (Fire Assay) Cert	1060	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
Assay) Cert		
OREAS 255 (Fire Assay) Meas		4.15
OREAS 255 (Fire Assay) Cert		4.08
A757662 Orig	< 5	
A757662 Dup	< 5	
A757672 Orig	22	
A757672 Dup	33	
A757682 Orig	104	
A757682 Dup	75	
A757697 Orig	< 5	
A757697 Dup	< 5	
A757702 Orig	6	
A757702 Split PREP DUP	7	
A757706 Orig	13	
A757706 Dup	13	
A757716 Orig	32	
A757716 Dup	30	
A757731 Orig	< 5	
A757731 Dup	< 5	
A757741 Orig	10	
A757741 Dup	10	
A757752 Orig	6	
A757752 Split PREP DUP	6	
A757753 Orig	< 5	
A757753 Dup	< 5	
A757768 Orig	10	
A757768 Dup	11	
A757779 Orig	< 5	
A757779 Dup	6	
A757789 Orig	8	
A757789 Dup	8	
A757802 Orig	9	
A757802 Split PREP DUP	16	
A757804 Orig	5	
A757804 Dup	5	
A757811 Orig	6	
A757811 Dup	5	
A757820 Orig	8	

Analyte Symbol	Au	Au
Unit Symbol	ppb	g/tonne
Lower Limit	5	0.02
Method Code	FA-AA	FA- GRA
A757820 Dup	9	
A757832 Orig		3.16
A757832 Dup		3.77
A757834 Orig	51	
A757834 Dup	50	
A757845 Orig	2780	
A757845 Dup	2930	
A757852 Orig	23	
A757852 Split PREP DUP	23	
A757853 Orig	8	
A757853 Dup	9	
A757859 Orig	15	
A757859 Dup	16	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
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Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank	< 5	
Method Blank		< 0.02



Date Submitted: 04-Jan-19
Invoice No.: A19-00223
Invoice Date: 22-Feb-19
Your Reference: WIR

Canadian Orebodies Inc.
141 Adelaide Street West, Suite 301
Toronto ON M5H 3L5
Canada

ATTN: President Gordon McKinnon

CERTIFICATE OF ANALYSIS

338 Pulp samples were submitted for analysis.

The following analytical package(s) were requested:

Code UT-6M-RedPine Total Digestion ICP & ICP/MS

REPORT **A19-00223**

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Notes:

Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY:

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is stylized with a large, looped 'E' and a long horizontal stroke at the end.

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

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757468	0.12	6.54	0.8	180	0.44	0.14	8.16	0.13	11.6	48.4	163	2.49	133	9.04	13.1	0.23	0.6	0.051	0.57	4.7	21.9	2.70	2020
A757469	0.07	6.37	< 0.2	140	0.43	0.07	8.28	0.08	11.7	40.5	88	2.05	78.3	9.04	15.5	0.18	0.5	0.081	0.46	4.3	20.0	2.77	2050
A757470	0.06	6.45	0.3	70	0.30	0.03	5.95	0.06	10.5	45.4	155	1.23	83.0	8.68	12.7	0.18	0.4	0.056	0.24	4.0	32.8	4.27	1550
A757471	0.04	6.58	< 0.2	60	0.25	0.01	6.32	0.08	10.8	42.9	186	0.64	67.9	8.64	14.3	0.14	0.7	0.068	0.18	4.3	23.9	4.76	1480
A757472	0.04	6.83	< 0.2	50	0.33	0.01	6.38	0.12	10.5	49.5	197	0.66	75.7	8.21	14.7	0.14	0.8	0.069	0.14	4.0	25.4	4.46	1480
A757473	0.06	6.74	< 0.2	60	0.29	0.02	6.27	0.11	10.3	43.3	258	1.02	74.2	8.51	13.5	0.12	0.9	0.050	0.18	4.0	28.1	4.52	1650
A757475	0.09	6.47	< 0.2	110	0.32	0.03	6.45	0.09	10.4	44.4	234	1.11	98.3	9.26	13.9	0.35	0.9	0.062	0.44	4.1	33.8	4.01	1930
A757477	0.14	6.28	< 0.2	200	0.34	0.13	8.32	0.07	11.3	38.6	128	1.10	103	10.9	12.6	0.28	1.3	0.059	0.67	4.4	26.6	2.26	2550
A757478	0.08	6.34	< 0.2	220	0.69	0.10	7.78	0.06	9.80	41.9	201	1.65	95.7	9.02	12.0	0.23	0.5	0.061	0.69	3.9	34.3	3.16	1930
A757479	0.06	6.50	0.2	190	0.45	0.04	6.53	0.05	10.6	44.3	137	2.61	94.6	8.15	13.8	0.41	0.7	0.060	0.67	4.2	56.6	4.15	1350
A757480	0.06	7.10	0.3	60	0.29	0.03	6.56	0.13	10.8	44.6	87	0.63	67.7	8.52	15.4	0.22	1.0	0.066	0.35	4.3	17.3	4.22	1360
A757481	0.13	6.63	2.4	130	0.49	0.08	6.35	0.04	10.7	39.0	64	1.82	74.4	6.67	15.6	0.13	0.6	0.057	0.75	4.2	22.4	3.28	1130
A757482	0.04	6.76	< 0.2	50	0.27	0.01	6.15	0.05	11.2	46.1	79	0.70	90.4	8.05	14.6	0.31	0.8	0.063	0.15	4.3	14.8	4.09	1340
A757483	0.04	6.88	< 0.2	50	0.32	< 0.01	5.80	0.04	11.0	50.1	81	0.39	126	8.85	15.1	0.18	0.5	0.071	0.17	4.0	19.3	4.15	1550
A757484	0.03	6.54	< 0.2	270	0.83	0.02	6.29	0.08	26.7	39.8	115	0.84	59.7	7.34	13.5	0.10	0.8	0.058	0.66	11.6	24.3	3.70	1360
A757485	0.05	6.50	0.6	50	0.38	0.03	6.48	0.05	10.3	41.7	93	0.29	81.4	7.78	14.0	0.11	0.3	0.075	0.16	4.0	11.2	3.62	1370
A757487	0.06	7.03	0.3	110	0.32	0.04	6.51	0.08	11.1	45.4	77	1.36	112	8.44	15.6	0.22	1.0	0.066	0.41	4.3	22.7	3.89	1520
A757488	0.04	6.66	< 0.2	70	0.41	0.01	5.87	0.05	11.7	45.5	77	0.66	110	8.51	15.5	0.32	0.7	0.072	0.23	4.6	20.4	3.84	1510
A757489	0.06	6.78	< 0.2	40	0.27	0.02	6.02	0.10	12.2	47.2	87	0.20	98.9	8.35	14.7	0.25	1.1	0.073	0.14	4.8	13.6	3.75	1510
A757491	0.08	6.57	< 0.2	40	0.30	0.03	5.56	0.12	11.1	43.3	83	0.25	94.1	8.42	14.5	0.35	1.1	0.068	0.15	4.3	11.9	3.59	1600
A757492	0.07	6.47	0.2	40	0.24	0.05	6.21	0.22	11.4	41.6	75	0.27	87.4	8.24	13.8	0.25	0.7	0.067	0.22	4.5	13.3	3.28	1730
A757493	0.07	6.61	< 0.2	60	0.36	0.04	5.35	0.13	11.6	43.9	74	0.73	95.5	8.29	14.2	0.30	0.8	0.066	0.29	4.6	29.8	3.80	1680
A757494	0.07	6.39	< 0.2	60	0.28	0.04	5.90	0.09	11.6	42.4	146	2.78	84.1	9.56	14.8	0.27	0.6	0.070	0.42	4.5	46.1	3.77	1960
A757495	0.06	6.64	< 0.2	80	0.51	0.09	8.62	0.06	11.2	38.6	129	1.47	75.1	8.78	13.4	0.24	0.8	0.066	0.48	4.5	23.4	3.06	2040
A757496	0.11	6.45	0.3	90	0.56	0.14	8.32	0.08	10.6	41.2	130	3.61	81.2	9.32	13.0	0.20	1.0	0.062	0.58	4.1	27.9	3.38	2060
A757497	0.11	6.82	0.7	110	0.40	0.08	7.65	0.10	10.7	44.0	95	4.59	76.0	9.26	14.2	0.34	1.3	0.066	0.82	4.0	34.8	3.86	1850
A757498	0.06	6.77	1.9	860	1.76	0.08	3.66	0.06	61.1	19.4	56	5.74	22.7	4.56	10.1	0.31	3.0	0.031	2.05	30.8	52.6	1.78	867
A757499	0.17	6.53	0.3	120	0.55	0.09	7.01	0.12	11.8	45.8	132	5.20	91.4	9.14	15.2	0.30	1.3	0.064	1.18	4.7	43.5	3.70	1660
A757501	0.14	4.62	1.0	180	0.74	0.09	10.6	0.12	9.16	50.3	247	2.13	75.4	6.21	11.8	0.25	0.9	0.044	1.06	3.9	36.0	3.83	1420
A757502	0.32	4.04	3.1	180	1.41	0.15	13.1	0.17	7.70	43.2	291	1.02	61.9	6.80	11.6	< 0.05	0.5	0.048	0.91	3.1	46.9	5.46	2010
A757503	0.35	6.08	1.6	490	1.89	0.13	6.62	0.21	45.9	43.8	217	2.51	119	8.22	8.74	0.14	3.5	0.065	1.13	20.6	34.2	4.96	1390
A757504	0.30	5.54	1.2	400	1.73	0.23	7.26	0.18	50.4	45.2	223	2.72	115	7.74	9.63	0.14	3.5	0.058	1.08	23.2	31.8	4.85	1390
A757506	0.28	7.11	1.6	440	1.54	0.16	3.93	0.09	47.3	25.9	117	2.52	60.2	5.31	13.9	< 0.05	2.6	0.049	1.78	22.6	27.1	2.97	917
A757507	0.25	7.96	2.3	840	1.38	0.13	3.46	0.12	110	17.0	19	3.51	21.3	5.17	14.3	0.16	3.0	0.040	1.94	47.9	33.9	1.58	646
A757508	0.29	7.05	2.4	650	1.45	0.14	3.70	0.07	69.3	28.0	114	3.35	44.6	5.40	13.4	< 0.05	2.9	0.056	1.72	31.8	37.7	2.96	834
A757509	0.36	5.52	3.0	390	1.72	0.17	6.72	0.12	28.1	44.3	247	1.89	83.8	6.89	10.8	0.28	2.1	0.049	1.44	13.1	42.8	4.64	1270
A757510	0.10	6.91	0.7	920	1.88	0.06	4.60	0.07	59.3	29.5	126	2.65	43.6	5.96	7.39	0.08	2.3	0.050	2.47	27.2	54.1	3.17	1030
A757511	0.88	5.67	3.0	100	2.13	0.31	6.61	0.14	49.7	38.2	251	3.20	97.0	7.20	14.6	< 0.05	3.6	0.061	1.75	22.7	41.9	3.97	1310
A757513	0.58	6.11	2.2	120	1.90	0.21	5.60	0.09	50.9	33.0	153	2.87	88.9	6.38	14.5	0.07	3.3	0.044	1.89	23.4	26.7	3.71	1130
A757515	0.25	6.46	1.3	640	1.90	0.16	5.81	0.05	48.3	32.1	145	4.76	88.8	6.09	9.26	< 0.05	2.6	0.046	2.07	23.1	30.6	3.72	1110
A757516	0.19	6.82	2.2	580	1.11	0.11	4.98	0.05	56.1	28.3	125	2.64	42.0	5.28	11.8	< 0.05	2.5	0.032	1.76	29.0	26.5	3.05	953
A757517	0.25	7.11	1.0	580	1.15	0.06	4.87	0.07	59.2	29.1	118	2.50	44.6	5.31	13.0	0.07	2.7	0.043	1.94	30.9	26.0	3.03	933

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757518	0.84	5.41	3.2	90	1.66	0.24	5.89	0.13	55.2	41.2	266	5.09	43.9	6.07	18.3	< 0.05	2.4	0.042	2.44	25.0	42.0	3.78	985
A757519	0.19	6.52	2.1	1120	2.27	0.13	4.02	0.11	118	27.7	67	5.66	43.3	5.24	6.06	< 0.05	2.7	0.035	3.10	50.2	35.0	2.94	843
A757520	0.22	5.71	1.7	690	2.37	0.13	5.02	0.08	81.8	40.7	382	7.80	43.1	5.78	9.57	< 0.05	2.3	0.030	2.69	37.8	55.9	4.10	998
A757521	0.17	6.31	0.6	970	2.28	0.11	4.29	0.07	102	26.2	122	5.21	48.7	4.80	7.17	< 0.05	2.2	0.046	2.31	45.2	26.3	3.12	825
A757523	0.19	5.12	1.4	370	2.10	0.11	5.31	0.09	62.7	43.4	420	1.00	49.0	6.09	11.0	< 0.05	3.3	0.040	0.67	28.9	69.4	6.72	1080
A757524	0.10	6.96	1.4	870	1.62	0.09	3.26	0.06	59.3	23.8	107	0.87	41.9	5.07	6.64	< 0.05	2.8	0.042	2.73	27.7	36.8	3.68	878
A757525	0.15	6.16	1.4	910	1.57	0.14	4.44	0.07	59.5	25.4	179	1.50	80.2	5.52	8.44	< 0.05	2.7	0.043	3.41	28.3	34.7	4.02	924
A757526	0.16	6.02	0.8	960	1.92	0.16	3.89	0.05	57.3	27.0	188	1.88	64.1	5.00	5.73	< 0.05	3.0	0.036	3.04	26.4	32.0	3.88	906
A757527	0.24	5.46	0.5	320	1.69	0.34	4.78	0.44	53.7	40.9	276	1.65	70.7	6.11	10.9	< 0.05	3.2	0.062	1.06	25.5	59.8	6.06	1430
A757528	0.87	4.06	0.6	170	1.29	0.26	6.93	0.92	13.3	59.1	981	3.52	117	7.06	12.0	0.38	1.0	0.037	0.99	6.2	37.1	7.56	1390
A757529	0.28	4.74	1.1	80	0.75	0.15	6.68	0.06	3.83	83.2	1590	3.65	72.5	8.94	10.6	0.59	0.8	0.035	0.35	1.5	18.5	9.92	1350
A757530	0.23	4.14	1.6	110	1.15	0.18	8.81	0.04	4.15	68.6	833	1.61	84.8	7.44	10.8	0.42	0.9	0.037	0.44	1.9	18.6	7.62	1620
A757531	0.22	4.14	1.8	90	0.79	0.11	9.93	0.09	15.5	75.3	819	1.63	64.1	8.17	8.57	0.20	1.3	0.035	0.32	7.2	20.0	8.05	1730
A757533	0.11	3.69	5.5	360	1.23	0.06	10.4	0.16	87.3	80.1	677	3.60	68.6	8.99	6.57	0.18	2.9	0.056	0.64	41.2	24.3	8.27	1570
A757534	0.34	4.08	< 0.2	240	0.83	0.10	9.98	0.10	46.7	69.8	695	2.24	91.7	8.96	7.39	0.12	2.7	0.055	0.45	22.2	19.3	8.22	1640
A757535	0.11	4.48	2.4	70	0.40	0.08	8.61	0.08	5.10	99.4	844	1.08	71.3	8.34	10.0	0.06	0.8	0.040	0.35	2.0	29.8	8.15	1580
A757536	0.10	4.01	4.6	30	0.41	0.06	8.41	0.05	3.00	90.6	1090	1.13	71.7	8.40	9.20	0.05	0.7	0.034	0.17	1.1	10.7	9.74	1410
A757538	0.09	5.09	5.6	180	1.00	0.06	7.64	0.09	19.9	67.5	658	2.73	73.0	8.17	10.0	0.20	2.0	0.046	0.47	9.5	30.6	7.56	1510
A757539	0.09	4.38	18.5	100	0.76	0.10	9.05	0.08	9.95	81.8	821	1.45	60.2	7.92	9.12	< 0.05	1.2	0.041	0.43	4.6	33.6	7.97	1640
A757540	0.10	4.81	63.0	120	0.53	0.09	7.82	0.15	3.60	98.2	1090	2.05	67.9	11.0	9.93	0.11	0.8	0.053	0.49	1.5	26.8	6.75	2570
A757541	0.33	3.18	2.6	260	1.22	0.19	6.87	0.05	3.28	63.0	700	2.24	96.8	5.99	7.11	< 0.05	0.6	0.028	0.78	1.4	32.5	4.71	1520
A757542	0.18	4.68	1.7	160	4.38	0.33	13.2	0.14	3.71	80.1	705	0.51	133	8.66	10.5	0.07	0.7	0.058	0.50	1.5	18.2	4.23	2710
A757543	0.08	4.31	3.7	100	0.50	0.20	16.2	0.13	3.70	83.0	678	0.66	59.4	7.27	9.02	0.06	0.7	0.045	0.36	1.5	19.1	2.93	2770
A757544	0.10	4.42	1.8	100	0.28	0.16	13.6	0.09	3.44	78.8	930	0.70	79.4	7.38	8.74	< 0.05	0.7	0.036	0.42	1.4	33.4	3.96	2460
A757546	0.04	5.90	0.6	610	1.26	0.12	8.62	0.09	48.1	64.6	747	1.64	39.5	6.37	5.14	0.33	1.6	0.047	1.64	21.8	36.2	3.27	1600
A757548	0.05	6.18	0.5	890	2.29	0.07	5.96	0.06	82.0	32.8	169	3.51	30.3	5.51	5.71	< 0.05	2.3	0.042	2.31	38.0	43.9	3.11	1090
A757549	0.06	4.48	2.3	160	0.20	0.10	14.2	0.05	4.16	103	897	1.16	67.6	6.47	8.60	0.10	0.7	0.039	0.38	1.7	21.2	3.32	2350
A757550	0.08	4.51	1.4	270	1.36	0.11	11.1	0.07	4.30	83.1	971	1.08	38.8	7.13	6.67	0.17	0.9	0.040	0.74	1.8	20.7	3.46	2300
A757551	0.06	4.86	0.9	170	0.17	0.08	10.6	0.10	3.79	72.1	1030	1.85	48.0	8.07	8.95	< 0.05	0.7	0.047	0.52	1.4	18.7	4.25	2440
A757552	0.04	5.49	1.8	200	0.19	0.03	6.93	0.08	4.27	70.8	1420	4.98	46.8	10.3	9.58	0.14	0.8	0.040	0.64	1.7	34.3	3.55	3240
A757553	0.07	5.21	1.1	190	0.24	0.05	6.64	0.05	4.52	73.2	1290	1.84	72.3	12.5	9.06	0.18	0.8	0.050	0.72	1.8	28.8	3.63	3730
A757554	0.05	5.41	< 0.2	180	0.32	0.05	5.38	0.08	5.10	78.6	1630	1.16	31.5	9.42	10.3	0.36	0.9	0.046	0.76	2.1	43.4	3.77	3010
A757556	0.10	4.37	0.4	250	0.51	0.04	7.41	0.22	4.05	77.2	1570	0.49	49.1	8.78	7.37	0.61	0.6	0.040	0.81	1.7	26.8	5.00	1720
A757557	0.10	5.31	0.7	320	0.24	0.03	7.19	0.07	4.35	74.1	1570	1.45	59.9	8.09	7.09	0.37	0.9	0.047	1.02	1.6	43.1	3.71	1790
A757558	0.18	5.98	1.4	310	0.46	0.04	4.81	0.06	6.01	111	1540	1.21	109	8.78	10.2	0.31	1.0	0.055	1.12	2.5	58.0	4.37	1780
A757559	0.13	6.62	0.7	220	0.34	0.13	8.68	0.09	9.92	41.6	125	1.05	115	10.4	10.1	0.18	1.0	0.062	0.71	3.9	18.3	2.58	2620
A757560	0.16	6.35	0.5	290	0.45	0.20	8.47	0.10	12.1	36.6	81	1.86	154	11.1	11.8	< 0.05	1.3	0.068	0.72	4.7	22.4	2.24	2550
A757561	0.09	6.66	0.6	110	0.29	0.03	6.38	0.04	10.3	46.1	167	1.51	65.8	8.30	13.1	0.41	1.0	0.063	0.44	3.9	29.1	3.85	1590
A757563	0.06	6.38	0.4	130	0.29	0.02	5.92	0.13	9.98	45.3	170	2.38	57.3	8.65	13.0	0.44	1.0	0.070	0.44	3.9	32.2	5.06	1540
A757564	0.05	6.52	< 0.2	90	0.33	0.03	6.54	0.12	10.7	45.6	192	0.83	83.6	8.64	13.8	0.12	0.2	0.074	0.25	4.1	23.4	4.47	1470
A757565	0.06	6.74	< 0.2	100	0.43	0.04	6.29	0.13	12.0	49.3	63	1.34	125	8.92	15.8	0.23	1.0	0.079	0.40	4.5	25.6	3.69	1360
A757566	0.05	6.65	0.5	110	0.42	0.05	5.74	0.09	11.6	50.2	66	2.68	109	8.65	15.2	0.24	1.0	0.065	0.44	4.4	33.0	3.86	1350

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757567	0.08	6.40	< 0.2	110	0.39	0.05	5.73	0.04	11.2	45.9	107	2.76	76.7	8.75	14.5	0.31	1.2	0.061	0.61	4.2	54.9	4.24	1520
A757568	0.07	6.62	0.4	70	0.36	0.04	5.61	0.13	11.8	44.7	94	1.04	79.7	8.02	14.4	0.28	1.4	0.066	0.21	4.6	18.2	3.75	1540
A757569	0.05	6.33	0.6	140	0.72	0.07	4.90	0.14	12.8	37.0	70	2.07	58.9	6.42	14.0	0.36	1.5	0.053	1.09	5.7	19.2	2.86	1170
A757571	0.04	6.49	0.7	510	1.92	0.10	3.25	0.03	52.2	20.0	49	4.65	41.3	4.71	12.4	0.33	2.3	0.033	1.90	26.2	39.5	1.81	879
A757572	0.05	6.57	< 0.2	40	0.38	0.03	6.38	0.09	12.2	45.4	82	0.17	78.1	7.79	15.0	0.25	1.0	0.072	0.15	4.8	13.0	3.63	1410
A757573	0.06	6.83	4.2	50	0.37	0.03	6.63	0.08	12.0	48.5	93	0.44	91.2	8.71	16.4	0.32	0.8	0.073	0.18	4.8	17.6	3.81	1480
A757574	0.07	6.73	1.1	50	0.31	0.04	6.06	0.09	12.3	50.6	89	1.22	103	8.87	17.0	0.32	1.2	0.068	0.28	4.8	24.2	3.81	1450
A757575	0.06	6.71	0.9	200	0.57	0.05	6.50	0.10	14.0	38.1	72	0.86	72.0	7.22	16.9	0.41	1.3	0.048	0.62	6.4	20.6	3.09	1180
A757576	0.07	6.60	3.2	290	0.79	0.03	6.48	0.08	29.0	41.2	86	0.65	73.4	7.80	13.3	0.37	1.6	0.065	0.75	12.8	27.4	3.65	1470
A757578	0.07	6.62	0.7	40	0.31	0.03	6.56	0.11	11.9	45.0	89	0.33	87.9	8.63	14.9	0.36	1.2	0.080	0.15	4.5	13.0	3.76	1560
A757579	0.06	6.75	< 0.2	50	0.34	0.02	5.30	0.12	12.8	48.7	90	0.65	69.9	9.01	15.1	0.28	1.5	0.071	0.15	4.9	29.0	4.23	1520
A757580	0.05	6.71	< 0.2	70	0.37	0.05	5.76	0.07	12.3	49.5	103	3.89	110	9.25	15.6	0.19	1.1	0.069	0.54	4.7	57.9	4.19	1610
A757581	0.14	6.49	< 0.2	60	0.57	0.09	5.69	0.15	12.4	62.5	140	2.15	291	8.58	14.9	0.08	0.7	0.089	0.43	4.9	38.6	3.68	1500
A757583	0.05	6.65	0.6	30	0.35	0.06	5.84	0.04	11.7	44.9	106	2.09	71.6	9.52	16.1	0.27	1.1	0.061	0.31	4.5	54.5	3.83	1620
A757585	0.06	6.23	< 0.2	40	1.28	0.12	8.98	0.08	10.3	41.3	74	1.57	76.0	8.87	15.7	0.54	0.9	0.070	0.38	4.0	28.2	3.18	1790
A757586	0.10	6.42	< 0.2	40	0.26	0.09	8.43	0.06	11.3	40.7	75	1.28	76.2	8.65	14.6	0.31	1.0	0.058	0.35	4.4	24.1	3.11	1840
A757587	0.09	6.61	0.4	60	0.30	0.07	7.72	0.07	11.4	42.2	77	1.39	75.2	9.22	15.1	0.25	1.0	0.071	0.38	4.3	21.2	3.29	1910
A757588	0.06	6.47	< 0.2	40	0.28	0.05	7.25	0.11	11.1	41.5	75	1.07	65.2	8.94	14.2	0.19	1.0	0.064	0.33	4.2	29.0	3.66	1770
A757589	0.10	6.57	1.0	30	0.34	0.06	6.77	0.05	11.5	41.1	83	1.42	101	8.98	14.8	0.14	1.1	0.064	0.29	4.4	23.5	3.41	1900
A757590	0.04	6.57	0.5	40	0.34	0.05	7.25	0.08	12.1	42.4	75	1.40	60.4	8.69	15.5	0.14	0.4	0.075	0.32	4.7	27.7	3.68	2010
A757592	0.05	6.35	0.2	80	0.35	0.06	7.07	0.10	11.7	43.4	105	2.00	68.5	9.23	15.0	0.08	0.4	0.061	0.60	4.6	33.1	3.83	2060
A757593	0.07	6.33	0.8	70	0.38	0.08	7.29	0.05	12.3	44.2	73	1.22	64.0	8.81	15.3	0.26	0.8	0.064	0.44	4.8	22.8	3.45	1890
A757594	0.06	6.41	0.4	80	0.28	0.06	7.51	0.05	8.86	33.2	75	1.65	61.8	8.74	11.7	0.26	0.8	0.065	0.60	3.4	23.1	3.32	1880
A757596	0.08	6.62	0.8	70	0.34	0.07	7.05	0.04	12.6	44.7	81	2.36	57.5	9.00	15.2	0.05	1.2	0.073	0.45	4.8	20.2	3.66	1970
A757597	0.08	5.74	0.7	80	0.26	0.06	9.22	0.07	11.4	38.3	65	3.68	84.1	7.91	13.6	< 0.05	1.1	0.059	0.71	4.4	30.1	2.96	2010
A757598	0.08	6.74	1.7	120	0.33	0.05	6.11	0.04	12.5	46.1	85	6.22	78.6	9.31	15.6	0.14	1.5	0.073	1.12	4.9	48.7	3.95	2300
A757599	0.05	6.41	0.4	110	0.30	0.04	6.18	0.03	11.6	43.0	79	4.19	66.2	8.84	14.9	0.06	0.4	0.063	0.82	4.5	32.7	3.71	2160
A757600	0.03	6.53	0.6	90	0.36	0.04	6.83	0.04	11.8	41.4	126	3.84	51.9	8.19	13.9	0.11	0.4	0.071	0.79	4.6	27.9	3.64	1950
A757601	0.04	6.55	0.7	110	0.36	0.03	5.54	0.04	12.0	44.1	147	4.34	56.6	8.05	14.4	0.31	1.1	0.052	0.99	4.7	37.6	4.53	1640
A757602	0.06	6.94	0.5	110	0.47	0.04	6.13	0.10	10.0	47.4	142	2.60	50.6	8.13	15.0	0.32	1.4	0.078	0.80	3.8	30.3	4.10	1590
A757603	0.07	6.64	1.1	90	0.32	0.04	6.41	0.09	10.3	47.8	178	2.10	60.5	8.73	14.3	0.09	1.2	0.055	0.74	3.9	30.8	4.30	1610
A757604	0.08	7.31	1.4	960	1.44	0.06	4.39	0.04	52.3	26.7	85	3.40	35.1	6.12	5.73	0.13	2.7	0.046	2.47	23.3	43.5	3.08	1070
A757606	0.33	5.24	3.0	80	0.90	0.14	2.61	0.38	33.5	18.3	53	4.41	67.5	5.64	13.2	< 0.05	2.3	0.032	2.30	14.6	30.4	1.61	771
A757607	2.16	2.48	2.2	80	0.19	1.21	3.46	0.15	19.3	74.0	27	0.73	580	20.1	5.98	< 0.05	0.9	0.020	0.66	9.7	3.3	0.69	889
A757608	2.92	2.91	2.2	30	0.37	1.11	3.31	0.31	23.3	93.0	34	0.80	843	21.0	7.29	0.05	1.1	0.016	0.79	11.7	4.0	0.97	1080
A757609	0.50	5.22	0.6	380	1.40	0.14	6.24	0.04	54.2	42.9	342	1.97	178	6.78	8.85	< 0.05	2.2	0.042	1.38	25.7	16.0	5.39	1150
A757610	0.26	5.98	1.3	150	1.28	0.15	8.40	0.05	14.9	39.8	114	2.09	76.5	8.92	12.8	0.09	1.2	0.053	0.97	6.5	20.1	3.73	2270
A757611	0.14	6.63	0.6	150	0.73	0.14	6.37	0.02	11.5	46.0	82	5.61	93.1	8.87	15.1	0.22	1.2	0.065	1.06	4.4	30.6	3.53	1790
A757612	0.13	6.91	< 0.2	190	0.87	0.14	7.48	0.06	11.5	44.4	113	3.46	125	9.38	15.3	0.20	1.3	0.065	1.09	4.5	36.4	3.50	1890
A757614	0.12	6.81	< 0.2	130	0.50	0.10	5.65	0.05	11.3	44.7	110	7.31	103	9.03	14.4	0.27	1.4	0.067	1.33	4.4	43.4	3.61	1710
A757615	0.07	6.77	< 0.2	100	0.48	0.10	6.37	0.02	10.9	48.6	123	3.04	81.2	8.66	14.4	0.23	0.7	0.068	0.96	4.1	28.0	3.62	1830
A757616	0.04	6.79	< 0.2	120	0.58	0.08	6.49	0.06	12.9	47.6	178	2.40	33.6	8.74	14.0	0.18	0.6	0.085	0.90	5.0	25.6	3.95	1930

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757617	0.08	6.79	< 0.2	190	0.68	0.07	6.16	0.05	11.5	45.5	104	2.90	75.9	8.05	14.3	0.29	1.1	0.069	1.12	4.6	29.8	3.88	1550
A757618	0.10	6.59	0.5	190	0.45	0.06	6.64	0.09	10.7	44.9	138	4.91	72.8	8.12	13.7	0.14	1.1	0.059	1.51	4.1	41.1	4.02	1400
A757619	0.09	6.98	0.4	260	0.37	0.06	5.46	0.03	11.3	47.2	129	3.41	69.1	7.42	12.3	0.10	1.1	0.065	1.32	4.4	47.4	3.97	1260
A757620	0.26	6.59	0.3	640	2.16	0.10	6.62	0.10	34.9	35.0	145	1.89	56.8	6.66	8.02	< 0.05	1.8	0.057	1.77	15.7	29.3	3.48	1410
A757621	0.14	6.38	0.2	1130	1.64	0.09	4.83	0.08	71.5	27.9	142	1.11	52.8	5.80	0.45	< 0.05	3.1	0.056	3.00	32.5	22.8	3.73	1090
A757623	0.06	6.37	0.4	860	1.13	0.02	0.90	0.02	29.4	3.0	12	1.63	26.6	1.21	6.42	0.09	2.5	< 0.005	4.34	14.1	11.0	0.21	157
A757624	0.09	6.55	0.6	790	1.74	0.03	1.24	0.12	47.0	3.6	11	2.49	32.8	1.32	8.74	< 0.05	0.6	0.010	2.97	26.0	19.6	0.35	221
A757625	0.09	6.67	< 0.2	950	1.78	0.03	1.36	0.19	52.8	6.0	17	2.85	28.7	1.78	6.12	< 0.05	2.5	0.011	2.55	27.6	26.5	0.76	345
A757626	0.09	7.37	0.3	1370	2.40	0.04	1.77	0.16	79.1	6.3	16	3.39	31.0	2.11	3.46	< 0.05	3.7	0.017	3.03	40.1	27.9	0.72	402
A757627	0.10	7.26	1.0	1230	2.46	0.05	1.98	0.20	72.7	6.2	18	4.09	44.0	2.32	6.39	0.21	3.9	0.018	3.00	33.2	28.4	0.70	470
A757629	0.13	7.37	0.7	980	1.64	0.06	2.15	0.30	81.1	9.6	27	1.47	58.1	2.54	7.42	< 0.05	4.0	0.016	3.15	42.0	17.4	0.77	429
A757630	0.42	6.09	0.4	400	1.75	0.14	5.82	0.12	29.6	48.3	242	2.78	101	8.57	11.7	0.08	2.3	0.064	1.34	13.8	55.7	5.11	1440
A757631	0.58	5.65	1.2	250	1.71	0.21	5.08	0.11	25.5	32.9	141	3.50	89.1	7.09	11.4	0.13	1.8	0.056	1.40	11.5	22.6	3.13	1160
A757632	0.19	5.57	0.3	600	1.71	0.09	7.75	0.13	27.3	49.5	266	4.95	92.4	8.46	7.57	0.15	1.9	0.060	1.49	11.9	40.7	5.54	1450
A757633	0.54	6.24	0.8	140	1.79	0.17	5.74	0.10	56.1	33.6	261	1.65	63.2	6.73	15.4	< 0.05	2.6	0.057	1.19	25.5	34.6	3.70	1030
A757635	0.59	6.70	2.0	90	1.81	0.27	4.94	0.19	56.4	31.7	138	1.25	99.3	6.60	18.4	0.06	2.7	0.047	1.47	25.5	53.3	3.50	1030
A757636	0.54	7.27	2.7	280	1.31	0.30	2.99	0.12	82.9	17.9	26	0.63	145	4.69	16.3	0.08	3.5	0.037	1.09	37.4	24.4	1.84	630
A757637	0.42	7.61	1.2	320	1.64	0.21	3.39	0.07	104	16.2	6	1.89	48.5	4.76	20.2	< 0.05	3.4	0.047	1.75	47.5	26.2	1.37	558
A757639	0.38	7.28	1.7	600	1.52	0.16	4.63	0.05	77.3	23.7	71	1.75	57.7	5.94	14.8	< 0.05	2.4	0.048	2.55	35.4	25.2	2.28	831
A757640	0.65	3.98	4.3	200	2.05	0.21	7.80	0.12	10.8	41.7	448	0.64	54.9	5.64	12.4	0.23	0.6	0.030	2.01	6.0	25.2	4.17	1200
A757641	0.45	6.94	2.0	560	1.37	0.16	4.38	0.12	43.9	33.1	175	1.11	57.0	6.40	12.2	0.16	2.5	0.047	2.42	20.4	32.6	3.87	985
A757642	0.59	6.85	2.6	330	1.82	0.15	3.54	0.14	81.8	27.3	63	1.33	52.2	5.43	14.3	< 0.05	3.5	0.040	2.09	39.0	39.2	3.08	975
A757643	0.34	4.85	1.1	580	1.90	0.10	5.65	0.16	50.2	49.1	554	0.86	73.9	6.95	6.03	0.17	2.9	0.049	1.69	22.6	84.0	7.40	1190
A757644	0.52	6.18	1.0	800	1.82	0.15	5.85	0.12	41.7	40.2	213	0.87	80.8	7.52	3.96	< 0.05	2.9	0.050	1.21	19.4	33.2	4.60	1390
A757645	2.30	5.70	0.9	410	1.77	0.18	4.17	0.68	38.8	27.0	158	1.39	69.4	4.99	13.1	< 0.05	2.7	0.031	1.76	19.8	20.8	3.14	924
A757646	1.04	6.33	1.0	70	1.75	0.40	4.26	0.16	48.4	24.3	93	2.30	56.5	4.25	19.2	< 0.05	2.5	0.033	1.84	25.4	8.2	2.81	815
A757648	2.42	3.17	2.4	320	1.42	0.24	2.99	0.07	25.2	22.2	243	0.89	34.9	3.74	8.08	< 0.05	1.2	0.024	1.18	12.1	18.4	2.41	630
A757649	1.36	5.38	0.6	690	1.79	0.21	3.88	0.33	79.6	30.7	123	0.95	76.6	4.61	11.2	< 0.05	3.2	0.041	1.97	37.0	28.1	3.28	797
A757650	0.22	6.15	1.6	610	1.49	0.08	2.61	0.07	57.0	15.9	97	1.42	44.3	3.42	8.31	< 0.05	3.3	0.029	3.30	27.4	13.0	2.28	609
A757652	0.28	5.10	1.0	590	1.86	0.15	3.54	0.15	64.2	24.2	161	0.92	81.8	3.82	9.87	< 0.05	0.7	0.034	1.60	30.5	17.5	3.21	772
A757653	0.04	2.83	< 0.2	190	0.28	0.09	9.78	0.08	8.29	56.1	1670	0.43	34.0	6.44	4.28	0.25	0.5	0.027	0.42	3.8	6.2	8.12	1390
A757654	0.03	3.40	1.5	90	0.57	0.03	13.1	0.05	36.2	48.6	799	0.14	92.8	6.75	7.39	0.44	0.7	0.038	0.30	18.6	15.5	5.56	1580
A757656	0.06	5.37	4.8	50	0.31	0.01	5.73	0.07	11.2	52.9	226	0.25	63.9	8.41	13.7	0.36	1.3	0.049	0.15	4.8	18.3	5.32	1600
A757657	0.07	5.93	18.4	650	0.28	0.01	6.29	0.09	13.8	66.6	255	1.13	82.3	8.67	5.43	0.42	1.3	0.058	0.36	5.7	26.5	5.48	1530
A757658	0.07	5.64	3.6	990	0.27	0.01	7.49	0.09	12.3	51.8	218	0.85	90.1	8.51	0.28	0.59	0.8	0.054	0.77	5.2	8.4	4.81	1490
A757660	0.06	5.70	7.1	500	0.25	0.02	8.18	0.11	12.7	53.4	197	0.86	76.8	8.59	8.35	0.72	0.8	0.046	0.72	5.6	6.7	4.53	1460
A757661	0.04	5.29	2.7	470	0.32	0.01	7.08	0.09	12.1	52.9	206	0.65	84.4	8.09	7.61	0.44	0.9	0.043	0.71	5.4	11.1	4.72	1430
A757662	0.05	5.75	2.9	340	0.28	0.02	5.82	0.04	12.0	57.7	316	0.75	104	8.37	9.79	0.33	1.1	0.049	0.33	5.1	19.9	5.14	1280
A757663	0.09	5.51	4.7	110	0.31	0.03	5.38	0.20	11.9	55.8	188	0.50	127	8.94	13.7	0.21	1.2	0.054	0.40	5.1	23.1	5.54	1220
A757664	0.10	5.47	6.2	360	0.75	0.05	5.31	0.38	35.4	53.8	231	1.65	99.1	8.11	10.6	0.12	2.0	0.064	1.31	16.5	30.8	5.19	1200
A757665	0.17	5.58	27.1	190	0.29	0.08	5.73	0.30	12.3	60.5	273	0.97	145	8.71	14.0	0.32	1.3	0.050	0.73	5.2	33.3	5.73	1250
A757666	1.19	4.91	57.2	80	0.42	0.63	5.58	2.70	20.5	97.6	271	1.04	795	10.9	14.4	< 0.05	1.6	0.269	0.90	9.5	17.4	3.84	905

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757667	0.40	5.35	18.7	90	0.42	0.28	5.72	0.55	15.0	62.3	225	2.29	240	9.04	16.8	0.34	1.0	0.097	1.01	7.7	31.0	5.59	1210
A757668	0.40	4.93	14.5	90	0.33	0.36	6.84	0.49	22.5	57.8	230	0.84	229	7.11	15.0	0.18	1.8	0.102	0.64	10.7	17.4	4.00	926
A757669	0.22	4.84	14.7	90	0.28	0.11	5.24	0.29	10.8	60.7	507	1.30	135	8.86	14.3	0.07	1.2	0.062	0.55	5.0	28.1	5.87	1210
A757671	0.08	5.54	15.6	80	0.29	0.03	5.76	0.50	10.6	61.9	254	0.79	111	8.53	15.3	0.46	1.2	0.085	0.32	4.3	17.9	5.53	1170
A757672	0.30	5.31	39.4	130	0.34	0.43	1.69	3.04	20.8	64.8	422	1.01	175	9.01	17.1	< 0.05	2.0	0.452	0.83	9.4	62.7	4.38	738
A757673	0.15	6.04	3.2	230	0.35	0.09	4.94	0.08	11.2	56.4	55	1.57	151	8.91	16.8	0.58	1.5	0.047	0.91	4.6	33.9	5.03	1300
A757674	0.21	5.55	0.9	70	0.26	0.07	5.95	0.09	9.99	52.2	106	1.06	97.5	8.66	15.4	0.59	1.4	0.065	0.53	4.1	12.3	5.63	1450
A757675	0.99	3.34	30.6	30	0.23	0.62	4.55	1.25	16.2	76.5	235	0.65	222	22.0	9.35	0.07	1.4	0.152	0.46	7.7	13.9	3.27	556
A757676	0.68	4.40	8.1	30	0.48	0.82	6.12	2.93	23.6	39.5	549	0.68	114	10.6	13.3	< 0.05	1.9	0.311	0.64	10.8	23.6	2.93	578
A757677	0.75	4.05	3.2	70	0.28	0.36	5.13	0.81	16.5	45.9	426	0.95	163	14.9	12.8	< 0.05	1.6	0.109	0.51	7.6	27.9	4.59	578
A757678	1.44	2.09	33.0	80	0.25	0.82	7.98	0.59	17.1	87.6	44	0.35	347	25.9	5.95	0.15	1.6	0.107	0.26	8.0	3.6	1.85	448
A757680	0.65	3.67	20.3	140	0.48	0.43	11.0	0.82	11.9	50.7	637	2.71	181	12.9	9.92	0.22	1.0	0.113	1.28	6.3	28.8	4.21	778
A757681	0.22	4.15	65.7	130	0.63	0.04	8.70	0.16	6.56	51.0	417	5.00	75.2	7.65	10.7	0.31	0.9	0.041	1.76	3.0	39.8	4.73	1110
A757682	1.59	4.07	8.9	30	0.91	0.42	4.49	0.83	19.2	58.9	169	1.49	377	15.6	11.2	0.11	2.0	0.081	1.31	9.1	20.3	2.43	588
A757684	1.83	5.18	60.9	50	1.10	0.71	1.60	1.68	18.4	63.8	195	3.05	260	15.4	14.0	0.16	2.0	0.167	1.43	8.5	42.7	3.29	500
A757685	0.18	5.77	39.1	130	0.40	0.05	3.20	0.34	10.4	50.2	93	7.82	113	8.78	14.8	0.23	1.6	0.072	1.77	4.4	65.8	5.10	1030
A757686	0.13	6.18	< 0.2	120	0.27	0.08	6.32	0.15	10.5	47.5	71	0.75	105	8.55	13.3	0.21	1.3	0.038	0.61	4.3	20.6	3.89	1440
A757687	0.14	5.89	< 0.2	250	0.38	0.10	6.19	0.15	10.6	56.0	206	1.01	156	9.94	15.4	0.28	1.5	0.054	0.99	4.4	32.4	4.52	1520
A757688	0.08	5.63	6.3	240	1.11	0.06	8.38	0.08	50.9	39.4	159	1.32	98.2	6.88	13.7	0.21	2.2	0.045	0.49	24.1	21.5	3.92	1260
A757689	0.14	4.55	1.5	100	1.07	0.05	7.90	0.09	40.6	50.6	346	0.59	87.6	8.04	10.2	0.17	1.2	0.039	0.53	18.0	32.0	6.26	1450
A757690	0.16	4.99	11.2	180	2.25	0.06	7.52	0.13	72.7	48.1	478	0.81	82.1	6.86	10.7	< 0.05	1.5	0.043	0.86	32.7	43.6	7.39	1210
A757691	0.08	7.12	< 0.2	630	1.77	0.05	5.18	0.07	64.9	27.7	58	2.43	50.2	6.52	16.2	0.11	3.1	0.047	1.46	29.5	39.9	3.40	1110
A757692	0.07	7.29	2.4	790	1.80	0.05	5.24	0.10	62.5	27.7	52	2.33	38.5	6.61	16.1	0.24	3.1	0.058	1.80	27.8	35.6	3.41	1160
A757693	0.09	6.99	< 0.2	720	1.55	0.05	5.57	0.13	58.8	29.0	101	2.75	52.9	6.59	15.0	0.15	2.9	0.054	1.55	26.5	36.1	3.37	1190
A757694	0.04	4.39	1.8	160	0.25	0.03	10.3	0.15	6.99	50.6	429	0.28	73.5	8.25	10.8	0.52	0.6	0.038	0.34	2.9	7.1	4.88	1870
A757695	0.04	4.76	1.2	150	0.23	0.02	7.69	0.07	7.05	50.8	517	0.39	85.4	8.22	10.4	0.42	0.7	0.043	0.31	2.9	8.3	5.23	1630
A757697	0.06	5.09	2.5	90	0.26	0.01	6.64	0.15	7.74	54.3	352	0.59	87.7	8.49	11.5	0.27	0.9	0.038	0.23	3.0	12.6	5.31	1540
A757698	0.05	5.10	3.0	90	0.19	0.01	7.44	0.12	7.25	50.5	284	0.21	93.7	7.44	10.1	0.17	0.8	0.037	0.19	2.9	8.5	4.64	1600
A757699	0.07	5.17	4.3	110	0.20	0.01	8.89	0.09	7.84	58.2	340	0.56	131	9.26	11.8	< 0.05	0.8	0.050	0.28	3.1	16.0	5.31	1900
A757701	0.05	5.07	4.1	200	0.20	0.01	10.0	0.08	7.19	55.6	314	0.60	89.4	8.55	10.2	0.07	0.6	0.042	0.46	2.9	7.9	4.32	1830
A757702	0.06	5.00	4.4	200	0.24	0.01	9.35	0.11	7.29	61.6	319	0.69	108	8.81	12.1	0.16	0.7	0.038	0.55	2.9	10.0	4.10	1920
A757703	0.06	4.82	3.7	130	0.24	0.02	11.9	0.10	7.53	58.0	479	0.37	117	8.77	12.3	0.37	0.6	0.045	0.35	3.0	13.6	3.64	2120
A757704	0.04	5.48	0.3	260	0.24	0.02	8.27	0.12	9.45	53.6	221	0.85	118	9.08	13.1	0.58	0.8	0.045	0.58	3.9	23.9	4.29	1850
A757705	0.04	5.32	0.6	280	0.31	0.02	8.61	0.10	9.17	50.1	148	1.06	109	9.16	12.0	0.29	0.8	0.042	0.58	3.8	21.6	4.33	1760
A757706	0.14	4.73	2.5	150	0.25	0.02	9.23	0.11	8.44	55.4	207	0.63	261	8.97	10.5	0.22	0.9	0.045	0.43	3.5	12.0	5.34	1750
A757707	0.04	4.18	3.7	50	0.22	0.02	8.55	0.13	6.89	62.9	390	0.48	59.4	8.39	11.4	0.47	0.8	0.041	0.23	2.7	20.6	6.82	1510
A757708	0.05	5.07	2.1	80	0.22	0.02	9.06	0.12	7.49	47.4	178	0.68	81.0	8.36	13.6	0.28	0.8	0.052	0.34	3.2	10.5	4.80	1480
A757709	0.05	5.07	0.6	390	0.54	0.04	9.32	0.10	15.2	52.4	273	0.90	86.5	8.22	10.5	0.24	1.0	0.040	0.72	6.9	9.5	4.77	1720
A757710	0.06	4.86	1.2	140	0.22	0.02	8.97	0.15	7.67	56.7	313	0.65	89.5	8.58	12.2	0.24	0.7	0.038	0.40	3.1	10.8	5.11	1730
A757711	0.05	5.25	0.6	440	0.25	0.01	8.56	0.10	8.48	51.1	182	1.72	92.4	8.72	9.89	0.16	0.7	0.041	0.70	3.6	15.1	4.83	1520
A757712	0.07	5.77	1.1	620	0.26	0.04	9.34	0.12	11.9	54.7	135	2.53	191	8.91	10.9	0.27	0.7	0.055	0.80	5.4	29.3	4.69	1540
A757713	0.07	5.43	0.5	180	0.24	0.02	8.00	0.09	10.3	53.2	150	0.75	113	9.25	12.2	0.40	0.9	0.057	0.31	4.3	12.9	5.09	1580

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757714	0.13	4.67	1.1	110	0.57	0.13	6.02	1.38	29.3	55.7	463	0.30	99.3	7.88	12.2	0.07	2.2	0.115	0.40	13.2	26.6	7.29	1480
A757715	0.36	4.33	5.0	120	0.26	0.62	8.84	4.94	16.1	49.8	489	0.61	215	7.85	11.2	< 0.05	1.4	0.397	0.57	8.0	8.8	3.98	955
A757716	0.50	4.53	6.7	30	0.45	0.44	7.90	0.98	15.3	47.9	447	1.22	281	10.5	14.9	< 0.05	1.2	0.140	0.78	8.3	14.9	5.47	1000
A757717	0.54	4.67	3.1	50	0.44	0.53	7.41	3.46	21.7	59.1	193	0.56	223	9.76	12.6	< 0.05	3.0	0.321	0.37	9.9	7.7	2.18	670
A757718	0.60	4.90	2.3	30	0.74	0.66	6.29	4.11	34.6	32.1	65	0.79	281	9.04	13.5	< 0.05	3.0	0.362	0.50	14.8	12.1	1.92	798
A757720	0.50	5.76	3.1	30	0.66	0.32	4.22	0.43	13.8	46.0	284	3.18	177	8.90	20.6	0.08	1.2	0.060	1.20	6.4	46.4	5.76	910
A757721	1.03	4.14	94.0	30	0.56	0.75	5.61	7.07	21.5	47.4	341	0.79	243	10.8	11.8	< 0.05	1.8	0.573	0.55	9.2	10.3	1.80	574
A757722	1.02	4.17	9.7	30	0.74	0.80	6.79	6.76	31.0	44.8	38	0.27	203	9.51	11.9	< 0.05	2.8	0.556	0.47	13.1	2.2	0.83	526
A757723	1.22	4.16	17.7	50	0.55	0.99	5.88	7.06	31.4	46.1	52	0.25	444	11.2	11.1	< 0.05	2.7	0.565	0.35	12.9	2.4	0.73	574
A757724	2.08	2.68	16.9	10	0.38	1.28	2.06	3.18	16.6	103	181	0.30	1190	28.9	7.26	0.11	1.6	0.343	0.24	6.7	3.8	0.89	359
A757726	0.21	5.50	10.3	180	0.29	0.07	4.99	0.17	9.25	54.4	280	0.58	112	8.76	14.2	0.39	1.3	0.051	0.29	4.0	27.0	6.22	1260
A757727	0.09	4.68	0.4	590	1.01	0.06	7.13	0.14	63.4	47.1	343	2.36	94.8	5.92	7.24	< 0.05	1.8	0.056	1.50	27.5	38.2	6.85	955
A757728	0.08	5.00	6.7	320	0.91	0.07	8.17	0.09	30.8	49.0	431	1.89	102	7.31	10.4	< 0.05	1.5	0.046	0.90	13.8	30.4	6.04	1160
A757729	0.14	5.61	16.7	170	0.52	0.15	7.24	0.18	19.2	50.6	280	2.90	122	8.71	14.2	0.37	1.3	0.056	1.12	8.3	26.8	5.54	1250
A757730	0.30	4.82	49.2	150	0.42	0.60	5.34	0.92	15.6	67.4	346	0.87	257	9.12	12.2	0.27	1.4	0.094	0.69	6.7	12.9	3.91	939
A757731	0.09	5.01	51.3	110	0.26	0.09	5.53	0.10	10.4	62.8	427	1.97	99.8	8.78	13.6	0.15	1.1	0.052	0.57	4.6	23.8	6.72	1370
A757732	0.33	5.33	0.5	130	0.32	0.11	5.66	0.39	12.8	45.7	162	0.66	97.7	8.64	13.4	0.08	1.4	0.093	0.45	5.7	9.9	5.17	1030
A757734	2.29	1.36	3.6	50	0.29	1.53	1.95	0.82	9.89	89.9	67	0.12	346	37.5	3.40	0.12	0.9	0.095	0.12	5.1	4.4	0.92	232
A757735	0.51	4.60	5.5	50	1.33	0.22	9.46	0.93	33.7	68.7	349	5.61	90.8	7.43	12.9	< 0.05	1.7	0.092	1.78	15.5	40.3	5.51	1110
A757737	0.13	6.05	18.1	370	1.73	0.15	5.84	0.09	72.0	36.3	301	6.27	82.1	6.97	12.3	< 0.05	3.2	0.037	1.53	34.1	32.3	4.39	1060
A757738	0.06	5.59	0.6	290	0.65	0.03	7.83	0.08	21.5	46.5	110	4.71	126	9.51	12.9	0.29	1.2	0.063	0.62	10.5	25.2	4.49	1810
A757739	0.11	4.86	0.3	360	4.15	0.05	8.41	0.15	76.2	44.0	219	2.33	99.0	7.50	9.64	0.10	1.8	0.038	1.27	32.8	41.8	6.05	1350
A757740	0.22	6.11	< 0.2	20	0.23	0.10	5.78	0.16	9.71	49.8	91	0.28	228	12.7	15.0	0.28	1.2	0.070	0.06	4.1	17.4	3.61	1960
A757741	0.17	6.22	0.9	20	0.26	0.04	6.92	0.20	8.25	45.1	85	0.31	125	10.9	15.9	0.44	1.0	0.068	0.08	3.3	17.5	3.75	2200
A757742	0.20	5.75	0.5	10	0.22	0.07	8.03	0.18	7.27	45.2	95	0.14	246	12.2	14.9	0.48	1.0	0.061	0.08	2.8	13.3	3.83	2700
A757744	0.09	6.48	3.4	20	0.30	0.03	6.56	0.18	7.00	43.7	98	0.24	130	8.78	15.0	0.17	1.0	0.064	0.09	2.6	11.7	3.89	1750
A757745	0.09	7.12	1.8	30	0.41	0.03	6.84	0.17	8.46	50.0	101	0.42	137	8.80	16.9	0.24	1.2	0.063	0.13	3.5	10.9	4.11	1690
A757746	0.15	6.43	8.4	90	0.46	0.09	8.01	0.48	11.3	40.6	126	1.17	135	7.29	15.2	0.71	1.1	0.077	0.32	5.3	13.8	2.77	1830
A757747	0.70	5.74	6.1	50	0.71	0.59	2.84	5.39	35.7	48.5	34	3.07	261	8.30	17.5	0.06	3.5	0.458	1.26	16.3	25.0	1.66	599
A757748	0.96	6.47	7.4	110	0.88	0.75	2.43	3.94	38.4	61.3	43	3.20	350	9.62	20.9	0.11	3.7	0.380	1.53	17.5	22.5	1.60	543
A757749	0.84	5.34	29.8	70	0.57	0.71	2.85	5.05	33.9	53.6	37	2.05	317	8.35	16.7	0.06	3.1	0.460	0.93	15.2	17.1	1.22	489
A757750	0.11	7.15	2.2	70	0.34	0.05	6.89	0.17	7.97	45.7	121	0.74	104	8.31	16.8	0.18	1.1	0.073	0.26	3.4	13.3	4.34	1750
A757752	0.13	5.63	4.2	30	0.21	0.11	3.78	0.66	10.4	42.0	95	0.80	129	8.52	13.7	0.16	1.4	0.089	0.11	4.3	34.4	4.00	1570
A757753	0.07	6.95	1.3	30	0.34	0.03	6.72	0.17	7.85	48.8	94	0.25	112	8.42	16.3	0.35	1.1	0.060	0.09	3.0	23.6	4.38	1680
A757754	0.13	6.94	< 0.2	30	0.29	0.15	4.41	0.74	8.07	48.3	145	2.03	138	10.3	17.6	0.19	1.2	0.108	0.23	3.1	28.6	4.26	1760
A757755	0.07	7.52	0.3	30	0.30	0.03	4.83	0.13	7.81	49.5	157	0.92	118	9.25	19.0	0.35	0.9	0.067	0.14	2.9	22.2	4.03	1880
A757756	0.16	7.07	< 0.2	30	0.22	0.18	4.56	1.03	8.94	52.0	137	1.24	154	11.0	18.1	0.32	1.2	0.123	0.16	3.7	35.2	3.79	1700
A757757	0.11	6.80	4.7	40	0.36	0.07	6.95	0.24	7.37	46.0	100	0.52	137	8.74	15.7	0.20	1.0	0.061	0.15	2.9	11.6	4.02	1780
A757759	0.12	7.70	0.7	30	0.42	0.05	5.44	0.26	9.82	51.1	123	0.76	175	8.94	19.5	0.22	1.5	0.100	0.14	4.0	15.9	3.79	1600
A757760	0.43	4.74	1.6	60	0.53	0.52	3.74	2.36	26.4	49.7	75	0.86	185	8.44	14.0	0.35	2.5	0.237	0.18	12.4	11.3	2.15	940
A757761	0.51	5.08	< 0.2	190	0.50	0.59	3.42	2.32	31.3	44.4	33	1.33	220	8.95	13.3	0.16	3.3	0.172	0.68	14.5	23.3	2.02	732
A757762	0.20	5.51	5.3	90	0.44	0.10	5.48	0.90	16.5	32.9	88	1.22	112	6.56	14.2	0.15	1.6	0.076	0.44	8.9	16.7	2.59	1020

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757764	0.14	7.10	14.6	160	0.46	0.11	7.37	0.72	16.6	48.4	230	2.63	133	7.42	16.2	0.08	1.7	0.113	0.76	7.9	23.6	2.92	1260
A757766	0.29	5.04	485	180	0.34	0.42	4.83	1.14	21.3	38.9	62	2.30	122	6.60	11.9	< 0.05	2.2	0.081	1.29	9.9	20.4	1.79	701
A757767	0.31	4.31	30.6	240	0.33	0.36	4.75	0.54	18.1	28.5	34	1.69	138	5.69	10.8	< 0.05	2.1	0.065	0.93	8.5	16.1	1.41	684
A757768	0.12	6.87	6.7	150	0.39	0.15	6.22	0.33	14.7	44.1	153	3.14	150	8.57	15.7	0.48	1.6	0.082	0.82	7.5	21.5	3.24	1330
A757769	0.21	6.00	3.0	240	0.65	0.21	5.71	3.52	28.7	36.5	113	5.32	169	8.44	13.1	0.16	3.2	0.132	1.13	12.9	27.0	3.37	1220
A757770	0.10	6.67	< 0.2	930	1.45	0.06	5.57	0.13	56.5	28.2	83	8.27	42.6	5.86	12.7	0.22	3.2	0.050	2.70	26.2	33.5	3.34	1060
A757771	0.04	6.90	1.7	180	0.33	0.04	7.27	0.12	6.85	43.3	150	1.99	19.9	7.11	13.4	0.32	0.9	0.054	0.53	2.7	18.0	3.91	1540
A757773	0.04	7.21	0.2	460	1.12	0.04	6.17	0.09	39.0	34.2	110	4.32	21.8	6.56	13.7	0.20	2.4	0.067	1.08	18.0	33.5	3.77	1310
A757774	0.02	6.87	< 0.2	40	0.37	0.03	7.10	0.13	9.44	42.1	232	0.88	19.0	7.43	14.3	0.29	1.1	0.053	0.19	3.9	12.8	4.12	1560
A757775	0.02	7.01	< 0.2	50	0.22	0.03	7.38	0.13	6.86	41.8	181	1.00	27.8	7.60	14.4	0.32	0.8	0.062	0.23	2.7	12.9	4.25	1640
A757777	0.07	7.05	1.9	50	0.26	0.03	7.17	0.16	6.82	45.9	166	2.10	89.4	8.06	14.0	0.25	1.0	0.053	0.40	2.7	21.4	4.38	1520
A757778	0.06	6.97	0.6	70	0.28	0.04	7.16	0.17	6.69	43.7	135	1.93	88.7	7.83	14.1	0.36	0.8	0.076	0.38	2.6	18.2	4.21	1540
A757779	0.11	7.00	2.6	40	0.22	0.03	6.89	0.09	6.44	43.3	154	0.29	137	7.24	12.3	0.27	0.9	0.053	0.13	2.4	9.5	4.15	1480
A757780	0.13	6.76	3.1	40	0.24	0.04	7.65	0.18	6.53	44.2	138	0.77	113	7.24	14.6	0.30	0.9	0.063	0.21	2.5	12.9	3.98	1480
A757781	0.09	6.58	1.0	60	0.28	0.04	7.61	0.18	6.50	43.6	149	1.46	70.2	7.77	14.2	0.14	1.0	0.058	0.36	2.6	15.9	3.81	1510
A757782	0.33	5.31	8.4	180	0.43	0.31	6.38	1.16	18.8	31.7	127	1.37	127	6.07	13.2	0.19	2.0	0.139	1.12	8.6	21.4	2.21	979
A757783	0.72	5.51	39.6	190	0.74	0.48	3.71	3.32	37.3	24.0	40	2.08	183	6.71	14.4	0.11	3.0	0.277	1.77	17.8	26.9	1.46	705
A757784	0.73	5.95	32.5	120	0.78	0.44	3.09	2.51	35.9	30.8	31	1.77	170	4.55	17.6	0.06	3.2	0.211	2.23	17.1	16.4	1.00	433
A757785	0.60	8.01	3.7	170	1.83	0.39	2.77	2.10	63.2	32.7	37	5.17	156	4.69	25.0	0.09	5.3	0.183	3.53	30.5	35.8	1.77	530
A757787	0.57	6.44	107	290	1.08	0.17	4.91	1.61	28.7	34.4	113	3.72	117	6.53	15.8	0.41	2.4	0.116	2.13	13.5	33.4	2.66	1120
A757788	0.22	6.04	19.8	260	0.62	0.07	3.20	0.56	16.0	28.4	134	3.62	122	5.51	14.4	0.16	2.0	0.092	2.16	7.6	37.4	2.44	864
A757789	0.06	6.65	< 0.2	80	0.31	0.04	7.28	0.12	6.74	41.7	240	0.96	62.0	7.90	14.3	0.31	0.9	0.068	0.36	2.7	13.6	3.92	1680
A757790	0.05	6.69	3.2	40	0.26	0.01	6.95	0.14	6.55	45.0	190	0.66	126	8.67	14.4	0.49	0.6	0.053	0.18	2.5	16.2	4.15	1530
A757791	0.09	6.47	3.3	60	0.17	0.06	7.32	0.07	6.74	52.2	175	1.70	165	9.05	14.4	0.35	0.8	0.060	0.28	2.7	17.0	3.97	1460
A757792	0.05	6.62	< 0.2	300	0.70	0.05	6.56	0.11	27.8	37.7	115	6.93	76.2	7.47	14.6	0.21	1.7	0.056	0.85	12.9	24.0	3.60	1280
A757793	0.31	6.61	< 0.2	510	1.00	0.05	6.48	0.09	35.2	37.9	110	9.95	87.3	7.12	14.7	0.22	2.4	0.044	1.39	16.2	34.4	3.63	1160
A757795	0.09	6.69	< 0.2	150	0.24	0.04	7.01	0.06	6.65	43.3	150	3.22	222	8.85	14.2	0.11	0.9	0.052	0.59	2.7	26.1	4.18	1520
A757796	0.10	6.60	1.4	40	0.23	0.02	6.61	0.14	6.81	43.6	99	0.59	123	8.70	14.4	0.16	1.0	0.064	0.22	2.6	17.2	4.04	1500
A757797	0.07	6.52	1.4	40	0.29	0.03	7.47	0.18	7.10	43.1	99	0.83	129	8.41	16.8	0.33	0.9	0.049	0.20	2.7	15.9	3.88	1330
A757798	0.06	6.11	0.4	60	0.23	0.04	6.67	0.38	6.96	47.6	141	2.24	98.1	8.29	15.2	0.35	0.7	0.052	0.29	2.6	20.5	4.10	1250
A757799	0.06	6.31	0.5	40	0.29	0.07	7.00	0.13	7.20	44.7	121	0.58	139	8.74	15.8	0.28	0.4	0.056	0.18	2.8	14.1	3.89	1420
A757800	0.05	6.38	0.9	20	0.21	0.04	6.52	0.15	6.83	44.8	118	0.33	135	9.09	13.1	0.42	0.7	0.051	0.14	2.6	14.6	4.22	1470
A757801	0.09	6.29	< 0.2	20	0.24	0.04	6.46	0.10	7.05	42.8	96	0.18	129	8.80	13.6	0.43	0.9	0.057	0.10	2.7	11.3	4.03	1420
A757802	0.09	6.64	0.7	20	0.28	0.07	7.00	0.17	7.08	45.2	118	0.27	217	9.43	14.8	0.33	1.0	0.092	0.11	2.9	11.0	4.07	1380
A757804	0.10	6.78	1.3	20	0.24	0.04	6.15	0.14	7.31	48.9	124	0.55	177	9.27	16.0	0.18	1.1	0.056	0.14	2.8	19.0	3.99	1350
A757805	0.07	6.53	1.9	20	0.28	0.03	6.95	0.15	7.59	47.6	116	0.73	123	8.84	16.3	0.64	1.2	0.052	0.17	3.0	19.5	3.96	1430
A757806	0.15	6.39	1.1	30	0.24	0.12	7.22	0.33	7.82	45.0	127	0.51	406	9.40	15.9	0.62	0.9	0.083	0.14	3.2	13.2	3.54	1310
A757807	0.17	6.13	< 0.2	30	0.19	0.18	7.06	0.28	7.54	57.8	188	0.63	545	10.1	15.3	0.12	0.9	0.082	0.15	3.1	11.3	3.36	1140
A757808	0.07	6.41	< 0.2	30	0.25	0.09	6.88	0.23	6.93	41.5	159	0.68	225	9.17	15.1	0.29	0.9	0.091	0.17	2.7	16.1	3.90	1300
A757810	0.13	5.73	0.5	20	0.13	0.09	9.02	0.23	6.61	46.5	125	0.41	356	8.58	16.0	0.48	0.7	0.067	0.16	2.6	15.1	3.23	1170
A757811	0.04	4.66	< 0.2	70	0.45	0.04	10.2	0.25	13.9	32.5	63	0.90	71.2	11.8	14.6	0.17	0.8	0.080	0.56	5.7	17.6	2.25	2590
A757812	0.07	5.56	< 0.2	100	0.62	0.03	8.54	0.13	16.8	39.1	65	1.40	80.0	12.3	17.6	0.20	1.1	0.100	0.86	6.9	24.4	2.35	2370

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757813	0.04	4.80	< 0.2	50	0.51	0.02	11.7	0.08	15.5	34.5	43	0.88	68.6	11.8	14.8	0.23	1.3	0.056	0.51	6.7	19.1	2.85	2810
A757814	0.03	5.09	< 0.2	60	0.51	0.02	8.48	0.08	14.3	35.9	51	1.15	59.1	12.2	16.6	0.23	1.2	0.075	0.62	5.7	22.6	2.54	2730
A757816	0.04	5.55	< 0.2	80	0.54	0.06	8.96	0.11	15.6	36.1	49	1.16	59.4	11.4	18.1	0.15	0.7	0.082	0.80	6.1	23.0	2.23	2580
A757817	0.14	5.60	< 0.2	90	0.62	0.07	8.00	0.34	14.8	45.3	64	2.09	122	14.0	18.2	0.25	1.0	0.107	0.90	6.0	31.9	2.49	3300
A757818	0.13	5.24	< 0.2	80	0.50	0.07	8.13	0.75	10.5	45.7	53	1.96	97.4	16.9	14.4	0.42	1.7	0.102	0.75	4.2	30.5	2.81	4380
A757819	0.07	5.52	< 0.2	80	0.39	0.04	9.29	0.12	11.1	41.4	50	1.81	130	10.3	14.3	0.27	1.4	0.062	0.73	4.3	30.3	3.21	1910
A757820	0.17	6.56	< 0.2	100	0.35	0.06	8.08	0.16	12.6	50.0	53	0.90	207	9.89	17.7	0.18	1.8	0.066	0.21	5.0	22.4	2.33	1590
A757821	0.07	6.93	1.4	130	0.44	0.02	7.05	0.10	12.5	50.5	50	0.86	77.9	8.42	17.5	0.23	1.1	0.070	0.20	4.9	15.5	2.31	1460
A757822	0.17	5.78	< 0.2	70	0.23	0.03	10.1	0.12	10.5	40.3	39	0.19	161	8.68	15.4	0.32	1.4	0.064	0.11	4.3	13.1	2.09	1560
A757824	0.23	4.94	< 0.2	50	0.27	0.05	11.9	0.12	10.6	38.4	36	0.33	236	10.4	14.3	0.37	1.2	0.061	0.15	4.4	21.0	2.40	1900
A757825	0.11	5.93	0.8	30	0.47	0.04	8.31	0.19	12.1	46.2	56	0.22	164	9.37	16.8	0.35	1.1	0.070	0.09	4.7	16.1	2.42	1640
A757826	0.08	5.71	< 0.2	40	0.36	0.04	9.93	0.15	11.2	42.1	61	0.32	145	9.51	15.2	0.20	0.9	0.053	0.13	4.5	8.9	2.08	1700
A757827	0.08	6.33	3.1	140	0.83	0.06	8.52	0.13	21.3	45.5	141	3.42	127	8.85	15.1	0.36	0.8	0.071	0.38	9.0	12.8	2.75	1530
A757828	0.16	4.46	16.2	180	0.96	0.06	8.25	0.12	12.3	53.5	740	0.75	34.7	7.23	12.9	0.13	1.2	0.039	1.29	6.0	35.8	5.18	1350
A757829	0.44	4.80	< 0.2	200	0.67	0.17	12.1	0.13	10.6	34.1	38	2.14	106	7.58	13.6	0.24	0.8	0.052	2.07	4.3	20.7	2.61	1560
A757831	0.63	4.54	3.7	160	0.78	0.14	6.08	0.14	8.41	35.4	48	2.01	96.4	6.97	15.1	0.33	0.8	0.056	2.23	3.3	16.4	2.51	1310
A757832	0.73	5.85	1.4	180	0.81	0.12	6.96	0.12	9.92	39.5	56	1.95	116	8.92	17.1	0.25	0.9	0.051	2.91	3.9	18.5	2.96	1550
A757833	0.21	5.36	0.6	120	0.45	0.06	7.80	0.11	10.3	38.1	46	1.89	109	8.14	13.9	0.36	1.1	0.062	1.84	4.1	22.3	2.94	1540
A757834	0.24	6.68	0.5	100	0.57	0.07	5.26	0.16	11.5	47.3	67	1.49	128	9.13	15.9	0.23	2.0	0.068	1.47	4.6	19.8	3.31	1490
A757836	0.18	6.57	< 0.2	100	0.57	0.05	5.66	0.14	12.6	48.2	59	1.72	114	8.70	16.6	0.15	0.9	0.080	1.52	5.0	21.0	3.29	1490
A757838	0.27	6.11	1.0	140	0.63	0.08	5.93	0.13	12.1	46.5	52	2.71	112	9.42	17.8	0.31	1.2	0.083	2.23	4.8	29.0	3.62	1490
A757839	0.32	5.26	0.9	130	0.65	0.08	7.94	0.15	9.25	34.5	41	1.82	70.3	7.80	15.3	0.29	0.9	0.066	2.36	3.6	12.2	3.27	1660
A757840	0.30	4.88	1.9	170	0.56	0.09	7.33	0.11	9.70	34.9	48	1.92	111	6.84	13.6	0.22	0.9	0.056	1.67	3.9	12.4	2.74	1520
A757841	0.29	6.11	0.4	750	1.75	0.07	5.90	0.46	70.1	38.1	248	5.65	89.4	6.98	17.1	0.06	3.0	0.074	2.68	34.3	24.2	5.03	1160
A757842	0.71	6.48	< 0.2	210	0.95	0.14	5.83	0.64	13.7	45.9	53	2.85	134	8.82	17.2	0.23	1.5	0.094	2.30	5.6	20.1	3.09	1650
A757843	0.55	5.64	2.1	140	0.82	0.13	8.70	0.21	11.9	39.4	63	1.58	152	8.93	15.9	0.11	1.1	0.083	1.84	4.7	13.1	3.11	2240
A757845	0.89	6.26	65.4	180	0.91	0.25	5.69	2.73	18.2	37.8	62	2.28	167	7.79	20.9	0.16	1.9	0.312	2.18	8.2	21.0	2.38	1480
A757846	2.05	6.39	245	210	0.93	0.62	3.03	6.37	28.9	55.0	60	1.74	246	7.13	24.2	0.08	3.1	0.451	3.20	14.1	20.4	1.36	889
A757847	1.19	6.02	13.7	210	1.07	0.43	2.92	3.78	26.9	25.5	56	1.73	134	5.55	20.0	0.08	3.0	0.252	2.93	13.0	21.7	1.43	836
A757849	1.32	5.22	65.9	190	0.96	0.51	2.25	3.92	26.6	24.8	48	1.62	163	5.69	19.0	0.05	2.8	0.300	2.41	13.4	21.7	1.24	647
A757850	0.62	6.47	16.1	190	0.82	0.22	5.22	0.73	16.7	43.3	157	2.55	174	7.78	17.7	0.47	1.8	0.152	2.67	7.9	32.4	2.90	1090
A757851	0.44	6.20	6.0	270	0.91	0.24	5.19	0.68	25.9	41.3	140	2.70	148	6.53	16.6	0.21	2.4	0.117	2.32	12.4	27.3	2.49	943
A757852	0.37	8.10	7.0	290	1.46	0.21	6.21	0.16	42.2	51.0	99	3.31	349	7.39	18.1	0.42	4.2	0.118	1.59	20.4	21.5	2.40	981
A757853	0.10	6.04	0.2	500	1.16	0.06	6.31	0.13	33.7	40.1	207	2.04	79.3	8.21	15.4	0.33	1.1	0.057	1.28	15.3	15.5	4.05	1350
A757854	0.54	5.34	< 0.2	130	1.07	0.14	5.45	0.12	8.78	39.6	128	3.86	135	8.57	15.8	0.16	1.1	0.059	0.92	3.5	19.2	2.93	1150
A757855	0.33	5.43	< 0.2	90	0.87	0.10	7.73	0.17	9.27	40.2	123	1.01	189	8.66	14.8	0.29	1.1	0.059	0.65	3.7	10.2	3.40	1510
A757856	0.07	6.34	< 0.2	30	0.42	0.03	6.39	0.15	10.8	47.9	127	0.57	122	10.0	16.0	0.31	1.4	0.071	0.26	4.3	14.6	4.18	1410
A757857	0.05	6.76	< 0.2	130	0.34	0.04	6.66	0.10	11.2	44.9	159	1.25	108	9.26	14.5	0.29	1.2	0.065	0.99	4.6	22.7	4.20	1390
A757859	0.09	7.54	< 0.2	180	0.35	0.03	7.00	0.11	6.10	40.6	256	3.28	93.3	7.55	13.6	0.34	0.8	0.050	1.35	2.3	34.7	4.59	1140
A757860	0.15	7.75	0.4	210	0.70	0.04	7.26	0.08	4.48	43.2	317	4.73	74.3	6.87	12.8	0.08	0.7	0.030	2.22	1.7	74.3	4.95	1110
A757861	0.16	6.94	0.7	140	0.58	0.05	8.29	0.07	5.62	37.1	233	2.99	64.9	6.87	13.2	0.53	0.7	0.038	2.18	2.2	48.5	4.46	1080
A757862	0.12	6.86	< 0.2	100	0.49	0.03	7.77	0.06	5.34	38.0	173	3.18	116	7.32	12.6	0.31	0.7	0.042	1.77	2.0	35.2	4.48	1090

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757863	0.07	7.67	< 0.2	180	0.34	0.02	7.27	0.05	3.45	41.3	165	4.25	42.6	6.13	11.2	0.30	0.5	0.022	2.06	1.3	73.5	5.20	920
A757864	0.05	6.97	< 0.2	110	0.30	0.03	7.37	0.09	5.47	39.4	314	2.44	51.2	7.53	12.8	0.21	0.7	0.046	0.83	2.0	22.3	4.84	1170

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757468	0.22	1.68	< 0.1	91.9	430	3.0	18.6	< 0.002	0.37	0.06	42.4	< 1	0.7	97.9	< 0.05	< 0.05	0.5	0.229	0.17	0.2	127	< 0.1	20.6
A757469	0.22	1.74	< 0.1	57.2	450	1.9	13.9	0.003	0.19	< 0.05	40.1	< 1	0.4	94.4	< 0.05	< 0.05	0.4	0.148	0.11	0.2	121	< 0.1	25.4
A757470	0.14	2.02	< 0.1	65.3	440	1.3	7.2	< 0.002	0.14	0.06	42.1	< 1	0.4	131	< 0.05	< 0.05	0.4	0.132	0.07	0.1	107	< 0.1	23.0
A757471	0.11	1.73	< 0.1	62.9	390	0.8	5.3	< 0.002	0.04	0.06	41.6	< 1	< 0.2	143	< 0.05	< 0.05	0.4	0.243	0.04	< 0.1	168	< 0.1	22.5
A757472	0.13	1.74	0.2	83.2	410	0.7	3.1	< 0.002	0.02	0.06	43.5	< 1	< 0.2	148	< 0.05	< 0.05	0.4	0.241	0.03	< 0.1	161	< 0.1	22.4
A757473	0.12	1.78	0.1	70.6	410	0.7	4.7	< 0.002	0.03	< 0.05	42.6	< 1	< 0.2	123	< 0.05	< 0.05	0.4	0.225	0.04	0.1	170	< 0.1	21.9
A757475	0.28	1.62	0.8	69.8	440	1.2	14.6	< 0.002	0.22	0.07	42.4	< 1	0.3	132	< 0.05	< 0.05	0.4	0.392	0.13	0.1	207	0.1	21.8
A757477	1.24	1.61	3.3	51.5	520	3.0	13.8	< 0.002	0.39	0.11	38.2	< 1	1.0	166	0.21	0.09	0.5	0.607	0.14	0.2	262	1.1	23.0
A757478	0.23	1.73	< 0.1	65.7	420	2.4	18.1	< 0.002	0.33	0.08	39.2	< 1	0.7	128	< 0.05	< 0.05	0.4	0.217	0.17	0.4	127	< 0.1	19.5
A757479	0.20	1.53	< 0.1	70.3	430	1.4	24.3	< 0.002	0.19	0.09	42.2	< 1	0.5	112	< 0.05	< 0.05	0.4	0.288	0.21	0.2	163	< 0.1	21.3
A757480	0.50	2.08	1.1	61.0	510	1.2	11.8	< 0.002	0.13	0.09	40.7	< 1	0.5	127	< 0.05	< 0.05	0.4	0.581	0.09	0.1	264	< 0.1	22.1
A757481	0.19	2.31	< 0.1	52.0	390	6.5	23.3	< 0.002	0.12	0.07	37.0	< 1	0.4	98.5	< 0.05	< 0.05	0.6	0.150	0.16	0.5	110	< 0.1	19.9
A757482	0.32	2.64	< 0.1	62.9	440	0.8	3.2	< 0.002	0.07	0.07	43.1	< 1	0.2	72.6	< 0.05	< 0.05	0.4	0.357	0.02	0.1	172	< 0.1	21.7
A757483	0.11	2.86	< 0.1	64.9	460	0.7	3.4	< 0.002	0.19	0.10	43.9	< 1	0.4	54.2	< 0.05	< 0.05	0.4	0.164	0.03	0.1	132	< 0.1	22.6
A757484	0.08	2.81	< 0.1	50.2	810	3.1	21.7	< 0.002	0.10	< 0.05	38.1	< 1	< 0.2	314	< 0.05	< 0.05	1.2	0.157	0.11	0.3	129	< 0.1	21.7
A757485	0.15	2.73	< 0.1	56.8	440	1.4	3.0	< 0.002	0.26	< 0.05	39.7	< 1	0.3	58.5	< 0.05	< 0.05	0.4	0.118	0.03	0.1	121	< 0.1	20.7
A757487	0.47	2.73	0.4	58.6	510	1.5	13.6	< 0.002	0.23	0.12	41.4	< 1	0.7	103	< 0.05	0.06	0.5	0.500	0.10	0.2	231	< 0.1	21.8
A757488	0.18	2.83	0.1	57.7	470	0.8	6.1	< 0.002	0.18	0.08	41.5	< 1	0.6	61.3	< 0.05	< 0.05	0.5	0.312	0.05	0.1	159	< 0.1	22.4
A757489	0.35	3.12	1.2	61.3	500	0.8	3.0	< 0.002	0.17	0.07	43.3	< 1	0.6	69.6	< 0.05	< 0.05	0.5	0.560	0.02	0.1	242	< 0.1	23.5
A757491	0.39	3.21	1.4	57.6	500	1.5	3.0	< 0.002	0.22	0.10	41.8	< 1	0.7	63.0	< 0.05	< 0.05	0.4	0.550	0.03	0.1	247	< 0.1	21.8
A757492	0.51	3.05	< 0.1	55.4	460	1.6	5.3	0.002	0.27	0.07	40.3	< 1	0.5	89.9	< 0.05	< 0.05	0.5	0.288	0.04	0.2	175	< 0.1	22.3
A757493	0.14	3.03	< 0.1	58.8	430	2.7	8.9	< 0.002	0.24	0.08	42.3	< 1	0.5	94.7	< 0.05	< 0.05	0.9	0.274	0.07	0.3	171	< 0.1	23.5
A757494	0.18	2.31	< 0.1	60.8	490	1.9	13.3	0.002	0.20	< 0.05	43.8	< 1	0.3	89.7	< 0.05	< 0.05	0.4	0.233	0.13	0.1	160	< 0.1	25.5
A757495	0.29	1.91	< 0.1	54.5	460	5.7	16.1	< 0.002	0.15	< 0.05	38.5	< 1	0.3	140	< 0.05	< 0.05	0.9	0.332	0.12	0.5	183	< 0.1	23.0
A757496	0.68	1.92	2.2	63.6	490	3.0	21.7	< 0.002	0.17	0.10	38.1	< 1	1.0	128	< 0.05	< 0.05	0.4	0.532	0.19	0.5	235	0.2	22.9
A757497	0.59	2.16	3.2	57.3	510	3.0	30.8	< 0.002	0.13	0.07	39.5	< 1	0.7	91.1	0.19	< 0.05	0.4	0.627	0.26	0.2	270	1.1	22.7
A757498	0.45	2.77	1.5	26.7	830	14.1	81.5	< 0.002	0.04	0.09	16.1	< 1	0.7	707	< 0.05	< 0.05	7.0	0.292	0.51	3.0	102	0.2	15.4
A757499	1.42	1.91	1.0	65.5	640	3.1	37.2	< 0.002	0.41	0.08	40.5	< 1	0.8	149	< 0.05	0.08	0.4	0.501	0.31	0.1	221	0.7	23.7
A757501	1.30	0.56	0.6	161	330	2.5	39.1	< 0.002	0.42	0.10	31.7	< 1	0.7	216	< 0.05	0.06	0.5	0.365	0.25	0.2	170	0.4	16.2
A757502	1.61	0.22	0.9	143	790	3.2	28.8	0.002	0.68	0.18	24.1	< 1	0.6	252	0.06	0.22	0.3	0.197	0.21	0.1	274	3.3	12.4
A757503	1.91	2.11	4.2	77.2	1720	9.0	34.5	< 0.002	0.26	0.17	30.9	< 1	1.3	421	0.23	0.13	3.9	0.527	0.30	1.5	228	1.3	17.9
A757504	0.99	1.78	2.7	87.0	1630	6.8	32.0	< 0.002	0.55	0.24	32.1	< 1	1.3	455	0.05	0.14	4.5	0.488	0.31	1.6	219	1.4	17.3
A757506	0.81	3.21	4.5	59.8	770	10.5	42.0	< 0.002	0.63	0.15	18.3	< 1	0.9	672	0.30	0.14	4.2	0.361	0.31	1.2	151	1.2	13.3
A757507	0.48	3.75	5.2	7.9	1500	10.2	39.5	< 0.002	0.52	0.25	7.0	< 1	1.4	496	0.11	< 0.05	4.1	0.563	0.26	1.1	130	1.1	12.6
A757508	0.83	3.23	4.4	54.0	1170	10.5	44.2	< 0.002	0.60	0.20	17.5	< 1	1.2	553	0.14	0.11	3.7	0.461	0.29	1.2	154	1.3	14.2
A757509	1.55	1.77	0.8	113	870	7.0	42.8	< 0.002	0.96	0.12	31.1	< 1	1.0	432	< 0.05	< 0.05	2.4	0.396	0.36	1.3	187	1.0	14.2
A757510	0.27	2.82	0.4	37.1	1450	10.0	82.1	< 0.002	0.18	0.05	22.9	< 1	0.4	951	< 0.05	< 0.05	3.4	0.387	0.42	1.0	170	0.2	16.5
A757511	0.67	2.23	2.3	64.4	1260	8.5	51.9	< 0.002	1.88	0.08	27.9	< 1	1.3	528	< 0.05	< 0.05	4.3	0.463	0.36	1.8	203	5.5	17.0
A757513	0.86	2.54	3.9	48.4	1460	9.4	57.2	< 0.002	1.16	0.13	24.6	< 1	1.3	635	0.17	0.26	4.3	0.438	0.34	1.4	174	13.1	16.9
A757515	0.68	2.42	4.2	63.9	1180	10.2	75.4	< 0.002	0.65	0.10	23.2	< 1	0.9	706	0.25	0.11	3.9	0.406	0.51	1.3	171	4.9	15.6
A757516	0.47	2.71	3.1	80.0	700	10.3	47.3	< 0.002	0.44	0.12	17.5	< 1	0.7	621	0.20	0.11	5.9	0.343	0.34	1.5	141	3.5	11.9
A757517	0.32	2.95	3.2	83.4	720	12.8	53.3	< 0.002	0.31	0.12	18.6	< 1	0.8	648	0.21	0.11	6.3	0.343	0.37	1.5	146	3.7	12.3

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757518	17.9	1.93	3.5	193	1160	10.9	66.0	< 0.002	2.03	0.17	20.3	1	1.3	847	0.20	0.33	3.9	0.363	0.50	1.0	259	14.9	12.7
A757519	0.85	2.78	0.9	51.5	2000	13.3	92.8	< 0.002	0.28	0.12	18.2	< 1	0.8	1130	< 0.05	< 0.05	6.7	0.379	0.63	1.4	142	0.5	16.9
A757520	1.56	2.25	1.3	210	1600	10.8	97.3	< 0.002	0.51	0.12	19.7	< 1	1.1	894	< 0.05	0.11	4.9	0.369	0.71	1.1	177	0.7	15.5
A757521	0.40	3.03	0.9	50.9	1480	13.3	67.0	< 0.002	0.22	0.11	17.1	< 1	0.6	1040	< 0.05	< 0.05	6.0	0.312	0.47	1.5	121	0.5	15.6
A757523	1.06	2.36	5.1	320	1440	22.9	17.7	< 0.002	0.43	0.09	20.0	< 1	1.1	674	0.19	0.06	4.5	0.402	0.12	1.6	156	1.9	17.8
A757524	0.21	3.26	4.1	28.8	1880	19.6	62.9	< 0.002	0.31	0.10	18.8	< 1	0.9	229	0.21	< 0.05	4.3	0.406	0.37	1.6	142	1.0	16.0
A757525	0.28	2.11	5.0	52.5	1710	10.7	94.7	< 0.002	0.51	0.11	20.0	< 1	1.0	379	0.31	< 0.05	4.9	0.412	0.55	1.9	142	1.1	14.7
A757526	0.32	2.44	5.3	64.2	1430	11.7	103	< 0.002	0.34	0.13	20.9	< 1	0.9	441	0.34	< 0.05	4.8	0.369	0.54	1.9	131	1.1	15.4
A757527	0.61	2.23	4.9	230	1410	79.5	43.7	< 0.002	0.17	0.21	23.4	< 1	1.3	408	0.29	0.06	3.4	0.441	0.23	1.0	172	1.3	18.1
A757528	8.26	0.66	0.3	426	310	50.7	39.3	0.002	1.36	0.08	24.4	< 1	0.7	243	< 0.05	0.08	0.8	0.249	0.35	0.3	172	0.1	10.5
A757529	1.61	0.33	0.3	582	160	1.0	12.1	< 0.002	1.86	0.05	33.1	< 1	0.3	153	< 0.05	0.06	< 0.2	0.291	0.25	< 0.1	206	0.3	10.5
A757530	4.03	0.69	2.3	609	170	3.5	16.3	< 0.002	1.13	0.12	25.6	< 1	0.5	170	0.11	0.31	0.4	0.230	0.24	0.3	165	0.6	9.5
A757531	11.3	0.55	10.9	587	410	1.3	13.3	0.002	0.45	0.11	28.0	< 1	0.5	228	0.50	0.15	1.7	0.358	0.27	0.8	176	0.8	11.1
A757533	0.49	0.27	2.9	604	1490	2.9	30.6	< 0.002	0.31	0.09	28.3	< 1	1.3	475	< 0.05	0.05	5.0	0.435	0.49	1.7	139	< 0.1	16.6
A757534	0.97	0.30	17.1	507	1100	2.3	18.4	< 0.002	1.21	0.07	28.0	< 1	0.9	325	0.41	< 0.05	2.4	0.489	0.31	1.2	172	0.3	13.6
A757535	0.61	0.34	1.2	699	160	0.8	17.0	< 0.002	0.40	0.13	32.7	< 1	0.4	159	0.08	0.22	0.2	0.296	0.16	< 0.1	188	3.0	11.4
A757536	0.97	0.17	0.7	868	130	0.6	7.1	< 0.002	0.35	0.13	30.4	< 1	0.3	184	< 0.05	0.13	< 0.2	0.246	0.10	< 0.1	165	0.8	9.3
A757538	1.27	0.91	2.3	443	680	2.0	17.0	< 0.002	0.10	0.11	30.4	< 1	0.7	227	0.15	0.06	1.6	0.363	0.15	0.6	194	0.9	13.7
A757539	24.7	0.66	1.3	688	360	1.5	17.7	0.006	0.26	0.14	30.2	< 1	0.6	161	0.09	0.14	0.7	0.282	0.17	0.3	173	2.9	11.6
A757540	1.47	0.43	1.0	755	170	1.5	22.8	< 0.002	0.35	0.12	35.2	< 1	0.4	137	0.06	0.21	0.2	0.302	0.19	< 0.1	201	1.6	11.7
A757541	13.6	0.26	1.0	469	160	2.7	36.5	< 0.002	1.51	0.14	20.7	2	0.5	166	0.07	0.40	0.8	0.181	0.26	0.4	152	0.8	8.3
A757542	1.95	0.62	4.8	515	180	4.2	21.0	< 0.002	0.50	0.13	28.4	< 1	1.1	210	0.16	0.10	0.3	0.282	0.17	0.7	187	1.0	11.4
A757543	1.13	0.70	1.1	614	160	3.8	18.8	< 0.002	0.12	0.11	30.3	< 1	0.7	187	0.06	< 0.05	< 0.2	0.277	0.18	0.2	176	1.1	11.2
A757544	0.98	0.95	0.9	580	140	7.5	20.6	< 0.002	0.15	0.12	31.0	< 1	0.4	151	< 0.05	< 0.05	< 0.2	0.272	0.17	< 0.1	178	0.9	10.8
A757546	0.43	2.69	0.3	325	1160	5.8	55.0	< 0.002	0.08	< 0.05	26.3	< 1	0.7	625	< 0.05	< 0.05	2.4	0.313	0.35	0.7	154	< 0.1	14.0
A757548	0.26	3.07	2.6	84.1	1760	8.6	79.6	< 0.002	0.08	< 0.05	18.0	< 1	0.9	948	< 0.05	< 0.05	4.7	0.386	0.45	0.8	135	0.1	14.6
A757549	0.76	1.31	0.9	707	160	1.8	17.7	< 0.002	0.11	0.16	34.5	< 1	0.4	162	0.06	< 0.05	< 0.2	0.275	0.14	< 0.1	179	0.6	11.4
A757550	1.65	1.27	3.1	497	140	4.2	33.4	< 0.002	0.04	0.12	32.1	< 1	0.5	154	0.15	< 0.05	1.2	0.271	0.24	1.0	179	0.6	11.2
A757551	2.34	1.33	0.9	504	140	1.7	21.0	< 0.002	0.03	0.10	35.0	< 1	0.4	112	0.06	< 0.05	< 0.2	0.295	0.14	< 0.1	195	0.4	12.3
A757552	0.88	1.37	1.0	319	150	0.8	24.7	< 0.002	0.05	0.11	40.5	< 1	0.4	101	0.07	< 0.05	0.2	0.347	0.17	< 0.1	226	0.3	14.3
A757553	1.05	1.08	0.9	424	160	1.0	21.5	< 0.002	0.11	0.12	36.4	< 1	0.4	74.8	0.06	< 0.05	0.3	0.330	0.17	< 0.1	215	0.6	15.3
A757554	0.48	1.27	0.1	386	160	1.6	31.9	< 0.002	0.04	< 0.05	40.7	< 1	< 0.2	103	< 0.05	< 0.05	0.5	0.313	0.22	0.2	217	< 0.1	15.5
A757556	0.44	0.78	0.2	520	160	9.6	30.2	< 0.002	0.08	0.06	33.5	< 1	< 0.2	45.3	< 0.05	< 0.05	< 0.2	0.268	0.22	< 0.1	187	0.1	11.1
A757557	0.48	1.37	0.5	410	170	3.6	54.9	< 0.002	0.06	0.06	38.0	< 1	0.3	157	< 0.05	< 0.05	0.2	0.326	0.29	0.1	219	0.1	12.9
A757558	0.72	1.57	1.0	457	200	4.0	61.4	< 0.002	0.08	0.10	46.7	< 1	0.4	126	0.07	0.05	0.2	0.398	0.34	< 0.1	263	0.6	16.2
A757559	0.98	1.73	2.9	74.9	470	2.9	17.0	< 0.002	0.43	0.10	38.6	< 1	0.7	112	0.18	0.08	0.4	0.596	0.14	0.2	254	1.1	19.4
A757560	1.44	1.61	3.4	46.6	530	3.2	16.0	< 0.002	0.48	0.11	37.5	< 1	1.1	106	0.22	0.08	0.5	0.613	0.17	0.3	269	1.4	24.6
A757561	0.47	2.20	2.2	78.2	460	1.3	14.6	< 0.002	0.07	0.07	40.6	< 1	0.4	142	0.11	< 0.05	0.4	0.545	0.11	0.1	246	0.6	21.5
A757563	0.40	1.58	2.4	72.9	420	0.8	15.1	< 0.002	0.04	0.10	42.4	< 1	0.5	125	0.14	< 0.05	0.4	0.519	0.13	< 0.1	238	0.2	21.3
A757564	0.12	1.68	< 0.1	70.4	410	0.9	6.9	< 0.002	0.17	0.05	41.1	< 1	0.3	133	< 0.05	< 0.05	0.4	0.111	0.06	0.1	112	< 0.1	22.9
A757565	0.40	1.91	0.3	56.7	480	2.4	12.2	< 0.002	0.38	0.10	41.5	< 1	0.8	142	< 0.05	< 0.05	0.5	0.487	0.09	0.2	217	< 0.1	22.5
A757566	0.31	1.64	0.2	59.7	490	1.0	17.7	< 0.002	0.38	0.11	42.6	< 1	0.7	112	< 0.05	< 0.05	0.4	0.469	0.15	0.1	218	< 0.1	22.3

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757567	0.88	2.08	3.7	64.1	490	1.6	23.3	< 0.002	0.25	0.11	40.2	< 1	0.8	86.9	0.19	< 0.05	0.4	0.605	0.20	0.2	270	4.4	21.9
A757568	0.67	3.07	2.6	61.7	490	1.8	4.8	< 0.002	0.16	0.11	40.5	< 1	0.6	70.5	0.14	< 0.05	0.7	0.568	0.05	0.3	247	0.2	23.3
A757569	0.43	2.96	0.5	50.0	390	8.7	49.0	< 0.002	0.09	0.07	33.4	< 1	0.6	87.7	< 0.05	< 0.05	3.7	0.416	0.30	1.3	181	< 0.1	18.7
A757571	0.37	2.93	< 0.1	23.7	660	15.4	88.3	< 0.002	0.08	0.07	18.1	< 1	0.5	395	< 0.05	< 0.05	8.5	0.220	0.54	3.2	93	< 0.1	15.8
A757572	0.42	3.03	0.5	63.3	470	0.9	4.4	< 0.002	0.07	< 0.05	41.1	< 1	0.2	72.5	< 0.05	< 0.05	0.4	0.435	0.03	0.1	195	< 0.1	23.7
A757573	0.34	2.95	< 0.1	69.6	450	1.4	5.2	0.002	0.17	0.10	42.8	< 1	0.7	79.7	< 0.05	< 0.05	0.5	0.285	0.05	0.2	152	< 0.1	24.8
A757574	0.37	3.06	0.8	68.1	500	1.6	7.2	< 0.002	0.18	0.06	44.2	< 1	0.6	68.4	< 0.05	< 0.05	0.5	0.477	0.09	0.2	214	< 0.1	25.1
A757575	0.58	2.97	0.9	51.1	420	4.9	20.7	0.002	0.10	0.06	33.7	< 1	0.4	149	< 0.05	< 0.05	1.7	0.439	0.13	0.7	193	< 0.1	20.3
A757576	0.47	2.93	3.1	51.4	890	3.6	22.9	< 0.002	0.10	0.11	36.7	< 1	0.8	308	0.17	< 0.05	1.3	0.545	0.13	0.3	231	0.3	23.1
A757578	0.36	2.91	2.0	60.6	480	1.3	3.9	< 0.002	0.11	0.07	41.7	< 1	0.5	74.9	0.09	< 0.05	0.4	0.535	0.03	0.1	246	0.1	24.0
A757579	0.39	2.83	1.6	63.7	490	1.4	4.6	< 0.002	0.08	0.08	44.2	< 1	0.4	92.8	< 0.05	< 0.05	0.5	0.502	0.04	0.1	253	0.3	27.1
A757580	0.22	2.33	0.2	63.1	480	1.9	20.1	< 0.002	0.32	0.06	43.2	< 1	0.9	83.5	< 0.05	< 0.05	0.5	0.435	0.19	0.1	196	< 0.1	25.5
A757581	0.10	2.57	< 0.1	63.5	440	3.0	14.5	0.002	0.58	< 0.05	41.6	< 1	0.8	117	< 0.05	< 0.05	0.5	0.254	0.14	0.2	141	< 0.1	25.3
A757583	0.56	2.36	0.6	60.1	480	2.6	10.0	< 0.002	0.18	0.06	42.7	< 1	0.5	125	< 0.05	< 0.05	0.4	0.479	0.11	< 0.1	217	< 0.1	24.3
A757585	0.58	1.61	0.7	52.1	440	2.3	15.6	< 0.002	0.18	0.06	38.2	< 1	0.6	178	< 0.05	< 0.05	0.4	0.419	0.13	0.4	200	< 0.1	22.3
A757586	12.9	1.82	3.1	51.4	500	1.7	11.7	0.002	0.29	0.08	38.4	< 1	0.8	155	0.19	0.05	0.4	0.612	0.09	0.1	262	12.0	23.1
A757587	1.78	2.03	3.3	53.4	540	2.0	10.1	< 0.002	0.21	0.08	39.2	< 1	0.8	121	0.21	0.05	0.4	0.641	0.10	0.1	271	1.0	24.0
A757588	0.50	2.05	2.1	52.7	500	1.7	9.3	< 0.002	0.19	0.05	38.6	< 1	0.5	128	0.07	< 0.05	0.4	0.588	0.08	0.1	255	0.3	23.0
A757589	0.48	2.19	3.1	54.2	530	1.7	9.0	< 0.002	0.39	0.07	39.7	< 1	0.7	139	0.16	0.06	0.4	0.628	0.08	0.1	266	0.8	23.8
A757590	0.07	2.09	< 0.1	57.1	490	1.6	11.3	< 0.002	0.24	0.06	40.8	< 1	0.4	142	< 0.05	< 0.05	0.5	0.140	0.09	0.2	130	< 0.1	25.4
A757592	0.08	1.92	< 0.1	54.3	470	1.5	23.9	< 0.002	0.34	< 0.05	40.6	< 1	0.5	137	< 0.05	< 0.05	0.5	0.204	0.18	0.2	135	< 0.1	24.4
A757593	0.27	1.80	< 0.1	55.9	510	1.5	14.8	< 0.002	0.40	0.08	41.0	< 1	0.8	129	< 0.05	< 0.05	0.4	0.420	0.11	0.1	181	< 0.1	25.6
A757594	0.36	1.82	1.7	44.4	510	1.3	18.3	< 0.002	0.38	0.06	32.3	< 1	0.5	113	0.06	< 0.05	0.4	0.561	0.13	0.1	241	0.4	19.1
A757596	0.60	1.84	3.5	61.0	550	1.5	15.1	< 0.002	0.27	0.19	40.8	< 1	1.0	129	0.23	0.06	0.4	0.655	0.10	0.1	272	1.8	25.7
A757597	1.51	1.46	3.1	53.3	480	1.6	29.2	< 0.002	0.28	0.13	34.7	< 1	0.7	124	0.21	0.10	0.4	0.558	0.22	< 0.1	232	12.8	23.7
A757598	0.59	1.60	3.7	61.8	580	1.6	44.1	0.003	0.23	0.18	43.6	< 1	0.8	75.5	0.24	0.12	0.4	0.645	0.33	0.1	275	4.0	26.7
A757599	0.22	1.65	< 0.1	56.0	450	1.9	33.3	< 0.002	0.22	0.06	42.9	< 1	0.4	78.5	< 0.05	< 0.05	0.4	0.153	0.25	0.1	130	< 0.1	24.2
A757600	0.74	1.55	< 0.1	55.7	450	1.4	34.3	< 0.002	0.19	< 0.05	42.2	< 1	0.3	124	< 0.05	< 0.05	0.4	0.139	0.23	0.1	133	< 0.1	24.2
A757601	0.26	1.61	0.4	70.6	450	1.9	37.2	< 0.002	0.13	0.05	40.1	< 1	0.4	134	< 0.05	< 0.05	0.5	0.420	0.29	0.1	194	0.1	20.4
A757602	0.45	1.80	1.9	76.3	470	1.8	24.6	< 0.002	0.13	0.06	41.8	< 1	0.4	117	0.08	< 0.05	0.5	0.556	0.20	0.2	261	0.4	20.9
A757603	0.87	1.80	2.9	88.8	450	1.6	22.3	< 0.002	0.19	0.14	39.3	< 1	0.7	118	0.18	0.09	0.3	0.589	0.17	< 0.1	263	2.8	20.3
A757604	0.38	2.55	4.2	33.2	1450	9.5	84.6	< 0.002	0.12	0.11	21.3	< 1	1.0	939	0.23	< 0.05	2.5	0.463	0.45	0.8	174	0.3	15.8
A757606	1.70	1.70	3.7	24.1	880	8.1	74.0	< 0.002	1.43	0.07	12.2	< 1	0.9	448	0.24	0.14	1.8	0.289	0.53	0.6	96	1.0	10.5
A757607	7.18	0.32	2.0	50.5	230	5.5	18.4	0.003	8.48	0.13	4.4	2	0.6	54.7	0.14	0.96	1.0	0.103	0.19	0.3	31	1.1	5.9
A757608	6.22	0.72	2.3	51.2	270	4.6	25.7	0.003	9.79	0.09	5.1	2	0.6	113	0.16	1.46	1.1	0.126	0.23	0.3	39	1.6	6.6
A757609	0.71	2.05	3.6	75.6	1430	5.6	46.4	< 0.002	0.83	0.11	28.4	< 1	1.0	842	0.19	0.36	3.6	0.315	0.27	1.0	162	0.7	14.6
A757610	0.94	1.80	3.5	54.5	550	3.7	37.6	< 0.002	0.25	0.09	36.7	< 1	0.9	251	0.19	0.08	0.7	0.527	0.29	0.4	231	3.0	22.2
A757611	0.72	2.34	3.7	65.3	500	4.0	43.6	< 0.002	0.27	0.08	40.0	< 1	0.9	185	0.21	0.07	0.4	0.614	0.40	0.2	266	4.9	23.1
A757612	0.69	2.04	3.0	61.8	540	3.1	50.0	< 0.002	0.43	0.08	40.9	< 1	1.0	196	0.15	0.08	0.4	0.616	0.35	0.2	254	2.8	22.7
A757614	0.70	2.24	2.2	62.2	580	3.5	59.9	< 0.002	0.34	< 0.05	43.8	< 1	0.6	179	0.06	< 0.05	0.4	0.564	0.47	0.2	227	1.1	23.2
A757615	0.12	2.26	< 0.1	75.9	420	2.4	34.9	< 0.002	0.31	< 0.05	41.9	< 1	0.6	211	< 0.05	< 0.05	0.4	0.267	0.26	0.1	158	< 0.1	22.0
A757616	0.54	2.26	< 0.1	72.6	480	2.6	33.5	0.004	0.13	< 0.05	45.8	< 1	0.3	227	< 0.05	< 0.05	0.4	0.212	0.25	0.1	130	< 0.1	27.0

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757617	0.49	2.15	0.5	62.8	490	2.1	42.8	< 0.002	0.35	0.06	44.1	< 1	0.7	238	< 0.05	0.06	0.5	0.481	0.27	0.1	230	0.3	23.9
A757618	0.75	1.73	3.1	68.6	470	1.8	54.8	< 0.002	0.33	0.09	40.5	< 1	0.7	213	0.20	0.11	0.4	0.591	0.39	0.1	260	26.4	22.7
A757619	0.52	2.29	3.4	68.4	530	2.4	49.9	< 0.002	0.26	0.06	42.8	< 1	0.7	255	0.21	0.08	0.5	0.653	0.34	0.2	279	10.5	24.4
A757620	0.82	2.26	17.1	44.2	1200	8.2	62.7	< 0.002	0.22	0.09	31.6	< 1	1.5	585	0.60	0.06	1.8	0.501	0.38	1.4	192	5.9	20.5
A757621	0.31	2.36	5.9	23.7	1840	11.8	90.3	< 0.002	0.30	0.08	24.4	< 1	1.1	667	0.32	< 0.05	4.0	0.442	0.52	1.2	159	0.9	19.8
A757623	0.94	2.96	2.5	2.2	190	18.8	112	< 0.002	0.05	0.09	1.1	< 1	0.2	309	0.13	< 0.05	5.7	0.077	0.63	1.5	14	1.0	2.9
A757624	0.88	2.93	2.4	2.9	250	19.3	110	< 0.002	0.05	0.08	2.8	< 1	0.3	400	< 0.05	< 0.05	9.2	0.102	0.58	2.0	21	0.8	5.6
A757625	0.65	2.99	4.4	5.9	410	19.5	89.7	< 0.002	0.05	0.07	4.1	< 1	0.4	363	0.12	< 0.05	8.0	0.134	0.45	1.7	34	0.7	8.5
A757626	0.56	3.14	5.5	4.5	610	21.4	100	< 0.002	0.06	0.06	5.1	< 1	0.6	665	0.22	< 0.05	8.7	0.169	0.50	2.0	40	0.5	12.1
A757627	0.55	3.22	5.9	7.5	650	21.4	94.6	< 0.002	0.10	0.10	5.2	< 1	0.6	829	0.37	< 0.05	9.9	0.175	0.53	3.1	41	0.5	11.2
A757629	1.07	3.77	5.8	8.3	720	29.0	97.1	< 0.002	0.11	0.15	5.2	< 1	0.7	394	0.30	< 0.05	9.0	0.194	0.56	2.5	45	1.6	9.7
A757630	2.05	2.00	3.8	121	1100	7.7	57.1	< 0.002	0.64	0.11	34.2	< 1	1.2	351	0.23	0.25	2.4	0.515	0.44	0.9	243	3.5	18.0
A757631	2.38	2.42	3.1	50.5	1090	6.6	41.3	< 0.002	1.49	0.13	21.2	< 1	1.0	461	0.17	0.26	2.0	0.405	0.35	0.8	198	7.5	14.2
A757632	0.67	1.70	1.1	85.3	1210	5.6	50.0	< 0.002	0.47	0.08	38.6	< 1	0.9	549	< 0.05	< 0.05	1.9	0.433	0.39	0.7	227	0.3	16.4
A757633	1.07	2.89	4.1	54.6	1270	10.2	31.2	< 0.002	1.15	0.08	23.8	< 1	1.1	638	0.14	< 0.05	2.8	0.488	0.25	0.7	179	1.3	14.0
A757635	1.25	3.06	1.3	39.0	1200	10.5	47.1	< 0.002	1.38	0.11	22.9	< 1	1.1	650	< 0.05	< 0.05	2.8	0.496	0.42	0.9	183	0.5	15.7
A757636	2.05	4.51	3.6	11.6	980	8.5	29.3	< 0.002	0.85	0.17	7.3	< 1	1.3	307	< 0.05	0.09	3.9	0.503	0.25	1.2	121	1.3	11.6
A757637	2.28	3.77	6.9	4.4	1500	19.1	37.7	< 0.002	0.92	0.25	6.3	< 1	1.5	828	0.19	0.22	4.2	0.581	0.25	0.8	130	5.7	13.2
A757639	1.12	2.84	2.0	17.4	1460	10.7	56.0	< 0.002	0.65	0.21	15.0	< 1	1.3	706	< 0.05	0.11	3.4	0.526	0.34	0.8	141	0.6	14.4
A757640	4.65	0.84	1.1	260	310	7.0	64.3	< 0.002	0.97	0.13	18.4	< 1	0.6	314	0.06	0.20	0.6	0.216	0.68	0.3	181	1.4	7.6
A757641	2.04	2.94	3.3	87.3	950	10.2	56.0	< 0.002	0.84	0.16	24.0	< 1	0.9	536	0.17	0.13	3.1	0.409	0.38	0.7	179	1.0	13.6
A757642	0.73	3.06	4.6	40.3	1920	20.5	50.2	< 0.002	0.55	0.15	19.6	< 1	1.2	653	0.17	0.16	5.3	0.408	0.32	1.6	149	1.2	16.2
A757643	0.88	0.93	3.4	389	1430	15.8	58.0	< 0.002	0.37	0.09	23.2	< 1	1.1	295	0.15	< 0.05	3.1	0.404	0.44	0.9	151	1.2	17.6
A757644	0.91	2.51	2.1	99.7	1480	40.0	34.1	< 0.002	0.44	0.11	29.0	< 1	1.2	431	< 0.05	0.12	4.0	0.455	0.25	1.3	194	0.8	16.6
A757645	3.49	2.74	3.3	78.4	760	92.4	58.1	< 0.002	0.94	0.13	17.4	< 1	1.0	380	0.22	0.24	6.6	0.319	0.38	1.8	169	2.2	11.5
A757646	1.71	3.36	3.3	73.4	200	24.1	62.7	< 0.002	2.10	0.11	15.1	< 1	0.8	431	0.25	0.24	5.8	0.291	0.47	2.1	151	2.1	10.3
A757648	9.63	1.24	2.6	118	400	13.0	39.2	< 0.002	0.85	0.17	11.7	< 1	0.7	208	0.15	0.35	2.3	0.186	0.27	1.1	129	0.8	6.5
A757649	4.23	2.34	4.7	102	1490	46.9	47.6	< 0.002	0.81	0.18	17.9	< 1	1.1	638	0.26	0.25	5.1	0.385	0.32	1.2	139	1.9	14.7
A757650	0.96	2.93	6.5	43.4	830	21.0	84.3	< 0.002	0.45	0.14	10.0	< 1	0.7	414	0.53	0.08	8.3	0.237	0.47	2.5	72	1.4	10.6
A757652	3.54	2.52	4.1	77.2	1050	16.2	47.1	< 0.002	0.64	0.13	15.3	< 1	0.9	620	0.12	0.11	3.6	0.284	0.29	1.1	108	1.7	13.4
A757653	0.12	0.42	< 0.1	208	100	1.5	16.9	< 0.002	0.01	< 0.05	50.6	< 1	< 0.2	99.1	< 0.05	< 0.05	0.4	0.142	0.11	0.1	157	< 0.1	8.5
A757654	0.75	0.97	0.8	175	310	1.4	8.8	< 0.002	0.06	< 0.05	38.9	< 1	< 0.2	142	< 0.05	< 0.05	1.7	0.241	0.07	0.5	168	< 0.1	11.5
A757656	0.36	2.46	1.8	120	300	1.0	3.5	< 0.002	0.07	0.13	35.2	< 1	0.5	105	0.11	< 0.05	0.6	0.402	0.03	0.1	221	0.8	13.3
A757657	0.55	1.91	2.0	171	320	1.6	10.4	< 0.002	0.05	0.33	38.6	< 1	0.5	165	0.13	< 0.05	0.6	0.413	0.12	0.2	225	0.4	14.8
A757658	0.66	1.26	1.7	96.2	300	1.5	27.3	< 0.002	0.04	0.31	34.3	< 1	0.4	138	0.10	< 0.05	0.6	0.386	0.19	0.1	214	0.2	13.5
A757660	0.57	1.02	1.3	104	300	2.2	26.7	< 0.002	0.03	0.19	35.1	< 1	< 0.2	153	0.06	< 0.05	0.6	0.375	0.17	0.2	212	0.1	13.7
A757661	0.39	1.47	0.1	111	270	1.2	24.3	< 0.002	0.08	0.08	32.8	< 1	0.2	123	< 0.05	< 0.05	0.6	0.312	0.17	0.1	181	< 0.1	13.2
A757662	0.45	2.02	< 0.1	126	290	1.7	9.5	< 0.002	0.16	< 0.05	35.2	< 1	0.4	180	< 0.05	< 0.05	0.6	0.290	0.10	0.2	179	< 0.1	13.8
A757663	0.56	1.71	1.8	92.4	280	2.4	11.7	< 0.002	0.24	0.14	36.2	< 1	1.0	170	0.08	0.08	0.6	0.420	0.19	0.1	222	0.1	13.9
A757664	0.59	1.59	3.1	95.5	740	5.3	44.0	< 0.002	0.45	0.17	39.2	< 1	1.3	292	0.16	0.05	1.7	0.409	0.95	0.4	214	0.4	16.5
A757665	0.62	1.78	1.9	120	290	6.5	22.4	< 0.002	1.59	0.13	39.6	< 1	1.7	188	0.12	0.09	0.5	0.409	0.46	0.1	233	0.4	14.7
A757666	5.55	1.55	2.4	152	300	26.0	29.2	0.005	5.87	0.65	31.5	4	3.3	148	0.19	0.80	1.3	0.329	0.76	0.4	175	0.6	13.8

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757667	1.29	1.54	2.1	116	280	18.3	37.2	< 0.002	4.17	0.25	38.8	2	2.3	165	0.13	0.33	0.7	0.399	1.21	0.2	217	0.5	13.4
A757668	3.01	1.93	2.8	121	280	18.9	20.2	0.003	2.99	0.34	30.0	3	3.3	188	0.22	0.45	1.7	0.313	0.56	0.6	165	0.5	14.0
A757669	0.98	1.53	1.0	160	240	7.6	18.1	< 0.002	2.92	0.06	35.1	1	1.1	133	< 0.05	0.06	0.5	0.349	0.55	0.2	198	0.2	12.6
A757671	0.77	1.78	1.0	118	260	4.5	9.2	0.002	0.37	0.07	39.8	< 1	0.6	186	< 0.05	< 0.05	0.6	0.402	0.25	0.2	224	< 0.1	13.1
A757672	4.04	1.59	2.5	257	320	15.5	26.5	0.004	3.89	0.37	32.6	3	3.6	110	0.20	0.35	1.6	0.339	0.51	0.5	184	0.5	15.4
A757673	0.48	1.62	1.4	86.3	300	9.0	31.2	< 0.002	2.05	< 0.05	37.3	< 1	1.1	180	0.07	< 0.05	0.5	0.439	0.55	0.1	234	0.1	15.4
A757674	0.57	1.71	0.7	81.4	270	4.0	23.9	< 0.002	3.05	0.08	39.7	< 1	0.6	150	< 0.05	< 0.05	0.4	0.351	0.35	0.1	230	0.2	14.5
A757675	3.39	1.00	1.9	216	190	20.1	16.4	0.004	> 10.0	0.71	19.0	3	2.5	100	0.15	0.42	1.3	0.202	0.46	0.4	125	0.8	9.3
A757676	5.40	1.73	2.5	146	250	23.2	19.2	0.006	5.06	1.79	20.4	4	3.1	130	0.21	0.37	2.0	0.232	0.62	0.7	115	1.4	12.1
A757677	4.18	1.16	2.3	148	210	27.4	18.8	0.006	7.39	0.74	20.5	4	2.9	118	0.18	0.25	1.4	0.233	0.43	0.5	131	1.2	10.5
A757678	3.62	0.58	2.7	253	190	32.3	10.8	0.006	7.27	1.25	3.8	5	2.3	137	0.19	0.36	1.7	0.092	0.40	0.6	27	1.2	6.1
A757680	4.23	0.43	1.3	224	200	24.2	43.7	0.004	3.77	1.10	17.9	2	3.4	228	0.10	0.26	0.8	0.177	1.64	0.3	111	2.6	7.9
A757681	1.01	0.36	1.0	154	180	3.8	54.7	< 0.002	1.20	0.09	29.3	< 1	0.9	167	< 0.05	0.14	0.3	0.316	1.14	< 0.1	181	6.9	8.3
A757682	14.5	1.16	2.6	216	440	22.0	38.9	0.004	5.97	0.55	13.9	3	2.0	165	0.23	1.27	2.1	0.181	0.55	0.7	105	7.9	9.2
A757684	2.90	1.76	2.3	228	290	30.9	39.3	0.005	6.97	0.49	24.9	4	2.2	163	0.16	1.16	1.4	0.293	1.11	0.5	167	1.7	12.4
A757685	9.94	1.13	1.8	68.1	280	2.7	53.4	0.005	1.37	0.06	34.1	< 1	0.9	114	0.12	0.11	0.5	0.439	1.66	0.1	226	1.1	14.2
A757686	0.19	2.49	< 0.1	64.1	260	3.1	17.3	< 0.002	0.99	< 0.05	33.1	< 1	0.6	211	< 0.05	< 0.05	0.4	0.311	0.31	0.1	194	< 0.1	14.5
A757687	0.09	1.68	< 0.1	86.8	240	2.4	31.5	< 0.002	0.98	< 0.05	36.9	< 1	0.4	207	< 0.05	< 0.05	0.5	0.276	0.42	0.1	201	< 0.1	15.6
A757688	0.85	2.44	1.9	92.5	930	4.8	12.4	< 0.002	0.23	0.14	27.8	< 1	0.8	470	0.06	< 0.05	2.9	0.367	0.18	0.6	176	0.4	14.7
A757689	0.48	1.87	5.9	137	390	6.5	12.7	< 0.002	0.14	0.18	33.8	< 1	0.4	294	0.19	0.06	1.7	0.367	0.11	0.3	193	0.6	11.4
A757690	0.36	2.01	10.6	191	820	6.9	24.9	< 0.002	0.20	0.28	27.8	< 1	0.6	404	0.27	< 0.05	4.1	0.356	0.17	0.8	154	0.7	12.2
A757691	0.41	3.00	4.9	19.4	1700	9.8	53.4	< 0.002	0.16	0.09	24.0	< 1	1.1	896	0.26	0.05	3.1	0.488	0.35	0.9	171	0.5	22.1
A757692	1.15	2.77	4.3	18.3	1780	10.2	60.6	< 0.002	0.09	0.08	23.2	< 1	1.2	922	0.19	0.20	2.7	0.486	0.40	0.8	169	0.4	21.8
A757693	0.22	2.57	4.5	27.5	1630	7.8	57.3	< 0.002	0.18	0.08	23.4	< 1	1.1	793	0.26	< 0.05	2.5	0.464	0.37	0.8	168	0.5	20.7
A757694	0.26	1.20	0.2	124	200	1.8	6.8	< 0.002	0.12	< 0.05	33.8	< 1	0.2	135	< 0.05	< 0.05	0.3	0.316	0.06	< 0.1	187	< 0.1	11.9
A757695	0.17	1.70	< 0.1	130	210	1.2	7.4	< 0.002	0.19	< 0.05	33.5	< 1	0.2	171	< 0.05	< 0.05	0.3	0.287	0.08	< 0.1	181	< 0.1	11.6
A757697	0.39	1.98	1.4	133	240	1.0	5.1	< 0.002	0.20	0.07	37.5	< 1	0.5	191	0.09	< 0.05	0.3	0.389	0.05	< 0.1	220	0.3	12.5
A757698	0.60	2.10	1.0	125	210	0.8	3.6	< 0.002	0.12	0.12	33.7	< 1	0.4	143	< 0.05	< 0.05	0.3	0.349	0.03	< 0.1	200	0.1	11.3
A757699	0.67	1.15	1.5	146	250	< 0.5	5.5	< 0.002	0.26	0.24	39.0	< 1	0.5	113	0.10	0.08	0.3	0.410	0.06	< 0.1	235	0.3	13.2
A757701	0.72	0.66	1.3	144	220	0.7	11.2	< 0.002	0.09	0.23	35.1	< 1	0.4	121	0.09	< 0.05	0.3	0.383	0.08	< 0.1	219	0.3	12.2
A757702	1.06	0.49	1.4	165	220	< 0.5	17.6	< 0.002	0.09	0.15	39.9	< 1	0.5	116	0.08	< 0.05	0.3	0.381	0.13	< 0.1	219	0.2	13.4
A757703	2.31	0.40	0.4	178	210	1.3	10.1	0.004	0.16	0.07	37.7	< 1	0.4	107	< 0.05	< 0.05	0.3	0.342	0.09	< 0.1	201	< 0.1	12.9
A757704	0.23	1.20	0.1	103	240	0.8	13.0	< 0.002	0.15	< 0.05	37.2	< 1	< 0.2	160	< 0.05	< 0.05	0.4	0.343	0.12	0.1	208	< 0.1	14.1
A757705	0.40	1.24	0.3	91.8	240	1.0	13.3	< 0.002	0.15	< 0.05	36.2	< 1	0.4	185	< 0.05	< 0.05	0.4	0.354	0.11	0.1	193	< 0.1	14.1
A757706	0.66	0.99	1.4	127	250	3.5	13.0	< 0.002	0.19	0.19	33.4	< 1	0.5	211	0.08	< 0.05	0.4	0.380	0.09	< 0.1	200	0.4	13.2
A757707	0.44	0.74	1.1	215	190	0.7	7.8	< 0.002	0.08	< 0.05	34.7	< 1	0.2	161	0.06	< 0.05	0.3	0.320	0.05	< 0.1	189	0.5	11.3
A757708	0.64	0.86	1.4	81.4	220	1.4	11.5	< 0.002	0.11	0.17	33.5	< 1	0.5	252	0.09	< 0.05	0.3	0.368	0.07	< 0.1	208	0.6	11.8
A757709	0.61	0.82	1.6	117	440	2.9	17.1	< 0.002	0.08	< 0.05	32.6	< 1	0.4	232	0.08	< 0.05	0.9	0.355	0.13	0.3	200	0.2	13.0
A757710	1.38	0.71	1.3	140	220	0.8	10.7	< 0.002	0.05	< 0.05	36.3	< 1	0.4	131	0.08	< 0.05	0.3	0.371	0.08	< 0.1	213	0.2	12.5
A757711	0.77	0.84	1.5	98.8	250	0.6	18.0	< 0.002	0.08	0.06	34.3	< 1	0.4	136	0.10	< 0.05	0.3	0.391	0.13	< 0.1	219	0.2	12.4
A757712	0.45	0.77	0.2	86.1	270	1.6	24.0	< 0.002	0.31	0.21	38.1	< 1	0.6	156	< 0.05	< 0.05	0.4	0.371	0.16	0.1	212	< 0.1	15.0
A757713	0.77	1.15	1.5	89.2	300	1.3	7.6	< 0.002	0.12	0.12	38.4	< 1	0.4	150	0.08	< 0.05	0.4	0.404	0.05	0.1	221	0.2	15.3

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757714	1.47	1.82	3.1	266	600	2.8	12.3	< 0.002	1.06	0.09	23.6	1	2.4	110	0.20	0.12	1.6	0.298	0.10	0.4	141	0.6	13.2
A757715	2.75	2.05	2.1	119	240	17.3	24.2	0.004	4.51	0.71	29.2	4	9.1	139	0.17	0.49	0.9	0.279	0.23	0.4	160	0.5	11.7
A757716	1.14	1.19	1.7	160	230	28.5	37.9	< 0.002	5.73	0.34	28.5	3	9.0	155	0.13	0.38	0.7	0.294	0.26	0.2	173	0.3	10.6
A757717	3.23	2.22	3.7	136	260	37.4	14.7	0.004	5.65	1.18	17.7	4	7.2	200	0.34	0.35	2.4	0.223	0.19	0.8	98	0.5	11.7
A757718	5.17	2.39	5.3	108	630	25.2	13.2	0.007	4.18	1.17	15.5	2	4.4	343	0.35	0.39	2.7	0.310	0.31	0.9	112	0.5	15.8
A757720	1.12	2.06	2.2	178	320	25.4	47.4	< 0.002	5.01	0.70	36.1	2	6.8	210	0.14	0.20	0.6	0.415	1.55	0.2	222	0.4	15.4
A757721	7.54	1.77	2.9	216	250	77.3	19.2	0.011	6.10	1.97	12.3	4	5.4	136	0.23	0.31	2.3	0.157	0.61	0.9	69	0.5	10.3
A757722	11.0	2.24	4.2	173	300	52.4	13.1	0.015	4.51	2.43	9.7	3	4.4	177	0.38	0.36	3.9	0.147	0.34	1.4	49	0.7	12.6
A757723	11.2	2.07	4.2	192	320	88.8	10.5	0.016	4.49	2.39	10.4	3	5.8	161	0.34	0.44	3.3	0.171	0.32	1.3	55	0.6	12.6
A757724	7.23	1.22	2.8	522	190	106	9.7	0.011	> 10.0	1.70	9.9	10	5.2	97.5	0.20	0.76	2.0	0.118	0.25	0.7	48	0.4	7.8
A757726	0.53	2.21	1.1	177	270	8.1	9.0	< 0.002	2.75	< 0.05	34.1	< 1	0.8	150	0.06	< 0.05	0.4	0.320	0.13	0.1	224	0.2	13.1
A757727	1.43	1.92	2.7	135	1680	4.2	67.0	< 0.002	0.43	< 0.05	28.5	< 1	0.8	617	0.07	< 0.05	1.5	0.312	0.36	1.2	130	0.2	9.6
A757728	0.40	1.66	1.6	120	690	4.1	31.9	< 0.002	0.60	< 0.05	36.5	< 1	0.7	368	< 0.05	< 0.05	1.0	0.366	0.39	0.3	182	0.2	11.9
A757729	0.44	1.45	0.2	107	480	5.9	36.8	< 0.002	1.83	< 0.05	34.3	< 1	1.0	192	< 0.05	< 0.05	0.9	0.345	0.73	0.2	199	< 0.1	13.6
A757730	2.76	1.72	2.1	136	290	12.1	17.7	0.005	3.10	0.30	29.0	2	1.5	134	0.16	0.81	1.2	0.321	0.39	0.4	171	0.5	12.1
A757731	0.51	1.57	1.6	196	240	5.9	14.5	< 0.002	0.90	0.15	39.5	< 1	0.8	102	0.11	0.13	0.4	0.388	0.43	0.1	220	0.3	12.8
A757732	1.35	2.15	1.8	91.1	260	7.5	15.7	< 0.002	3.34	0.09	35.8	1	1.6	224	0.13	0.23	1.0	0.333	0.20	0.3	210	1.1	14.1
A757734	84.9	0.66	1.2	343	240	33.6	3.5	0.008	> 10.0	2.51	3.4	4	1.1	114	0.10	1.38	1.0	0.047	0.21	0.3	39	2.3	4.6
A757735	27.2	1.22	2.4	277	680	8.4	55.5	0.004	3.31	0.59	26.0	1	1.5	459	0.15	0.43	2.0	0.283	1.84	0.5	167	4.1	11.9
A757737	2.04	1.96	4.8	86.0	1370	7.4	52.0	0.002	0.81	0.12	21.7	< 1	0.8	612	0.22	0.09	4.3	0.359	0.89	1.1	162	0.8	15.6
A757738	0.95	2.16	0.6	67.9	610	2.2	16.9	< 0.002	0.31	< 0.05	33.2	< 1	0.6	232	< 0.05	< 0.05	2.4	0.379	0.11	1.4	197	< 0.1	16.1
A757739	0.45	1.84	5.0	92.5	650	3.6	34.3	< 0.002	0.18	0.07	26.9	< 1	0.5	588	< 0.05	< 0.05	2.6	0.352	0.17	0.4	158	< 0.1	9.8
A757740	0.68	1.01	0.7	69.2	290	2.5	0.9	0.002	2.31	< 0.05	37.7	< 1	0.6	69.9	< 0.05	< 0.05	0.5	0.412	0.04	0.1	254	< 0.1	17.0
A757741	0.64	1.05	1.4	69.5	280	1.5	1.0	< 0.002	0.88	< 0.05	41.5	< 1	0.4	69.0	0.06	< 0.05	0.4	0.462	0.05	0.1	277	0.1	17.0
A757742	0.62	0.88	1.3	66.5	250	1.4	0.7	< 0.002	1.30	< 0.05	37.0	< 1	0.4	55.2	0.06	< 0.05	0.3	0.413	0.04	< 0.1	254	0.1	15.9
A757744	1.00	1.17	1.9	71.3	300	2.0	1.3	< 0.002	0.25	0.09	39.5	< 1	0.8	75.6	0.10	0.06	0.3	0.472	0.04	< 0.1	281	0.3	16.5
A757745	0.72	1.14	0.9	79.9	300	3.1	4.1	< 0.002	0.28	< 0.05	45.7	< 1	0.9	85.3	< 0.05	< 0.05	0.3	0.472	0.09	< 0.1	288	0.1	18.2
A757746	0.45	0.93	0.2	64.1	290	5.8	12.6	< 0.002	0.63	0.08	37.1	< 1	1.3	92.5	< 0.05	< 0.05	0.6	0.374	0.35	0.2	223	< 0.1	16.5
A757747	4.28	1.41	3.5	59.3	480	32.5	48.7	0.005	2.25	0.69	9.3	4	6.2	116	0.26	0.70	2.3	0.227	1.54	0.8	60	0.6	10.5
A757748	3.12	1.70	3.4	74.6	600	58.5	59.9	0.006	2.41	1.01	11.1	5	9.4	130	0.26	0.78	2.3	0.253	1.86	0.8	75	0.7	11.9
A757749	3.65	1.44	2.7	67.2	480	47.5	34.8	0.006	2.16	1.05	8.5	5	6.0	112	0.20	0.91	2.1	0.196	1.15	0.7	57	0.4	9.8
A757750	0.82	1.02	2.0	77.4	290	3.2	9.1	< 0.002	0.36	0.20	43.5	< 1	1.0	68.9	0.13	0.14	0.3	0.523	0.21	< 0.1	308	0.5	17.6
A757752	1.53	1.02	2.1	66.3	290	2.7	4.8	0.002	0.44	0.09	30.7	< 1	1.8	54.7	0.13	0.20	0.6	0.404	0.12	0.2	223	0.9	14.1
A757753	0.89	1.06	2.2	72.0	290	1.8	2.1	0.004	0.15	0.07	44.0	< 1	0.6	75.1	0.15	0.06	0.3	0.546	0.05	< 0.1	313	4.0	18.4
A757754	1.03	1.39	2.2	76.8	280	2.1	8.1	< 0.002	0.75	< 0.05	44.4	1	1.2	69.7	0.15	0.26	0.3	0.514	0.18	< 0.1	302	0.4	15.1
A757755	0.27	1.62	< 0.1	86.8	270	2.8	3.8	< 0.002	0.17	< 0.05	47.7	< 1	0.5	87.2	< 0.05	< 0.05	0.3	0.321	0.11	< 0.1	242	< 0.1	16.3
A757756	0.37	1.80	0.1	85.3	260	4.7	5.5	< 0.002	1.04	< 0.05	42.6	< 1	1.3	80.2	< 0.05	< 0.05	0.4	0.379	0.18	0.1	272	< 0.1	14.5
A757757	0.59	1.23	1.4	76.9	280	2.1	3.3	< 0.002	0.27	0.16	41.3	< 1	0.6	104	< 0.05	0.06	0.3	0.495	0.08	< 0.1	293	0.1	17.4
A757759	1.60	1.61	2.7	84.0	320	3.7	4.5	0.002	0.39	0.14	49.8	< 1	1.6	104	0.17	0.10	0.4	0.595	0.12	0.1	342	0.5	18.9
A757760	3.76	0.98	3.7	65.1	290	10.0	6.9	0.006	1.42	0.34	19.4	3	3.7	103	0.27	0.56	2.3	0.280	0.20	0.7	130	0.4	15.0
A757761	2.72	1.28	3.9	52.7	360	15.8	21.3	0.004	2.21	0.32	8.7	2	2.7	105	0.31	0.67	2.6	0.232	0.62	0.8	65	0.6	12.2
A757762	1.64	1.15	2.5	50.8	280	7.0	15.1	< 0.002	0.84	0.22	28.6	< 1	2.0	89.3	0.15	0.21	0.9	0.376	0.37	0.3	198	0.8	13.8

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757764	5.78	1.53	1.8	88.7	330	5.8	23.9	0.002	0.50	< 0.05	38.1	< 1	1.8	144	< 0.05	< 0.05	0.9	0.446	0.66	0.3	251	0.5	16.0
A757766	2.39	0.82	2.6	50.4	390	8.1	37.6	0.004	1.15	0.44	11.8	2	1.7	66.9	0.21	0.57	1.7	0.235	1.05	0.5	86	1.3	9.9
A757767	3.44	1.07	2.2	43.4	340	8.1	29.9	0.004	1.11	0.32	7.4	2	1.7	69.5	0.17	0.52	1.5	0.170	0.82	0.5	48	1.0	7.5
A757768	0.94	1.98	0.5	87.3	290	4.8	28.2	0.003	0.73	< 0.05	38.0	< 1	2.0	146	< 0.05	0.05	0.8	0.396	0.66	0.2	229	< 0.1	15.7
A757769	1.44	2.06	4.1	65.4	520	5.9	43.1	0.002	1.09	0.08	26.5	< 1	2.4	256	0.23	0.16	2.8	0.385	0.86	0.8	190	1.3	18.4
A757770	1.55	2.27	3.9	37.0	1450	8.1	74.6	< 0.002	0.16	0.07	22.6	< 1	1.1	795	0.19	< 0.05	3.3	0.462	0.82	0.7	175	1.4	18.0
A757771	0.78	1.52	1.5	89.3	260	2.3	18.2	< 0.002	0.04	< 0.05	41.2	< 1	0.4	162	0.08	< 0.05	0.3	0.460	0.25	< 0.1	272	0.6	15.5
A757773	0.64	2.26	1.4	53.9	1040	5.1	42.8	< 0.002	0.05	0.06	30.8	< 1	0.8	421	< 0.05	< 0.05	2.3	0.454	0.57	0.5	211	0.2	16.8
A757774	0.10	1.77	< 0.1	88.7	260	2.8	4.7	< 0.002	0.04	< 0.05	40.3	< 1	< 0.2	176	< 0.05	< 0.05	0.4	0.243	0.07	0.1	228	< 0.1	16.0
A757775	0.09	1.66	< 0.1	88.7	220	2.4	5.7	< 0.002	0.04	< 0.05	41.6	< 1	< 0.2	142	< 0.05	< 0.05	0.3	0.227	0.09	< 0.1	174	< 0.1	16.5
A757777	0.39	1.75	0.7	89.3	250	2.0	12.7	< 0.002	0.10	< 0.05	42.4	< 1	< 0.2	114	< 0.05	< 0.05	0.3	0.446	0.21	< 0.1	274	< 0.1	16.4
A757778	0.20	1.58	< 0.1	85.9	240	2.0	11.8	< 0.002	0.15	< 0.05	41.1	< 1	0.5	125	< 0.05	< 0.05	0.3	0.339	0.19	< 0.1	221	< 0.1	15.6
A757779	0.44	2.50	1.4	87.1	260	2.3	1.9	< 0.002	0.15	0.09	40.5	< 1	0.3	140	0.07	< 0.05	0.3	0.485	0.06	< 0.1	293	0.1	15.5
A757780	0.46	1.78	1.1	86.2	250	2.2	4.8	< 0.002	0.12	0.15	41.2	< 1	0.5	128	< 0.05	< 0.05	0.3	0.447	0.09	< 0.1	266	0.1	15.3
A757781	0.58	1.68	1.5	91.0	240	2.3	10.5	< 0.002	0.10	< 0.05	39.3	< 1	0.5	102	0.07	< 0.05	0.3	0.447	0.17	< 0.1	267	0.5	15.0
A757782	1.98	0.91	2.1	63.9	290	11.1	30.2	0.003	0.62	0.17	22.1	1	2.0	80.6	0.11	0.22	1.3	0.313	0.57	0.4	146	1.0	11.7
A757783	2.00	0.44	4.4	46.8	500	16.9	58.6	0.005	1.45	0.61	9.3	3	3.0	83.2	0.29	0.67	2.2	0.287	1.03	0.6	71	1.2	11.8
A757784	3.44	0.77	4.1	49.9	570	28.1	65.8	0.004	1.52	0.89	8.8	3	4.1	85.1	0.29	0.61	2.3	0.270	1.19	0.7	64	1.7	11.1
A757785	2.56	1.45	6.1	42.9	1030	24.8	113	0.003	1.07	0.52	12.9	2	4.5	298	0.44	0.58	4.3	0.397	1.87	1.1	100	4.2	16.0
A757787	3.66	1.65	2.5	62.9	600	11.6	67.6	0.003	1.16	0.21	26.5	< 1	1.7	227	0.12	0.32	1.6	0.404	0.99	0.4	209	3.3	14.0
A757788	1.78	1.03	2.2	57.2	310	5.6	57.8	< 0.002	0.47	0.06	23.0	< 1	1.7	60.3	0.10	0.13	1.1	0.339	0.78	0.3	168	1.6	10.9
A757789	0.11	1.31	< 0.1	85.7	200	1.7	9.1	< 0.002	0.04	< 0.05	38.6	< 1	< 0.2	89.6	< 0.05	< 0.05	0.3	0.266	0.11	< 0.1	223	< 0.1	15.5
A757790	0.17	1.75	0.1	87.9	240	< 0.5	4.2	< 0.002	0.19	< 0.05	41.0	< 1	< 0.2	117	< 0.05	< 0.05	0.3	0.299	0.05	< 0.1	209	< 0.1	16.7
A757791	0.29	1.52	1.4	91.4	260	0.7	9.6	< 0.002	0.82	< 0.05	39.6	< 1	0.4	114	0.07	< 0.05	0.3	0.452	0.11	< 0.1	272	0.3	16.1
A757792	0.37	2.12	0.9	64.8	710	3.0	40.1	< 0.002	0.13	0.07	34.5	< 1	0.7	327	< 0.05	< 0.05	1.7	0.399	0.35	0.4	211	0.1	17.5
A757793	0.52	1.97	1.8	59.8	870	3.4	70.2	< 0.002	0.21	0.09	33.0	< 1	0.8	410	< 0.05	< 0.05	2.2	0.448	0.52	0.5	214	0.6	18.1
A757795	0.22	1.45	1.9	78.6	270	0.8	24.0	< 0.002	0.36	0.08	39.7	< 1	0.5	130	0.12	0.06	0.3	0.489	0.21	< 0.1	291	0.6	16.0
A757796	0.27	2.09	2.1	70.9	280	0.8	4.2	< 0.002	0.20	0.15	41.5	< 1	0.7	94.2	0.13	< 0.05	0.3	0.513	0.03	< 0.1	301	0.2	17.8
A757797	0.26	1.53	0.5	74.4	260	1.2	6.4	< 0.002	0.22	0.14	45.2	< 1	0.5	91.6	< 0.05	< 0.05	0.3	0.448	0.06	< 0.1	275	< 0.1	17.5
A757798	0.06	1.58	< 0.1	80.0	220	1.1	13.5	< 0.002	0.10	< 0.05	44.3	< 1	< 0.2	91.0	< 0.05	< 0.05	0.3	0.226	0.12	< 0.1	191	< 0.1	17.9
A757799	0.09	1.59	< 0.1	74.5	240	1.1	5.5	< 0.002	0.24	< 0.05	42.3	< 1	0.2	79.1	< 0.05	< 0.05	0.3	0.156	0.05	< 0.1	159	< 0.1	18.3
A757800	0.16	1.68	0.3	74.1	260	0.7	2.5	< 0.002	0.26	0.05	41.5	< 1	0.4	78.3	< 0.05	< 0.05	0.3	0.323	0.03	< 0.1	215	< 0.1	16.8
A757801	0.33	1.73	1.5	71.0	270	0.7	1.0	< 0.002	0.25	0.09	42.0	< 1	0.4	84.8	0.05	< 0.05	0.3	0.478	< 0.02	< 0.1	284	< 0.1	17.3
A757802	0.38	1.72	2.1	76.5	270	0.9	1.7	< 0.002	0.53	0.16	42.4	1	1.3	96.0	0.14	0.08	0.3	0.505	0.03	< 0.1	297	0.3	17.8
A757804	0.29	1.91	2.2	82.1	280	0.6	3.3	< 0.002	0.38	0.14	45.5	< 1	0.6	91.6	0.14	0.06	0.3	0.515	0.03	< 0.1	305	0.3	18.9
A757805	0.40	1.71	2.1	84.0	270	0.7	4.2	< 0.002	0.16	0.08	45.5	< 1	0.4	99.2	0.13	< 0.05	0.3	0.503	0.03	< 0.1	296	0.3	19.1
A757806	0.39	1.63	2.0	75.5	260	1.7	3.6	< 0.002	1.11	< 0.05	43.7	< 1	2.5	100	0.11	0.07	0.3	0.481	0.04	0.2	284	0.3	17.5
A757807	0.28	1.55	0.6	78.3	220	2.1	3.7	< 0.002	1.86	< 0.05	41.2	1	3.8	108	< 0.05	< 0.05	0.3	0.467	0.12	0.1	285	0.1	17.2
A757808	0.09	1.67	< 0.1	74.8	210	1.2	4.0	< 0.002	0.69	< 0.05	41.9	< 1	5.3	99.8	< 0.05	< 0.05	0.3	0.327	0.05	< 0.1	252	< 0.1	17.2
A757810	0.20	0.66	0.1	69.7	210	2.1	5.6	0.002	0.47	< 0.05	40.6	< 1	0.8	95.9	< 0.05	< 0.05	0.3	0.344	0.06	< 0.1	233	< 0.1	16.1
A757811	0.07	0.16	< 0.1	32.6	450	0.5	14.2	0.003	0.11	< 0.05	34.4	< 1	< 0.2	41.2	< 0.05	< 0.05	0.4	0.240	0.13	0.1	193	< 0.1	28.3
A757812	0.11	0.11	0.2	42.1	540	0.9	25.1	0.002	0.15	< 0.05	36.3	< 1	< 0.2	53.9	< 0.05	< 0.05	0.7	0.317	0.23	0.2	216	< 0.1	27.6

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757813	0.14	0.09	0.4	36.9	460	0.6	12.9	< 0.002	0.13	< 0.05	30.9	< 1	< 0.2	59.1	< 0.05	< 0.05	0.7	0.415	0.12	0.2	211	< 0.1	27.0
A757814	0.09	0.09	0.2	35.1	510	< 0.5	16.9	0.002	0.10	< 0.05	35.9	< 1	< 0.2	44.4	< 0.05	< 0.05	0.5	0.354	0.14	0.1	229	< 0.1	28.2
A757816	< 0.05	0.08	0.1	35.4	620	0.7	18.6	< 0.002	0.09	< 0.05	38.3	< 1	< 0.2	68.6	< 0.05	< 0.05	0.5	0.271	0.16	0.1	175	< 0.1	30.3
A757817	0.24	0.13	< 0.1	52.3	500	1.4	29.5	0.003	0.49	< 0.05	37.5	< 1	0.5	59.2	< 0.05	< 0.05	0.5	0.328	0.23	0.1	203	< 0.1	29.8
A757818	0.49	0.20	0.5	60.8	310	1.1	24.7	< 0.002	0.94	0.05	33.2	< 1	0.6	63.6	< 0.05	< 0.05	0.4	0.416	0.20	< 0.1	233	< 0.1	22.5
A757819	0.33	0.46	0.1	58.2	340	0.7	21.5	< 0.002	0.41	< 0.05	36.7	< 1	0.5	63.2	< 0.05	< 0.05	0.3	0.452	0.17	< 0.1	228	< 0.1	25.5
A757820	0.32	2.23	0.5	70.0	350	1.4	6.3	0.002	0.73	< 0.05	41.3	< 1	0.5	102	< 0.05	< 0.05	0.4	0.472	0.06	0.1	260	< 0.1	26.7
A757821	0.13	2.63	0.3	73.9	410	1.3	6.6	< 0.002	0.14	< 0.05	43.5	< 1	0.3	117	< 0.05	< 0.05	0.4	0.322	0.05	0.1	170	< 0.1	25.0
A757822	0.43	1.90	1.1	56.1	310	0.9	2.7	< 0.002	0.41	< 0.05	32.6	< 1	0.5	103	< 0.05	< 0.05	0.3	0.491	0.03	< 0.1	248	0.1	20.9
A757824	0.53	1.18	0.8	53.4	280	0.8	4.3	0.002	0.72	< 0.05	31.4	< 1	0.4	80.8	< 0.05	< 0.05	0.3	0.404	0.04	< 0.1	220	0.1	23.2
A757825	0.32	1.95	< 0.1	67.5	340	1.3	1.7	0.002	0.35	< 0.05	40.0	< 1	0.4	112	< 0.05	< 0.05	0.4	0.364	0.02	< 0.1	189	< 0.1	27.1
A757826	0.18	1.92	< 0.1	61.8	310	1.0	2.4	< 0.002	0.26	< 0.05	35.9	< 1	< 0.2	115	< 0.05	< 0.05	0.4	0.288	0.03	< 0.1	194	< 0.1	24.6
A757827	0.21	2.06	< 0.1	81.4	520	2.1	13.8	< 0.002	0.23	< 0.05	37.6	< 1	0.2	217	< 0.05	< 0.05	1.0	0.260	0.20	0.3	160	< 0.1	23.6
A757828	0.68	1.06	1.1	440	240	1.8	37.2	< 0.002	0.24	< 0.05	23.9	< 1	0.4	144	0.07	0.12	0.8	0.276	0.28	0.2	158	4.0	10.0
A757829	0.83	0.55	0.5	51.1	240	7.6	65.9	0.003	0.78	< 0.05	29.7	< 1	0.5	256	< 0.05	< 0.05	0.3	0.367	0.44	< 0.1	239	0.2	21.6
A757831	1.07	0.51	2.1	53.3	220	3.5	67.2	0.002	0.79	0.08	30.3	< 1	0.7	119	0.09	0.24	0.3	0.476	0.43	< 0.1	264	3.0	17.7
A757832	0.73	0.53	2.2	60.3	350	2.9	67.0	< 0.002	0.76	< 0.05	34.1	< 1	0.7	116	0.10	0.14	0.3	0.587	0.44	< 0.1	323	2.7	22.0
A757833	0.35	0.82	0.7	60.5	270	1.6	51.2	< 0.002	0.30	< 0.05	32.8	< 1	0.4	135	< 0.05	< 0.05	0.3	0.502	0.37	< 0.1	232	0.4	20.6
A757834	0.43	1.85	2.8	70.1	390	1.3	40.2	< 0.002	0.47	< 0.05	40.0	< 1	0.7	104	0.13	< 0.05	0.4	0.675	0.31	0.1	287	1.3	24.0
A757836	< 0.05	1.70	< 0.1	69.3	340	1.4	42.3	< 0.002	0.27	< 0.05	41.9	< 1	< 0.2	105	< 0.05	< 0.05	0.4	0.187	0.32	0.1	171	< 0.1	26.4
A757838	0.84	0.86	0.3	61.1	420	1.9	67.8	0.002	0.58	< 0.05	38.6	< 1	0.6	100	< 0.05	< 0.05	0.4	0.451	0.47	0.1	232	0.1	25.7
A757839	0.60	0.64	1.9	48.2	300	4.3	55.3	< 0.002	0.46	< 0.05	32.1	< 1	0.7	115	< 0.05	0.13	0.3	0.496	0.39	< 0.1	269	2.2	21.3
A757840	0.93	1.00	2.2	46.0	270	4.0	46.3	< 0.002	0.42	< 0.05	29.9	< 1	0.7	172	0.13	0.13	0.4	0.484	0.37	< 0.1	241	2.9	18.8
A757841	0.48	1.76	5.6	93.1	1470	9.0	96.2	< 0.002	0.22	< 0.05	22.7	< 1	1.1	932	0.27	< 0.05	3.7	0.394	0.88	0.9	175	0.7	17.7
A757842	0.60	1.39	1.6	64.9	430	4.6	66.8	0.002	0.80	< 0.05	36.6	< 1	1.0	130	0.05	< 0.05	0.6	0.567	0.56	0.2	265	0.8	25.5
A757843	0.33	0.71	0.7	55.7	460	4.0	52.1	< 0.002	0.99	< 0.05	35.7	< 1	0.9	136	< 0.05	< 0.05	0.4	0.557	0.43	< 0.1	279	0.6	27.0
A757845	1.21	0.38	2.0	52.2	600	7.0	76.3	0.003	1.27	< 0.05	28.3	1	2.8	120	< 0.05	< 0.05	1.1	0.520	0.72	0.3	284	1.5	20.0
A757846	4.73	0.33	4.1	62.2	590	17.5	95.3	0.005	1.85	0.49	15.0	3	9.9	72.8	0.33	0.68	2.1	0.322	0.95	0.6	175	2.6	12.7
A757847	3.23	0.28	3.7	42.1	670	15.4	88.8	0.003	1.34	0.60	10.8	2	5.2	83.4	0.32	0.36	2.1	0.290	1.00	0.5	176	2.7	11.4
A757849	2.51	0.26	3.5	39.2	490	11.9	74.3	0.004	1.45	0.41	9.5	2	4.6	61.4	0.29	0.39	2.2	0.247	0.80	0.6	184	3.3	10.5
A757850	1.44	0.18	2.8	79.6	350	5.1	86.7	0.003	0.82	0.17	29.6	2	1.8	122	0.18	0.29	1.0	0.391	0.85	0.3	219	6.9	14.1
A757851	2.44	0.33	3.5	71.5	510	5.1	80.2	0.003	0.67	0.14	25.4	1	1.7	177	0.24	0.28	2.0	0.374	0.78	0.6	186	5.8	15.2
A757852	1.25	2.43	4.2	84.7	610	7.1	62.1	< 0.002	1.12	< 0.05	28.1	2	2.1	390	0.27	0.30	3.1	0.461	0.38	0.9	168	0.9	21.3
A757853	0.20	2.10	< 0.1	65.9	890	5.8	43.0	< 0.002	0.23	< 0.05	33.6	< 1	0.7	528	< 0.05	0.07	2.2	0.237	0.27	0.7	164	< 0.1	20.7
A757854	0.17	1.97	< 0.1	62.8	270	3.6	31.9	< 0.002	1.00	< 0.05	33.2	< 1	0.6	230	< 0.05	< 0.05	0.4	0.319	0.28	< 0.1	269	< 0.1	17.7
A757855	0.17	1.96	< 0.1	62.1	220	3.6	14.1	< 0.002	0.61	< 0.05	35.1	< 1	0.6	280	< 0.05	< 0.05	0.3	0.386	0.11	< 0.1	258	< 0.1	19.2
A757856	0.37	1.79	1.4	83.1	360	0.6	8.6	< 0.002	0.14	< 0.05	41.5	< 1	0.3	103	< 0.05	< 0.05	0.4	0.557	0.06	< 0.1	291	< 0.1	23.9
A757857	0.34	1.73	0.8	107	360	0.8	32.2	< 0.002	0.18	< 0.05	37.0	< 1	0.5	125	< 0.05	< 0.05	0.5	0.490	0.20	0.1	251	0.5	19.8
A757859	0.08	1.66	< 0.1	112	190	1.0	39.2	< 0.002	0.05	< 0.05	38.2	< 1	< 0.2	117	< 0.05	< 0.05	0.2	0.260	0.26	< 0.1	184	< 0.1	14.3
A757860	1.14	0.70	0.7	206	200	5.3	71.8	< 0.002	0.22	< 0.05	25.1	< 1	0.3	149	< 0.05	0.07	< 0.2	0.295	0.48	< 0.1	172	3.1	10.5
A757861	0.46	0.89	0.1	119	200	1.7	57.5	< 0.002	0.22	< 0.05	34.3	< 1	0.3	124	< 0.05	0.08	0.2	0.299	0.38	< 0.1	201	0.3	13.0
A757862	0.27	0.95	1.2	113	190	0.8	52.7	< 0.002	0.05	< 0.05	38.0	< 1	0.3	105	0.06	< 0.05	< 0.2	0.354	0.37	< 0.1	215	4.3	12.7

Results

Activation Laboratories Ltd.

Report: A19-00223

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
A757863	0.97	0.64	1.0	243	150	0.6	61.1	< 0.002	0.04	< 0.05	17.5	< 1	0.3	106	0.06	0.05	< 0.2	0.236	0.41	< 0.1	136	5.4	7.9
A757864	0.06	1.80	< 0.1	123	170	1.1	25.3	< 0.002	0.02	< 0.05	41.3	< 1	< 0.2	119	< 0.05	< 0.05	< 0.2	0.212	0.16	< 0.1	183	< 0.1	13.4

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757468	2.8	74	15.0
A757469	3.1	83	14.2
A757470	2.8	89	11.5
A757471	2.6	89	21.6
A757472	2.7	93	24.4
A757473	2.7	91	28.6
A757475	2.8	84	26.4
A757477	3.0	82	36.5
A757478	2.6	83	14.3
A757479	2.7	84	23.1
A757480	2.7	119	27.7
A757481	2.3	92	18.2
A757482	2.5	109	24.5
A757483	2.7	105	14.7
A757484	2.5	93	29.0
A757485	2.5	96	7.5
A757487	2.6	102	31.2
A757488	2.7	115	20.7
A757489	2.8	111	33.5
A757491	2.6	115	33.4
A757492	2.6	113	19.2
A757493	2.8	111	26.4
A757494	3.1	91	19.5
A757495	2.8	75	21.5
A757496	2.8	86	27.5
A757497	2.8	103	39.0
A757498	1.7	76	109
A757499	3.0	87	38.4
A757501	1.9	76	25.4
A757502	1.2	72	13.9
A757503	2.0	140	129
A757504	2.0	91	129
A757506	1.5	83	94.5
A757507	0.6	110	115
A757508	1.2	96	115
A757509	1.6	93	75.4
A757510	1.8	88	104
A757511	2.0	88	134
A757513	1.9	82	121
A757515	1.8	86	98.7
A757516	1.4	83	98.6
A757517	1.4	84	104

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757518	1.3	100	95.8
A757519	1.5	83	147
A757520	1.4	82	116
A757521	1.5	81	120
A757523	1.8	82	127
A757524	1.7	74	103
A757525	1.6	72	99.8
A757526	1.6	62	97.9
A757527	1.9	296	124
A757528	1.2	544	36.2
A757529	1.3	77	23.4
A757530	1.2	66	26.5
A757531	1.3	69	49.7
A757533	1.5	82	122
A757534	1.4	86	108
A757535	1.4	79	25.3
A757536	1.1	66	20.2
A757538	1.6	82	74.4
A757539	1.4	71	41.2
A757540	1.4	120	27.4
A757541	1.0	69	14.1
A757542	1.4	107	20.5
A757543	1.3	76	21.3
A757544	1.3	87	19.0
A757546	1.4	88	56.6
A757548	1.3	85	85.2
A757549	1.4	80	18.7
A757550	1.4	89	23.0
A757551	1.5	72	18.8
A757552	1.9	84	25.7
A757553	2.0	92	24.8
A757554	2.0	90	29.0
A757556	1.3	156	17.4
A757557	1.6	80	28.2
A757558	2.0	79	33.0
A757559	2.5	79	26.1
A757560	3.1	86	36.4
A757561	2.7	79	30.6
A757563	2.6	80	29.3
A757564	2.7	90	5.8
A757565	2.7	101	28.3
A757566	2.7	85	29.7

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757567	2.7	88	39.3
A757568	2.8	89	45.0
A757569	2.2	75	42.0
A757571	1.8	68	75.3
A757572	2.8	94	26.0
A757573	2.9	100	22.6
A757574	3.0	96	34.5
A757575	2.4	77	40.5
A757576	2.7	92	54.5
A757578	2.9	100	35.5
A757579	3.2	106	46.9
A757580	3.1	129	36.4
A757581	3.0	99	19.1
A757583	2.9	92	32.3
A757585	2.7	84	26.6
A757586	2.8	82	23.5
A757587	2.9	84	26.3
A757588	2.7	85	27.8
A757589	2.9	70	31.4
A757590	3.1	86	10.4
A757592	3.0	85	11.3
A757593	3.1	79	20.4
A757594	2.3	75	23.1
A757596	3.1	78	37.2
A757597	2.8	59	31.8
A757598	3.2	74	51.3
A757599	2.9	78	12.3
A757600	2.9	71	12.3
A757601	2.5	81	39.8
A757602	2.5	86	43.7
A757603	2.5	87	39.3
A757604	1.7	82	102
A757606	1.1	170	94.8
A757607	0.7	53	36.1
A757608	0.7	103	45.3
A757609	1.6	80	82.6
A757610	2.7	101	35.3
A757611	2.8	81	35.9
A757612	2.7	93	38.6
A757614	2.9	79	48.1
A757615	2.6	77	18.9
A757616	3.2	87	18.0

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757617	2.9	86	32.0
A757618	2.7	76	32.2
A757619	2.9	88	34.4
A757620	2.2	87	62.8
A757621	2.0	81	118
A757623	0.4	20	81.9
A757624	0.7	30	44.3
A757625	1.0	45	101
A757626	1.4	59	153
A757627	1.2	58	154
A757629	1.1	202	164
A757630	2.0	112	87.4
A757631	1.6	103	67.5
A757632	1.8	92	70.3
A757633	1.2	107	99.3
A757635	1.5	102	98.3
A757636	0.7	72	137
A757637	0.6	100	134
A757639	1.1	89	84.7
A757640	0.9	126	21.3
A757641	1.4	85	95.6
A757642	1.6	85	142
A757643	1.8	115	110
A757644	1.9	98	105
A757645	1.3	368	95.7
A757646	1.2	89	90.2
A757648	0.7	56	43.6
A757649	1.3	156	131
A757650	1.0	60	110
A757652	1.3	72	56.7
A757653	0.9	51	14.6
A757654	1.2	79	28.1
A757656	1.5	69	45.7
A757657	1.6	75	46.2
A757658	1.5	78	23.6
A757660	1.6	79	19.4
A757661	1.5	71	28.6
A757662	1.6	64	38.7
A757663	1.5	147	42.0
A757664	1.8	180	73.7
A757665	1.6	208	48.5
A757666	1.6	1490	58.9

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757667	1.6	425	34.3
A757668	1.7	303	64.4
A757669	1.4	187	40.9
A757671	1.5	288	39.6
A757672	1.8	1480	76.6
A757673	1.8	98	53.2
A757674	1.7	84	49.9
A757675	1.1	608	52.9
A757676	1.6	1440	72.3
A757677	1.2	436	58.3
A757678	0.6	226	63.3
A757680	0.9	339	33.8
A757681	1.1	136	26.1
A757682	1.1	392	70.9
A757684	1.4	951	69.4
A757685	1.6	215	50.7
A757686	1.6	106	40.4
A757687	1.8	98	46.1
A757688	1.7	78	72.2
A757689	1.3	79	32.8
A757690	1.3	103	47.1
A757691	2.1	100	106
A757692	2.1	98	104
A757693	2.0	91	99.0
A757694	1.3	71	12.4
A757695	1.3	81	18.3
A757697	1.4	80	24.9
A757698	1.3	66	19.3
A757699	1.5	77	18.7
A757701	1.3	72	12.6
A757702	1.4	76	12.9
A757703	1.4	70	11.3
A757704	1.6	80	18.1
A757705	1.5	77	18.8
A757706	1.5	71	23.0
A757707	1.3	69	23.2
A757708	1.3	69	21.3
A757709	1.4	73	27.1
A757710	1.4	74	13.9
A757711	1.5	76	13.1
A757712	1.6	84	16.8
A757713	1.6	77	23.9

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757714	1.3	520	80.5
A757715	1.4	2070	49.3
A757716	1.2	555	38.3
A757717	1.3	1650	108
A757718	1.8	2050	112
A757720	1.7	223	38.4
A757721	1.3	3770	60.9
A757722	1.4	3670	101
A757723	1.5	4120	99.4
A757724	0.8	1640	65.1
A757726	1.5	125	42.2
A757727	0.9	124	52.2
A757728	1.3	103	43.4
A757729	1.5	189	41.3
A757730	1.4	366	46.0
A757731	1.5	141	34.2
A757732	1.6	203	46.3
A757734	0.4	367	38.3
A757735	1.4	383	54.5
A757737	1.9	81	99.7
A757738	1.9	87	38.7
A757739	1.2	69	56.8
A757740	2.1	126	39.1
A757741	2.0	118	28.8
A757742	2.0	134	30.6
A757744	2.1	136	32.0
A757745	2.2	130	38.1
A757746	2.0	258	36.1
A757747	1.2	3500	129
A757748	1.2	2560	139
A757749	1.0	3080	117
A757750	2.1	170	35.3
A757752	1.6	494	47.8
A757753	2.2	120	32.7
A757754	1.9	647	38.8
A757755	2.1	182	27.4
A757756	1.9	695	38.0
A757757	2.0	155	29.6
A757759	2.3	250	47.5
A757760	1.8	1410	92.0
A757761	1.3	1610	120
A757762	1.7	475	53.8

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757764	2.0	363	54.8
A757766	1.1	467	75.7
A757767	0.8	308	75.0
A757768	1.9	327	52.1
A757769	2.1	1150	112
A757770	1.8	135	112
A757771	1.8	177	28.5
A757773	1.8	136	79.4
A757774	1.8	183	36.5
A757775	1.9	192	23.4
A757777	1.9	155	31.0
A757778	1.8	163	23.4
A757779	1.8	98	23.9
A757780	1.8	95	24.9
A757781	1.7	115	30.1
A757782	1.4	797	67.9
A757783	1.3	1560	107
A757784	1.1	1550	120
A757785	1.5	1360	193
A757787	1.5	846	87.4
A757788	1.2	377	71.5
A757789	1.8	110	27.6
A757790	1.9	82	16.9
A757791	1.8	75	23.1
A757792	1.9	80	53.9
A757793	1.9	79	81.8
A757795	1.8	80	26.6
A757796	2.0	132	30.3
A757797	2.1	118	25.8
A757798	2.1	201	22.1
A757799	2.1	87	11.4
A757800	2.0	85	21.7
A757801	1.9	87	29.0
A757802	2.1	96	28.9
A757804	2.2	89	35.6
A757805	2.2	86	35.9
A757806	2.0	207	27.9
A757807	2.0	241	22.6
A757808	2.1	203	25.9
A757810	2.0	126	16.4
A757811	3.2	148	23.7
A757812	3.3	169	37.0

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757813	3.1	115	41.1
A757814	3.2	130	37.0
A757816	3.4	148	20.5
A757817	3.4	214	30.5
A757818	2.7	299	58.7
A757819	3.0	121	43.6
A757820	3.3	108	54.7
A757821	3.0	95	32.0
A757822	2.5	90	41.3
A757824	2.8	98	35.4
A757825	3.3	98	32.7
A757826	2.9	93	26.0
A757827	2.9	94	23.6
A757828	1.1	86	35.4
A757829	2.5	112	20.7
A757831	2.2	78	20.3
A757832	2.6	96	25.8
A757833	2.5	99	34.2
A757834	2.9	155	62.4
A757836	3.2	142	28.7
A757838	2.9	122	35.2
A757839	2.5	93	24.6
A757840	2.3	82	24.0
A757841	1.9	198	100
A757842	3.0	330	44.7
A757843	3.1	139	31.2
A757845	2.4	1210	63.5
A757846	1.4	3120	111
A757847	1.2	1640	110
A757849	1.1	1940	104
A757850	1.6	448	61.8
A757851	1.7	370	84.0
A757852	2.4	228	151
A757853	2.2	98	39.5
A757854	2.1	110	35.4
A757855	2.2	121	33.4
A757856	2.7	88	47.6
A757857	2.2	88	40.3
A757859	1.7	60	25.5
A757860	1.2	54	21.2
A757861	1.6	50	21.5
A757862	1.5	58	22.5

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757863	0.9	55	17.2
A757864	1.6	63	21.0

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
GXR-4 Meas	3.48	5.69	106	90	2.03	20.6	1.03	0.20	104	13.9	45	2.66	6310	3.02	18.1		1.3	0.199	4.04	56.0	12.2	1.71	148
GXR-4 Cert	4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	102	14.6	64.0	2.80	6520	3.09	20.0		6.30	0.270	4.01	64.5	11.1	1.66	155
GXR-4 Meas	3.92	5.49	102	70	2.04	19.0	1.03	0.29	112	15.5	41	2.65	6900	2.87	18.1		1.2	0.223	3.82	58.1	12.7	1.64	143
GXR-4 Cert	4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	102	14.6	64.0	2.80	6520	3.09	20.0		6.30	0.270	4.01	64.5	11.1	1.66	155
GXR-4 Meas	3.62	6.46	96.1	200	1.97	18.8	1.04	0.25	117	14.6	80	2.61	6390	3.03	16.7		1.1	0.204	3.76	57.9	11.3	1.71	153
GXR-4 Cert	4.00	7.20	98.0	1640	1.90	19.0	1.01	0.860	102	14.6	64.0	2.80	6520	3.09	20.0		6.30	0.270	4.01	64.5	11.1	1.66	155
SDC-1 Meas		7.22	< 0.2	630	2.77		1.03		86.3	17.1	39	3.85	30.0	4.60	22.0		0.8		2.24	41.7	33.4	0.98	831
SDC-1 Cert		8.34	0.220	630	3.00		1.00		93.00	18.0	64.00	4.00	30.000	4.82	21.00		8.30		2.72	42.00	34.0	1.02	880.00
SDC-1 Meas		6.97	< 0.2	630	3.11		1.07		87.9	18.0	40	4.00	30.2	4.61	20.4		1.0		2.64	42.0	34.4	0.99	834
SDC-1 Cert		8.34	0.220	630	3.00		1.00		93.00	18.0	64.00	4.00	30.000	4.82	21.00		8.30		2.72	42.00	34.0	1.02	880.00
SDC-1 Meas		7.09	< 0.2	640	2.68		1.06		81.8	17.4	41	3.71	25.7	4.76	15.5		0.7		2.00	37.9	34.1	1.00	851
SDC-1 Cert		8.34	0.220	630	3.00		1.00		93.00	18.0	64.00	4.00	30.000	4.82	21.00		8.30		2.72	42.00	34.0	1.02	880.00
GXR-6 Meas	0.31		268		1.11	0.19		0.13	34.8	13.5		4.27	69.7		24.5		2.3	0.071		13.2	33.0		
GXR-6 Cert	1.30		330		1.40	0.290		1.00	36.0	13.8		4.20	66.0		35.0		4.30	0.260		13.9	32.0		
GXR-6 Meas	0.36		311		1.14	0.19		0.06	34.4	15.0		4.32	66.7		16.6		2.6	0.069		13.1	37.5		
GXR-6 Cert	1.30		330		1.40	0.290		1.00	36.0	13.8		4.20	66.0		35.0		4.30	0.260		13.9	32.0		
GXR-6 Meas	0.34		275		1.05	0.18		0.05	33.4	14.2		4.14	61.4		16.9		2.4	0.063		12.7	36.0		
GXR-6 Cert	1.30		330		1.40	0.290		1.00	36.0	13.8		4.20	66.0		35.0		4.30	0.260		13.9	32.0		
OREAS 97 (4 Acid) Meas	20.4					42.1						65.1		> 10000									
OREAS 97 (4 Acid) Cert	19.6					40.1						62.9		63100.00									
OREAS 97 (4 Acid) Meas	19.3					41.4						63.0		> 10000									
OREAS 97 (4 Acid) Cert	19.6					40.1						62.9		63100.00									
OREAS 97 (4 Acid) Meas	20.2					40.2						64.8		> 10000									
OREAS 97 (4 Acid) Cert	19.6					40.1						62.9		63100.00									
OREAS 98 (4 Acid) Meas	48.8					101						131		> 10000									
OREAS 98 (4 Acid) Cert	45.1					97.2						121		14800.00									
OREAS 98 (4 Acid) Meas	48.1					102						131		> 10000									
OREAS 98 (4 Acid) Cert	45.1					97.2						121		14800.00									
OREAS 98 (4 Acid) Meas	44.8					95.5						115		> 10000									
OREAS 98 (4 Acid) Cert	45.1					97.2						121		14800.00									
DNC-1a Meas				100			7.73			55.0	123		92.9	7.10	12.5					3.6	4.6		
DNC-1a Cert				118			8.21			57	270		100	6.97	15					3.6	5.2		
DNC-1a Meas				100			7.87			59.3	122		86.0	7.16	12.7					3.6	4.5		

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
DNC-1a Cert				118			8.21			57	270		100	6.97	15					3.6	5.2		
DNC-1a Meas				100			7.71			57.7	109		88.5	7.33	12.1					3.6	4.5		
DNC-1a Cert				118			8.21			57	270		100	6.97	15					3.6	5.2		
SBC-1 Meas			21.0	540	3.04	0.68		0.33	102	21.1	96	8.13	30.7		24.6		3.0			51.6	155		
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	108.0	22.7	109	8.2	31.0		27.0		3.7			52.5	163		
SBC-1 Meas			21.1	720	2.73	0.67		0.34	106	23.3	92	8.28	27.2		22.4		3.3			50.5	163		
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	108.0	22.7	109	8.2	31.0		27.0		3.7			52.5	163		
SBC-1 Meas			23.4	560	2.77	0.68		0.28	116	23.6	63	8.40	28.8		20.9		3.4			52.2	168		
SBC-1 Cert			25.7	788.0	3.20	0.70		0.40	108.0	22.7	109	8.2	31.0		27.0		3.7			52.5	163		
OREAS 45d (4-Acid) Meas		6.98	10.5	180	0.67	0.32	0.18		34.1	29.0	506	3.74	363	13.9	20.3		3.4	0.077	0.40	17.0	20.9	0.24	485
OREAS 45d (4-Acid) Cert		8.150	13.8	183.0	0.79	0.31	0.185		37.20	29.50	549	3.910	371	14.5	21.20		3.830	0.096	0.412	16.9	21.5	0.245	490.000
OREAS 45d (4-Acid) Meas		7.01	9.2	180	0.75	0.33	0.19		36.0	29.5	436	3.79	357	13.7	19.8		2.7	0.083	0.39	17.3	22.3	0.24	470
OREAS 45d (4-Acid) Cert		8.150	13.8	183.0	0.79	0.31	0.185		37.20	29.50	549	3.910	371	14.5	21.20		3.830	0.096	0.412	16.9	21.5	0.245	490.000
OREAS 45d (4-Acid) Meas		7.17		180			0.18				521			14.4				0.39				0.25	513
OREAS 45d (4-Acid) Cert		8.150		183.0			0.185				549			14.5					0.412			0.245	490.000
OREAS 96 (4 Acid) Meas	11.5					28.6				48.9			> 10000										
OREAS 96 (4 Acid) Cert	11.5					26.3				49.9			39300										
OREAS 96 (4 Acid) Meas	12.2					28.9				55.2			> 10000										
OREAS 96 (4 Acid) Cert	11.5					26.3				49.9			39300										
OREAS 96 (4 Acid) Meas	11.8					28.0				51.5			> 10000										
OREAS 96 (4 Acid) Cert	11.5					26.3				49.9			39300										
OREAS 923 (4 Acid) Meas		6.51		430			0.48				66			6.46					2.46			1.71	965
OREAS 923 (4 Acid) Cert		7.29		434			0.473				71.0			6.43					2.51			1.69	950
OREAS 923 (4 Acid) Meas		6.55		430			0.48				70			6.43					2.48			1.71	968
OREAS 923 (4 Acid) Cert		7.29		434			0.473				71.0			6.43					2.51			1.69	950
OREAS 923 (4 Acid) Meas		6.34		430			0.47				69			6.53					2.43			1.69	957
OREAS 923 (4 Acid) Cert		7.29		434			0.473				71.0			6.43					2.51			1.69	950
OREAS 621 (4	65.5	5.79	71.4		1.86	3.99	2.10	271	42.7	28.3	25	3.27	3710	3.62	24.4		4.4	1.58	2.15	18.6	12.9	0.52	481

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
Acid) Meas																							
OREAS 621 (4 Acid) Cert	69.0	6.40	77.0		1.69	3.93	1.97	284	46.6	29.3	37.1	3.28	3630	3.70	24.6		4.41	1.83	2.20	21.6	14.2	0.507	532
OREAS 621 (4 Acid) Meas	66.1	5.80	59.0		1.94	4.09	2.11	276	42.7	29.1	30	3.19	3750	3.66	24.5		4.5	1.60	2.18	18.2	13.6	0.52	507
OREAS 621 (4 Acid) Cert	69.0	6.40	77.0		1.69	3.93	1.97	284	46.6	29.3	37.1	3.28	3630	3.70	24.6		4.41	1.83	2.20	21.6	14.2	0.507	532
OREAS 621 (4 Acid) Meas	69.9	5.76	67.1		1.52	4.04	2.05	269	47.4	30.4	29	3.28	3770	3.67	23.4		4.5	1.76	2.04	20.9	13.3	0.52	498
OREAS 621 (4 Acid) Cert	69.0	6.40	77.0		1.69	3.93	1.97	284	46.6	29.3	37.1	3.28	3630	3.70	24.6		4.41	1.83	2.20	21.6	14.2	0.507	532
OREAS 520 (4 Acid) Meas	0.46	4.91	137		1.27	3.15	4.03		76.9	201	34	0.75	2960	15.7	17.5		3.7	0.100	3.39	74.9	16.6	1.19	2190
OREAS 520 (4 Acid) Cert	0.450	5.63	153		1.06	2.94	4.10		86.0	203	36.4	0.800	2930	16.4	18.7		3.53	0.110	3.46	85.0	16.9	1.19	2420
OREAS 520 (4 Acid) Meas	0.48	4.91	147		1.14	3.17	4.06		80.1	212	34	0.78	3050	15.5	17.9		3.8	0.105	3.34	81.9	16.8	1.18	2220
OREAS 520 (4 Acid) Cert	0.450	5.63	153		1.06	2.94	4.10		86.0	203	36.4	0.800	2930	16.4	18.7		3.53	0.110	3.46	85.0	16.9	1.19	2420
OREAS 520 (4 Acid) Meas	0.48	5.07	132		0.87	3.06	4.20		74.0	201	34	0.79	2740	14.8	16.2		3.6	0.112	3.28	67.1	14.6	1.23	2320
OREAS 520 (4 Acid) Cert	0.450	5.63	153		1.06	2.94	4.10		86.0	203	36.4	0.800	2930	16.4	18.7		3.53	0.110	3.46	85.0	16.9	1.19	2420
A757483 Orig	0.04	7.00	< 0.2	50	0.30	< 0.01	5.83	0.04	10.1	46.7	79	0.36	118	8.97	14.0	0.22	0.6	0.060	0.17	3.7	18.1	4.19	1540
A757483 Dup	0.05	6.76	< 0.2	50	0.35	0.01	5.78	0.04	11.8	53.6	82	0.43	135	8.72	16.2	0.14	0.4	0.083	0.16	4.3	20.6	4.10	1570
A757495 Orig	0.06	6.66	0.7	80	0.52	0.09	8.68	0.05	11.1	37.6	153	1.41	74.2	8.95	13.1	0.27	0.5	0.071	0.48	4.4	22.8	3.09	2040
A757495 Dup	0.06	6.61	< 0.2	80	0.51	0.09	8.56	0.07	11.4	39.6	105	1.53	75.9	8.62	13.7	0.22	1.2	0.061	0.48	4.5	24.1	3.04	2050
A757508 Orig	0.29	7.16	2.6	660	1.49	0.14	3.74	0.07	69.1	28.0	114	3.32	44.4	5.49	13.5	< 0.05	2.9	0.058	1.75	31.7	37.8	3.00	846
A757508 Dup	0.29	6.95	2.2	640	1.41	0.14	3.67	0.06	69.4	27.9	113	3.38	44.8	5.31	13.3	< 0.05	3.0	0.053	1.69	32.0	37.6	2.91	823
A757524 Orig	0.10	7.03	1.5	880	1.74	0.10	3.28	0.08	60.9	24.6	98	0.91	48.8	5.13	6.72	< 0.05	2.8	0.043	2.77	28.5	38.3	3.72	875
A757524 Dup	0.10	6.88	1.2	860	1.51	0.09	3.24	0.04	57.7	23.0	116	0.82	35.0	5.01	6.55	< 0.05	2.7	0.040	2.70	26.9	35.4	3.64	880
A757544 Orig	0.10	4.41	1.8	100	0.25	0.16	13.6	0.07	3.50	80.2	865	0.73	81.5	7.37	8.97	< 0.05	0.7	0.031	0.42	1.4	33.7	3.96	2480
A757544 Dup	0.10	4.43	1.7	100	0.30	0.16	13.6	0.10	3.38	77.4	995	0.67	77.2	7.40	8.51	0.12	0.6	0.041	0.42	1.3	33.2	3.96	2450
A757548 Orig	0.05	6.14	0.6	890	2.30	0.07	5.95	0.04	83.1	32.9	199	3.56	31.4	5.52	5.41	< 0.05	2.1	0.044	2.32	38.4	44.3	3.11	1100
A757548 Dup	0.06	6.22	0.4	890	2.28	0.07	5.97	0.09	80.9	32.7	139	3.46	29.3	5.49	6.01	< 0.05	2.5	0.039	2.30	37.5	43.5	3.10	1090
A757560 Orig	0.16	6.66	0.7	290	0.47	0.20	8.57	0.10	12.2	36.9	83	1.88	156	11.4	11.9	0.10	1.3	0.061	0.74	4.8	22.7	2.28	2610
A757560 Dup	0.16	6.03	0.3	280	0.43	0.20	8.37	0.10	12.0	36.3	80	1.84	153	10.8	11.8	< 0.05	1.3	0.074	0.70	4.6	22.1	2.19	2480
A757579 Orig	0.07	6.78	0.2	50	0.34	0.02	5.33	0.09	12.5	47.3	94	0.63	68.5	9.12	14.6	0.35	1.4	0.059	0.15	4.7	28.3	4.27	1520
A757579 Dup	0.05	6.71	< 0.2	40	0.35	0.02	5.27	0.15	13.2	50.1	86	0.67	71.2	8.89	15.5	0.21	1.5	0.082	0.15	5.0	29.7	4.19	1530
A757593 Orig	0.06	6.31	0.3	70	0.39	0.08	7.28	0.06	12.6	45.4	78	1.26	64.6	8.96	15.7	0.20	0.6	0.063	0.44	4.9	23.4	3.43	1860
A757593 Dup	0.09	6.35	1.2	70	0.37	0.08	7.30	0.05	12.1	43.0	68	1.18	63.4	8.66	14.8	0.32	1.0	0.065	0.44	4.7	22.2	3.47	1920
A757612 Orig	0.14	6.90	< 0.2	200	0.91	0.14	7.48	0.05	11.5	44.7	114	3.51	126	9.63	15.3	0.08	1.3	0.060	1.09	4.5	36.7	3.51	1900
A757612 Dup	0.12	6.93	< 0.2	190	0.82	0.14	7.48	0.06	11.4	44.1	111	3.41	124	9.12	15.4	0.33	1.3	0.071	1.09	4.5	36.2	3.50	1880
A757629 Orig	0.12	7.34	0.8	960	1.63	0.06	2.15	0.31	86.1	9.8	26	1.49	58.9	2.50	7.74	< 0.05	4.1	0.013	3.35	45.8	17.6	0.76	423
A757629 Dup	0.14	7.41	0.7	990	1.65	0.06	2.14	0.29	76.2	9.3	29	1.44	57.4	2.58	7.10	< 0.05	4.0	0.020	2.94	38.2	17.2	0.78	435

Analyte Symbol	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5
Method Code	TD-MS	TD-ICP	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-ICP
A757658 Orig	0.06	5.66	4.0	980	0.29	0.01	7.50	0.09	12.6	52.8	206	0.87	91.4	8.52	0.42	0.64	0.8	0.046	0.77	5.3	8.4	4.81	1490
A757658 Dup	0.07	5.62	3.3	990	0.25	0.01	7.47	0.09	12.1	50.9	229	0.82	88.8	8.50	0.14	0.53	0.8	0.061	0.77	5.1	8.3	4.80	1490
A757662 Orig	0.05	5.76	2.3	340	0.28	0.02	5.79	0.05	12.2	58.0	363	0.77	104	8.31	9.68	0.41	0.9	0.049	0.33	5.1	20.0	5.10	1290
A757662 Dup	0.04	5.74	3.6	350	0.28	0.02	5.84	0.03	11.8	57.4	269	0.73	103	8.44	9.89	0.25	1.2	0.049	0.33	5.0	19.8	5.18	1270
A757682 Orig	1.56	3.99	8.2	30	0.90	0.42	4.41	0.86	18.8	58.4	159	1.47	371	15.2	11.1	0.07	2.0	0.078	1.27	8.8	20.1	2.38	589
A757682 Dup	1.63	4.15	9.5	40	0.93	0.42	4.56	0.79	19.7	59.5	178	1.51	382	15.9	11.4	0.15	2.0	0.083	1.35	9.5	20.4	2.49	588
A757699 Orig	0.07	5.10	3.3	110	0.22	0.01	8.86	0.10	7.83	57.5	339	0.56	131	9.19	11.7	0.05	0.8	0.050	0.27	3.1	15.9	5.28	1880
A757699 Dup	0.07	5.25	5.3	110	0.18	0.01	8.92	0.07	7.85	59.0	342	0.56	131	9.34	11.8	< 0.05	0.8	0.049	0.28	3.1	16.0	5.34	1910
A757715 Orig	0.37	4.31	5.0	120	0.27	0.62	8.77	4.78	16.1	50.1	491	0.63	218	7.80	11.4	< 0.05	1.4	0.394	0.57	8.1	8.9	3.95	948
A757715 Dup	0.35	4.35	5.0	120	0.25	0.62	8.90	5.11	16.0	49.5	487	0.59	211	7.91	11.0	< 0.05	1.4	0.401	0.58	7.9	8.8	4.00	961
A757730 Orig	0.30	4.77	50.1	170	0.45	0.61	5.30	0.91	15.9	68.2	332	0.87	259	8.92	12.1	0.44	1.5	0.093	0.68	6.9	13.1	3.88	933
A757730 Dup	0.30	4.87	48.4	130	0.39	0.59	5.38	0.93	15.3	66.5	360	0.88	255	9.32	12.3	0.10	1.4	0.095	0.70	6.6	12.7	3.94	944
A757755 Orig	0.07	7.55	0.4	30	0.30	0.02	4.84	0.11	7.78	48.8	178	0.89	116	9.26	18.8	0.23	0.8	0.071	0.14	2.9	22.0	4.04	1890
A757755 Dup	0.07	7.49	0.3	30	0.30	0.03	4.83	0.16	7.84	50.1	137	0.95	121	9.24	19.2	0.47	0.9	0.063	0.14	2.9	22.3	4.02	1860
A757777 Orig	0.06	7.08	1.7	50	0.28	0.03	7.16	0.15	6.79	45.5	179	2.09	88.9	8.08	14.0	0.25	1.0	0.051	0.40	2.7	21.3	4.39	1520
A757777 Dup	0.08	7.01	2.1	50	0.24	0.03	7.18	0.16	6.85	46.2	153	2.12	89.9	8.04	14.1	0.24	1.1	0.055	0.40	2.7	21.6	4.38	1520
A757785 Orig	0.60	8.13	4.5	180	1.77	0.39	2.79	2.04	62.7	32.7	35	5.14	168	4.74	25.1	0.09	5.2	0.173	3.57	30.2	35.7	1.78	533
A757785 Dup	0.60	7.90	2.9	170	1.88	0.40	2.75	2.16	63.7	32.6	38	5.20	145	4.63	25.0	0.08	5.3	0.192	3.50	30.9	35.9	1.75	528
A757787 Orig	0.58	6.40	105	270	1.03	0.17	4.88	1.64	29.1	34.6	111	3.79	118	6.49	16.1	0.44	2.4	0.121	2.06	13.6	33.5	2.65	1120
A757787 Dup	0.57	6.49	109	300	1.12	0.17	4.93	1.58	28.2	34.3	114	3.65	115	6.58	15.6	0.38	2.4	0.111	2.20	13.4	33.3	2.67	1130
A757836 Orig	0.18	6.51	1.4	100	0.55	0.05	5.63	0.14	12.5	47.9	65	1.71	112	8.61	16.5	0.11	1.2	0.085	1.52	4.9	21.2	3.25	1490
A757836 Dup	0.18	6.63	< 0.2	100	0.60	0.05	5.69	0.14	12.8	48.5	53	1.73	115	8.79	16.7	0.19	0.5	0.076	1.53	5.0	20.7	3.32	1490
A757839 Orig	0.31	5.24	0.8	130	0.58	0.08	7.91	0.12	8.96	33.3	41	1.78	68.1	7.73	14.9	0.38	0.9	0.064	2.29	3.5	11.9	3.26	1640
A757839 Dup	0.34	5.28	1.0	130	0.71	0.08	7.98	0.18	9.54	35.8	42	1.86	72.4	7.87	15.7	0.20	1.0	0.068	2.44	3.7	12.5	3.29	1680
A757856 Orig	0.07	6.31	< 0.2	30	0.41	0.03	6.38	0.15	10.7	47.4	130	0.57	119	10.0	15.7	0.31	1.4	0.063	0.26	4.2	14.5	4.18	1410
A757856 Dup	0.07	6.37	< 0.2	30	0.42	0.03	6.40	0.15	11.0	48.4	123	0.57	125	10.1	16.3	0.30	1.4	0.080	0.26	4.3	14.7	4.19	1420
A757864 Orig	0.05	6.88	< 0.2	110	0.29	0.03	7.35	0.09	5.49	40.2	252	2.47	51.8	7.42	12.9	0.23	0.7	0.043	0.82	2.0	22.3	4.78	1170
A757864 Dup	0.05	7.07	< 0.2	110	0.30	0.03	7.39	0.08	5.44	38.7	376	2.41	50.7	7.65	12.8	0.19	0.7	0.048	0.85	2.0	22.3	4.89	1180
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	2	< 0.05	< 0.2	< 0.01	0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	< 0.2	< 0.01	0.07	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank		< 0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	
Method Blank		< 0.01		< 10			< 0.01							< 0.01					< 0.01			< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	1.5	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	1.1	< 0.01	0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	2	< 0.05	< 0.2	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	< 1	< 0.05	0.4	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	< 5
Method Blank	< 0.01		< 0.2		< 0.05	< 0.01		< 0.02	< 0.01	< 0.1		< 0.05	0.4		< 0.05	< 0.05	< 0.1	< 0.005		< 0.5	< 0.2		
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	< 0.2	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1		< 0.05	0.6	< 0.01	< 0.05	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	
Method Blank	< 0.01	< 0.01	< 0.2	< 10	< 0.05	< 0.01	< 0.01	< 0.02	< 0.01	< 0.1	1	< 0.05	0.8	< 0.01	0.10	< 0.05	< 0.1	< 0.005	< 0.01	< 0.5	< 0.2	< 0.01	< 5

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1	
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	
GXR-4 Meas	314	0.51	8.1	38.4	1370	49.3	145		1.84	4.21	6.8	5	6.7	212	0.52	0.78	18.7	0.254	3.04	5.7	90	35.6	13.1	
GXR-4 Cert	310	0.564	10.0	42.0	1200	52.0	160		1.77	4.80	7.70	5.60	5.60	221	0.790	0.970	22.5	0.29	3.20	6.20	87.0	30.8	14.0	
GXR-4 Meas	348	0.49	8.8	41.1	1340	46.1	142		1.78	4.16	8.2	5	7.3	225	0.55	0.79	20.7	0.247	3.30	5.9	88	33.5	13.7	
GXR-4 Cert	310	0.564	10.0	42.0	1200	52.0	160		1.77	4.80	7.70	5.60	5.60	221	0.790	0.970	22.5	0.29	3.20	6.20	87.0	30.8	14.0	
GXR-4 Meas	319	0.48	8.3	39.5	1340	46.0	138		1.79	4.00	8.0	5	7.1	219	0.52	0.70	18.7	0.256	3.15	5.6	87	32.1	12.8	
GXR-4 Cert	310	0.564	10.0	42.0	1200	52.0	160		1.77	4.80	7.70	5.60	5.60	221	0.790	0.970	22.5	0.29	3.20	6.20	87.0	30.8	14.0	
SDC-1 Meas		1.48	< 0.1	33.4	540	23.3	108			< 0.05	14.0		0.2	179	< 0.05		11.2	0.130	0.60	2.6	46	< 0.1		
SDC-1 Cert		1.52	21.00	38.0	690	25.00	127.00			0.54	17.00		3.00	180.00	1.20		12.00	0.606	0.70	3.10	102.00	0.80		
SDC-1 Meas		1.46	< 0.1	35.2	550	24.0	125			< 0.05	15.0		0.2	192	< 0.05		12.0	0.070	0.63	2.8	30	< 0.1		
SDC-1 Cert		1.52	21.00	38.0	690	25.00	127.00			0.54	17.00		3.00	180.00	1.20		12.00	0.606	0.70	3.10	102.00	0.80		
SDC-1 Meas		1.45	< 0.1	32.3	540	23.2	107			0.06	15.0		0.2	164	< 0.05		11.4	0.072	0.58	2.6	32	< 0.1		
SDC-1 Cert		1.52	21.00	38.0	690	25.00	127.00			0.54	17.00		3.00	180.00	1.20		12.00	0.606	0.70	3.10	102.00	0.80		
GXR-6 Meas	0.61		< 0.1	24.3		105	80.4			0.42	25.9	< 1	0.6	33.8	< 0.05	< 0.05	5.3		2.24	1.5		< 0.1	12.4	
GXR-6 Cert	2.40		7.50	27.0		101	90.0			3.60	27.6	0.940	1.70	35.0	0.485	0.0180	5.30		2.20	1.54		1.90	14.0	
GXR-6 Meas	3.22		3.1	26.2		103	80.0			2.27	29.2	< 1	1.3	37.3	0.07	< 0.05	5.4		2.26	1.5		0.3	12.1	
GXR-6 Cert	2.40		7.50	27.0		101	90.0			3.60	27.6	0.940	1.70	35.0	0.485	0.0180	5.30		2.20	1.54		1.90	14.0	
GXR-6 Meas	1.58		1.8	23.9		101	76.9			1.31	26.4	< 1	1.1	37.7	< 0.05	< 0.05	5.3		2.14	1.4		0.2	11.4	
GXR-6 Cert	2.40		7.50	27.0		101	90.0			3.60	27.6	0.940	1.70	35.0	0.485	0.0180	5.30		2.20	1.54		1.90	14.0	
OREAS 97 (4 Acid) Meas						141			6.82	4.36		70	98.2											
OREAS 97 (4 Acid) Cert						147			6.07	9.23		71.4	95.7											
OREAS 97 (4 Acid) Meas						146			6.72	5.60		63	92.5											
OREAS 97 (4 Acid) Cert						147			6.07	9.23		71.4	95.7											
OREAS 97 (4 Acid) Meas						141			6.91	5.66		65	93.3											
OREAS 97 (4 Acid) Cert						147			6.07	9.23		71.4	95.7											
OREAS 98 (4 Acid) Meas						349			> 10.0	5.12		167	217											
OREAS 98 (4 Acid) Cert						345			15.5	20.1		158	206											
OREAS 98 (4 Acid) Meas						351			> 10.0	7.14		166	217											
OREAS 98 (4 Acid) Cert						345			15.5	20.1		158	206											
OREAS 98 (4 Acid) Meas						332			> 10.0	6.60		140	195											
OREAS 98 (4 Acid) Cert						345			15.5	20.1		158	206											
DNC-1a Meas		1.43	1.4	258		5.6	3.3			0.73	30.0			137				0.270			147		15.4	
DNC-1a Cert		1.40	3	247		6.3	5			0.96	31			144				0.29			148		18.0	
DNC-1a Meas		1.43	1.5	256		6.0	3.0			0.77	29.9			145				0.269			148		15.0	

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
DNC-1a Cert		1.40	3	247		6.3	5			0.96	31			144				0.29			148		18.0
DNC-1a Meas		1.42	1.5	254		5.8	3.2			0.79	31.6			147				0.268			148		15.1
DNC-1a Cert		1.40	3	247		6.3	5			0.96	31			144				0.29			148		18.0
SBC-1 Meas	2.19		8.6	79.4		34.9	146			0.82	18.1		3.3	179	0.40		15.3	0.486	0.87	5.5	221	1.3	31.3
SBC-1 Cert	2.40		15.3	82.8		35.0	147			1.01	20.0		3.3	178.0	1.10		15.8	0.51	0.89	5.76	220.0	1.60	36.5
SBC-1 Meas	2.37		14.8	82.4		34.8	134			0.97	20.1		3.4	179	1.02		15.7	0.469	0.89	5.6	214	1.6	29.3
SBC-1 Cert	2.40		15.3	82.8		35.0	147			1.01	20.0		3.3	178.0	1.10		15.8	0.51	0.89	5.76	220.0	1.60	36.5
SBC-1 Meas	2.84		15.3	84.0		37.0	140			1.13	21.0		3.6	183	1.07		17.2	0.441	0.92	5.9	217	1.9	29.7
SBC-1 Cert	2.40		15.3	82.8		35.0	147			1.01	20.0		3.3	178.0	1.10		15.8	0.51	0.89	5.76	220.0	1.60	36.5
OREAS 45d (4-Acid) Meas	0.74	0.09	2.1	226	370	20.9	41.0		0.05	< 0.05	47.6		0.8	32.2	0.05		14.6	0.340	0.25	2.6	162	< 0.1	10.7
OREAS 45d (4-Acid) Cert	2.500	0.101	14.50	231.0	420.000	21.8	42.1		0.049	0.82	49.30		2.78	31.30	1.02		14.5	0.773	0.27	2.63	235.0	1.62	9.53
OREAS 45d (4-Acid) Meas	0.48	0.09	0.7	231	350	21.2	40.1		0.04	< 0.05	50.3		0.8	29.1	< 0.05		14.6	0.098	0.25	2.7	87	< 0.1	10.6
OREAS 45d (4-Acid) Cert	2.500	0.101	14.50	231.0	420.000	21.8	42.1		0.049	0.82	49.30		2.78	31.30	1.02		14.5	0.773	0.27	2.63	235.0	1.62	9.53
OREAS 45d (4-Acid) Meas		0.09			390				0.05									0.493			193		
OREAS 45d (4-Acid) Cert		0.101			420.000				0.049									0.773			235.0		
OREAS 96 (4 Acid) Meas						98.6			4.21	3.68		40	65.4										
OREAS 96 (4 Acid) Cert						101			4.19	5.09		40.7	65.6										
OREAS 96 (4 Acid) Meas						102			4.24	3.84		39	67.9										
OREAS 96 (4 Acid) Cert						101			4.19	5.09		40.7	65.6										
OREAS 96 (4 Acid) Meas						100.0			4.21	3.97		39	65.6										
OREAS 96 (4 Acid) Cert						101			4.19	5.09		40.7	65.6										
OREAS 923 (4 Acid) Meas		0.32			630				0.70									0.395			96		
OREAS 923 (4 Acid) Cert		0.324			630				0.691									0.405			91.0		
OREAS 923 (4 Acid) Meas		0.32			640				0.71									0.395			97		
OREAS 923 (4 Acid) Cert		0.324			630				0.691									0.405			91.0		
OREAS 923 (4 Acid) Meas		0.30			630				0.69									0.388			94		
OREAS 923 (4 Acid) Cert		0.324			630				0.691									0.405			91.0		
OREAS 621 (4	13.3	1.30	8.4	25.4	360	> 10000	82.8		4.45	15.0	6.0	4	5.1	68.9			4.3	0.174	1.95	2.6	34	2.0	12.3

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS
Acid) Meas																							
OREAS 621 (4 Acid) Cert	13.6	1.31	8.61	26.2	359	13600	84.0		4.48	139	6.24	5.64	5.25	91.0			7.48	0.149	1.96	2.83	31.8	2.35	11.1
OREAS 621 (4 Acid) Meas	13.1	1.29	8.6	30.2	360	> 10000	85.2		4.57	19.0	6.3	4	5.2	65.2			4.7	0.179	2.03	2.8	34	1.9	12.5
OREAS 621 (4 Acid) Cert	13.6	1.31	8.61	26.2	359	13600	84.0		4.48	139	6.24	5.64	5.25	91.0			7.48	0.149	1.96	2.83	31.8	2.35	11.1
OREAS 621 (4 Acid) Meas	13.2	1.27	8.4	28.0	360	> 10000	76.2		4.45	17.4	6.5	5	5.4	66.5			6.0	0.178	2.13	3.0	34	1.6	11.7
OREAS 621 (4 Acid) Cert	13.6	1.31	8.61	26.2	359	13600	84.0		4.48	139	6.24	5.64	5.25	91.0			7.48	0.149	1.96	2.83	31.8	2.35	11.1
OREAS 520 (4 Acid) Meas	63.3	1.35	4.4	75.7	730	4.5	110	0.032	0.94	1.24	16.9	< 1	4.2	96.2	0.22	0.08	9.4	0.458	0.27	18.4	261	21.7	20.4
OREAS 520 (4 Acid) Cert	65.0	1.35	5.68	76.0	740	5.85	111	0.0310	1.01	3.21	17.0	1.76	4.76	104	0.470	0.360	9.62	0.445	0.260	17.9	257	43.8	20.8
OREAS 520 (4 Acid) Meas	66.9	1.33	5.9	80.6	730	5.6	116	0.032	0.93	1.57	17.1	1	4.7	100	0.44	0.19	9.2	0.464	0.26	17.9	263	38.9	20.7
OREAS 520 (4 Acid) Cert	65.0	1.35	5.68	76.0	740	5.85	111	0.0310	1.01	3.21	17.0	1.76	4.76	104	0.470	0.360	9.62	0.445	0.260	17.9	257	43.8	20.8
OREAS 520 (4 Acid) Meas	63.9	1.30	5.6	72.1	740	5.3	97.5	0.025	0.87	1.46	16.7	< 1	4.8	84.5	0.43	0.17	8.2	0.284	0.26	17.9	231	41.5	18.8
OREAS 520 (4 Acid) Cert	65.0	1.35	5.68	76.0	740	5.85	111	0.0310	1.01	3.21	17.0	1.76	4.76	104	0.470	0.360	9.62	0.445	0.260	17.9	257	43.8	20.8
A757483 Orig	0.13	2.93	< 0.1	60.4	470	0.6	3.2	< 0.002	0.19	0.10	40.8	< 1	0.4	50.5	< 0.05	< 0.05	0.4	0.204	0.02	0.1	142	< 0.1	21.0
A757483 Dup	0.09	2.80	< 0.1	69.4	460	0.8	3.7	< 0.002	0.18	0.09	47.1	< 1	0.4	57.9	< 0.05	< 0.05	0.5	0.124	0.03	0.1	123	< 0.1	24.2
A757495 Orig	0.22	1.93	< 0.1	52.8	460	5.8	15.6	< 0.002	0.15	< 0.05	37.7	< 1	0.3	136	< 0.05	< 0.05	0.9	0.231	0.12	0.5	143	< 0.1	22.5
A757495 Dup	0.37	1.89	0.7	56.1	460	5.5	16.6	< 0.002	0.16	0.06	39.2	< 1	0.3	144	< 0.05	< 0.05	0.9	0.433	0.13	0.5	223	< 0.1	23.5
A757508 Orig	0.87	3.32	4.9	53.2	1190	10.3	44.0	< 0.002	0.61	0.21	17.4	< 1	1.2	552	0.18	0.12	3.7	0.467	0.29	1.2	158	1.4	14.2
A757508 Dup	0.78	3.15	4.0	54.7	1140	10.6	44.4	< 0.002	0.59	0.20	17.6	< 1	1.2	553	0.10	0.11	3.7	0.455	0.29	1.2	151	1.1	14.2
A757524 Orig	0.20	3.27	3.7	30.4	1880	20.6	65.3	< 0.002	0.31	0.11	19.7	< 1	0.9	239	0.17	0.06	4.5	0.406	0.38	1.7	143	1.0	16.7
A757524 Dup	0.23	3.25	4.4	27.3	1880	18.6	60.5	< 0.002	0.31	0.10	17.8	< 1	0.9	219	0.24	< 0.05	4.1	0.405	0.35	1.6	142	1.0	15.4
A757544 Orig	1.03	0.95	0.9	588	140	7.6	21.0	< 0.002	0.15	0.12	31.4	< 1	0.4	154	0.05	< 0.05	< 0.2	0.272	0.18	0.1	178	0.9	11.0
A757544 Dup	0.93	0.96	0.9	571	140	7.4	20.2	< 0.002	0.15	0.12	30.6	< 1	0.4	148	< 0.05	< 0.05	< 0.2	0.271	0.16	< 0.1	178	0.8	10.7
A757548 Orig	0.26	3.03	1.7	84.7	1730	8.7	79.7	< 0.002	0.07	< 0.05	18.1	< 1	0.9	951	< 0.05	< 0.05	4.8	0.384	0.45	0.9	136	0.1	14.8
A757548 Dup	0.26	3.10	3.5	83.6	1790	8.6	79.5	< 0.002	0.08	0.10	18.0	< 1	1.0	945	0.06	< 0.05	4.6	0.387	0.45	0.8	135	0.1	14.3
A757560 Orig	1.44	1.67	3.4	46.3	540	3.3	16.6	< 0.002	0.50	0.10	38.0	< 1	1.1	107	0.22	0.08	0.5	0.630	0.17	0.3	277	1.4	24.7
A757560 Dup	1.43	1.55	3.4	46.9	510	3.2	15.4	< 0.002	0.46	0.11	37.0	< 1	1.1	105	0.22	0.08	0.5	0.597	0.16	0.3	260	1.3	24.5
A757579 Orig	0.48	2.85	2.5	61.4	520	1.4	4.5	< 0.002	0.08	0.12	43.1	< 1	0.5	90.7	0.14	< 0.05	0.5	0.587	0.04	0.1	267	0.4	26.1
A757579 Dup	0.30	2.82	0.7	65.9	460	1.5	4.8	< 0.002	0.08	0.05	45.2	< 1	0.2	95.0	< 0.05	< 0.05	0.5	0.416	0.05	0.1	238	0.1	28.2
A757593 Orig	0.15	1.78	< 0.1	57.1	490	1.5	15.0	< 0.002	0.39	0.08	41.9	< 1	0.8	132	< 0.05	< 0.05	0.4	0.287	0.11	0.1	135	< 0.1	26.1
A757593 Dup	0.40	1.82	2.0	54.7	530	1.4	14.6	< 0.002	0.40	0.09	40.1	< 1	0.8	126	< 0.05	< 0.05	0.4	0.553	0.10	0.1	227	0.4	25.1
A757612 Orig	0.76	2.03	3.6	62.3	540	3.2	49.9	< 0.002	0.43	0.08	40.4	< 1	1.1	195	0.22	0.09	0.4	0.638	0.35	0.2	261	4.2	22.7
A757612 Dup	0.63	2.04	2.4	61.3	530	3.1	50.0	< 0.002	0.42	0.07	41.4	< 1	1.0	196	0.08	0.07	0.4	0.593	0.35	0.2	246	1.4	22.6
A757629 Orig	1.13	3.74	5.9	8.0	720	29.2	98.0	< 0.002	0.11	0.16	5.4	< 1	0.7	406	0.29	< 0.05	9.6	0.191	0.58	2.7	45	1.6	10.1
A757629 Dup	1.01	3.80	5.7	8.5	720	28.8	96.2	< 0.002	0.11	0.14	4.9	< 1	0.7	383	0.30	< 0.05	8.4	0.196	0.55	2.3	45	1.6	9.2

Analyte Symbol	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	
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	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.2	0.005	0.02	0.1	1	0.1	0.1	
Method Code	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	TD-ICP	TD-MS	TD-MS	
A757658 Orig	0.69	1.27	1.7	97.3	290	1.6	27.7	< 0.002	0.04	0.34	34.6	< 1	0.5	141	0.10	< 0.05	0.6	0.387	0.19	0.2	214	0.2	13.8	
A757658 Dup	0.64	1.26	1.6	95.1	300	1.5	26.8	< 0.002	0.04	0.29	33.9	< 1	0.4	135	0.10	< 0.05	0.6	0.385	0.19	0.1	213	0.2	13.2	
A757662 Orig	0.37	2.02	< 0.1	126	280	1.7	9.5	< 0.002	0.16	< 0.05	35.7	< 1	0.3	183	< 0.05	< 0.05	0.6	0.232	0.10	0.2	162	< 0.1	14.0	
A757662 Dup	0.53	2.02	0.2	126	290	1.6	9.4	< 0.002	0.17	0.20	34.7	< 1	0.5	178	< 0.05	< 0.05	0.6	0.349	0.10	0.1	197	< 0.1	13.6	
A757682 Orig	14.0	1.13	2.5	214	430	22.0	37.9	0.004	6.86	0.53	13.4	3	1.9	159	0.23	1.23	2.0	0.178	0.54	0.7	103	8.0	8.9	
A757682 Dup	15.0	1.19	2.6	219	450	22.0	39.9	0.005	5.07	0.56	14.3	3	2.0	171	0.23	1.30	2.1	0.184	0.56	0.7	107	7.8	9.4	
A757699 Orig	0.64	1.13	1.5	146	240	0.9	5.5	< 0.002	0.25	0.24	38.7	< 1	0.5	116	0.10	0.06	0.3	0.406	0.06	< 0.1	233	0.3	13.2	
A757699 Dup	0.70	1.16	1.5	147	250	< 0.5	5.4	< 0.002	0.26	0.23	39.4	< 1	0.5	111	0.10	0.11	0.3	0.414	0.05	< 0.1	237	0.3	13.1	
A757715 Orig	2.73	2.04	2.2	119	240	17.2	24.4	0.004	4.43	0.71	29.3	4	9.2	139	0.17	0.50	0.9	0.277	0.22	0.4	159	0.4	11.8	
A757715 Dup	2.77	2.06	2.1	120	240	17.5	24.0	0.004	4.60	0.70	29.1	4	9.0	138	0.16	0.48	0.9	0.281	0.23	0.4	160	0.5	11.7	
A757730 Orig	2.77	1.71	2.1	138	290	12.4	17.8	0.005	3.03	0.29	29.5	3	1.5	136	0.15	0.79	1.3	0.317	0.39	0.4	170	0.5	12.1	
A757730 Dup	2.76	1.73	2.1	135	290	11.8	17.5	0.005	3.16	0.31	28.5	2	1.5	131	0.16	0.84	1.2	0.325	0.38	0.4	171	0.5	12.1	
A757755 Orig	0.17	1.62	< 0.1	86.3	270	2.7	3.7	< 0.002	0.18	< 0.05	47.2	< 1	0.5	85.9	< 0.05	< 0.05	0.3	0.268	0.11	< 0.1	234	< 0.1	15.9	
A757755 Dup	0.37	1.61	< 0.1	87.4	260	2.9	3.9	< 0.002	0.16	< 0.05	48.2	< 1	0.5	88.5	< 0.05	< 0.05	0.3	0.373	0.11	< 0.1	250	< 0.1	16.6	
A757777 Orig	0.34	1.75	0.4	88.5	250	2.0	12.6	< 0.002	0.10	< 0.05	42.2	< 1	< 0.2	112	< 0.05	< 0.05	0.3	0.422	0.22	< 0.1	260	< 0.1	16.3	
A757777 Dup	0.45	1.75	1.1	90.2	260	2.0	12.7	< 0.002	0.10	< 0.05	42.6	< 1	0.3	116	< 0.05	< 0.05	0.3	0.470	0.21	< 0.1	288	0.1	16.6	
A757785 Orig	2.57	1.47	6.0	42.9	1040	24.5	111	0.003	1.06	0.52	12.7	2	4.5	297	0.44	0.69	4.3	0.401	1.84	1.1	101	4.2	15.8	
A757785 Dup	2.54	1.44	6.1	43.0	1020	25.1	115	0.003	1.07	0.52	13.1	2	4.5	300	0.43	0.47	4.3	0.392	1.91	1.1	99	4.2	16.2	
A757787 Orig	3.57	1.64	2.3	63.6	600	11.7	70.1	0.004	1.16	0.20	26.2	< 1	1.7	232	0.10	0.27	1.7	0.396	1.00	0.5	206	2.6	14.1	
A757787 Dup	3.75	1.66	2.6	62.3	600	11.6	65.0	0.003	1.16	0.22	26.7	< 1	1.7	222	0.13	0.37	1.6	0.413	0.98	0.4	213	4.0	13.8	
A757836 Orig	< 0.05	1.69	< 0.1	68.8	350	1.4	41.9	< 0.002	0.26	< 0.05	41.6	< 1	< 0.2	103	< 0.05	< 0.05	0.4	0.220	0.32	0.1	184	< 0.1	26.3	
A757836 Dup	< 0.05	1.72	< 0.1	69.9	330	1.4	42.7	< 0.002	0.29	< 0.05	42.2	< 1	0.3	107	< 0.05	< 0.05	0.4	0.154	0.32	0.1	159	< 0.1	26.6	
A757839 Orig	0.50	0.64	1.3	46.7	290	4.0	52.6	< 0.002	0.42	< 0.05	30.9	< 1	0.6	110	< 0.05	0.06	0.3	0.469	0.38	< 0.1	260	0.7	20.4	
A757839 Dup	0.69	0.64	2.5	49.7	310	4.5	57.9	< 0.002	0.49	0.07	33.4	< 1	0.8	121	0.14	0.20	0.3	0.523	0.40	< 0.1	278	3.7	22.1	
A757856 Orig	0.38	1.79	1.7	82.1	360	0.7	8.5	0.002	0.14	< 0.05	41.6	< 1	0.3	102	0.07	< 0.05	0.4	0.575	0.06	< 0.1	299	0.2	23.5	
A757856 Dup	0.36	1.79	1.1	84.1	350	0.6	8.7	< 0.002	0.13	< 0.05	41.4	< 1	0.3	104	< 0.05	< 0.05	0.4	0.539	0.06	0.1	282	< 0.1	24.4	
A757864 Orig	0.07	1.76	< 0.1	125	160	1.2	26.0	< 0.002	0.02	< 0.05	41.4	< 1	< 0.2	120	< 0.05	< 0.05	0.2	0.205	0.16	< 0.1	178	< 0.1	13.7	
A757864 Dup	0.06	1.84	< 0.1	120	180	1.1	24.7	< 0.002	0.02	< 0.05	41.1	< 1	< 0.2	117	< 0.05	< 0.05	< 0.2	0.220	0.16	< 0.1	188	< 0.1	13.1	
Method Blank	0.09	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	0.07	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	0.08	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	0.05	< 0.1	< 1	0.6	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank		< 0.01			< 10				< 0.01									< 0.005				< 1		
Method Blank		< 0.01			< 10				< 0.01									< 0.005				< 1		
Method Blank	0.43	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	0.10	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	0.10	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	0.09	0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	< 0.05	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	< 0.05		< 0.1	0.2		< 0.5	< 0.1	< 0.002		< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2		< 0.02	< 0.1		< 0.1	< 0.1	
Method Blank	< 0.05	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	< 0.05	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	
Method Blank	0.06	< 0.01	< 0.1	< 0.2	< 10	< 0.5	< 0.1	< 0.002	< 0.01	< 0.05	< 0.1	< 1	< 0.2	< 0.2	< 0.05	< 0.05	< 0.2	< 0.005	< 0.02	< 0.1	< 1	< 0.1	< 0.1	

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
GXR-4 Meas	1.0	73	40.2
GXR-4 Cert	1.60	73.0	186
GXR-4 Meas	1.1	72	38.4
GXR-4 Cert	1.60	73.0	186
GXR-4 Meas	1.1	74	39.0
GXR-4 Cert	1.60	73.0	186
SDC-1 Meas	3.2	100	27.1
SDC-1 Cert	4.00	103.00	290.00
SDC-1 Meas	3.3	105	33.7
SDC-1 Cert	4.00	103.00	290.00
SDC-1 Meas	3.2	104	25.3
SDC-1 Cert	4.00	103.00	290.00
GXR-6 Meas	1.8		73.2
GXR-6 Cert	2.40		110
GXR-6 Meas	1.8		95.7
GXR-6 Cert	2.40		110
GXR-6 Meas	1.7		88.5
GXR-6 Cert	2.40		110
OREAS 97 (4 Acid) Meas		600	
OREAS 97 (4 Acid) Cert		646	
OREAS 97 (4 Acid) Meas		606	
OREAS 97 (4 Acid) Cert		646	
OREAS 97 (4 Acid) Meas		615	
OREAS 97 (4 Acid) Cert		646	
OREAS 98 (4 Acid) Meas		1280	
OREAS 98 (4 Acid) Cert		1360	
OREAS 98 (4 Acid) Meas		1300	
OREAS 98 (4 Acid) Cert		1360	
OREAS 98 (4 Acid) Meas		1290	
OREAS 98 (4 Acid) Cert		1360	
DNC-1a Meas	2.0	61	33.9
DNC-1a Cert	2.0	70	38.0
DNC-1a Meas	1.9	61	37.2

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
DNC-1a Cert	2.0	70	38.0
DNC-1a Meas	1.9	62	37.5
DNC-1a Cert	2.0	70	38.0
SBC-1 Meas	3.4	187	105
SBC-1 Cert	3.64	186	134.0
SBC-1 Meas	3.3	182	121
SBC-1 Cert	3.64	186	134.0
SBC-1 Meas	3.5	181	122
SBC-1 Cert	3.64	186	134.0
OREAS 45d (4-Acid) Meas	1.4	44	118
OREAS 45d (4-Acid) Cert	1.33	45.7	141
OREAS 45d (4-Acid) Meas	1.5	47	95.8
OREAS 45d (4-Acid) Cert	1.33	45.7	141
OREAS 45d (4-Acid) Meas		44	
OREAS 45d (4-Acid) Cert		45.7	
OREAS 96 (4 Acid) Meas		438	
OREAS 96 (4 Acid) Cert		457	
OREAS 96 (4 Acid) Meas		440	
OREAS 96 (4 Acid) Cert		457	
OREAS 96 (4 Acid) Meas		442	
OREAS 96 (4 Acid) Cert		457	
OREAS 923 (4 Acid) Meas		351	
OREAS 923 (4 Acid) Cert		345	
OREAS 923 (4 Acid) Meas		351	
OREAS 923 (4 Acid) Cert		345	
OREAS 923 (4 Acid) Meas		345	
OREAS 923 (4 Acid) Cert		345	
OREAS 621 (4	1.0	> 10000	163

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
Acid) Meas			
OREAS 621 (4 Acid) Cert	0.990	52200	168
OREAS 621 (4 Acid) Meas	1.0	> 10000	169
OREAS 621 (4 Acid) Cert	0.990	52200	168
OREAS 621 (4 Acid) Meas	1.0	> 10000	185
OREAS 621 (4 Acid) Cert	0.990	52200	168
OREAS 520 (4 Acid) Meas	2.2	21	134
OREAS 520 (4 Acid) Cert	2.20	22.7	134
OREAS 520 (4 Acid) Meas	2.2	21	140
OREAS 520 (4 Acid) Cert	2.20	22.7	134
OREAS 520 (4 Acid) Meas	2.2	23	140
OREAS 520 (4 Acid) Cert	2.20	22.7	134
A757483 Orig	2.5	106	17.6
A757483 Dup	2.9	105	11.7
A757495 Orig	2.7	75	12.6
A757495 Dup	2.9	74	30.4
A757508 Orig	1.2	98	117
A757508 Dup	1.2	95	113
A757524 Orig	1.8	75	108
A757524 Dup	1.7	73	99.0
A757544 Orig	1.3	87	18.7
A757544 Dup	1.3	86	19.2
A757548 Orig	1.4	84	81.6
A757548 Dup	1.3	86	88.9
A757560 Orig	3.1	87	37.0
A757560 Dup	3.0	85	35.9
A757579 Orig	3.1	105	45.2
A757579 Dup	3.3	106	48.6
A757593 Orig	3.2	79	15.9
A757593 Dup	3.0	79	24.9
A757612 Orig	2.7	93	40.0
A757612 Dup	2.7	93	37.1
A757629 Orig	1.1	201	167
A757629 Dup	1.0	204	160

Analyte Symbol	Yb	Zn	Zr
Unit Symbol	ppm	ppm	ppm
Lower Limit	0.1	2	0.5
Method Code	TD-MS	TD-ICP	TD-MS
A757658 Orig	1.5	77	24.1
A757658 Dup	1.5	78	23.0
A757662 Orig	1.6	64	33.0
A757662 Dup	1.5	64	44.3
A757682 Orig	1.0	388	69.6
A757682 Dup	1.1	397	72.1
A757699 Orig	1.5	77	19.3
A757699 Dup	1.5	77	18.2
A757715 Orig	1.3	2050	47.1
A757715 Dup	1.4	2090	51.4
A757730 Orig	1.5	363	45.9
A757730 Dup	1.4	369	46.0
A757755 Orig	2.0	185	25.4
A757755 Dup	2.1	179	29.4
A757777 Orig	1.9	155	29.8
A757777 Dup	1.9	156	32.2
A757785 Orig	1.5	1370	193
A757785 Dup	1.4	1350	193
A757787 Orig	1.5	838	88.6
A757787 Dup	1.5	853	86.3
A757836 Orig	3.1	142	40.6
A757836 Dup	3.2	142	16.8
A757839 Orig	2.4	94	23.3
A757839 Dup	2.6	93	26.0
A757856 Orig	2.6	89	48.3
A757856 Dup	2.7	88	47.0
A757864 Orig	1.6	63	21.2
A757864 Dup	1.6	63	20.9
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1	< 2	< 0.5
Method Blank		< 2	
Method Blank		< 2	
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1		< 0.5
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1	< 2	< 0.5
Method Blank	< 0.1	< 2	< 0.5

APPENDIX – III

Statement of Expenditures

STATEMENT of EXPENDITURES

The following is a breakdown of expenditures related to the 2018 diamond drilling program on the Wire Lake Property.

Labour:

Preparation, field work, travel

Labour	\$ 16,201.23
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Prepare maps etc.

Drafting	\$ 2,320.94
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Report Writing

Report Writing	\$ 7,434.76
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Associated Costs:

Camp Costs (Meals, Accommodation, Camp rental etc.)	\$ 22,863.68
Field Supplies	\$ 1,764.85
Ground Travel and Transportation	\$ 982.55
Astar helicopter including fuel	\$ 57,231.31
Motel	\$ 447.46
Plane	\$ 1,228.07
Fladgate Consulting	\$ 2,871.61
Chibougamau Diamond Drilling	\$ 86,035.50
Labour	\$ 6,126.35

Analytical Costs:

Actlabs (338 core samples)	\$ 14,330.47
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TOTAL EXPENDITURES

\$ 219,838.77

TOTAL EXPENDITURES BY CLAIM

Cell #	Core Samples per Cell	Analysis Cost by Cell (\$)	DDH Meters per Cell	Project Costs by Cell (\$)	Totals
133417	156	\$6,614.06	267	\$56,105.03	\$62,719.09
193476	76	\$3,222.24	321	\$67,452.11	\$70,674.35
251050	44	\$1,865.50	185.7	\$39,021.36	\$40,886.87
344992	62	\$2,628.67	204.3	\$42,929.80	\$45,558.47
Totals	338	\$14,330.47	978	\$205,508.30	\$219,838.77

APPENDIX – IV

Daily Logs

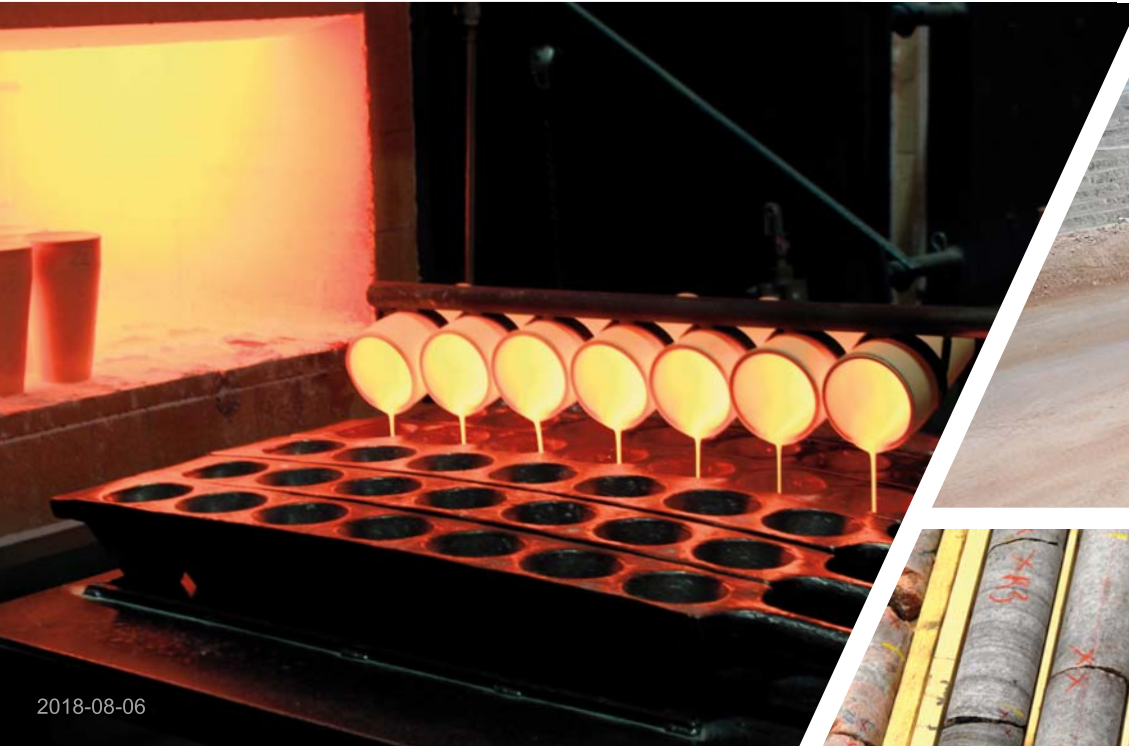
Wire Lake 2018 Drilling Daily Log			
Date	Stephen MacConnell	Doug Kakeeway	Luc Gagnon
06-Sep-18	Scouting drill pad sites for Kakeeway showing, water line access, work in camp		
07-Sep-18			
08-Sep-18			
09-Sep-18			
10-Sep-18			
11-Sep-18			
12-Sep-18			
13-Sep-18			
14-Sep-18			
15-Sep-18			
16-Sep-18	Data entry, sample prep, spotted collar location and site pickets for Kakeeway drilling		Working with Steve
17-Sep-18	Scouting drill site for IP target West zone		Working with Steve
18-Sep-18			
19-Sep-18			
20-Sep-18			
21-Sep-18			
22-Sep-18			
23-Sep-18			
24-Sep-18			
25-Sep-18			
26-Sep-18			
27-Sep-18			
28-Sep-18			
29-Sep-18			
30-Sep-18			
01-Oct-18			
02-Oct-18	Travel Day Toronto to Marathon		
03-Oct-18	Drill log preparation and sample prep		
04-Oct-18	Site preparation Kakeeway zone, checked setup for Contact Lake hole CL-2018-01		
05-Oct-18			
06-Oct-18			
07-Oct-18	Logging WL 2018-22, finish logging CL-2018-01		
08-Oct-18	Logging WL 2018-22		
09-Oct-18	Logging WL 2018-23		
10-Oct-18	Logging WL 2018-23, 24	Finished sawing drill core and sampling WL-2018-022	
11-Oct-18	Logging WL 2018-24	Finished sawing drill core and sampling WL-2018-023,started 024	
12-Oct-18	Logging WL 2018-25	Finished sawing drill core and sampling WL-2018-024	
13-Oct-18	Logging WL 2018-25	Finished sawing drill core and sampling WL-2018-025	
14-Oct-18	Logging WL 2018-25, 26	Sawing drill core and sampling WL-2018-026	
15-Oct-18	Logging WL 2018-26	Sawing drill core and sampling WL-2018-026	
16-Oct-18	Logging WL 2018-26	Sawing drill core and sampling WL-2018-026	
17-Oct-18	Logging WL 2018-26	Sawing drill core and sampling WL-2018-026	
18-Oct-18	Sample preparation camp closure	Sample prep camp closure	
19-Oct-18	Travel Day	Travel day	

APPENDIX – V

Lab Analytical Descriptions (Actlabs)



Activation Laboratories Ltd.



2018-08-06

Schedule of Services and Fees Geochemistry - CDN 2018



www.actlabs.com

Sample Preparation Packages

To obtain meaningful analytical results, it is imperative that sample collection and preparation be done properly. Actlabs can advise on sampling protocol for your field program if requested. Once the samples arrive in the laboratory, Actlabs will ensure that they are prepared properly. As a routine practice with rock and core, the entire sample is crushed to a nominal -2 mm, mechanically split to obtain a representative sample and then pulverized to at least 95% -105 microns (μm). All of our steel mills are now mild steel and do not introduce Cr or Ni contamination. Quality of crushing and pulverization is routinely checked as part of our quality assurance program. Samples submitted in an unorganized fashion will be subject to a sorting surcharge and may substantially slow turnaround time. Providing an accurate detailed sample list by e-mail will also aid in improving turnaround time and for Quality Control purposes.

Rock, Core and Drill Cuttings

Code RX1	Crush (< 7 kg) up to 80% passing 2 mm, riffle split (250 g) and pulverize (mild steel) to 95% passing 105 μm included cleaner sand	\$11.50
Code RX1-ORE	Crush up to 90% passing 2 mm	add \$2.10
Code RX1+500	500 grams pulverized	add \$1.25
Code RX1+800	800 grams pulverized	add \$2.25
Code RX1+1000	1000 grams pulverized	add \$2.75
Code RX1-SD	Crush (< 7 kg) up to 80% passing 2 mm, rotary split (250 g) and pulverized (mild steel) to 95% passing 105 μm	\$10.75
Code RX1-SD-ORE	Crush up to 90% passing 2 mm	add \$2.10
Code RX3	Oversize charge per kilogram for crushing	\$1.25
Code RX4	Pulverization only (mild steel) (coarse pulp or crushed rock) (< 800 g)	\$7.25
Code RX5	Pulverize ceramic (100 g)	\$18.75
Code RX6	Hand pulverize small samples (agate mortar & pestle) (<5g)	\$18.75
Code RX7	Crush and split (< 5 kg)	\$5.50
Code RX8	Sample prep only surcharge, no analyses	\$4.75
Code RX9	Compositing (per composite) dry weight	\$2.75
Code RX10	Weight (kg) as received	\$2.25
Code RX11	Checking quality of pulps or rejects prepared by other labs and issuing report	\$10.00
Code RX12	Ball Mill preparation	on request
Code RX13	Rod Mill preparation	on request
Code RX14	Core cutting	on request
Code RX15	Special Preparation/Hour	\$68.25
Code RX16	Specific Gravity on Core	\$17.00
Code RX16-W	Specific Gravity (WAX) on friable samples	\$22.75
Code RX17	Specific Gravity on the pulp	\$17.00
Code RX17-GP	Specific Gravity on the pulp by gas pycnometer	\$22.75

Note: Larger sample sizes than listed above can be pulverized at additional cost.

Soils, Stream and Lake Bottom Sediments, and Heavy Minerals

Code S1	Drying (60°C) and sieving (-177 μm) save all portions	\$4.25
Code S1 DIS	Drying (60°C) and sieving (-177 μm), discard oversize	\$3.75
Code S1-230	Drying (60°C) and sieving (-63 μm), save oversize	\$5.75
Code S1-230 DIS	Drying (60°C) and sieving (-63 μm), discard oversize	\$5.50
Code S2	Lake bottom sediment preparation crush & sieve (-177 μm)	\$9.00
Code S3	Alternate size fractions and bracket sieving, add	\$2.75
Code S4	Selective Extractions or SGH drying (40°C) & sieving (-177 μm)	\$4.75
Code S5	Wet or damp samples submitted in plastic bags, add	\$2.10
Code S6	Separating -2 micron material	\$28.25
Code S7mi	Methylene iodide heavy mineral separation specific gravity can be customized (100 grams)	\$73.75
Code S7w	Sodium polytungstate heavy mineral separation specific gravity can be customized (100 grams)	\$73.75
Code S8	Sieve analysis (4 sieve sizes) coarser than 53 μm	\$40.00
Code S9	Particle size analysis (laser)	\$102.00

Our Sample Preparation pricing is all-inclusive including: sorting, drying, labeling, new reject bags, using cleaner sand between each sample and crushing samples up to 7 kg (for RX1 and RX1-SD).



Riffle Splitting



Sample Pulverizers

Gold and Silver Analyses

Gold and Silver Analyses - Geochem

Code	Method	Sample Weight (g)	Metric Range	Price
1A1	Au Fire Assay - INAA	30	1 - 20,000 ppb	\$20.50
1A2 *	Au Fire Assay - AA	30	5 - 5,000 ppb	\$17.00
1A2-50 *	Au Fire Assay - AA	50	5 - 5,000 ppb	\$19.50
1A2-ICP	Au Fire Assay - ICP-OES	30	2 - 30,000 ppb	\$18.00
1A2-ICP-50	Au Fire Assay - ICP-OES	50	2 - 30,000 ppb	\$20.25
1A2-ICPMS	Au Fire Assay - ICP-MS	30	0.5 - 30,000 ppb	\$26.25
1A6	Au BLEG - ICP-MS	1,000	0.1 - 10,000 ppb	\$45.50
1A6-50	Au Cyanide Extraction - ICP-MS	50	0.02 - 1,000 ppb	\$35.00
1A8	Au Aqua Regia - ICP-MS	30	0.2 - 2,000 ppb	\$18.00
1E-Ag	Ag Aqua Regia - ICP-OES	0.5	0.2 - 100 ppm	\$6.75



Gold and Silver Analyses - Assay

Code	Method	Sample Weight (g)	Metric Range	Price
1A3-30	Au Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT	\$22.75
1A3-50	Au Fire Assay - Gravimetric	50	0.02 - 10,000 g/mT	\$24.00
1A3-Ag (Au,Ag)	Au, Ag Fire Assay - Gravimetric	30	0.03 - 10,000 g/mT (Au) 3 - 10,000 g/mT (Ag)	\$26.25
1A4 **	Au Fire Assay - Metallic Screen	500	0.03 g/mT	\$79.50
1A4-1000 **	Au Fire Assay - Metallic Screen	1,000	0.03 g/mT	\$90.75
8-Ag	Ag Fire Assay - Gravimetric	30	3 - 10,000 g/mT	\$24.25

When submitting samples for Au and Ag analysis, or Au, Pt Pd and Rh analysis, please try to ensure you send two-times the listed weight.

Gold, Platinum, Palladium and Rhodium

Code	Method	Sample Weight (g)	Range (ppb)				Price
			Au	Pt	Pd	Rh	
1C-Exploration	Fire Assay - ICP-MS	30	2 - 30,000	1 - 30,000	1 - 30,000		\$22.75
1C-EXP 2	Fire Assay - ICP-MS	30	1 - 30,000	0.5 - 30,000	0.5 - 30,000		\$25.00
1C-research	Fire Assay - ICP-MS	30	1 - 30,000	0.1 - 30,000	0.1 - 30,000		\$36.25
1C-Rhodium	Fire Assay - ICP-MS	30	-	-	-	5 - 10,000	\$34.25
1C-OES	Fire Assay - ICP-OES	30	2 - 30,000	5 - 30,000	5 - 30,000		\$19.50
8 Au Pt Pd	Fire Assay - ICP-OES	30	0.001 - 1000 g/mT	0.001 - 1000 g/mT	0.001 - 1000 g/mT		\$51.25

Platinum Group Elements

Code	Method	Sample Weight (g)	Range (ppb)								Price
			Os	Ir	Ru	Rh	Pt	Pd	Au	Re	
1B1	NiS Fire Assay - INAA	25	2	0.1	5	0.2	5 †	2	0.5	5	1-2 samples \$363.25 3+ samples \$181.75
1B2	NiS Fire Assay - ICP-MS	50	-	1	1	1	1	1	1	1	1-2 samples \$363.25 3+ samples \$181.75

Organic Sample Surcharge - \$1.25/sample for Fire Assay packages

Notes:

Use of 50 gram sample for fire assay may not provide optimum recovery.

For proper fire assay fusion, Actlabs may reduce the sample weights to 15 g or smaller at its discretion.

* Detection limit can be extended to 10,000 ppb if required. Please specify when required.

** A representative 500 gram or 1000 gram (or customized) sample split is sieved at 150 µm, with assays performed on the entire +150 µm fraction and two splits of the -150 µm fraction. It is important not to overpulverize the sample too finely, as tests have shown gold will plate out on the mill and be lost. When assays have been completed on the coarse and fine portions of the bulk sample, a final assay is calculated based on the weight of each fraction.

† Detection limits for Pt are increased with high Au/Pt ratios and limits for other elements will be affected by abnormally high Au, Sb and Cu content.

Samples with high Au can be reanalyzed by Code 1C exploration or research. Zn concentrates are not amenable to the nickel sulphide fire assay. Au results by Code 1B1 or 1B2 can be low by nickel sulphide fire assay. For accurate Au values, please request Code 1C-exploration.

Trace Element Geochemistry & Digestion Specific Assays

Aqua Regia "Partial" Digestion

This leach uses a combination of concentrated hydrochloric and nitric acids to leach sulphides, some oxides and some silicates. Mineral phases which are hardly (if at all) attacked include barite, zircon, monazite, sphene, chromite, gahnite, garnet, ilmenite, rutile and cassiterite. The balance of silicates and oxides are only slightly to moderately attacked, depending on the degree of alteration. Generally, but not always, most base metals and gold are usually dissolved.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.

NOTE: For Code Ultratrace 1, Code Ultratrace 2 and Code UT-1M, Au is semi-quantitative due to the small sample size.

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Assays

Package	Code 8 - AR ICP-OES	Code 8 - AR ICP-MS
Ag	3 ppm	-
As	-	0.0004 - 1 %
Bi	-	0.0001 - 1 %
Cd	0.003 %	-
Co	0.003 %	0.0001 - 1 %
Cs	-	0.0001 - 1 %
Cu	0.001 %	0.0001 - 1 %
Fe	0.003 %	-
Ga	-	0.0001 - 1 %
Ge	-	0.0001 - 1 %
Hg	0.001 %	-
In	-	0.0001 - 1 %
Li	-	0.0001 - 1 %
Mo	-	0.0001 - 1 %
Ni	0.003 %	0.0001 - 1 %
Pb	0.003 %	0.0001 - 1 %
Re	-	0.0001 - 1 %
Se	-	0.0001 - 1 %
Sn	-	0.0003 - 1 %
Te	-	0.0001 - 1 %
Th	-	0.0001 - 1 %
Tl	-	0.0001 - 1 %
U	-	0.0001 - 1 %
W	-	0.0001 - 1 %
Zn	0.001 %	0.0001 - 1 %
One Element	\$13.25	\$17.00
Each Additional Element	\$2.25	\$2.25
All Elements	\$19.00	\$22.75

Package	ICP-OES		ICP-MS		ICP-OES + ICP-MS
	1E	1E3	UT-1M	Ultratrace 1	Ultratrace 2
Ag	0.2 - 100 ppm	0.2 - 100 ppm	0.1 - 100 ppm	0.002 - 100 ppm	0.002 - 100 ppm
Al	-	0.01 - 10 %	0.01 - 8 %	0.01 - 8 %	0.01 - 8 %
As	-	2 - 10,000 ppm	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Au	-	-	0.5 - 1,000 ppb	0.5 - 10,000 ppb	0.5 - 10,000 ppb
B	-	10 - 10,000 ppm	20 - 2,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm
Ba	-	10 - 10,000 ppm	1 - 10,000 ppm	0.5 - 6,000 ppm	0.5 - 6,000 ppm
Be	-	0.5 - 1,000 ppm	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Bi	-	2 - 10,000 ppm	0.1 - 2,000 ppm	0.02 - 2,000 ppm	0.02 - 2,000 ppm
Ca	-	0.01 - 10 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Cd	0.5 - 2,000 ppm	0.5 - 2,000 ppm	0.1 - 2,000 ppm	0.01 - 2,000 ppm	0.01 - 1,000 ppm
Ce	-	-	-	0.01 - 10,000 ppm	0.01 - 10,000 ppm
Co	-	1 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Cr	-	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Cs	-	-	-	0.02 - 500 ppm	0.02 - 500 ppm
Cu	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Er	-	-	-	0.1 - 1,000 ppm	0.1 ppm
Eu	-	-	-	0.1 - 100 ppm	0.1 ppm
Fe	-	0.01 - 30 %	0.01 - 30 %	0.01 - 30 %	0.01 - 30 %
Ga	-	10 - 10,000 ppm	1 - 1,000 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Gd	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Ge	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Hf	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Hg	1 - 10,000 ppm	1 - 10,000 ppm	0.01 - 50 ppm	10 - 10,000 ppb	10 - 10,000 ppb
Ho	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
In	-	-	-	0.02 - 500 ppm	0.02 - 500 ppm
K	-	0.01 - 10 %	0.01 - 5 %	0.01 - 5 %	0.01 - 5 %
La	-	10 - 10,000 ppm	1 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 1,000 ppm
Li	-	-	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Lu	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Mg	-	0.01 - 25 %	0.01 - 10 %	0.01 - 10 %	0.01 - 10 %
Mn	2 - 100,000 ppm	5 - 100,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Mo	2 - 10,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.01 - 10,000 ppm	0.01 - 10,000 ppm
Na	-	0.001 - 10 %	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %
Nb	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Nd	-	-	-	0.02 - 5,000 ppm	0.02 - 5,000 ppm
Ni	1 - 10,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
P	-	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %	0.001 - 5 %
Pb	2 - 5,000 ppm	2 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Pr	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Rb	-	-	-	0.1 - 500 ppm	0.1 - 500 ppm
Re	-	-	-	0.001 - 100 ppm	0.001 - 100 ppm
S +	0.001 - 20 %	0.01 - 20 %	1 - 20 %	1 - 20 %	0.001 - 20 %
Sb	-	2 - 10,000 ppm	0.1 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Sc	-	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Se	-	-	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sm	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Sn	-	-	-	0.05 - 200 ppm	0.05 - 200 ppm
Sr	-	1 - 10,000 ppm	1 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Ta	-	-	-	0.05 - 50 ppm	0.05 - 50 ppm
Tb	-	-	-	0.1 - 100 ppm	0.1 - 100 ppm
Te	-	1 - 500 ppm	0.2 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Th	-	20 - 10,000 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm
Ti	-	0.01 - 10 %	0.001 - 10 %	0.001 - 10 %	0.01 - 10 %
Tl	-	2 - 10,000 ppm	0.1 - 500 ppm	0.02 - 500 ppm	0.02 - 500 ppm
Tm	-	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
U	-	10 - 10,000 ppm	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	-	1 - 10,000 ppm	2 - 1,000 ppm	1 - 1,000 ppm	1 - 1,000 ppm
W	-	10 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm
Y	-	1 - 1,000 ppm	-	0.01 - 500 ppm	0.01 - 500 ppm
Yb	-	-	-	0.1 - 200 ppm	0.1 - 200 ppm
Zn	1 - 10,000 ppm	2 - 10,000 ppm	1 - 5,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Zr	-	1 - 10,000 ppm	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Price:	\$12.25	\$14.25	\$17.75	\$24.00	\$26.25

Extraction of each element by Aqua Regia Digestion is dependent on mineralogy + Sulphide sulphur and soluble sulphates are extracted

4-Acid "Near Total" Digestion

This acid attack is the most vigorous digestion used in geochemistry. It will employ hydrochloric, nitric, perchloric and hydrofluoric acids. Even with this digestion, certain minerals (barite, gahnite, chromite, cassiterite, etc.) may only be partially dissolved or stable in solution. Other minerals including zircon, sphene and magnetite may not be totally dissolved. Most other silicates will be dissolved, however some elements will be erratically volatilized, including As, Sb, Cr, U and Au.

Near-Total digestion **cannot** be used to obtain accurate determinations of REE, Ta, Nb, As, Sb, Sn, Hg, Cr, Au and U.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Assays

Package	Code 8 - 4 Acid ICP-OES	Code 8 - 4 Acid ICP-MS
Aq	3 ppm	1 - 10,000 ppm
Bi	-	0.0001 - 1 %
Cd	0.003 %	0.0001 - 1 %
Co	0.003 %	0.0001 - 1 %
Cu	0.001 %	0.0001 - 1 %
Li	0.01 %	-
Mo	0.003 %	0.0001 - 1 %
Ni	0.003 %	0.0001 - 1 %
Pb	0.003 %	0.0001 - 1 %
Se	-	0.0001 - 1 %
Sn	-	0.0001 - 1 %
Tl	-	0.0001 - 1 %
U	-	0.0001 - 1 %
Zn	0.001 %	0.0001 - 1 %
One Element	\$14.75	\$17.00
Each Additional Element	\$2.25	\$2.25
All Elements	\$20.50	\$22.75

Package	ICP-OES	ICP-MS		ICP-OES + ICP-MS	
	1F2	UT-4M	Ultratrace 4	Ultratrace 6	ME-MS61
Ag	0.3 - 100 ppm	0.1 - 100 ppm	0.05 - 100 ppm	0.05 - 100 ppm	0.01 - 100 ppm
Al	0.01 - 50 %	0.01 - 20 %	0.01 - 10 %	0.01 - 10 %	0.01 - 50 %
As	3 - 5,000 ppm	1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.2 - 10,000 ppm
Au	-	100 - 2,000 ppb	-	-	-
B	-	-	20 - 6,000 ppm	-	-
Ba	7 - 1,000 ppm	1 - 10,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	10 - 10,000 ppm
Be	1 - 10,000 ppm	1 - 1,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.05 - 1,000 ppm
Bi	2 - 10,000 ppm	0.1 - 4,000 ppm	0.02 - 2,000 ppm	0.02 - 2,000 ppm	0.01 - 10,000 ppm
Ca	0.01 - 70 %	0.01 - 40 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Cd	0.3 - 2,000 ppm	0.1 - 4,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.02 - 1,000 ppm
Ce	-	1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.01 - 500 ppm
Co	1 - 10,000 ppm	0.2 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 10,000 ppm
Cr	1 - 10,000 ppm	1 - 10,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	1 - 10,000 ppm
Cs	-	0.1 - 10,000 ppm	0.05 - 100 ppm	0.05 - 100 ppm	0.05 - 500 ppm
Cu	1 - 10,000 ppm	0.1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Er	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
Eu	-	-	0.05 - 100 ppm	0.05 - 100 ppm	-
Fe	0.01 - 50 %	0.01 - 60 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Ga	1 - 10,000 ppm	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 10,000 ppm
Gd	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Ge	-	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 500 ppm
Hf	-	0.1 - 1,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 500 ppm
Hg	1	-	10 - 10,000 ppb	10 - 10,000 ppb	-
Ho	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
In	-	-	0.1 - 100 ppm	0.1 - 100 ppm	0.005 - 500 ppm
K	0.01 - 10 %	0.01 - 10 %	0.01 - 5 %	0.01 - 5 %	0.01 - 10 %
La	-	0.1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.5 - 10,000 ppm
Li	1 - 10,000 ppm	0.1 - 2,000 ppm	0.5 - 400 ppm	0.5 - 400 ppm	0.2 - 10,000 ppm
Lu	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Mg	0.01 - 50 %	0.01 - 30 %	0.01 - 50 %	0.01 - 50 %	0.01 - 50 %
Mn	1 - 100,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm	5 - 100,000 ppm
Mo	1 - 10,000 ppm	0.1 - 4,000 ppm	0.05 - 10,000 ppm	0.1 - 10,000 ppm	0.05 - 10,000 ppm
Na	0.01 - 10 %	0.001 - 10 %	0.01 - 3 %	0.01 - 3 %	0.01 - 10 %
Nb	-	0.1 - 2,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.1 - 500 ppm
Nd	-	-	0.1 - 10,000 ppm	0.1 - 10,000 ppm	-
Ni	1 - 10,000 ppm	0.1 - 10,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm	0.2 - 10,000 ppm
P	0.001 - 10 %	0.001 - 5 %	-	0.001 - 10 %	10 - 10,000 ppm
Pb	3 - 5,000 ppm	0.1 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 10,000 ppm
Pr	-	-	0.1 - 5,000 ppm	0.1 - 1,000 ppm	-
Rb	-	0.1 - 2,000 ppm	0.2 - 500 ppm	0.2 - 500 ppm	0.1 - 10,000 ppm
Re	-	-	0.001 - 100 ppm	0.001 - 100 ppm	0.002 - 50 ppm
S +	0.01 - 20 %	1 - 10 %	-	0.01 - 20 %	0.01 - 10 %
Sb	5 - 10,000 ppm	0.1 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 10,000 ppm
Sc	4 - 10,000 ppm	1 - 200 ppm	-	1 - 5,000 ppm	0.1 - 10,000 ppm
Se	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	1 - 1,000 ppm
Sm	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Sn	-	0.1 - 2,000 ppm	1 - 200 ppm	1 - 200 ppm	0.2 - 500 ppm
Sr	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 1,000 ppm	0.2 - 10,000 ppm
Ta	-	0.1 - 2,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.05 - 100 ppm
Tb	-	-	0.1 - 100 ppm	0.1 - 100 ppm	-
Te	2 - 10,000 ppm	-	0.1 - 500 ppm	0.1 - 500 ppm	0.05 - 500 ppm
Th	-	0.1 - 4,000 ppm	0.1 - 500 ppm	0.1 - 500 ppm	0.2 - 10,000 ppm
Ti	0.01 - 10 %	0.001 - 10 %	-	0.0005 - 10 %	0.005 - 10 %
Tl	5 - 10,000 ppm	0.05 - 10,000 ppm	0.05 - 500 ppm	0.05 - 500 ppm	0.02 - 10,000 ppm
Tm	-	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm	-
U	10 - 10,000 ppm	0.1 - 4,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	2 - 10,000 ppm	4 - 10,000 ppm	1 - 10,000 ppm	1 - 1,000 ppm	1 - 10,000 ppm
W	5 - 10,000 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 200 ppm	0.1 - 10,000 ppm
Y	1 - 1,000 ppm	0.1 - 2,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 500 ppm
Yb	-	-	0.1 - 5,000 ppm	0.1 - 5,000 ppm	-
Zn	1 - 10,000 ppm	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm	2 - 10,000 ppm
Zr	5 - 10,000 ppm	0.1 - 2,000 ppm	1 - 5,000 ppm	1 - 5,000 ppm	0.5 - 500 ppm
Price:	\$20.50	\$21.25	\$26.25	\$36.25	\$30.75

Extraction of each element by 4-Acid Digestion is dependent on mineralogy
+ Sulphide sulphur and soluble sulphates are extracted

Trace Element Geochemistry & Digestion Specific Assays

Peroxide "Total" Fusion

Peroxide Fusions: Sodium peroxide fusion will result in a total metal recovery. It is effective for the decomposition of sulphides and refractory minerals. For nickel sulphide deposits this is the preferred method. This method is not suitable if sodium is required. Code 8 4-Acid is recommended if sodium is required.



ICP-OES+ICP-MS	
Package	Ultratrace 7
Al	0.01 - 25 %
As	5 - 10,000 ppm
B	10 - 10,000 ppm
Ba	3 - 10,000 ppm
Be	3 - 5,000 ppm
Bi	2 - 5,000 ppm
Ca	0.01 - 40 %
Cd	2 - 5,000 ppm
Ce	0.8 - 5,000 ppm
Co	0.2 - 5,000 ppm
Cr	30 - 10,000 ppm
Cs	0.1 - 5,000 ppm
Cu	2 - 10,000 ppm
Dy	0.3 - 5,000 ppm
Er	0.1 - 5,000 ppm
Eu	0.1 - 1,000 ppm
Fe	0.05 - 30 %
Ga	0.2 - 5,000 ppm
Gd	0.1 - 5,000 ppm
Ge	0.7 - 5,000 ppm
Hf	10 - 5,000 ppm
Ho	0.2 - 1,000 ppm
In	0.2 - 1,000 ppm
K	0.1 - 25 %
La	0.4 - 10,000 ppm
Li	3 - 10,000 ppm
Mg	0.01 - 30 %
Mn	3 - 10,000 ppm
Mo	1 - 10,000 ppm
Nb	2.4 - 5,000 ppm
Nd	0.4 - 5,000 ppm
Ni	10 - 10,000 ppm
Pb	0.8 - 5,000 ppm
Pr	0.1 - 1,000 ppm
Rb	0.4 - 5,000 ppm
S +	0.01 - 25 %
Sb	2 - 5,000 ppm
Se	0.8 - 5,000 ppm
Si	0.01 - 30 %
Sm	0.1 - 1,000 ppm
Sn	0.5 - 10,000 ppm
Sr	3 - 10,000 ppm
Ta	0.2 - 10,000 ppm
Tb	0.1 - 1,000 ppm
Te	6 - 10,000 ppm
Th	0.1 - 1,000 ppm
Ti	0.01 - 25 %
Tl	0.1 - 1,000 ppm
Tm	0.1 - 1,000 ppm
U	0.1 - 10,000 ppm
V	5 - 10,000 ppm
W	0.7 - 5,000 ppm
Y	0.1 - 1,000 ppm
Yb	0.1 - 1,000 ppm
Zn	25 - 10,000 ppm
Price:	\$45.50

Assays

Package	ICP-OES	ICP-MS
	8-Peroxide ICP-OES	8-Peroxide ICPMS/ICP
Al	0.01 %	0.01 %
As	0.01 - 10 %	0.001 - 10 %
Be	0.001 %	0.001 %
Bi	-	0.001 %
Ca	0.01 %	0.01 %
Co	0.002 %	0.001 %
Cr	0.01 %	0.01 %
Cs	-	0.001 %
Cu	0.005 %	0.001 %
Fe	0.05 %	0.05 %
Ga	-	0.001 %
Ge	-	0.001 %
In	-	0.001 %
K	0.1 %	0.1 %
Li	0.01 %	0.001 %
Mg	0.01 %	0.01 %
Mn	0.01 %	0.01 %
Mo	-	0.001 %
Nb	-	0.001 %
Ni	0.005 %	0.001 %
Pb	0.01 %	0.001 %
Re	-	0.001 %
S	0.01 %	0.01 %
Sb	0.01 %	0.002 %
Se	-	0.001 %
Si	0.01 - 47 %	0.01 - 47 %
Sn	-	0.001 %
Ta	-	0.001 %
Te	-	0.001 %
Th	-	0.001 %
Ti	0.01 %	0.01 %
Tl	-	0.001 %
U	-	0.001 %
W	0.005 %	0.001 %
Zn	0.01 %	0.001 %
One Element	\$18.00	\$25.75
Each Additional Element	\$3.50	\$3.50
All Elements	\$28.25	\$36.25

Notes:

For concentrates, titration may be applicable. Please inquire.
For Code 8 - Peroxide ICP-OES - for As above 10%, analysis by INAA assay is recommended.

Hg add-on by cold vapour FIMS

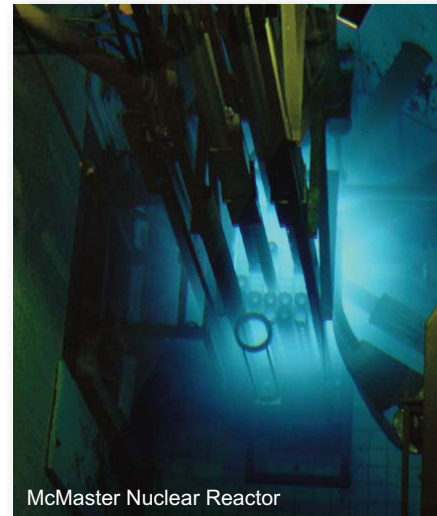
Code 1G (5 ppb) add \$10.25

Trace Element Geochemistry & Digestion Specific Assays

INAA

INAA							
1D		1D Enhanced		5B - Other Elements		5S - Short Lived Isotopes	
Ag	5 - 100,000 ppm	Ag	5 - 100,000 ppm	As	1 - 10,000 ppm	Al	1 - 100,000 ppm
As	2 - 10,000 ppm	As	0.5 - 10,000 ppm	Au	5 - 30,000 ppb	Br	5 - 10,000 ppm
Au	5 - 30,000 ppb	Au	2 - 30,000 ppb	Ba	100 - 100,000 ppm	Cl	100 - 100,000 ppm
Ba	100 - 500,000 ppm	Ba	50 - 500,000 ppm	Br	0.5 - 1,000 ppm	Cu	5 - 2,500 ppm
Br	1 - 1,000 ppm	Br	0.5 - 1,000 ppm	Ce	3 - 10,000 ppm	Dy	0.5 - 5,000 ppm
Ca	1 - 50 %	Ca	1 - 50 %	Co	0.5 - 10,000 ppm	Ga	5 - 10,000 ppm
Ce	3 - 10,000 ppm	Ce	3 - 10,000 ppm	Cr	1 - 100,000 ppm	I	0.5 - 5,000 ppm
Co	5 - 5,000 ppm	Co	1 - 5,000 ppm	Cs	0.5 - 10,000 ppm	In	0.1 - 5,000 ppm
Cr	10 - 100,000 ppm	Cr	5 - 100,000 ppm	Eu	0.2 - 2,000 ppm	Mg	0.05 - 50 %
Cs	2 - 10,000 ppm	Cs	1 - 10,000 ppm	Fe	0.01 - 75 %	Mn	0.1 - 10,000 ppm
Eu	0.2 - 2,000 ppm	Eu	0.2 - 2,000 ppm	Hf	0.5 - 500 ppm	Na	50 - 200,000 ppm
Fe	0.02 - 75 %	Fe	0.01 - 75 %	La	0.1 - 10,000 ppm	Re	1 - 5,000 ppm
Hf	1 - 500 ppm	Hf	1 - 500 ppm	Lu	0.05 - 1,000 ppm	Ti	50 - 100,000 ppm
Hg	1 - 1,000 ppm	Hg	1 - 1,000 ppm	Mo	2 - 10,000 ppm	V	0.1 - 10,000 ppm
Ir	5 - 10,000 ppb	Ir	5 - 10,000 ppb	Na	100 - 100,000 ppm	One Element	\$45.50
La	1 - 10,000 ppm	La	0.5 - 10,000 ppm	Nd	5 - 10,000 ppm	Each Additional Element	\$8.00
Lu	0.05 - 1,000 ppm	Lu	0.05 - 1,000 ppm	Rb	20 - 10,000 ppm		
Mo	5 - 10,000 ppm	Mo	1 - 10,000 ppm	Sb	0.1 - 10,000 ppm		
Na	0.05 - 10 %	Na	0.01 - 10 %	Sc	0.1 - 200 ppm		
Nd	5 - 10,000 ppm	Nd	5 - 10,000 ppm	Se	2 - 10,000 ppm		
Ni	50 - 10,000 ppm	Ni	20 - 10,000 ppm	Sm	0.01 - 10,000 ppm		
Rb	30 - 10,000 ppm	Rb	15 - 10,000 ppm	Ta	0.5 - 10,000 ppm		
Sb	0.2 - 10,000 ppm	Sb	0.1 - 10,000 ppm	Th	0.2 - 10,000 ppm		
Sc	0.1 - 200 ppm	Sc	0.1 - 200 ppm	U	0.1 - 10,000 ppm		
Se	5 - 10,000 ppm	Se	3 - 10,000 ppm	W	2 - 10,000 ppm		
Sm	0.1 - 10,000 ppm	Sm	0.1 - 10,000 ppm	Yb	0.2 - 1,000 ppm		
Sn	0.05 - 10 %	Sn	0.02 - 10 %				
Sr	0.1 - 40 %	Sr	0.05 - 40 %	One Element	\$22.50		
Ta	1 - 10,000 ppm	Ta	0.5 - 10,000 ppm	Each Additional Element	\$2.75		
Tb	0.5 - 1,000 ppm	Tb	0.5 - 1,000 ppm				
Th	0.5 - 10,000 ppm	Th	0.2 - 10,000 ppm				
U	0.5 - 10,000 ppm	U	0.5 - 10,000 ppm				
W	4 - 10,000 ppm	W	1 - 10,000 ppm				
Yb	0.2 - 1,000 ppm	Yb	0.2 - 1,000 ppm				
Zn	50 - 100,000 ppm	Zn	50 - 100,000 ppm				
Price:	\$24.00	Price:	\$27.25				

INAA: Instrumental Neutron Activation Analysis - Samples are encapsulated and irradiated in a nuclear reactor. After a suitable decay, samples are measured for the emitted gamma ray fingerprint. INAA is very good for Au, Co, As, Sb, W, Ta, U, Th, Cs, In, Re, Cl and lower levels of most LREE.



McMaster Nuclear Reactor

Pressed Pellet XRF

XRF	
4C1	
Ba	* 5 - 10,000 ppm
Co	** 5 - 1,000 ppm
Cr	** 5 - 10,000 ppm
Cu	** 5 - 2,500 ppm
Ga	* 5 - 10,000 ppm
Nb	* 1 - 10,000 ppm
Ni	** 4 - 4,000 ppm
Pb	** 5 - 1,000 ppm
Rb	* 2 - 10,000 ppm
Sn	5 - 10,000 ppm
Sr	* 2 - 10,000 ppm
V	** 5 - 10,000 ppm
Y	* 2 - 10,000 ppm
Zn	** 5 - 1,000 ppm
Zr	* 5 - 10,000 ppm
One Element	\$12.50
Each Additional Element	\$4.00
* lot	\$24.00
** lot	\$24.00



XRF

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

Trace Element Geochemistry & Digestion Specific Assays

Multi-Method Analyses

4-Acid "Near Total" Digestion + Total Determinations of Resistive Elements by INAA

Package	INAA+ICP-OES	INAA, ICP-OES, ICP-MS	INAA+ICP-MS
	1H	Ultratrace 3	Ultratrace 5
Ag	0.3 - 10,000 ppm	0.05 - 10,000 ppm	0.05 - 100,000 ppm
Al	0.01 -50 %	0.01 - 50 %	-
As	0.5 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 10,000 ppm
Au	2 - 30,000 ppb	2 - 30,000 ppb	2 - 30,000 ppb
Ba	50 - 500,000 ppm	1 - 100,000ppm	1 - 100,000 ppm
Be	1 - 10,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Bi	2 -10,000 ppm	0.02 - 10,000 ppm	0.02 - 2,000 ppm
Br	0.5 -5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Ca	0.01 - 70 %	0.01 - 70 %	0.01 - 50 %
Cd	0.3 - 2,000 ppm	0.1 - 2,000 ppm	0.1 - 1,000 ppm
Ce	3 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Co	1 - 5,000 ppm	1 - 5,000 ppm	0.1 - 5,000 ppm
Cr	2 - 100,000 ppm	1 - 10,000 ppm	1 - 100,000 ppm
Cs	1 - 10,000 ppm	0.05 - 5,000 ppm	0.05 - 5,000 ppm
Cu	1 - 10,000 ppm	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Dy	-	0.1 - 5000 ppm	0.1 - 5000 ppm
Er	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Eu	0.2 - 10,000 ppm	0.05 - 1,000 ppm	0.05 - 100 ppm
Fe	0.01 - 70 %	0.01 - 70 %	0.01 - 50 %
Ga	-	0.1 - 500 ppm	0.1 - 500 ppm
Gd	-	0.1 - 500 ppm	0.1 - 5,000 ppm
Ge	-	0.1 - 500 ppm	0.1 - 500 ppm
Hf	1 -5,000 ppm	0.1 - 5,000 ppm	1 - 5,000 ppm
Hg	1 - 10,000 ppm	10 - 10,000 ppb	10 - 10,000 ppb
Ho	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
In	-	0.1 - 100 ppm	0.1 - 100 ppm
Ir	5 - 10,000 ppb	5 - 10,000 ppb	-
K	0.01 - 10 %	0.01 - 10 %	0.01 - 5 %
La	0.5 - 10,000 ppm	0.5 - 10,000 ppm	0.1 - 10,000 ppm
Li	1 - 10,000 ppm	0.5 - 10,000 ppm	0.5 - 400 ppm
Lu	0.05 - 10,000 ppm	0.1 - 100 ppm	0.1 - 100 ppm
Mg	0.01 - 50 %	0.01 - 50 %	0.01 - 10 %
Mn	1 - 100,000 ppm	1 - 100,000 ppm	1 - 10,000 ppm
Mo	1 - 10,000 ppm	0.2 - 10,000 ppm	0.05 - 10,000 ppm
Na	0.01 - 50 %	0.01 - 20 %	0.01 - 20 %
Nb	-	0.1 - 500 ppm	0.1 - 500 ppm
Nd	5 - 10,000 ppm	0.01 - 10,000 ppm	0.1 - 10,000 ppm
Ni	1 - 100,000 ppm	0.5 - 100,000 ppm	0.5 - 100,000 ppm
P	0.001 - 10 %	0.001 - 10 %	-
Pb	3 - 5,000 ppm	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Pr	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Rb	15 -10,000 ppm	0.2 - 5,000 ppm	0.2 - 5,000 ppm
Re	-	0.001 - 100 ppm	0.001 - 100 ppm
S +	0.01 - 20 %	0.01 - 20 %	-
Sb	0.1 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sc	0.1 - 1,000 ppm	0.1 - 1,000 ppm	0.1 - 1,000 ppm
Se	3 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Sm	0.1 - 10,000 ppm	0.1 - 100 ppm	0.1 - 100 ppm
Sn	0.02 - 20 %	1 - 200 ppm	1 - 200 ppm
Sr	1 - 10,000 ppm	0.2 - 1,000 ppm	0.2 - 1,000 ppm
Ta	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Tb	0.5 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 100 ppm
Te	-	0.02 - 500 ppm	0.1 - 500 ppm
Th	0.2 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
Ti	0.01 - 10 %	0.01 - 10 %	-
Tl	-	0.05 - 500 ppm	0.05 - 500 ppm
Tm	-	0.1 - 1,000 ppm	0.1 - 1,000 ppm
U	0.5 - 10,000 ppm	0.1 - 10,000 ppm	0.1 - 10,000 ppm
V	2 - 10,000 ppm	2 - 10,000 ppm	1 - 1,000 ppm
W	1 - 10,000 ppm	1 - 10,000 ppm	1 - 10,000 ppm
Y	1 - 1,000 ppm	0.01 - 10,000 ppm	0.1 - 10,000 ppm
Yb	0.2 - 10,000 ppm	0.1 - 5,000 ppm	0.1 - 5,000 ppm
Zn	1 - 100,000 ppm	0.5 - 100,000 ppm	0.5 - 100,000 ppm
Zr	-	1 - 5,000 ppm	1 - 5,000 ppm
Price:	\$34.00	\$51.25	\$38.50

Extraction of each element by 4-Acid Digestion is dependent on mineralogy + Sulphide sulphur and soluble sulphates are extracted

Aqua Regia "Partial" Digestion + Total Determinations of Resistive Elements by INAA

Geochemical Exploration for Epithermal Deposits

Package	INAA+ICP-OES	INAA, ICP-OES, ICP-MS
	Code 1EPI	Code 1EPI/MS
Ag	0.2 - 10,000 ppm	0.2 - 10,000 ppm
As	2 - 10,000 ppm	2 - 10,000 ppm
Au	5 - 30,000 ppb	5 - 30,000 ppb
Ba	50 - 100,000 ppm	100 - 100,000 ppm
Bi	-	0.1 - 1,000 ppm
Ca	-	0.01 - 50 %
Cd	0.5 - 5,000 ppm	0.5 - 5,000 ppm
Cs	-	2 - 10,000 ppm
Cu	1 - 10,000 ppm	1 - 10,000 ppm
Fe	0.02 - 75%	0.02 - 75 %
Ga	-	1 - 10,000 ppm
Ge	-	0.1 - 1,000 ppm
Hg	1 - 10,000 ppm	0.01 - 1,000 ppm
K	-	0.01 - 20 %
Mn	2 - 20,000 ppm	2 - 20,000 ppm
Mo	2 - 10,000 ppm	2 - 10,000 ppm
Na	-	0.01 - 50 %
Ni	1 - 10,000 ppm	1 - 10,000 ppm
Pb	2 - 5,000 ppm	2 - 5,000 ppm
S +	0.001 - 20 %	0.001 - 20 %
Sb	0.2 - 10,000 ppm	0.2 - 10,000 ppm
Se	-	0.1 - 1,000 ppm
Te	-	0.1 - 1,000 ppm
Tl	-	0.1 - 1,000 ppm
W	4 - 10,000 ppm	4 - 10,000 ppm
Zn	1 - 10,000 ppm	1 - 10,000 ppm
Price:	\$27.50	\$37.50

Extraction of each element by Aqua Regia is dependent on mineralogy

Bold elements are reported by INAA (total elements)

Hg add-on by cold vapour FIMS

Code 1G (5 ppb) add \$10.25

ICP-OES and ICP-MS analyses by 4-acid (hydrochloric, nitric, perchloric and hydrofluoric) digestion are "near total" digestions. INAA analysis yields total metals.

NOTE: Results from acid digestions may be lab dependent or lab operator dependent. Actlabs has automated this aspect of digestion using a microprocessor designed hotbox to accurately reproduce digestion conditions every time.



Bullion

Element	Range	Method	Price
Au	0.1 - 99.99 %	Au-fire assay – Gravimetric finish	\$136.25



Concentrates

Code Conc

Analysis of mine concentrates is a critical step for purchase and sale of commodities as well as optimizing recoveries. Control Assays require the highest degree of accuracy and precision.

Element	Range	Method	Price
Ag	0.1 - 99.99 %	Ag- fire assay – Gravimetric finish	\$128.75
Cu	0.5 - 100%	Cu by Titration	\$139.50
Zn	0.5 - 100%	Zn by Titration	\$139.50
Pb	0.5 - 100%	Pb by Titration	\$139.50
Fe	10 - 100%	Total Fe in Concentrate By Titration	\$139.50
U	10 - 100%	U by Titration	\$117.75

Prices are for normal turnaround time of 2 - 3 weeks. Expedited turnaround time as low as 1 day can be achieved at an additional cost.

Assay Products for Miscellaneous Metals

Code 8 - Assay Products

Assays provide quantitative determinations of elements in non-processed geological materials. Assays are usually required only when the client knows or suspects higher levels of metals in samples. Geochemical methods generally provide lower detection limits than assays. For lower levels, geochemical methods should be used. All assays are traceable to international reference standards. Prices listed in our fee schedule are for normal geologic materials and are not for metallurgical products. Metallurgical products such as heads and concentrates are handled separately to prevent contamination in the laboratory. These materials are charged at three times the prices listed in our fee schedule.

Element	Price
Alumina - Al ₂ O ₃	\$22.75
Antimony - Sb	\$22.75
Arsenic - As	\$22.75
Barium (Instrumental) - Ba	\$22.75
Barium (Gravimetric) - Ba	\$31.75
Beryllium - Be	\$22.75
Bismuth - Bi	\$22.75
Boron - B	\$22.75
Bromine - Br	\$22.75
Cadmium - Cd	\$22.75
Calcium (oxide) - CaO	\$22.75
Cerium - Ce	\$22.75
Chlorine - Cl	\$28.50
Chromium - Cr	\$22.75
Cobalt - Co	\$14.75
Copper (total) - Cu	\$14.75
Copper (CN soluble)	\$12.50
Copper (Acid soluble)	\$12.50
Copper (Ferric sulfate soluble)	\$12.50
Copper (Sequential Oxide Analysis)	\$45.50
Fluorine - F	\$22.75
Gold - Au	See Code 1A3, p. 7
Gold-Silver (Au-Ag)	See Code 1A3-Ag, p. 7
Gallium - Ga	\$22.75
Germanium - Ge	\$22.75
Insolubles	\$22.75
Iron (oxide) - Fe ₂ O ₃	\$19.50
Lanthanum - La	\$19.50
Lead (total) - Pb	\$14.75
Lead (oxide) - PbO	\$26.25
Lithium - Li	\$17.00
Loss on ignition - LOI	\$11.50
Mercury - Hg	\$20.50
Manganese (oxide) - MnO	\$20.50

Element	Price
Magnesium (oxide) - MgO	\$20.50
Moisture - H ₂ O	\$11.50
Molybdenum (total) - Mo	\$14.75
Molybdenum (oxide)	\$26.25
Molybdenum (sulfide)	\$26.25
Nickel - Ni	\$14.75
Nickel - Ni Sulphide	\$26.25
Niobium - Nb	\$20.50
Phosphorous (oxide) - P ₂ O ₅	\$20.50
Platinum-Palladium-Gold (Pt-Pd-Au)	\$51.25
Potassium (oxide) - K ₂ O	\$20.50
Rhenium - Re (Mo concentrates)	\$45.50
Rhodium - Rh	See Code 1C-Rh, p. 7
Selenium - Se	\$22.75
Silicon (oxide) - SiO ₂	\$20.50
Silver - Ag	\$24.25
Sodium (oxide) - Na ₂ O	\$20.50
Specific Gravity - S.G.	\$17.00
Specific Gravity (wax encapsulation)	\$22.75
Strontium - Sr	\$20.50
Sulfur (Infrared)	\$19.50
Sulfur (Gravimetric) - S	\$31.75
Sulfate - SO ₄	\$26.25
Tantalum - Ta	\$20.50
Tellurium - Te	\$20.50
Thallium - Tl	\$20.50
Thorium - Th	\$20.50
Tin - Sn	\$20.50
Titanium (oxide) - TiO ₂	\$20.50
Tungsten (oxide) - WO ₃	\$20.50
Uranium (oxide) - U ₃ O ₈	\$26.25
Vanadium (oxide) - V ₂ O ₅	\$20.50
Zinc (total) - Zn	\$14.75

Litho geochemistry and Whole Rock Analysis

Litho geochemistry

When submitting pulp material it must be 95% -74 µm or additional pulverization charges will apply.

The most aggressive fusion technique employs a lithium metaborate/tetraborate fusion. Fusion is performed by a robot at Actlabs, which provides a fast fusion of the highest quality in the industry. The resulting molten bead is rapidly digested in a weak nitric acid solution. The fusion ensures that the entire sample is dissolved. It is only with this attack that major oxides including SiO₂, refractory minerals (i.e. zircon, sphene, monazite, chromite, gahnite, etc.), REE and other high field strength elements are put into solution. High sulphide-bearing rocks may require different treatment but can still be adequately analyzed. Analysis is by ICP-OES and ICP-MS. Quality of data is exceptional and can be used for the most exacting applications. Values on replicates and standards are provided at no cost, as are REE chondrite plots. Eu determinations are semiquantitative in samples having extremely high Ba concentrations (> 5 %).

Mineralized Samples: Although intended primarily for unmineralized samples, mineralized samples can be analyzed. However, data may be semiquantitative for chalcophile elements (Ag, As, Bi, Co, Cu, Mo, Ni, Pb, Sb, Sn, W and Zn). For quantitative chalcophile data see **Quant** add-ons below.

Code 4B ICP-OES Whole Rock Package: Whole rock data which meets or exceeds quality of data by fusion XRF. 3 g required.

Code 4B2 Trace Element ICP-MS package: The trace element package by ICP-MS, Codes 4B2-STD or 4B2-RESEARCH, on the fusion solution provides research quality data whether using standard or research detection limits. 0.5 g required.

Research designation: indicates lower detection limits.

Code 4Litho and Code 4Lithoresearch: The 4B and 4B2 packages are combined. 5 g required.

Quant designation: For quantitative values of chalcophile elements a surcharge will apply. A minimum sample weight of 5 g is required.

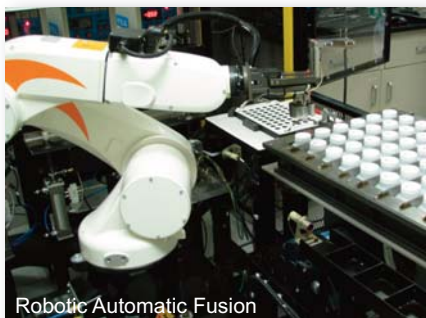
(+) Code 4B1: Optional elements by multiacid digestion. Please add 0.5 g.

(++) Code 4B-INAA: Optional elements are available by INAA. Please add 0.5 to 30 g depending on sample size you prefer to analyze for Au with this option.

All elements are in ppm except where noted. Prices per sample.

Add-ons:

4B1	\$11.00	surcharge
4B-INAA	\$19.75	surcharge
QUANT	\$21.25	surcharge



	WRA-ICP 4B	Trace element 4B2-std	WRA+ICP 4Litho	Trace element 4B2 -research	WRA+Trace 4 Lithoresearch
Al ₂ O ₃	0.01%		0.01%		0.01%
CaO	0.01%		0.01%		0.01%
Fe ₂ O ₃	0.01%		0.01%		0.01%
K ₂ O	0.01%		0.01%		0.01%
MgO	0.01%		0.01%		0.01%
MnO	0.001%		0.001%		0.001%
Na ₂ O	0.01%		0.01%		0.01%
P ₂ O ₅	0.01%		0.01%		0.01%
SiO ₂	0.01%		0.01%		0.01%
TiO ₂	0.001%		0.001%		0.001%
LOI	0.01%		0.01%		0.01%
Ag	(0.3+)	0.5	0.5	0.5	0.5
As	(0.5++)	5 (0.5++)	5 (0.5++)	5 (0.5++)	5 (0.5++)
Au	(2 ppb++)	(2 ppb++)	(2 ppb++)	(2 ppb++)	(2 ppb++)
Ba	2	3	2	3	3
Be	1		1		1
Bi		0.4	0.4	0.1	0.1
Br	(0.5++)	(0.5++)	(0.5++)	(0.5++)	(0.5++)
Cd	(0.5+)	(0.5+)	(0.5+)	(0.5+)	(0.5+)
Co	(1++)	1	1	1	1
Cr	(5++)	20 (5++)	20 (5++)	20 (5++)	20 (5++)
Cs	(1++)	0.5	0.5	0.1	0.1
Cu	(1+)	10 (1+)	10 (1+)	10 (1+)	10 (1+)
Fe		(0.01%++)		(0.01%++)	
Ga		1	1	1	1
Ge		1	1	0.5	0.5
Hf	(1++)	0.2	0.2	0.1	0.1
In		0.2	0.2	0.1	0.1
Ir	(5 ppb++)	(5 ppb++)	(5 ppb++)	(5 ppb++)	(5 ppb++)
Mo	(5++)	2	2	2	2
Na		(0.01%++)		(0.01%++)	
Nb		1	1	0.2	0.2
Ni	(1+)	20 (1+)	20 (1+)	20 (1+)	20 (1+)
Pb	(5+)	5	5	5	5
Rb	(20++)	2	2	1	1
S	(100+)	(100+)	(100+)	(100+)	(100+)
Sb	(0.2++)	0.5 (0.2++)	0.5 (0.2++)	0.2	0.2
Sc	1	(0.1++)	1 (0.1++)	(0.1++)	1 (0.1++)
Se	(3++)	(3++)	(3++)	(3++)	(3++)
Sn		1	1	1	1
Sr	1	2	2	2	2
Ta	(0.5++)	0.1	0.1	0.01	0.01
Th	(0.2++)	0.1	0.1	0.05	0.05
Tl		0.1	0.1	0.05	0.05
U	(0.5++)	0.1	0.1	0.01	0.01
V	5	5	5	5	5
W	(1++)	1	1	0.5	0.5
Y	1	1	1	0.5	0.5
Zn	(1+)	30 (1+)	30 (1+)	30 (1+)	30 (1+)
Zr	2	5	2	1	1
La	(0.5++)	0.1	0.1	0.05	0.05
Ce	(3++)	0.1	0.1	0.05	0.05
Pr		0.05	0.05	0.01	0.01
Nd	(5++)	0.1	0.1	0.05	0.05
Sm	(0.1++)	0.1	0.1	0.01	0.01
Eu	(0.2++)	0.05	0.05	0.005	0.005
Gd		0.1	0.1	0.01	0.01
Tb	(0.5++)	0.1	0.1	0.01	0.01
Dy		0.1	0.1	0.01	0.01
Ho		0.1	0.1	0.01	0.01
Er		0.1	0.1	0.01	0.01
Tm		0.05	0.05	0.005	0.005
Yb	(0.2++)	0.1	0.1	0.01	0.01
Lu	(0.05++)	0.01	0.01	0.002	0.002
1 - 10 samples	\$43.00	\$62.50	\$88.50	\$102.00	\$125.00
11 + samples	\$36.25	\$56.75	\$73.75	\$85.00	\$102.00

Litho geochemistry and Whole Rock Analysis

When submitting pulp material it must be 95% -74 µm or additional pulverization charges will apply.

	INAA 4A-research	WRA-XRF 4C	Total IDENT 4E-expl.	Total IDENT 4E-research
Al ₂ O ₃		0.01%	0.01%	0.01%
CaO		0.01%	0.01%	0.01%
Cr ₂ O ₃		0.01%		
Co ₃ O ₄		0.005%		
CuO		0.005%		
Fe ₂ O ₃		0.01%	0.01%	0.01%
K ₂ O		0.01%	0.01%	0.01%
MgO		0.01%	0.01%	0.01%
MnO		0.001%	0.01%	0.01%
Na ₂ O		0.01%	0.01%	0.01%
NiO		0.003%		
P ₂ O ₅		0.01%	0.01%	0.01%
SiO ₂		0.01%	0.01%	0.01%
TiO ₂		0.01%	0.005%	0.005%
V ₂ O ₅		0.003%		
LOI		0.01%	0.01%	0.01%
Ag	2		0.5	0.5
As	1		2	1
Au	2 ppb		5 ppb	1 ppb
Ba	20		3	1
Be			1	1
Bi			2	2 (0.1 ††)
Br	0.5		1	0.5
Ca	0.2%			
Cd			0.5	0.5
Co	0.1		1	0.1
Cr	0.5		1	0.5
Cs	0.2		0.5	0.2 (0.1 ††)
Cu			1	1
Fe	0.01%			
Ga			(5 †)	(5 †) (1 ††)
Ge				(0.5 ††)
Hf	0.2		0.5	0.2 (0.1 ††)
In				(0.1 ††)
Ir	2 ppb		2	2
Mo	2		5	2
Na	0.001%			
Nb			(1 †)	(1 †) (0.2 ††)
Ni	50		1	1
Pb			(5 †)	(5 †)
Rb	10		20 (2 †)	10 (2 †) (1 ††)
S			0.001%	0.001%
Sb	0.1		0.2	0.1
Sc	0.01		0.1	0.01
Se	0.5		3	0.5
Sn			(5 †)	(5 †) (1 ††)
Sr	100		2	2
Ta	0.3		1	0.3 (0.01 ††)
Th	0.1		0.5	0.1 (0.05 ††)
Tl				(0.05 ††)
U	0.1		0.5	0.1 (0.01 ††)
V			5	5
W	1		3	1
Y			1	1
Zn	10		2	2
Zr			4	4 (1 ††)
La	0.05		0.5	0.05
Ce	1		3	1 (0.05 ††)
Pr	(0.01 †)			(0.01 ††)
Nd	1		5	1 (0.05 ††)
Sm	0.01		0.1	0.01
Eu	0.05		0.1	0.05 (0.005 ††)
Gd	(0.01 †)			(0.01 ††)
Tb	0.1		0.5	0.1 (0.01 ††)
Dy	(0.01 †)			(0.01 ††)
Ho	(0.01 †)			(0.01 ††)
Er	(0.01 †)			(0.01 ††)
Tm	(0.01 †)			(0.005 ††)
Yb	0.05		0.1	0.05 (0.01 ††)
Lu	0.01		0.05	0.01 (0.002 ††)
1 - 10 samples	\$78.25	\$45.50	\$62.50	\$136.25
11 + samples	\$73.75	\$38.50	\$56.75	\$125.00

Research designation: indicates lower detection limits.

Code 4A-research: Grades are determined by INAA. A minimum sample weight of 2 g is recommended. REE chondrite plots are provided at no charge.

Code 4A RES-MS: elements indicated by † are analyzed by fusion ICP-MS.

Code 4C: The tried and true fusion XRF whole rock package. Samples containing high barite or high sulphide (greater than 1%) should be analyzed with Code 4B. A minimum sample weight of 3 g is required. We reserve the right to change analytical method to Code 4B if required by the sample composition.

Code 4E: This package uses ICP and INAA technologies to completely characterize geological samples. This package is not suitable for analyzing concentrates or mill products. A minimum sample weight of 5 g is required.

Code 4E Options

• † **Code 4E-XRF** elements Ga, Pb, Sn, Nb and Rb are examined by Pressed Pellet XRF. This package can be added to Code 4E exploration or Code 4E research (please add 6 g of sample).

• †† **Code 4E ICP-MS** add-on option: can only be added to Code 4E research grade.

Code 4F: Other analyses associated with WRA (can be added to any Code 4 package). Add 1 gram for each option chosen (see below).

All elements are in ppm except where noted. Prices per sample.

Add-ons:

Code 4E-XRF	\$24.00	surcharge
Code 4E ICP-MS	\$39.50	surcharge

Carbon & Sulphur Analyses

4F - C-Total (0.01%) by IR	\$19.50
4F - C-Organic (0.02%) (non-carbonate carbon)	\$35.00
4F - C-Organic (0.5%) by IR (calc)	\$57.50
4F - C-Graphitic (0.05%) by IR	\$28.25
4F - C,S (0.01%) by IR	\$22.75
4F - S (0.01%) by IR	\$19.50
4F - Sulphide	\$26.25
4F - SO ₄ (0.3%) by IR	\$26.25
4F - CO ₂ (0.01%) by IR	\$19.50

Code 5G - Carbon & Sulphur/Metallurgical Balance Package

Element	Detection Limit	Price: \$96.50/sample
C-Total	0.01%	
C-Graphitic	0.05%	
C-Organic	0.5%	
CO ₂	0.01%	
S	0.01%	
SO ₄	0.3%	

Miscellaneous Analyses

4F - Cl (0.01%) by INAA	\$28.25
4F - B (2 ppm) by PGNA	\$42.00
4F - B (0.5 ppm) by PGNA	\$52.50
4F - F (0.01%) by ISE	\$22.75
4F - N (Total)	\$45.75
4F - Hg by Cold Vapour FIMS	\$10.25
4F - FeO (0.1%) by Titration	\$19.50
4F - H ₂ O +/- (0.1%) IR or Gravimetric	\$26.25

APPENDIX – VI

Diamond Drill Plans and Sections



153863

318099

194411

245358

COTTE

193517










133417

WL-2018-022
EOH: 150 m

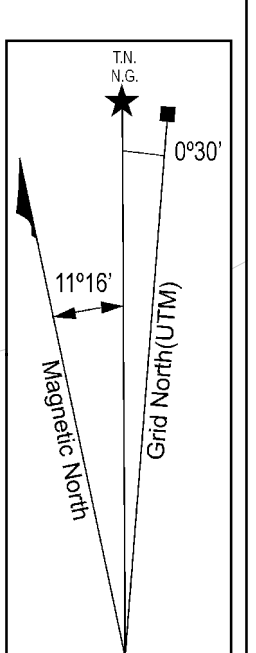
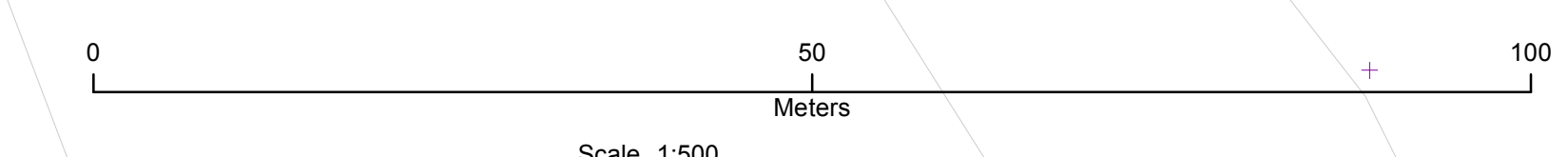
WL-2018-023
EOH: 117 m


WL-2018-023
Az: 265°
Dip: -65°

WL-2018-022
Az: 260°
Dip: -68°

- Legend**
-  Diamond drill hole collar location
 -  Diamond drill hole horizontal trace projection
 -  mining claim boundary
 -  township boundary
 -  hydro electric line
 -  wetlands
 -  lakes
 -  streams
 -  elevation contours

Holes WL-2018-022 and WL-2018-023 are covered by permit #PR-16-11008




Wire Lake Property
Kekeeway Showing Area
2018 Diamond Drill Hole Plan
 Date: December, 2018 File: w2018_kekeeway_dhh_plan
 Projection: NAD83 Zone 16N

WEST

EAST

557700

557750

557800

SURFACE

WL-2018-022
557795mE, 5403889mN
Azimuth: 260°, Dip -45°
Elevation: 327.8m ASL

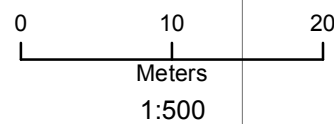
WL-2018-023
557795mE, 5403889mN
Azimuth: 265°, Dip -65°
Elevation: 327.8m ASL

Claim #133417

ROCKTYPE	LONGDESC
1	Mafic Volcanics
1A	Altered Mafic Volcanic
1M	Silicified and mineralized mafic volc.
2	Gabbro
4	Interflow sediments
5A	Mafic Dyke
5B	Intermediate Biotitic Intrusive
6	Fault, Shear Zone
8	Felsic dyke
12	Lamprophere
CAS	Casing
MON	Monzonite
MZ	Mineralized Zone >1% Py, Po
QTZ	Quartz Vein
QVZ	Quartz Veined Zone
SG	Super G Vein

WL-2018-022
EOH: 150.0m

WL-2018-023
EOH: 117.0m



Holes WL-2018-022 and WL-2018-023
are covered by permit #PR-16-11008

**Wire Lake Property
Kekeeway Area**
Diamond Drill Hole Section 5403889 North
Looking North, 70m Section Width

Date: December, 2019 File: SEC22-23_wl2018

By: TS Projection: NAD 1983 UTM Zone 16N

557700

557750

557800

300

300

250

250



LORNA
LAKE
AREA

342785

251050

193476

COTTE

WL-2018-025
EOH: 120 m










WL-2018-025
Az: 260°
Dip: -60°

WL-2018-024
Az: 260°
Dip: -45°

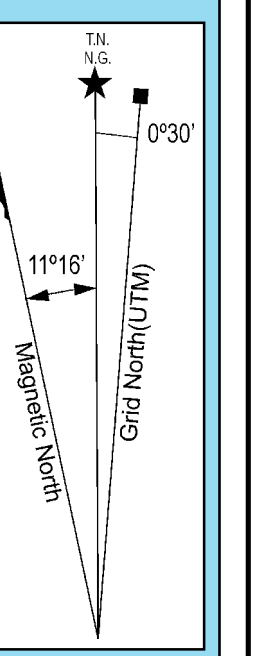
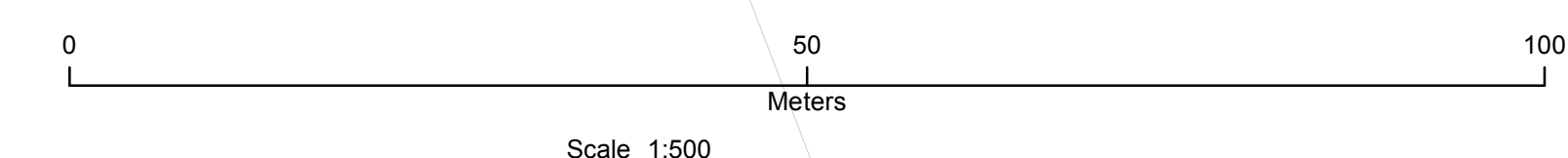
246023


WL-2018-024
EOH: 201 m

Legend

-  Diamond drill hole collar location
-  Diamond drill hole horizontal trace projection
-  mining claim boundary
-  township boundary
-  hydro electric line
-  wetlands
-  lakes
-  streams
-  elevation contours

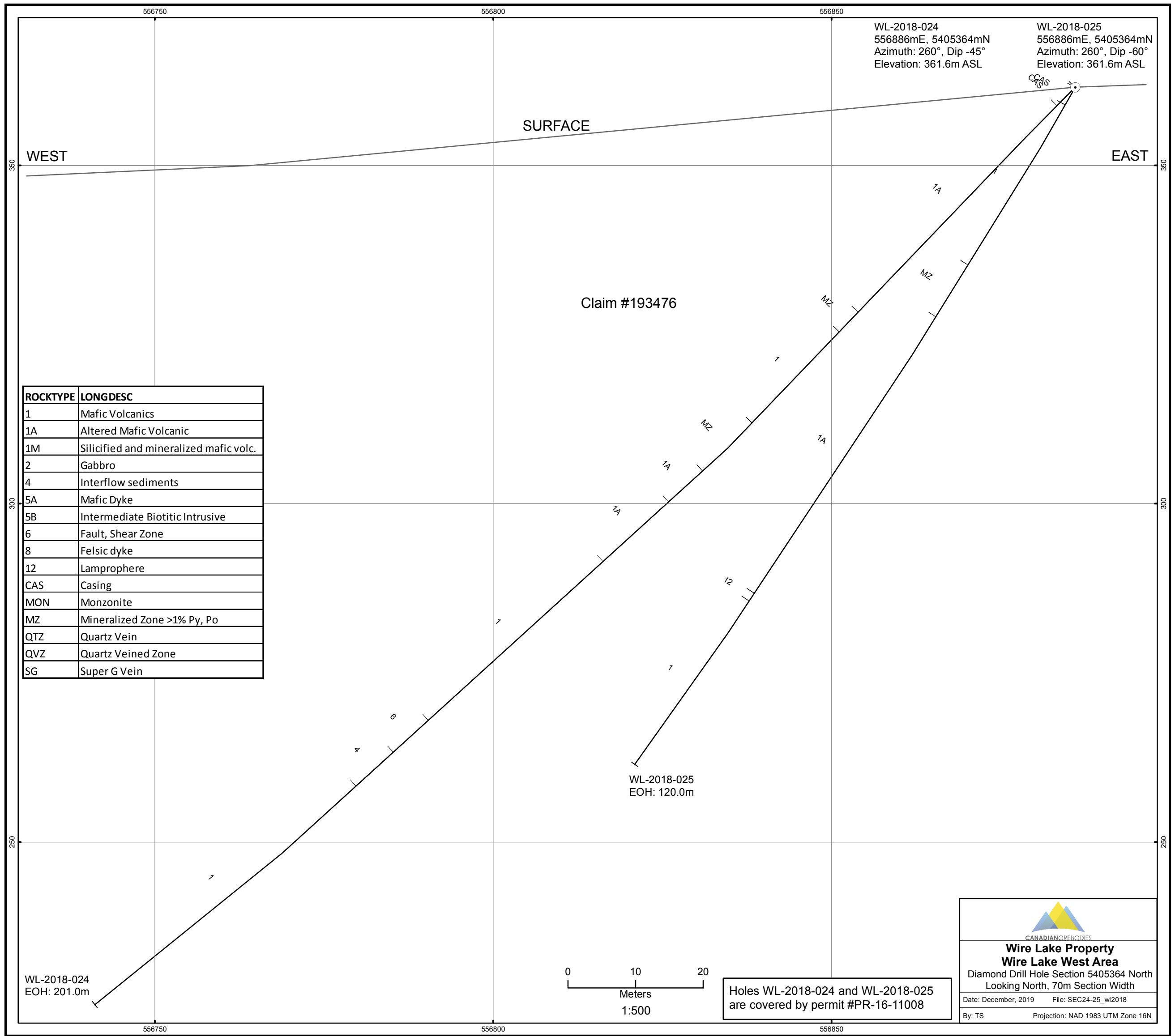
Holes WL-2018-024 and WL-2018-025
are covered by permit #PR-16-11008




CANADIAN ORE BODIES

Wire Lake Property
Wire Lake West IP Anomaly Area
2018 Diamond Drill Hole Plan

Date: December, 2018 File: w2018_wire_lk_west_dhh_pin
Projection: NAD83 Zone 16N



WL-2018-024
 556886mE, 5405364mN
 Azimuth: 260°, Dip -45°
 Elevation: 361.6m ASL

WL-2018-025
 556886mE, 5405364mN
 Azimuth: 260°, Dip -60°
 Elevation: 361.6m ASL

WEST

EAST

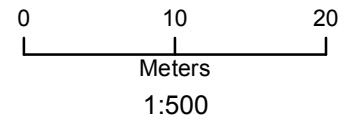
SURFACE

Claim #193476

ROCKTYPE	LONGDESC
1	Mafic Volcanics
1A	Altered Mafic Volcanic
1M	Silicified and mineralized mafic volc.
2	Gabbro
4	Interflow sediments
5A	Mafic Dyke
5B	Intermediate Biotitic Intrusive
6	Fault, Shear Zone
8	Felsic dyke
12	Lamprophre
CAS	Casing
MON	Monzonite
MZ	Mineralized Zone >1% Py, Po
QTZ	Quartz Vein
QVZ	Quartz Veined Zone
SG	Super G Vein

WL-2018-024
 EOH: 201.0m

WL-2018-025
 EOH: 120.0m



Holes WL-2018-024 and WL-2018-025
 are covered by permit #PR-16-11008

Wire Lake Property
Wire Lake West Area
 Diamond Drill Hole Section 5405364 North
 Looking North, 70m Section Width

Date: December, 2019 File: SEC24-25_wl2018
 By: TS Projection: NAD 1983 UTM Zone 16N



209654

294100








WL-2018-026
EOH: 390 m

LORNA
LAKE AREA

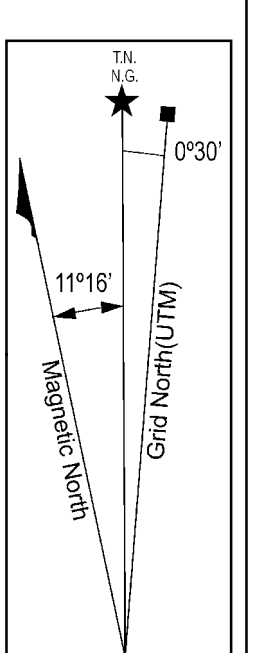
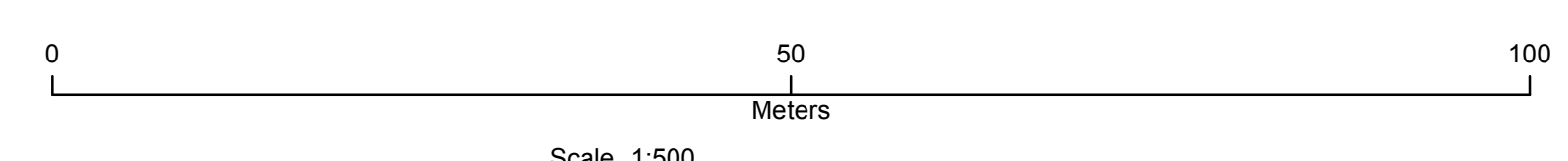
WL-2018-026
Az: 260°
Dip: -68°

251050

344992

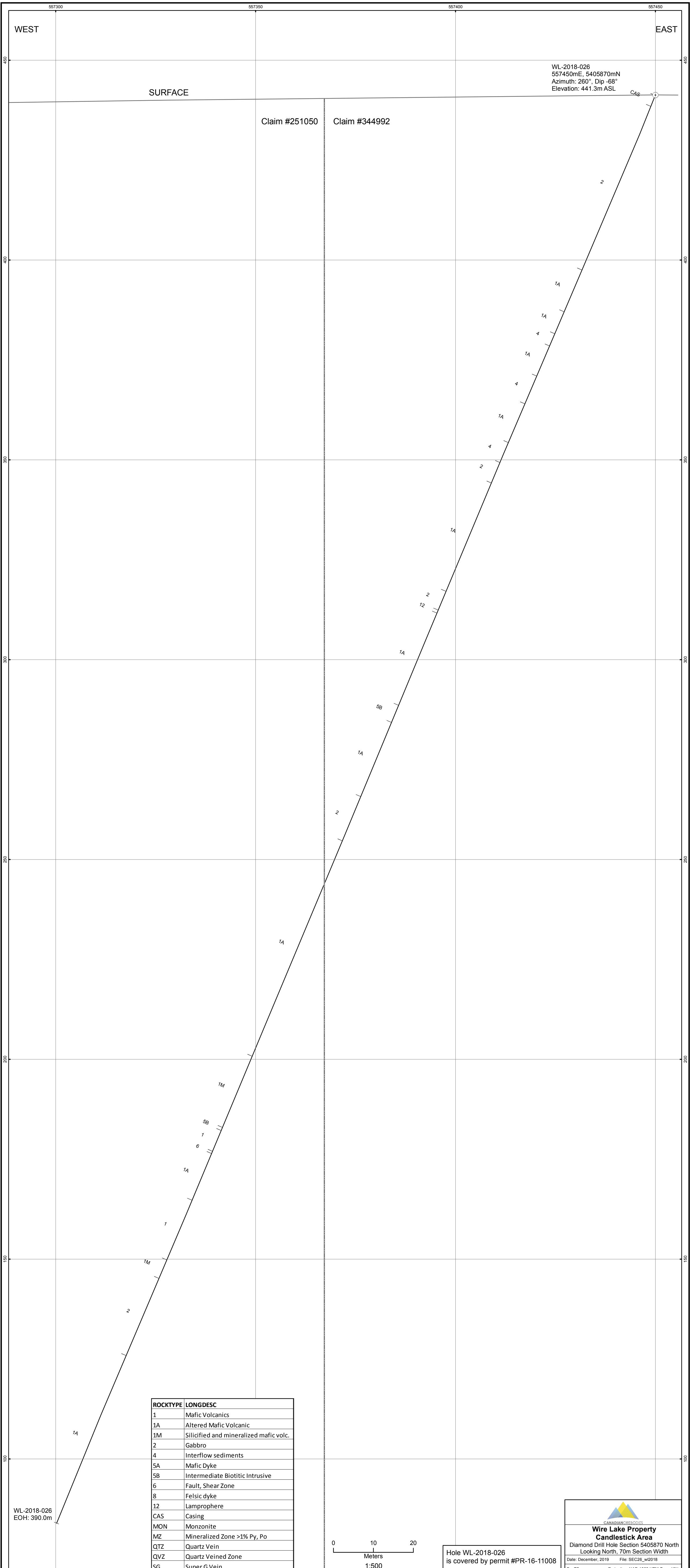
- Legend**
-  Diamond drill hole collar location
 -  Diamond drill hole horizontal trace projection
 -  mining claim boundary
 -  township boundary
 -  hydro electric line
 -  wetlands
 -  lakes
 -  streams
 -  elevation contours

Hole WL-2018-026
is covered by permit #PR-16-11008



**Wire Lake Property
Candlestick Area
2018 Diamond Drill Hole Plan**

Date: December, 2018 File: wl2018_candlestick_dhh_plan
Projection: NAD83 Zone 16N



WL-2018-026
 557450mE, 5405870mN
 Azimuth: 260°, Dip -68°
 Elevation: 441.3m ASL

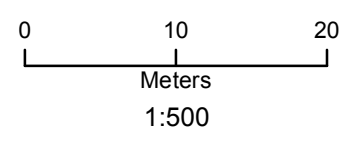
SURFACE

Claim #251050


Claim #344992

WL-2018-026
 EOH: 390.0m

ROCKTYPE	LONGDESC
1	Mafic Volcanics
1A	Altered Mafic Volcanic
1M	Silicified and mineralized mafic volc.
2	Gabbro
4	Interflow sediments
5A	Mafic Dyke
5B	Intermediate Biotitic Intrusive
6	Fault, Shear Zone
8	Felsic dyke
12	Lamprophere
CAS	Casing
MON	Monzonite
MZ	Mineralized Zone >1% Py, Po
QTZ	Quartz Vein
QVZ	Quartz Veined Zone
SG	Super G Vein



Hole WL-2018-026
 is covered by permit #PR-16-11008


**Wire Lake Property
 Candlestick Area**
 Diamond Drill Hole Section 5405870 North
 Looking North, 70m Section Width
 Date: December, 2019 File: SEC26_wl2018
 By: TS Projection: NAD 1983 UTM Zone 16N