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Report on the

Dargavel Gold Trend

2020 Diamond Drill Program

Dargavel Township, Porcupine Mining Division,

Northeastern Ontario

NTS 42A14, 42A13, 42H03, 42H04

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Summary

Noble Mineral Exploration ("Noble") completed a six-hole (and one abandoned hole) diamond drill program totaling 1390.5 meters from September 25th to October 30th, 2020 in the Dargavel Township area of the Project 81 ("P81") Property near Timmins, Ontario, Canada. The goal of the program was to test five geological and geophysical targets based on 2D and 3D geological interpretation and a 2020 airborne magnetic survey, as well as follow up on historical drillholes that intercepted anomalous gold values (0.9 g/t Au over 7.2m in hole 25013 and 2.4 g/t Au over 7.8m in hole K84-3).

Highlights from the 2020 drill program include 0.73 g/t Au over 3.05m in hole DAR-20-01; 0.67 g/t Au over 18.00 m and 3.65 g/t combined Au, Pt, Pd over 1.50 m in Hole DAR-20-05 and 0.52 g/t Au over 19.80 m in hole DAR-20-06.

Prior work done by Noble on the P81 Property includes helicopter airborne electromagnetic (EM) and magnetic surveys over various parts of the property, induced polarization (IP) surveys and small drill programs in different townships. In 2017, Noble partnered with Orix Geoscience to produce a full historical drillhole compilation for the P81 Property.

In preparation for the fall 2020 drill program, Noble collaborated with Orix Geoscience to produce a 2D and 3D geological and structural interpretation of the Dargavel Gold Trend area based on compiled historical drilling as well as a 2020 airborne magnetic survey completed over the project area. An inversion of the magnetic data was created and utilized in the production of a 3D regional geological model. Based on the geological and structural interpretations, the airborne magnetic and EM data, and associated historical lithology and assay results, five drill targets were selected for the 2020 drill program.

The 2020 drill program succeeded in confirming anomalous historical assay results in 3 drill holes and discovered one new area with encouraging results in hole DAR-20-05. Coinciding with the geophysical target zones, drill holes DAR-20-01 and DAR-20-03 intersected a thin lithological horizon known to host anomalous gold values and historically identified as an iron formation, enabling the extent of the unit to be traced. An EM anomaly at an interpreted fold nose was also drill tested in holes DAR-20-04 and DAR-20-05; although significant pyrite mineralization was intercepted, no anomalous gold assays were found in hole DAR-20-04. However, hole DAR-20-05 intersected an 18 m section with anomalous gold as well as a 1.5 m interval with over 3.6 g/t Au, Pt, Pd combined. The collected geological data confirms the presence of the iron formation-type horizon within the fold structure, during this drill program such horizon was identified more as a sulphide zone with pervasive silicification.

In addition to following up the anomalous gold assays in the area, the compilation and preliminary targeting exercise highlighted other areas more suitable for winter drilling where similar targets can be drilled. In addition to gold, the Dargavel Township compilation has anomalous values of Ni and Cr among other base metals in mafic-ultramafic rocks near the

northern border of the township, such areas have strong potential for short drill programs to better outline potential deposits.

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1.0 Introduction

Noble Mineral Exploration (previously known as "Ring of Fire Resources Inc.") completed the acquisition of the "Project 81" or "P81" Property ("the Property", Figure 1) from Abitibi Bowater Canada Inc. in October of 2011. Helicopter airborne EM and magnetic surveys were completed over several areas of the property in November 2011, as well as an IP survey of 45 line kilometers in the Lucas Gold Target area. In 2012, a 6 drill hole program on the Lucas Gold Target and a 12 drill hole program in the Kingsmill Township, followed up the geophysical surveys. Following a full compilation of historical drill holes during 2017, an additional drill program was completed in 2018, consisting of 14 drill holes in the Lucas Gold Target.

In 2020, an airborne magnetic gradiometer survey was flown for Noble by BECI Exploration Consulting ("BECI") over the Dargavel Township portion of the P81 Property. An interpretation and a 3D-unconstrained inversion of the magnetic data was completed by Géophysique Camille St-Hilaire Inc. A 2D and 3D geological and structural interpretation was completed using historical drillhole information as well as the interpreted magnetic survey data. Five drill targets were selected for the September to October 2020 Dargavel Gold Trend drill program based on anomalous historical drilling gold intercepts, the geological interpretation, and the 2020 magnetic survey.

The 2020 diamond drill program on the Dargavel Gold Trend totaled 6 NQ-sized drill holes (DAR-20-01 to DAR-20-06) and 1 abandoned drill hole (DAR-20-05a) with 1390.5 meters, which were drilled, logged, and sampled between September 25th and October 30th, 2020. All drill core samples were analyzed by fire assay with ICP-OES finish for Au, Pt, Pd as well as a suite of 38 elements with Aqua Regia ICP analysis by Actlabs in Timmins, Ontario.

The results of Noble's 2020 drill program are documented in this report. The diamond drilling work was performed by NPHL Drilling ("NPLH") based in Timmins, Ontario. Edwin Escarraga acted as the Project Geologist, P.Geo (ON) of Orix Geoscience Inc. under the supervision of Randy Singh, P.Geo (ON), P.Eng (ON) - V.P. Exploration and Project Development of Noble Mineral Exploration Inc. Edwin Escarraga P.Geo (ON) is responsible for the preparation of this report.

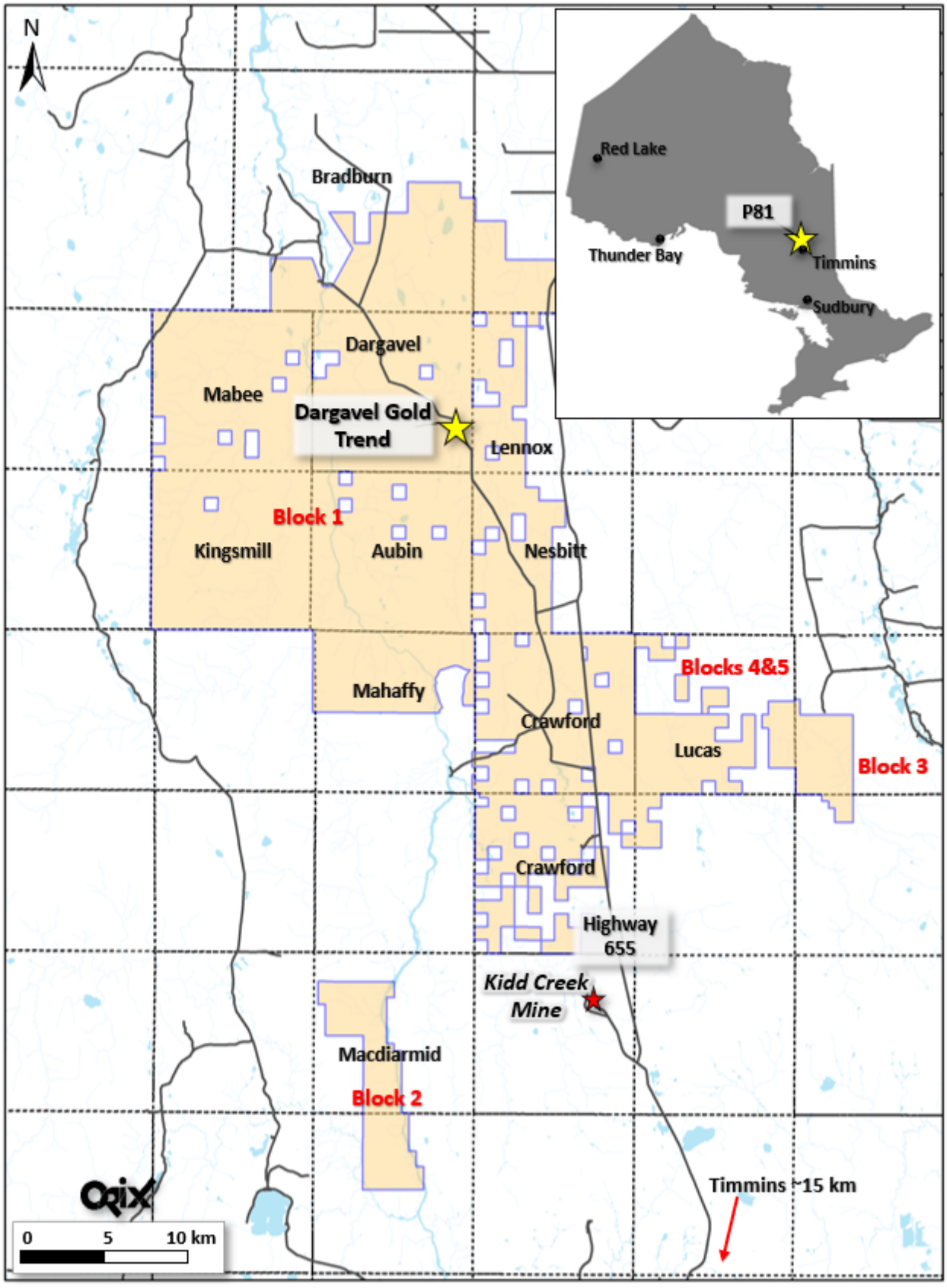


Figure 1: Location of the P81 Property and Dargavel Gold Trend.

2.0 Property Description, Location and Access

The P81 Property is composed of 5 main claim blocks (Figure 1), spanning approximately 79,586 hectares. The property is composed of 961 patents and 1453 single cell mining claims, with the majority of the area patented. Table 1 summarizes the general information and size of the claim blocks. Noble's P81 Property is located in the Porcupine Mining Division, District of Cochrane, Timmins Area, Northern Ontario, Canada, starting approximately 15 km north of Timmins. The Dargavel Gold Trend lies in the Dargavel Township and also partly in the western part of the Lennox Township, in the northeast part of the largest block of the P81 Property (Figure 1).

The Dargavel Gold Trend is accessed from Timmins by travelling approximately 60 km north on Highway 655 and then using a maintained unmarked logging road. The drill sites are located within 250 to 700 m of the logging road. The project is located in NTS Sheet 42H04, centered at an approximate Longitude of 81°31'45''W, Latitude of 49°01'01''N and UTM NAD 83 Z 17N 5429472N and 461317E (Figure 2).

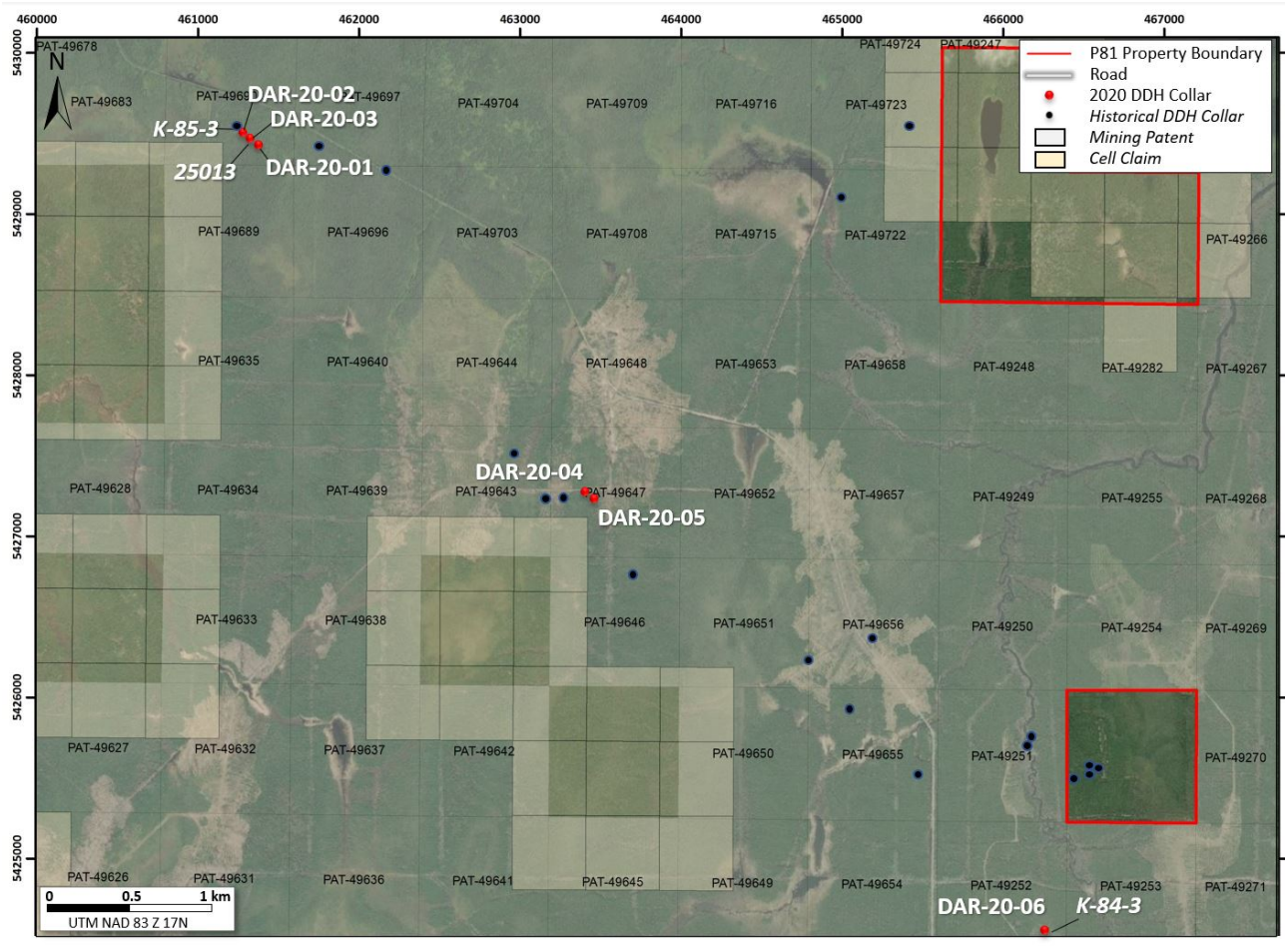


Figure 2: Dargavel Property, location and 2020 drilling with historical drilling.

Table 1: P81 Claim Blocks

Block	*Cell Claims #*	*Cell Claims (Ha)*	*Patents #*	*Patents (Ha)*	*Total Area (Ha)*
1	1,124	14,534.8	955	58,359	72,893.8
2	176	3,753.2	0	0	3,753.2
3	126	2,376	5	233	2,609.7
4	12	203.7	0	0	203.7
5	15	126.2	1	0	126.2

3.0 Climate, Physiography, Infrastructure

3.1 Climate

In the Timmins area, the long winters see average temperatures below 0 ˚C from November to April, with the lowest temperatures in January at an average of -23 ˚C. The summers are short and relatively hot with above 20 ˚C temperature highs from June to August; July is the hottest month with an average temperature high of 24 ˚C.

The area receives approximately 834.6 mm of precipitation annually, with 558.3 mm as rain and 311.3 mm as snow. September is the wettest month, receiving an average 83.7 mm of rain; February is the month with the least precipitation, only receiving on average 1.7 mm of rain and 45.9 mm of snow (Environment Canada, Victor Power Airport).

The property lies within the Subarctic Climate zone, with short summers and long, cold winters. Snow squalls occur from October to June, and the frost-free period hardly exceeds 90 days. Fieldwork is occasionally not permitted due to forest fire danger and the MNR may prevent access to certain areas during such times. The area is also part of the Boreal Shield eco-zone which has relatively low tree growth rates and timber volumes compared with other forested eco-zones in Canada. Tree species in the Boreal Shield eco-zone include white and black spruce, balsam fir, tamarack, trembling aspen, white pine, red pine, jack pine, maple, eastern red cedar, eastern hemlock, paper birch, speckled alder, pin cherry, mountain ash, among other plants. Mammals include moose, black bear, wolf, chipmunk, beaver, muskrat, snowshoe hare, red squirrel, mice, marten, short-tailed weasel, fisher, mink, river otter, coyote, and red fox. Garter snakes and frogs are also present. Aquatic birds are seen on lakes during the ice-free season, and fish can be abundant in some lakes and the larger perennial streams.

3.2 Physiography

The P81 Property resides within the Mattagami Drainage Basin. The landscape consists of forest cover with thick fine-grained glaciolacustrine deposits and boulder and gravel till; geological mapping indicating that outcrop composes less than 1% of the property. The thick overburden cover subdues the local landscape, with the terrain characterized by broad, poorly drained swampy tracts, spring-runoff stream beds and swales, beaver ponds, and small lakes.

The area is mostly at low relief with some lithologically controlled topographic highs. Local glacial landforms also form some higher reliefs. Elevations range from 260 to 340m above sea level.

3.3 Infrastructure

Northeastern Ontario, especially the Timmins area, has a long exploration and mining history focused on VMS and gold deposits that dates back to the turn of the 20th century. A complete range of mining and exploration services and suppliers are available in Timmins, including exploration supplies, diamond drilling companies, machine shops, mining equipment, motels, restaurants, and a large base of skilled personnel. The well-serviced Victor M. Power airport is located 10 km north of Timmins, with flights to Toronto and several small communities.

The Dargavel Gold Trend is located approximately 60 km north of Timmins, with Highway 655 running 5 to 10 km to the east of the drilling area. A back road off Highway 655 leads to the drilling area, with all of the 2020 drill sites located within 250 to 700 m of this logging road (Figure 2).

4.0 Exploration History

The discovery of gold in the Abitibi Greenstone Belt near Timmins in 1908 founded the Porcupine Mining District and spurred decades of mineral exploration in the region. Exploration proved to be more difficult in the townships to the north of Timmins due to a significant lack of outcrop. The advent of airborne geophysics in the mid-20th century enabled exploration campaigns in these heavy overburden covered areas with little outcrop in the Abitibi Belt. In the early 1960s, several companies including INCO Ltd. (CANICO) flew proprietary airborne magnetic and electromagnetic (EM) surveys. Texas Gulf discovered the Kidd Creek mine in the early 1960s, stimulating exploration activity in the area north of Timmins.

In the Dargavel Gold Trend area, work began with the International Nickel Company drilling 14 holes from 1964 to 1966, including hole 25013 which intercepted 3.06 g/t Au over 1.43 m at 65.62 m depth.

From 1981 to 1982, Hudbay Mining Limited flew airborne EM surveys, following up on a few anomalies with drilling. Hudbay drill tested these anomalies with 3 drill holes in the Dargavel Gold Trend area (K-81-1, K-81-3, and K-81-4). A NW-SE trending long linear conductive feature was attributed to an iron formation unit and drill tested, intercepting some pyrrhotite and pyrite mineralization. Another drill hole testing a conductor intersected 0.96% Zn over 1.70 m.

Chevron Canada Resources Limited flew airborne EM surveys and performed IP surveys from 1984 to 1985. Chevron also conducted a drill program during this period with the K-84 and K-85 series drill holes. Hole K84-3 intercepted 7.1 g/t Au over 2.0 m at 72.0 m depth and 3.8 g/t Au over 2.1 m at 319.0 m depth; hole K85-9 intercepted 1.2 g/t Au over 1.0 m at 129.0 m depth.

In 2011, Noble Mineral Exploration acquired the P81 Property from Abitibi Bowater Canada Inc. Noble performed regional helicopter airborne EM and magnetic surveys over various areas of the P81 Property in November 2011.

Table 2: Summary of Historical Exploration in the Dargavel Gold Trend area

Company	*Year*	*Work Done*	*Assessment Report*
International Nickel Co	1964-1966	Drilling (14 DDH in Dargavel Project area)	42A13NE0751
Hudbay Mining Ltd.	1981	Airborne EM; HLEM surveys; Drilling (3 DDH in Dargavel Project area)	42H03SW0011
Chevron Canada Resources Ltd.	1984-1985	Airborne EM; IP Survey (Dargavel Project area); Drilling (K-84 and K-85 series)	42A13NE0050
Noble Mineral Exploration	2011	Geophysical Surveys (over several areas of the P81 property)	2_53773_10
Noble Mineral Exploration	2020	Airborne Magnetic Survey	P20-07-14

5.0 Geological Setting

5.1 Regional Geology

The Dargavel Gold Trend is located in the Timmins area in the western part of the Abitibi Greenstone Belt in the Superior Province, in a suite of greenschist-facies, steeply-dipping, generally NW-SE trending Archean volcano-sedimentary rocks and predominantly Archean felsic to ultramafic intrusions.

The general geology of the Timmins area is outlined in Figure 3 and composed of several volcano-sedimentary assemblages: the 2676 to 2670 Ma Timiskaming assemblage sedimentary rocks, which were unconformably deposited above deep water Porcupine assemblage turbiditic sediments and coeval felsic fragmental rocks (2690-2685 Ma); the 2701 to 2697 Ma Upper Blake River tholeiitic to calc-alkalic mafic volcanics with minor felsic volcanics; the 2704 to 2710 Ma Tisdale assemblage mafic to felsic volcanic rocks that underlie Porcupine assemblage rocks; the 2719 to 2711 Ma Kidd-Munro assemblage of felsic to ultramafic volcanics and iron formation; the 2723 to 2720 Ma Stoughton-Roquemaure ultramafic to felsic volcanics; and the 2730 to 2724 Ma Deloro assemblage rocks, underlying the Tisdale assemblage and composed of mafic to felsic volcanic rocks with minor banded iron formation and clastic sediments occurring near the top of the sequence (Bateman et al, 2008 and Ayer et al, 2002). The Tisdale assemblage tholeiitic mafic volcanic rocks, with their elevated iron content, are some of the most prospective host for gold mineralization in the Timmins camp.

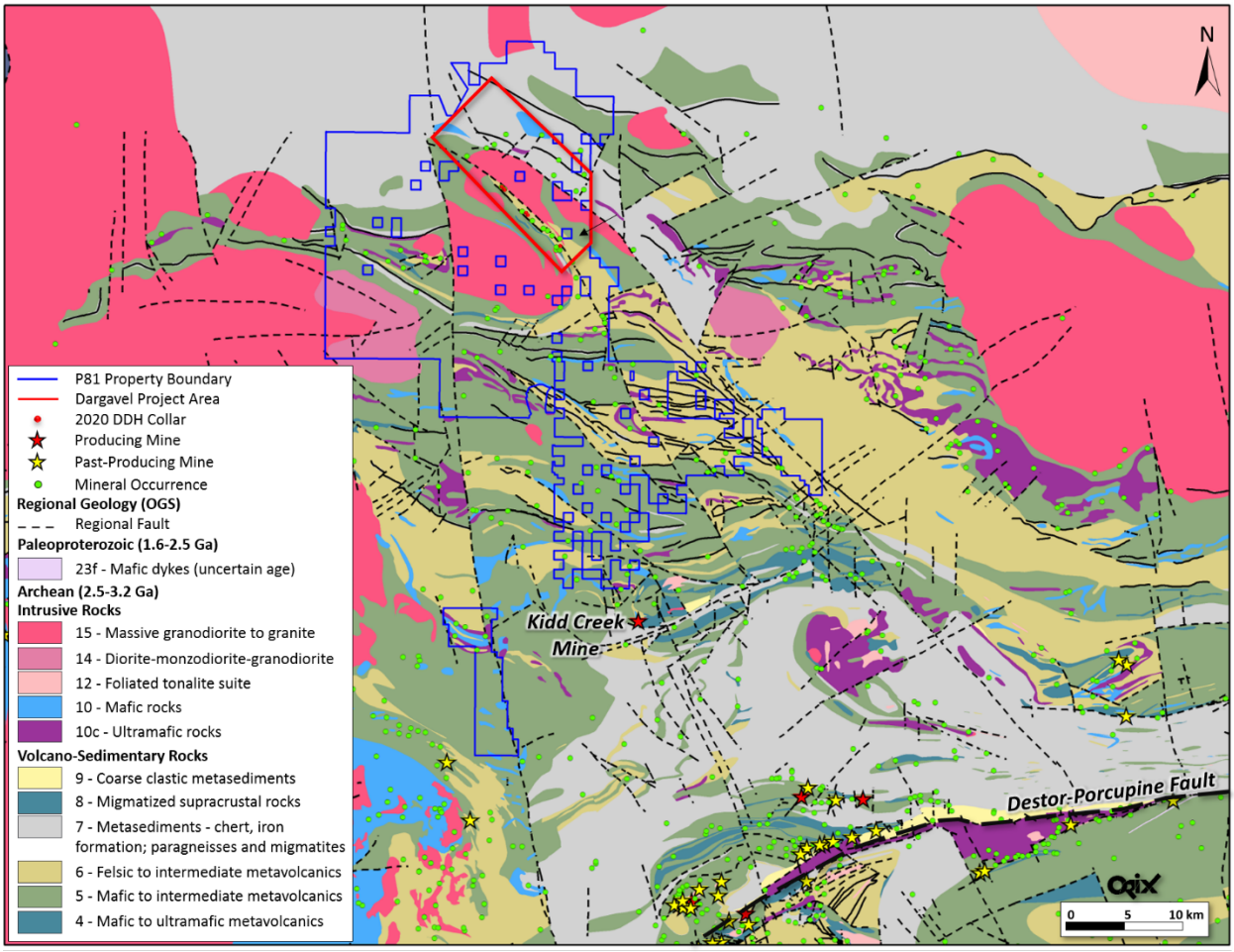


Figure 3: Regional geology with mines and mineral occurrences (OGS). Approximate assemblage labels based on Bateman et al (2008).

The Timmins camp has historically produced both major gold and base metal deposits. Over 68 million ounces of gold have been mined in the Timmins area. Several volcanogenic massive sulphide (VMS) deposit targets occur on a regional scale, hosted in rhyolite units. The Kidd Creek deposit is one of the largest and richest producing VMS deposits in North America and is located approximately 30 kilometers south of the Dargavel Gold Trend. Several ultramafic sills with known mineralization are also prospective for nickel deposit exploration. Nickel, copper, and cobalt are produced at both the komatiite-hosted Redstone Mine and the gabbro-hosted Montcalm Mine, both located at in the Timmins camp.

5.2 Property Geology

The Dargavel Gold Trend area is mainly composed of Upper Blake River assemblage felsic, intermediate, and mafic volcanics and volcaniclastics, local ultramafic units, undifferentiated metasediments, and thin laminated units often described as iron formation; intermediate to felsic intrusive and minor mafic intrusive bodies also occur in the area (Figure 4). Historic drill logs also describe quartz feldspar porphyry. Late Matachewan diabase dykes (Proterozoic) cross-cut several units in the area.

Carbonate alteration is frequently described in historic drill logs with varying degrees of intensity and is locally strong, particularly in mafic and ultramafic units. Weak to moderate sericite, chlorite, silicification, and epidote also occur regularly. Garnet is occasionally mentioned and is associated with volcaniclastic units. Serpentinite and talc are associated with ultramafic rocks. Minor and major shear zones are described throughout several logs, along with foliation that increases with depth. Contacts are frequently described as sheared.

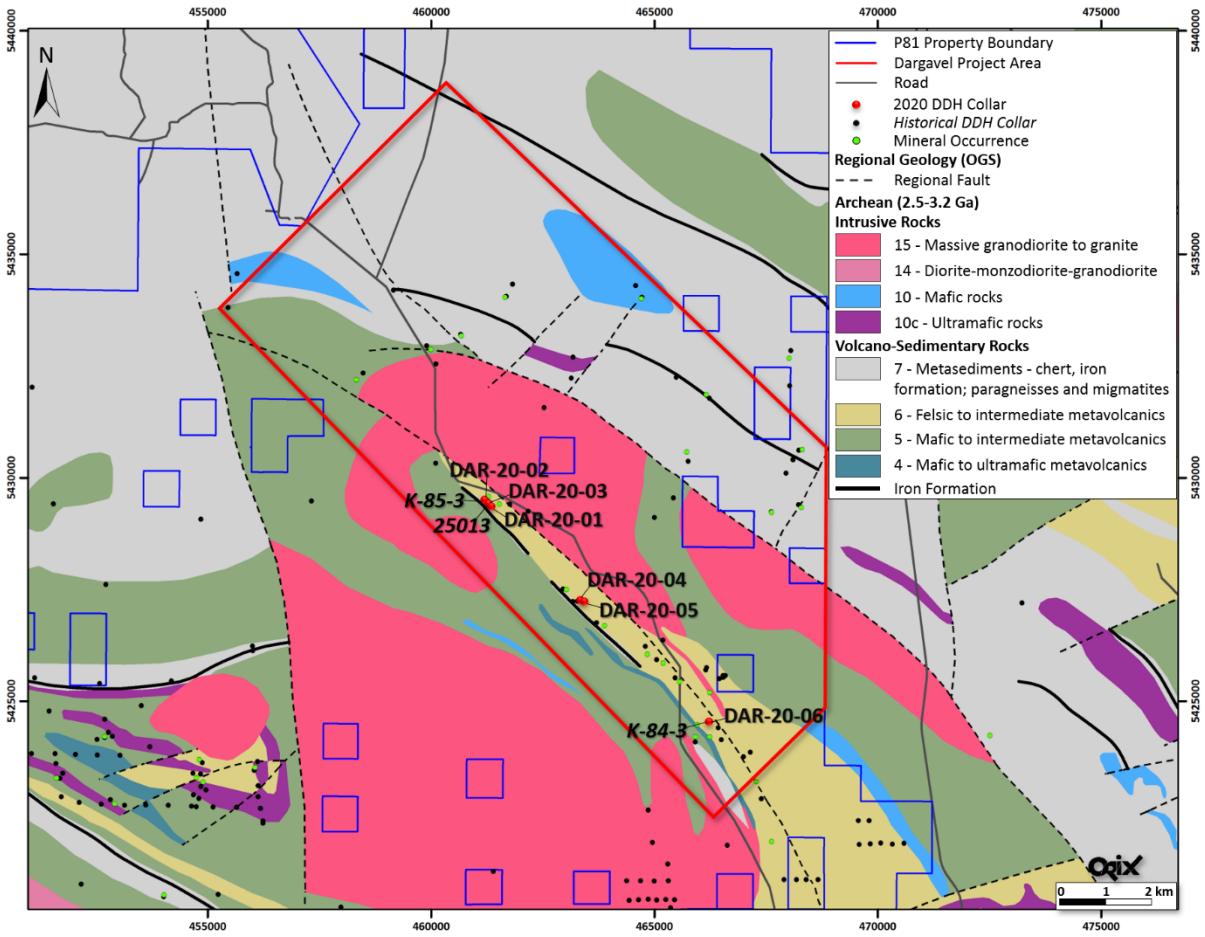


Figure 4: Dargavel area geology (OGS) with 2020 drilling (DAR-20 series) and historic drilling.

6.0 Mineralization

In the 2020 Dargavel Gold Trend drilling area, an 8 kilometer long, NW-SE striking corridor of low-grade Au occurrences are hosted in a felsic to mafic metavolcanic to undifferentiated sediment package (Figure 5). Thin units of a banded sediment that has often been described as an iron formation coincides along strike of this mineralized area.

Historic drill logs frequently describe disseminated pyrite, commonly trace to up to 5% locally and sometimes associated with Au. Drill hole 25013 intersected 3.05 g/t Au over 1.43 m, associated with 5-8% pyrite and minor quartz veining hosted in “rhyolite”. More significant sulphides are occasionally described in logs; for instance, K-85-3 intercepted semi-massive to massive pyrrhotite-pyrite-magnetite mineralization, returning 0.6 g/t Au over 4.0 m. Carbonate alteration sometimes coincides with anomalous Au values. For example, log K-84-3 describes carbonate alteration along with chlorite and tourmaline at 70.5 m depth coinciding with 7.1 g/t Au over 2.0 m; only trace pyrite mineralization is described in this interval.

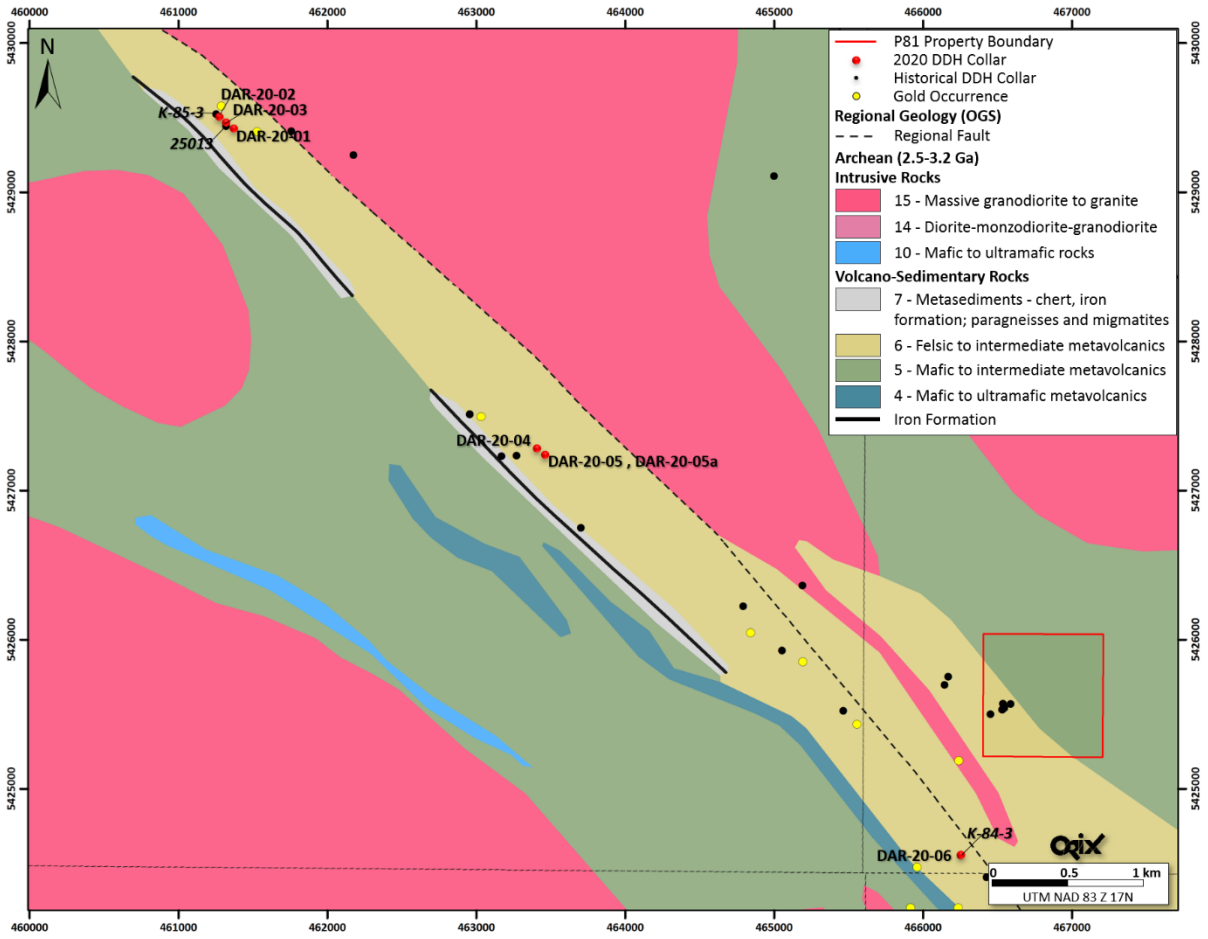


Figure 5: Gold occurrences in the 2020 drill program area with regional geology (OGS).

In the 2020 Dargavel drill holes, trace to 5% disseminated pyrite mineralization is abundant, with local semi-massive sulphide zones with up to 50% pyrrhotite and 20% pyrite. Magnetite occurs as trace disseminations up to 15%. Trace arsenopyrite and chalcopyrite occurs locally.

7.0 2020 Airborne Magnetic Survey

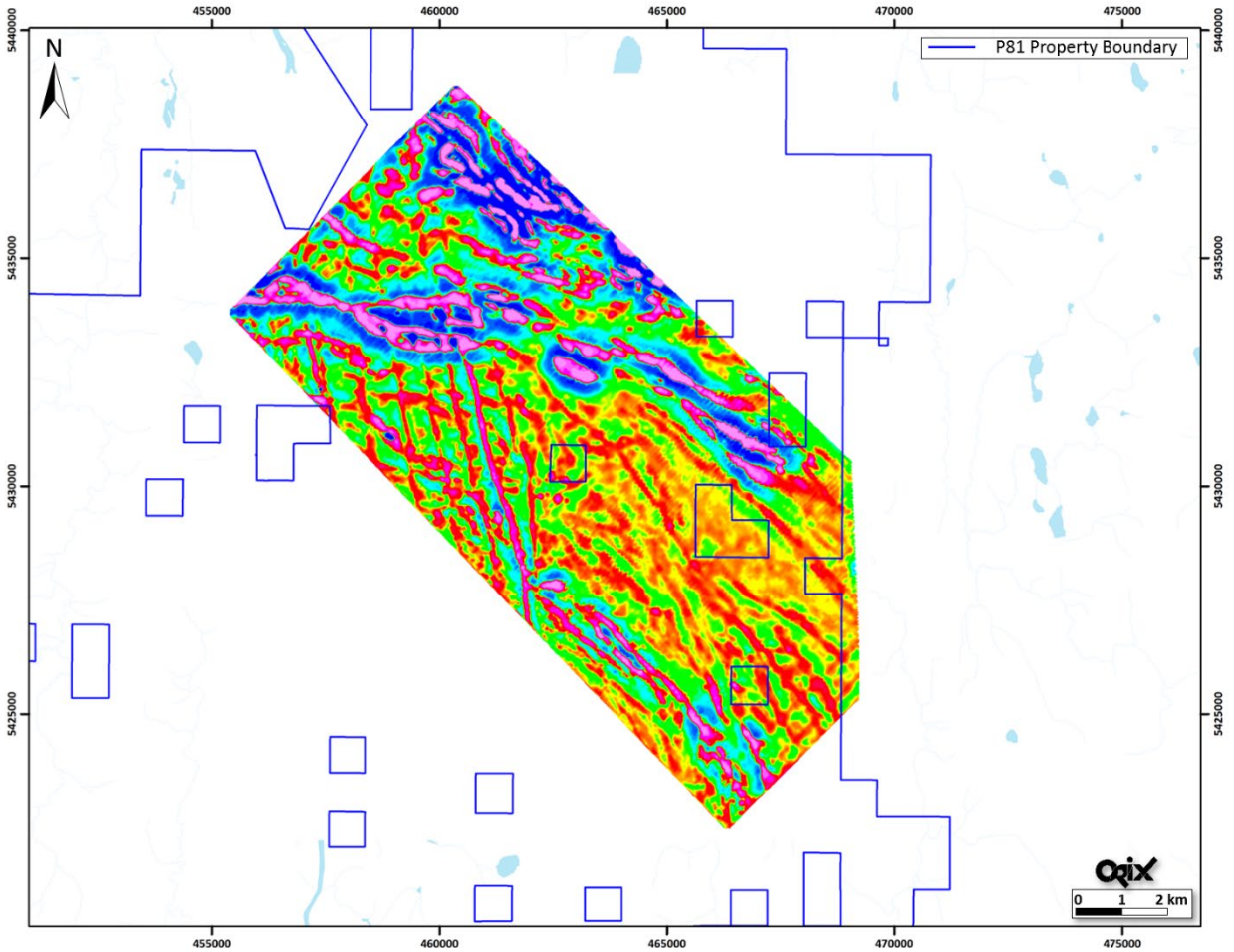


Figure 6: 2020 airborne magnetic survey over the Dargavel area, 1st VD (BECI)

In 2020, Noble contracted BECI Exploration Consulting to complete a 2,250 line km airborne magnetic survey over the Dargavel Project area (Figure 6). An interpretation and 3D-unconstrained inversion of the magnetic data was completed by Géophysique Camille St-Hilaire Inc. The magnetic data was utilized along with historical drilling lithological data to complete a 3D geological reinterpretation of the Dargavel area geology. Five drill targets for the 2020 Dargavel drill campaign were generated based on the magnetic data and historical drillhole assay data.

8.0 2020 Drill Program

From September 25th to October 30th, 2020, Noble contracted NPLH Drilling to complete a 6 hole (and 1 abandoned hole) diamond drill program totaling 1390.5 m on the Dargavel Gold Trend. NPLH Drilling is based out of Timmins, Ontario. Drill core logging and drill management was performed by Edwin Escarraga P.Geo (ON), and the project was supervised by Randy Singh, P.Geo (ON), P.Eng (ON) - VP Exploration & Project Management for Noble. All samples collected from the drill core were submitted to Activation Laboratories Ltd (Actlabs) for analysis. 3 drill holes were completed on patent 49690, 2 drill holes (and 1 abandoned hole) on patent 49647 and 1 drill hole on patent 49252.

Table 3: Noble's 2020 Diamond Drillhole Summary

Drillhole	*Azimuth*	*Dip*	*Length (m)*	*Easting*	*Northing*	*Elevation*	*Samples Taken*
DAR-20-01	215	-50	109.5	461317.0	5429472.0	268	63
DAR-20-02	215	-50	129	461274.0	5429497.0	267	73
DAR-20-03	220	-50	108	461370.0	5429434.0	270	53
DAR-20-04	160	-50	276	463404.0	5427276.0	271	159
DAR-20-05a	180	-60	48	463463.0	5427242.0	270	0
DAR-20-05	180	-60	285	463464.4	5427244.0	270	176
DAR-20-06	235	-50	435	466252.4	5424552.8	260	298

The goal of the drill program was to follow up on historical anomalous gold values in drill holes completed by INCO in their 1964 to 1966 drill campaigns and Chevron in their 1984 to 1965 drill campaigns. As well as test new prospective areas based on the latest geological and geophysical interpretation.

8.1 Interpretation and Targeting

A regional geological surface interpretation was created by Orix Geoscience using the geophysical data collected during the summer of 2020, as well as top of hole lithologies from historical data. A paper preliminary interpretation was created utilizing mainly the 1VD_RTP, TMI_RTP and the Tilt_RTP products as produced by BECI (Figure 7).
The interpretation aimed to delineate main contrasting lithologies as well as main regional breaks/structures that could be of importance for mineralization in the Dargavel Gold Trend.

After the 2D surface interpretation was completed, Orix Geoscience used the 3D Aeromagnetic data inversion produced by Geophysique Camille St-Hillaire Inc to create a preliminary 3D regional model to aid on the drill hole targeting for the 2020 drill program. Several target areas were defined during the interpretation process and cross-checked with the geophysical targets as described by Camille St-Hillaire. (Figure 8)

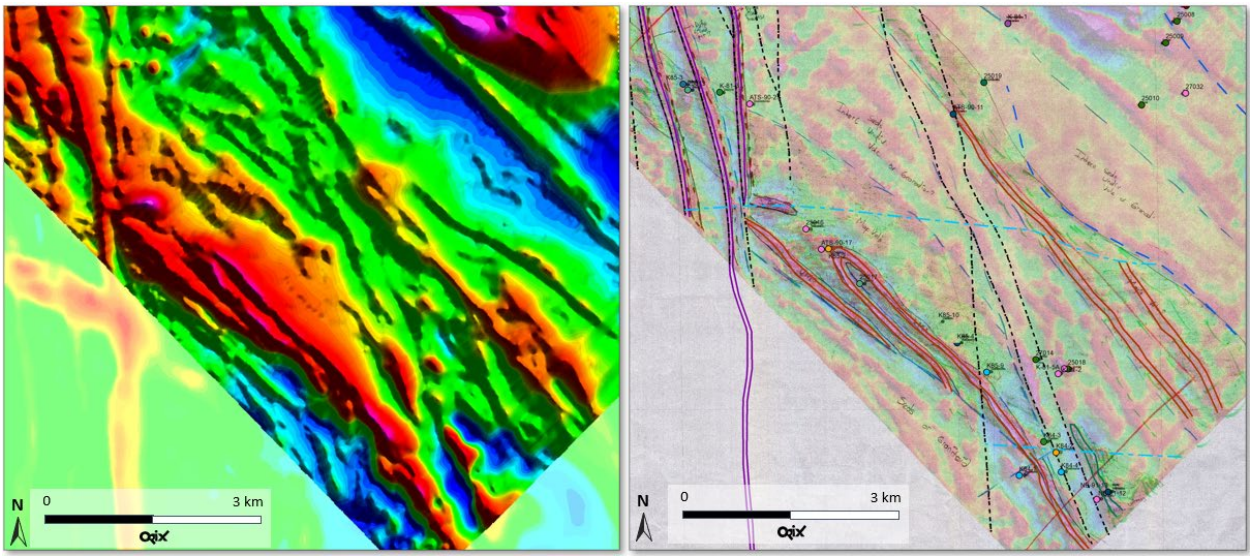


Figure 7: Surface geological and structural interpretation from historical drillhole data and geophysical surveys.

Drill hole planning was completed using Leapfrog Geo 5.1.1 aiming to twin two distinct areas with historical drilling results (25013 and K84-3), as well as to test structural areas with potential for mineralization.

Hole DAR-20-01, targeted to twin hole 25013 and an EM anomaly in area A (Figure 8), however there was a level of uncertainty to the exact location of the historic drill hole. Drill hole location was obtained from georeferencing and digitizing old plan maps. The location accuracy was expected to be within 40 meters.

Hole DAR-20-02 and DAR-20-03 where set to test the strike extensions, NW and SE of the same stratigraphic horizon intersected at 25013, as well as the above-mentioned EM anomaly.

Hole DAR-20-04 and DAR-20-05 were targeted at a folded structure near the center of the Dargavel Gold Trend, in area D as well as an EM anomaly running almost parallel to the fold axis (Figure 8). The two drill holes targeted the apex of the interpreted structure which coincides with a highly magnetic horizon.

Hole DAR-20-06, targeted to twin hole K-84-3 in area B (Figure 8), and test further deeper to cross an east-west interpreted structure as well as the iron formation horizons discussed in historical holes.

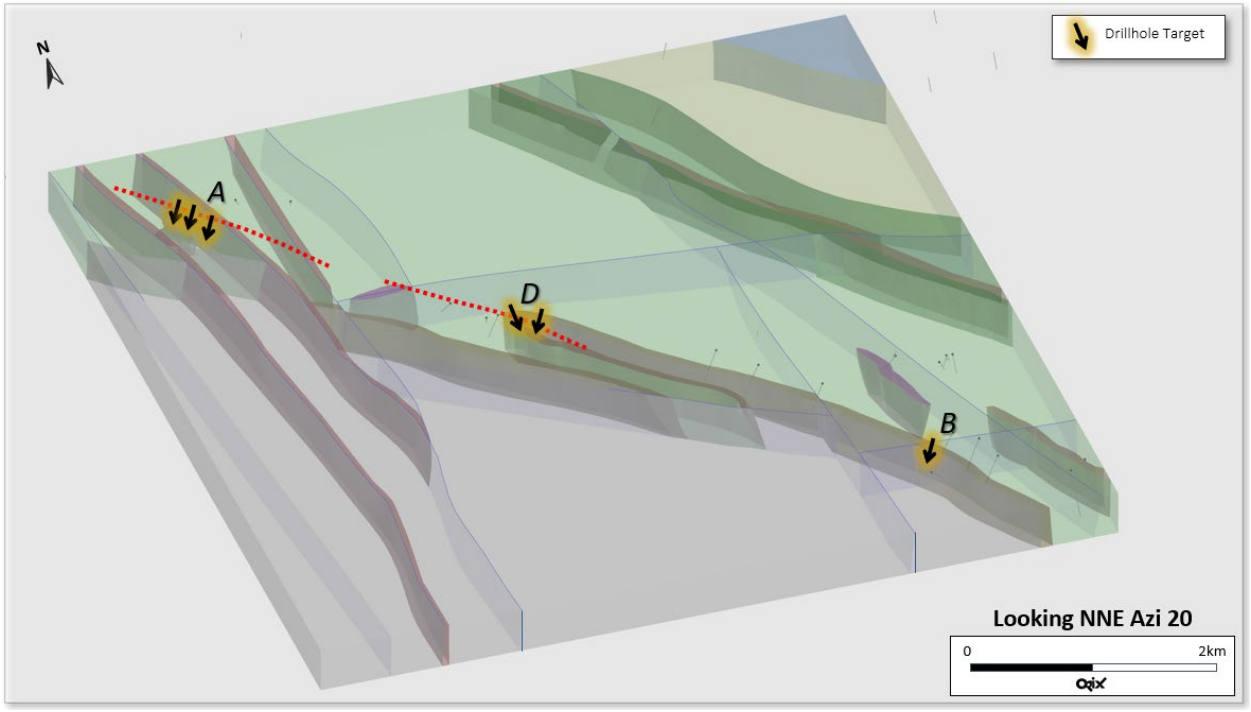


Figure 8: Drill targeted areas for the 2020 campaign. 3D regional geological interpretation

8.2 Logging

Drilled NQ core was placed in clean wood core boxes by the driller helper, then labelled with a marker and sealed for transportation via road to the core logging facility at NPLH's backyard in Timmins. At the core facility, the core was cleaned and oriented followed by the measurement of RQD and magnetic susceptibility by the geological technician.

The core logging was completed by two geologists, with an information collection procedure of filling out the following tabs within an Excel sheet log: header, survey, lithology, mineralization, alteration, structure, sampling for assay, RQD, and magnetic susceptibility measurements.

- Sampling procedure

A total of 822 core samples were delivered to Activation Laboratories in Timmins, Ontario for analysis. Samples were dried and crushed up to 80% passing 2 mm, riffle split (250 g) and pulverized to 95% passing 105 µm included cleaner sand (Code RX1). Samples were analyzed by an aqua regia extraction with ICP-OES finish that included 38 elements (Code 1E3). Gold, Palladium and Platinum were analyzed by fire assay with an ICP-OES finish, using 30 g samples. Activation Laboratories had an internal QA/QC procedure of regularly re-analyzing selected samples, as well as inserting internal standards and blanks.

- QAQC procedures

QAQC samples such as standards, blanks and duplicates were inserted approximately every 20 samples or less. Blanks were also preferentially inserted after areas where mineralization of sulphides was visually higher than the norm. A total of 58 QAQC samples were inserted which corresponds to 7% of all samples submitted.

Cross-sections of all 6 drill holes are in Appendix I, as well as Graphic logs in Appendix II. Assay COA's can be found in Appendix III. Exported drill hole logs are on Appendix IV. Drill Map on Appendix V.

9.0 Results

The 2020 drilling added lithological data to support the geological and structural models and yielded some promising Au assay values, confirming the presence of mineralized lithological and structural horizons as well as an anomalous intersect with Au, Pt and Pd enrichment.

A total of 822 core samples were collected over a total of 1116.6 m of drill core. 5 drillholes intersected anomalous gold. A summary of the 2020 assay highlights is listed below (Table 4).

Five targets were selected based on the 2020 airborne magnetic survey and subsequent geological reinterpretation and 3D model. Two historic drill holes were twinned: drill hole DAR-20-01 twinned hole 25013 and DAR-20-06 twinned K-84-3 (Table 5).

Table 4: Assay Highlights from 2020 Drilling Program

DDH	Assay (g/t)	From (m)	To (m)	Interval (m)
DAR-20-01	0.73 Au	64.25	67.30	3.05
DAR-20-03	0.64 Au	83.40	87.50	4.10
DAR-20-04	0.34 Au	74.45	76.00	1.55
	0.35 Au	139.00	140.50	1.50
DAR-20-05	0.67 Au	72.50	90.50	18.00
Including	*2.84* Au	*74.00*	*75.50*	*1.50*
	2.15 Au	*84.50*	*86.00*	*1.50*
AND	2.13 Au, 0.93 Pd and 0.58 Pt	155.00	156.50	1.50
DAR-20-06	2.41 Au	396.50	398.00	1.50
	0.52 Au	415.20	435.00	19.80

DAR-20-01
Anomalous gold was intersected in DAR-20-01 within a semi-massive sulphide zone at roughly the same depth intervals as twinned hole 25013, although grades returned were not quite as high, averaging 0.73 g/t Au over just 3.05 m, vs the 0.9 g/t over 7.2 m in hole 25013. This sulphide zone also has elevated Ag, As, Bi, S and Pb in comparison to the unmineralized parts of the hole.

DAR-20-02
This hole targeted the NW strike extension of hole 25013 and intersected a similar sulphide zone as in DAR-20-01, but returned only 0.04 g/t Au, and a slightly anomalous 0.14 g/t Au intersected in the mineralized quartz flooded upper contact of a healed breccia about 12 m deeper. It is interpreted that the mineralization may be pinched out or plunging deeper to the NW.

DAR-20-03
Similar to DAR-20-02, DAR-20-03 was testing along strike of historical hole 25013, but to the SE intersecting the same narrow sulphide zone and healed breccia zone. Anomalous gold was intersected again at the upper contacted of the breccia but returning a higher 0.64 g/t Au over 4.10 m, including 1.45 g/t over 1.50 m.

DAR-20-04
The purpose of this hole was to test the hinge of a fold nose in hopes of intersecting some iron formation as well as an EM anomaly. Two quartz sulphide zones no bigger than 3 m were intersected at 229.00 m and 246.00 m, but neither returned any significant gold results. Only a few anomalous gold results were returned otherwise, all in volcanic rocks, grading 0.15-0.35 g/t Au.

DAR-20-05a
This hole was lost at 48m due to bad ground, resulting on stepping back and drilling a steeper angle.

DAR-20-05
As DAR-20-04, the goal of this hole was to test the potential sulphide zone and the EM anomaly. One elevated gold sample from 155.00-156.50 m returned 2.13 g/t Au, as well as 937 ppb Pd and 588 ppb Pt, within an ultramafic unit. No other elemental association was noted for this mineralized sample. Although the EM anomaly was not intersected due to risk of losing the hole in bad ground, anomalous gold was intersected between 72.50 and 90.50 m. (0.67 g/t Au over 18.00m)

DAR-20-06
This hole did not replicate the results of historical hole K-84-3, returning a fraction of the historical grades at similar depths. However, targeting the hole at an extended depth did return a larger interval of steadily increasing anomalous to low-grade gold over 18.00 m to the end of hole, suggesting that higher grades may exist slightly deeper. This zone of elevated gold mineralization also contains elevated molybdenite (Figure 9).

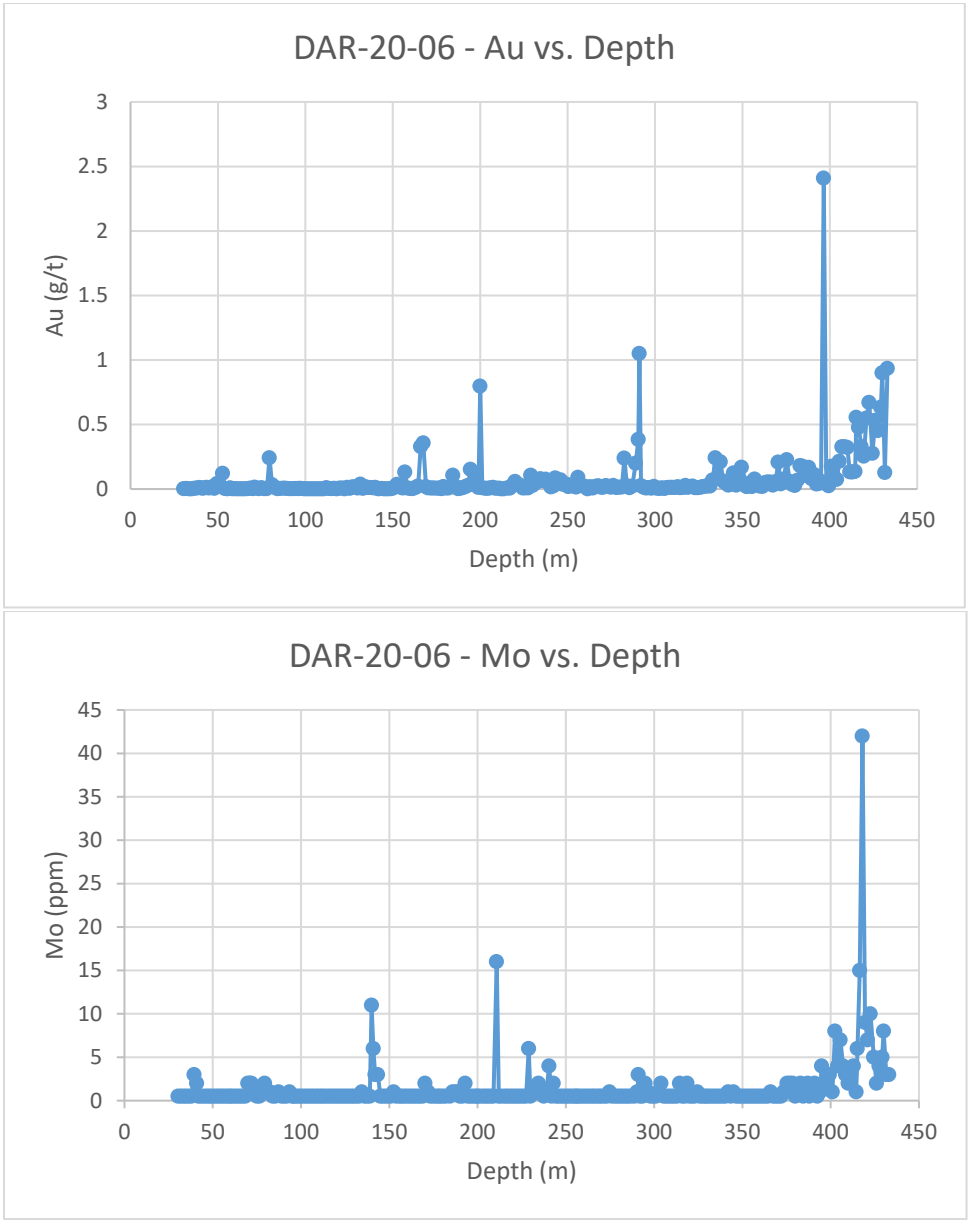


Figure 9: Depth versus Au (g/t) (top) and depth versus Mo (ppm) (bottom) hole DAR-20-06.

Trace element geochemistry was used to help verify the logged rock types (Figure 10). Overall displaying good grouping and reliability of the logging. In addition, trace element geochemistry was used to determine if any elemental associations occur with gold mineralization.

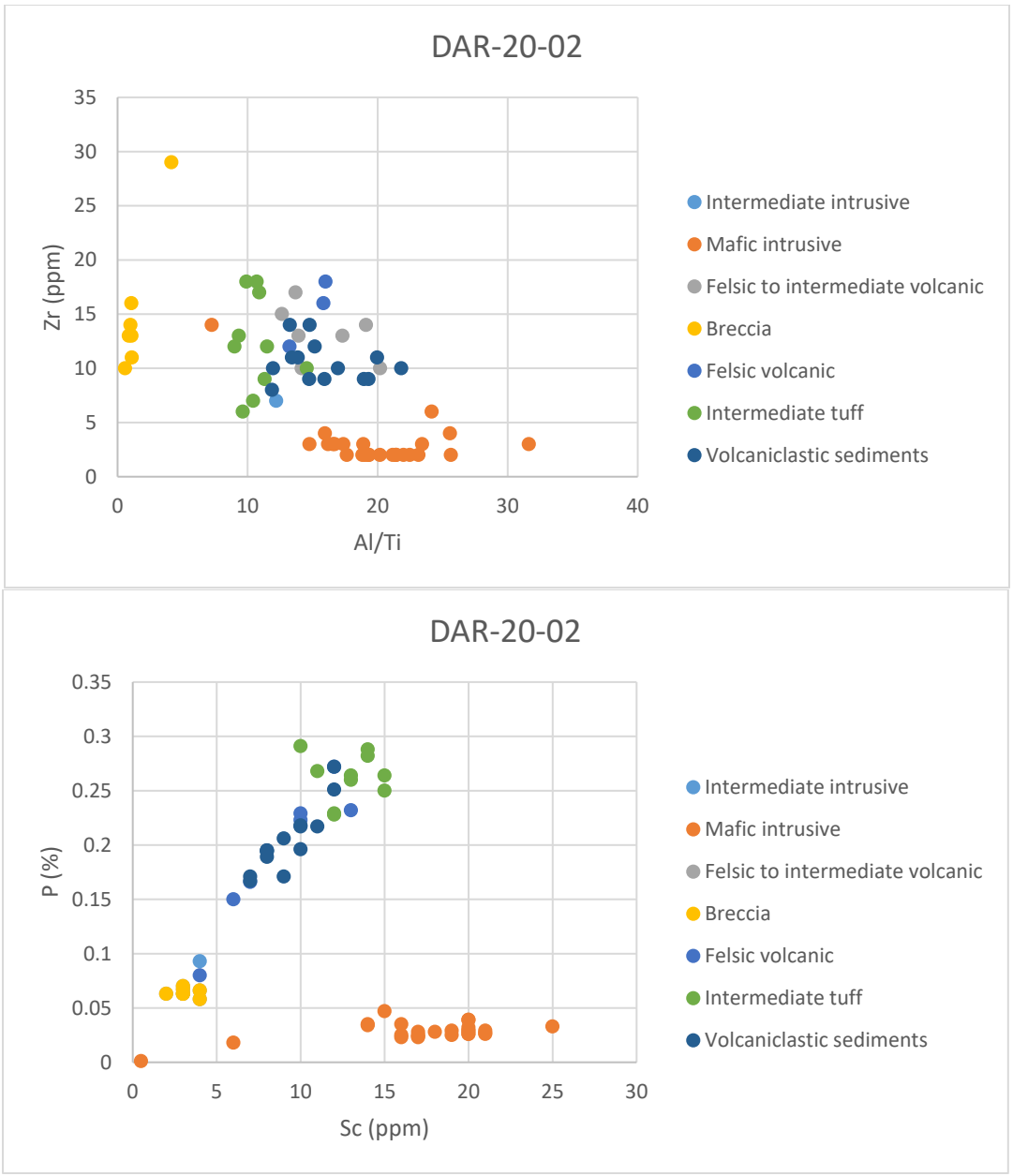


Figure 10: An example of Al/Ti versus Zr (ppm) plot (top) and a Sc versus P (%) plot (bottom) that helps discriminate between the rock types in hole DAR-20-02

Table 5. Noble's 2020 Twinned Drillholes Comparison

Noble's 2020 Drilling						Historical 1980's Drilling				
DDH	**Au (g/t)**	**Interval (meters)**	**Dip**	**Length (m)**		**DDH**	**Au (g/t)**	**Interval (meters)**	**Dip**	**Length (m)**
DAR-20-01	0.73	3.05 (64.25-67.30)	-50	109.5		25013	3.06	1.43 (65.62-67.06 m)	-55	110.3
DAR-20-06	0.24	1.5 0 (79.50-810)	-50	435		K-84-3	7.1	2 (72-74m)	-45	218
	1.05	0.90 (291.10-2920)					*3.8*	*2.1 (319-321.1m)*		
	0.52	19.80 (415.20 – 4350)								

9.1 QA/QC Results

Table 6: Summary of QAQC failure samples from the 2020 Drilling Program.

DDH	Report #	Sample #	STD Type	Outcome
DAR-20-04	**A20-12675**	**24360**	**STD 218**	Failed outside of 3rd SDev. Passed Reassay 1Sdev
DAR-20-04	**A20-12781**	**24420**	**STD 218**	Failed outside of 3rd SDev. Passed Reassay 2Sdev
DAR-20-04	**A20-12781**	**24380**	**STD 221**	Failed outside of 3rd SDev. Passed Reassay 2Sdev
DAR-20-04	**A20-12781**	**24440**	**STD 221**	Failed outside of 3rd SDev. Passed Reassay 1Sdev
DAR-20-06	**A20-13820**	**691310**	**STD 221**	Failed outside of 3rd SDev. Passed Reassay 1Sdev

As noted above, hole DAR-20-04 had a particularly high number of failed standards. All failed standards were re-assayed by Actlabs, including five samples above and below the failed standard. Re-assayed Standard passed and matched certified values.

Orix recommends sending a small subset of pulps to a different lab to verify the quality and accuracy of assaying for hole DAR-20-04 as well as a few high-grade assays intersected in holes DAR-20-05 and DAR-20-06.

10.0 Recommendations and Conclusions

DRILLING

- The 2020 drillhole program succeeded at confirming anomalous gold in the twinned historical areas. However, the results for DAR-20-01 (twinning 25013) are of lower grade and thinner intersection.
- Given that the NW extension of DAR-20-02 had no interesting results, it is recommended to instead continue drilling on strike to the SE of DAR-20-03 as is still anomalous and the geophysical interpretation suggested a stronger target combined with the EM.
- DAR-20-04 and DAR-20-05 targeted a new, previously untested area with an interpreted fold nose and an EM anomaly; DAR-20-04 intersected the projection to depth of the EM, but it had no interesting results. DAR-20-05, however intersected a thick (~18m) section of anomalous values closer to surface and included a very anomalous section of Au, Pt and Pd. Follow up of this area is also recommended.
- Twinning of K84-3 with hole DAR-20-06 resulted in the discovery of a deeper anomalous gold zone associated with an important structure interpreted in 2020. Follow up to this area is recommended as the hole was cut short before ending mineralization. Magnetite destruction, intersecting of interpreted faults make this area very prospective and of high priority.

GEOPHYSICS

- For the immediate areas SE of DAR-20-03, is recommended to deploy a ground EM geophysical survey as there seems to be a direct correlation between Au grade and a sulphide horizon.
- DAR-20-05 intersected very interesting anomalous gold in a previously untested area dominated by a high magnetic and hosted in mafic to ultramafic rocks. It is recommended to deploy a ground magnetic survey that will better define not only the stratigraphy but also the behavior of the fold and minor faults that may be present.
- DAR-20-06, can also benefit from a detailed ground magnetic survey to define the interactions of interpreted faults and to target areas where magnetite destruction may occur.

GEOCHEMISTRY

- The geochemistry can be used to help verify the logged rock types. However, some trace elements (e.g., Zr, Ti, Y) are close to the detection limit of the package used. Therefore, the analytical package used is not ideal for this system. If future geochemical work is warranted, it is suggested that a different analytical package be considered.

11.0 References

1. Bateman, R., Ayer, J.A., and Dubé, B. 2008. The Timmins-Porcupine Gold Camp, Ontario: Anatomy of an Archean Greenstone Belt and Ontogeny of Gold Mineralization. Economic Geology 103 (6): 1285-1308.

2. Ayer, J., Amelin, Y., Corfu, F., Kamo, S., Ketchum, J., Kwok, K., and Trowel, N. 2002. Evolution of the southern Abitibi greenstone belt based on U–Pb geochronology: autochthonous volcanic construction followed by plutonism, regional deformation and sedimentation. Precambrian Research 115 (1-4): 63-95.

3. St-Hilaire, C. 2020. Interpretation Report and 3D-Inversion of Aeromagnetic Data. Project-81: Dargavel Block. Géophysique Camille St-Hilaire Inc. Prepared for Noble Mineral Exploration Inc.

Statement of Qualifications

I, Edwin Escarraga, MSc., P.Geo (ON), of Orix Geoscience Inc. do hereby certify that:

1) I am a project geologist employed by Orix Geoscience Inc., with a business address at 25 Adelaide St East. Suite 1400, Toronto ON, M5C 3A1.

2) I graduated with a BSc. (Honours, Geology) degree in 2007 from Universidad Nacional de Colombia, Bogota, Colombia.

3) I received a MSc. Geology degree in 2010 from Acadia University.

4) I was onsite at the Dargavel Property during the 2020 drill program and conducted drill management and core logging.

Dated this 4 day of March, 2021.

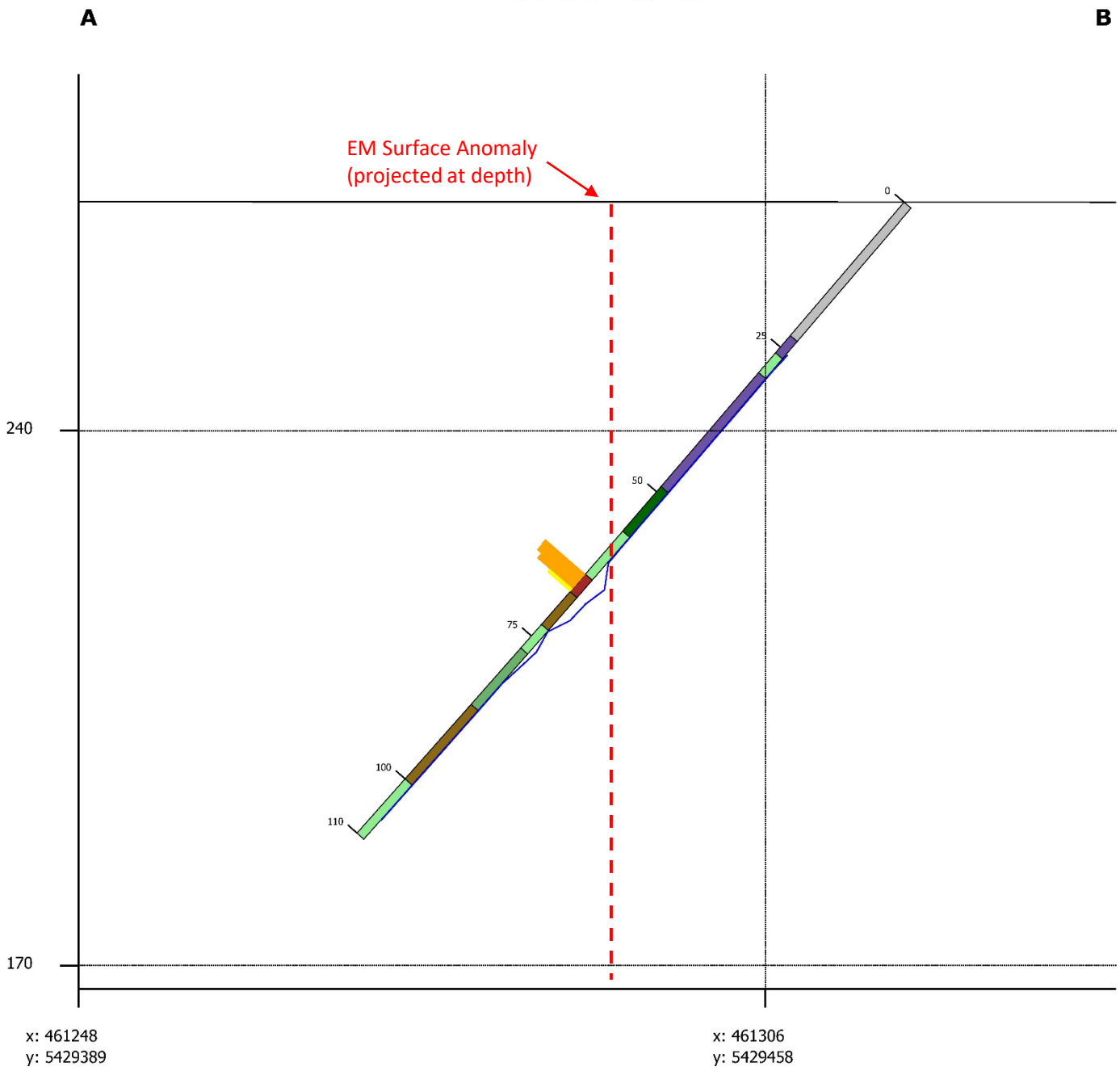
_____

Edwin Escarraga, BSc., M.Sc., P.Geo

APPENDIX I

Cross Sections

DAR-20-01



Magnetic Susceptibility

Lithology

- FIVOL
- FVOL
- IVOL
- MINT
- MVOL
- OVB
- SULZ
- VOLSED

Au (ppm)

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

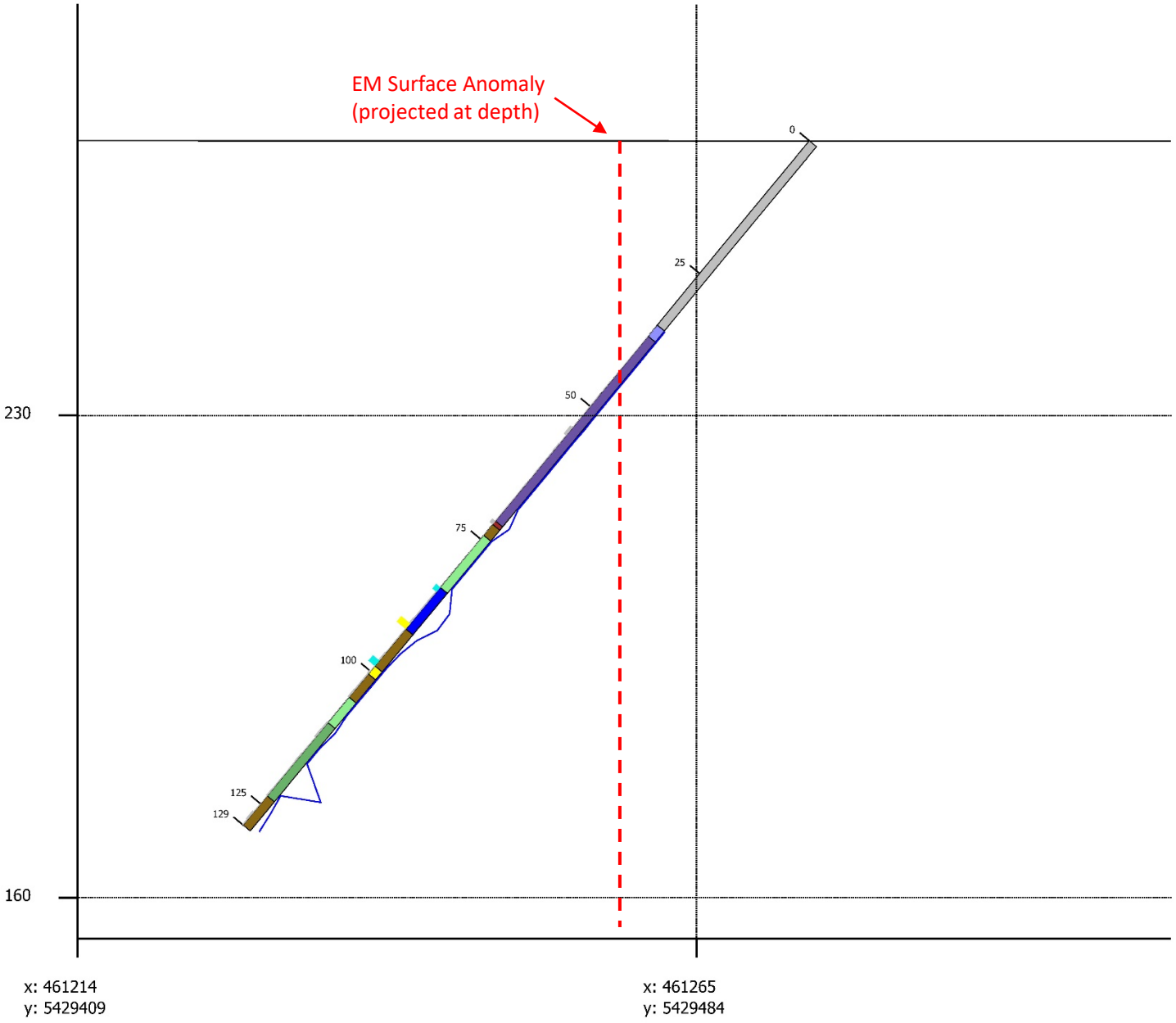
Scale: 1:800

0m 60m

DAR-20-02

A

B



x: 461214
y: 5429409

x: 461265
y: 5429484

Magnetic Susceptibility

Lithology

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- FVOL
- IINT
- ITUFF
- MINT
- OVB
- QTZZN
- SULZ
- VOLSED

Au (ppm)

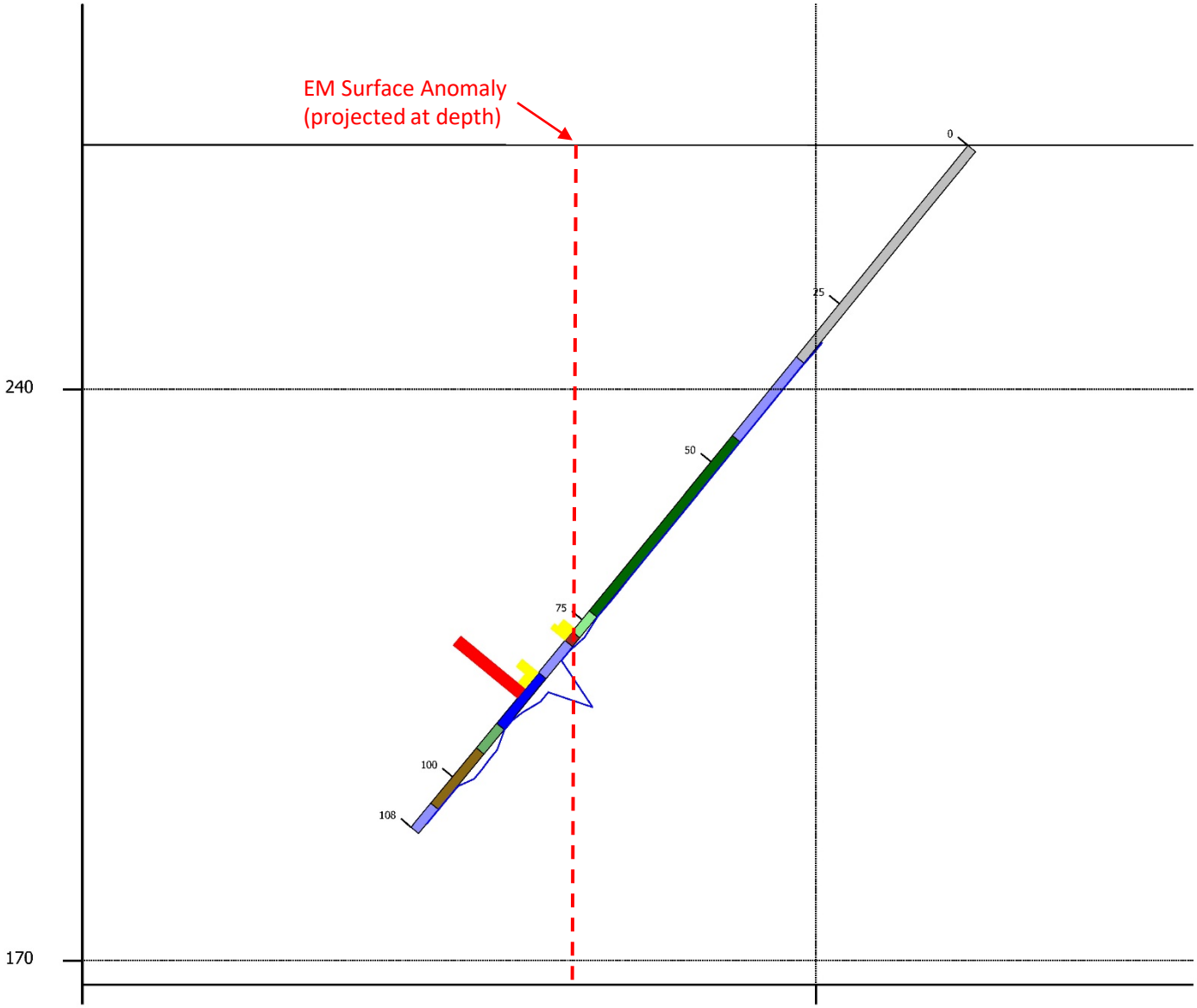
- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Scale: 1:900

0m 60m

DAR-20-03

A



Magnetic Susceptibility

Lithology

- BX
- IVOL
- SULZ
- FIVOL
- MVOL
- VOLSED
- IINT
- OVB

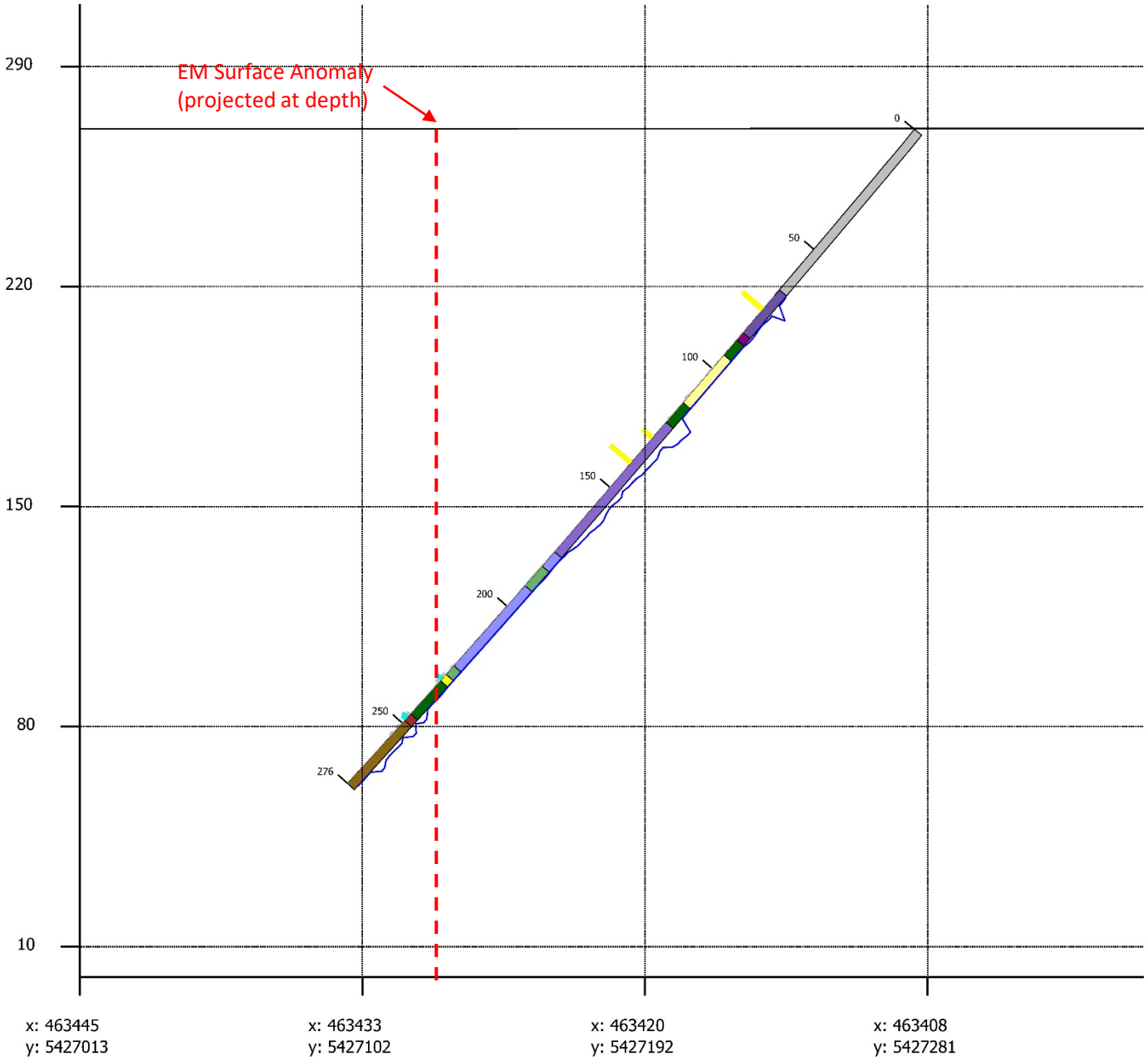
Au (ppm)

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Scale: 1:800

0m 60m

DAR-20-04



Magnetic Susceptibility

Lithology

DIA	MINT	SULZ
IINT	MVOL	UMF
IMTUFF	OVB	VOLSED
IMVOL	QTZZN	

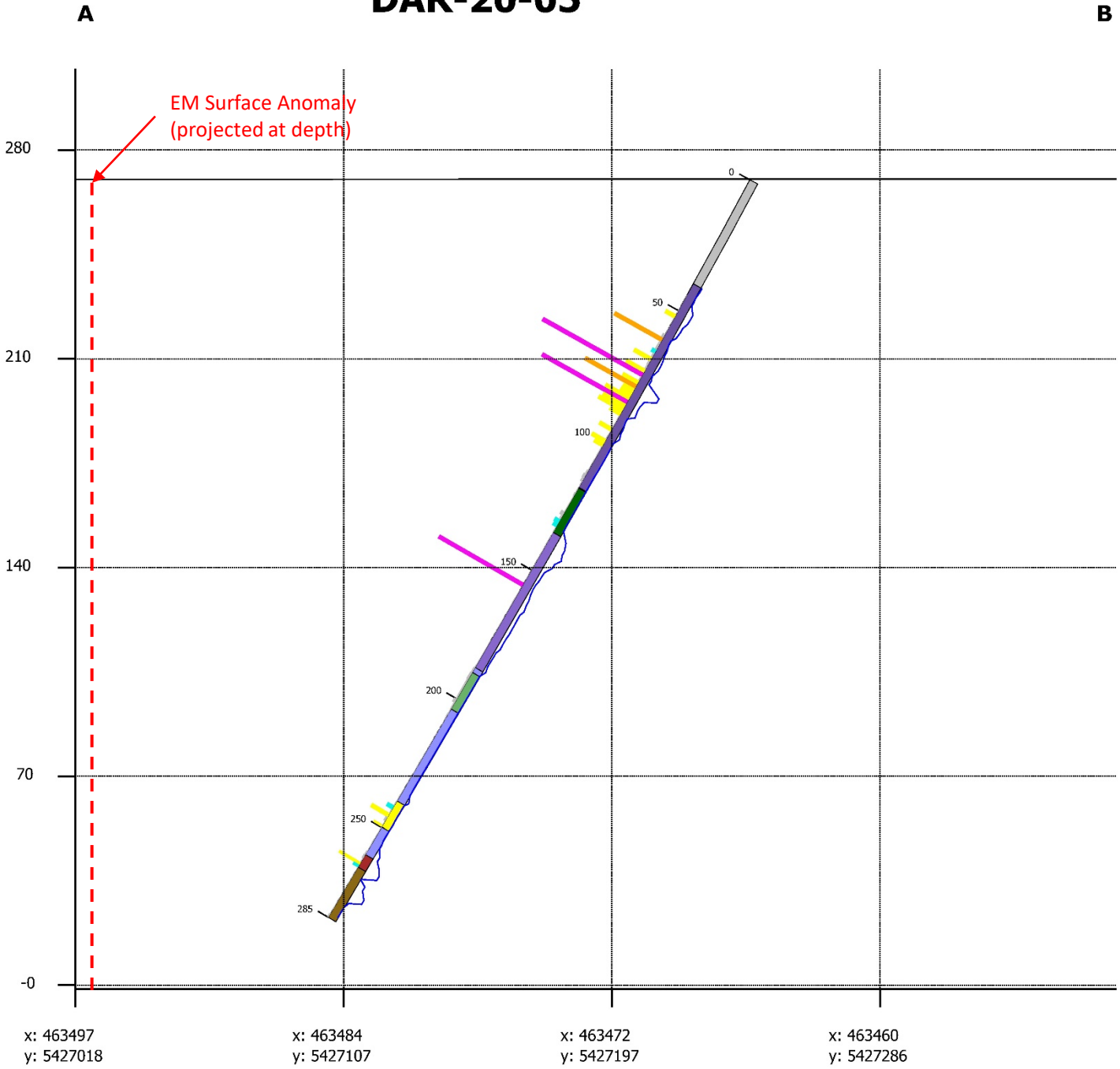
Au (ppm)

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Scale: 1:2,000

0m 100m

DAR-20-05



Magnetic Susceptibility

Lithology

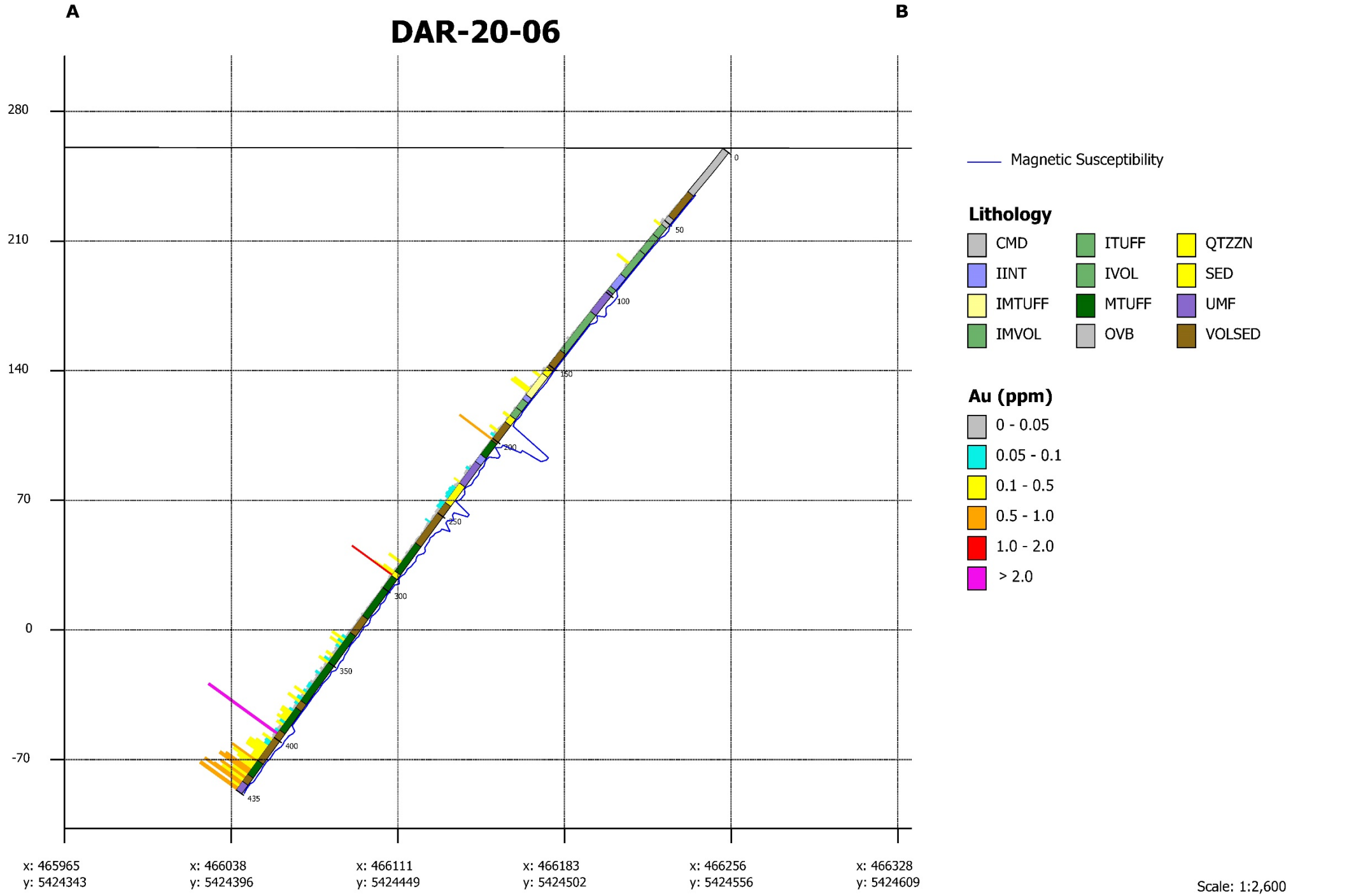
- DIA
- IINT
- IMVOL
- MINT
- MVOL
- OVB
- QTZZN
- SULZ
- UMF
- VOLSED

Au (ppm)

- 0 - 0.05
- 0.05 - 0.1
- 0.1 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- > 2.0

Scale: 1:2,000

0m 100m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B
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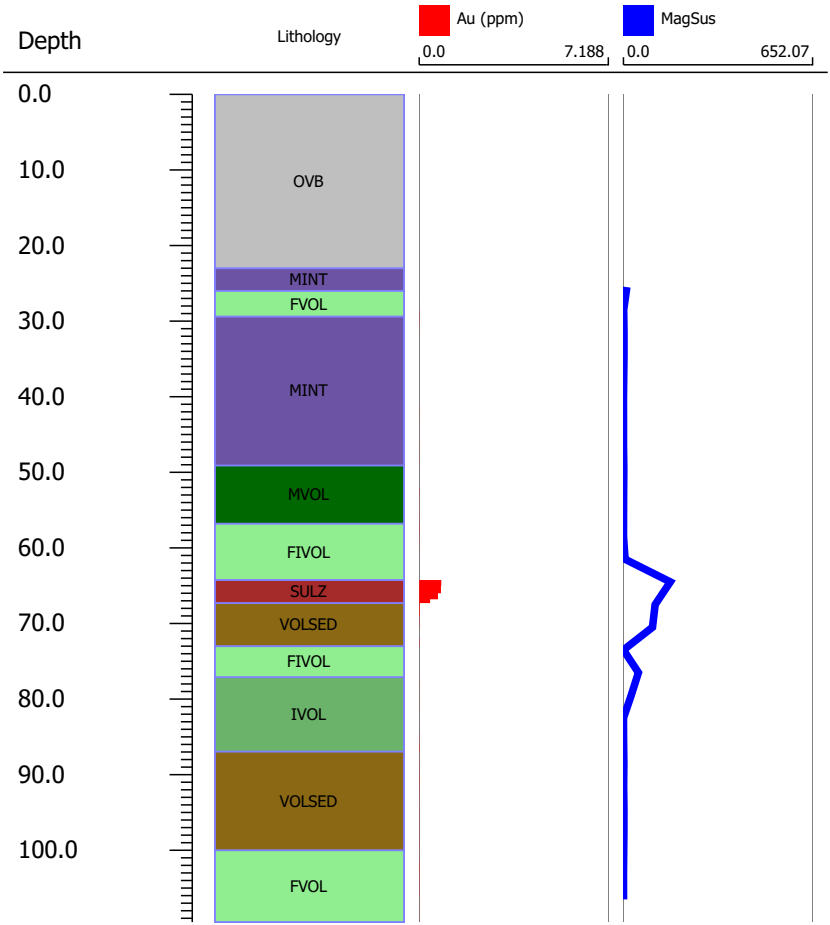
140
70
0
-70
0
50
100
150
200
250
300
350
400
435
x: 465965
y: 5424343
x: 466038
y: 5424396
x: 466111
y: 5424449
x: 466183
y: 5424502
x: 466256
y: 5424556
x: 466328
y: 5424609
Magnetic Susceptibility
Lithology
CMD
IINT
IMTUFF
IMVOL
ITUFF
IVOL
MTUFF
OVB
QTZZN
SED
UMF
VOLSED
Au (ppm)
0 - 0.05
0.05 - 0.1
0.1 - 0.5
0.5 - 1.0
1.0 - 2.0
> 2.0
Scale: 1:2,600
0m
100m

APPENDIX II

Graphic Logs

DAR-20-01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40.0
50.0
60.0
70.0
80.0
90.0
100.0
OVB
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FVOL
MINT
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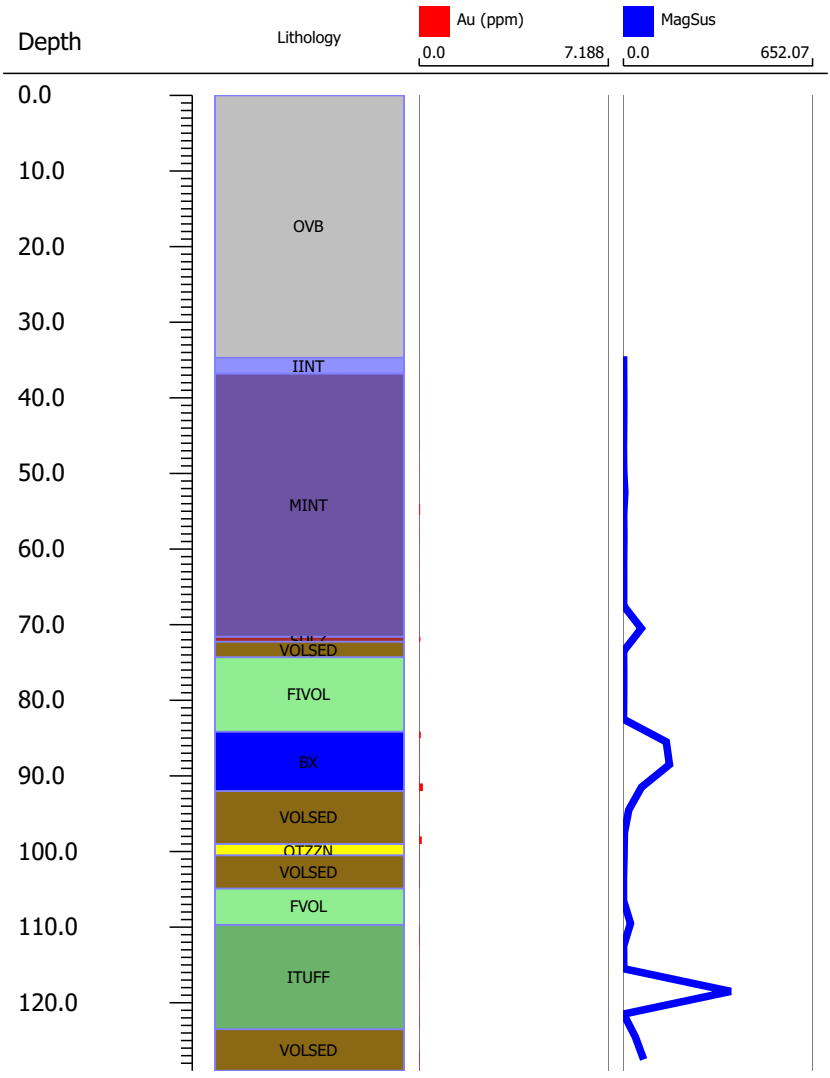
VOLSED
FIVOL
IVOL
VOLSED
FVOL

DAR-20-02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40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
OVB
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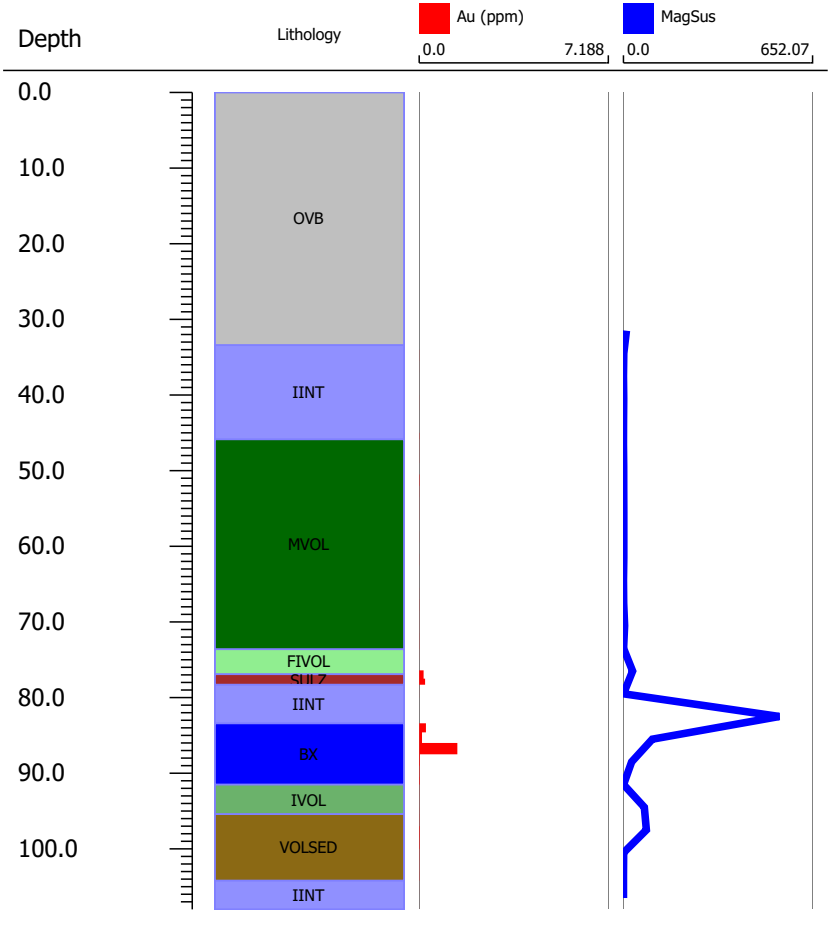
MINT
VOLSED
FIVOL
BX
VOLSED
VOLSED
FVOL
ITUFF
VOLSED

DAR-20-03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70.0
80.0
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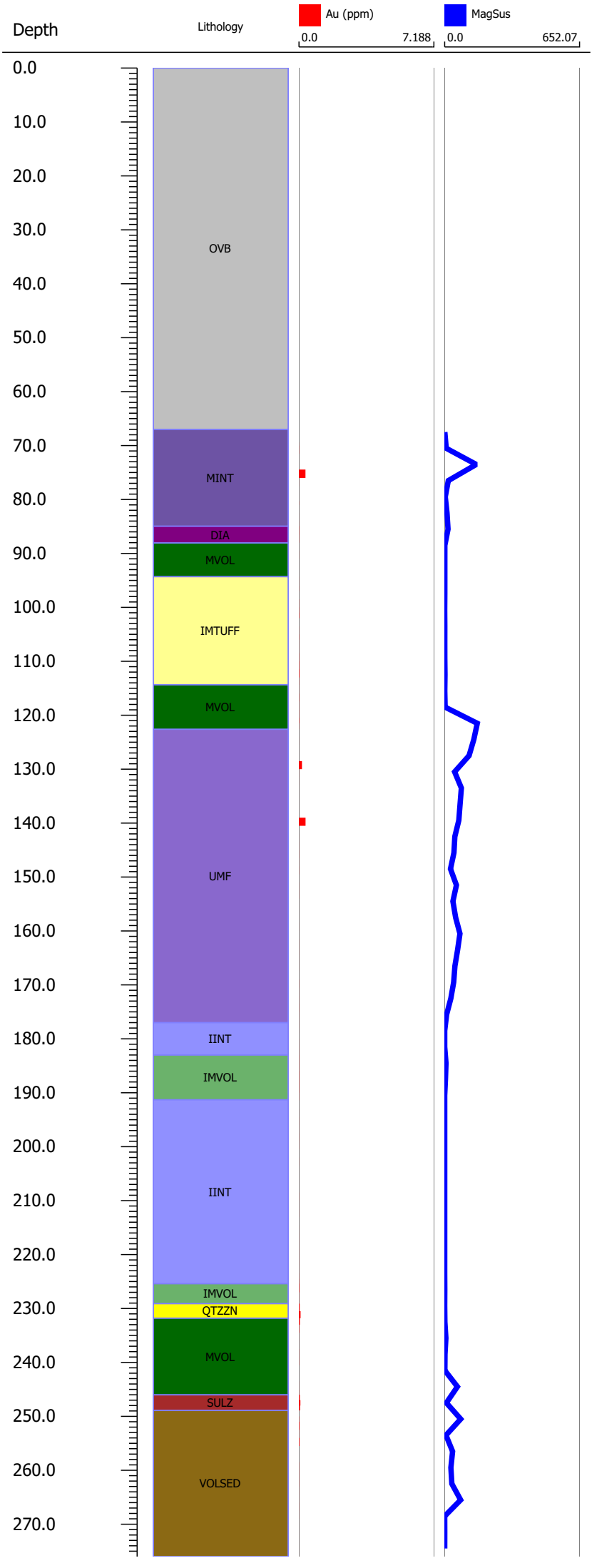
IINT

DAR-20-04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MagSus
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80.0
90.0
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270.0
OVB
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DIA
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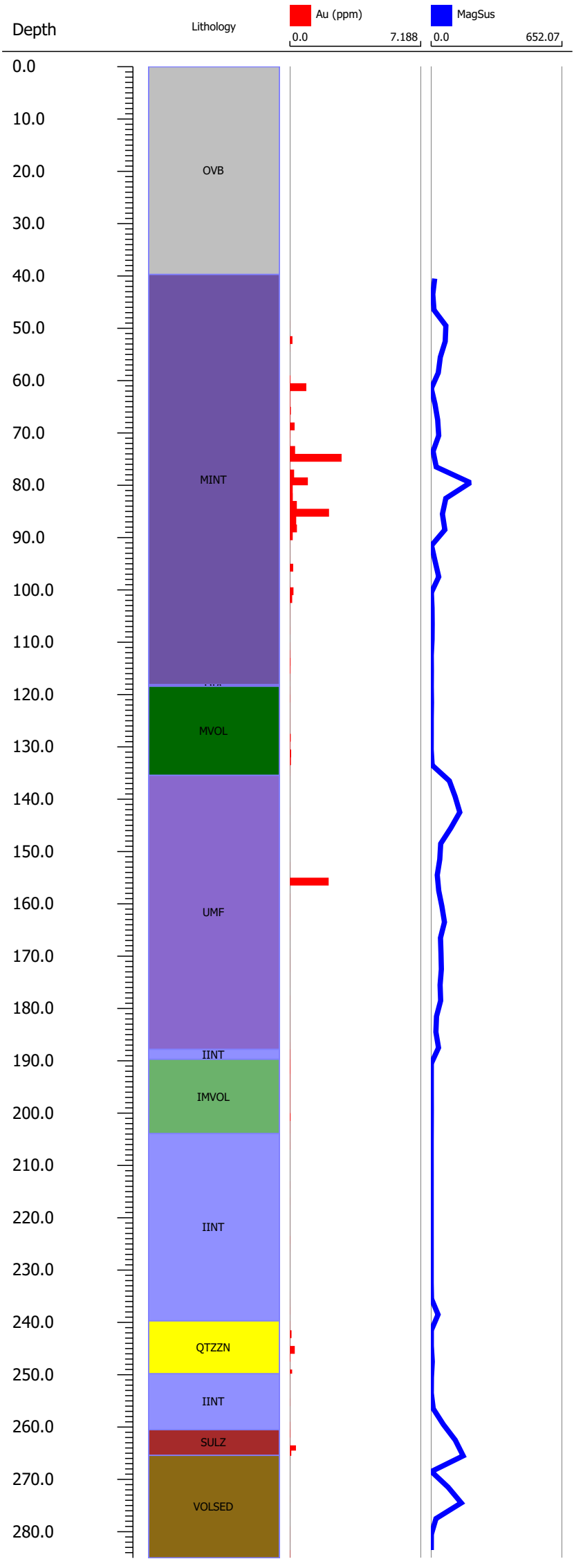
MVOL
SULZ
VOLSED

DAR-20-05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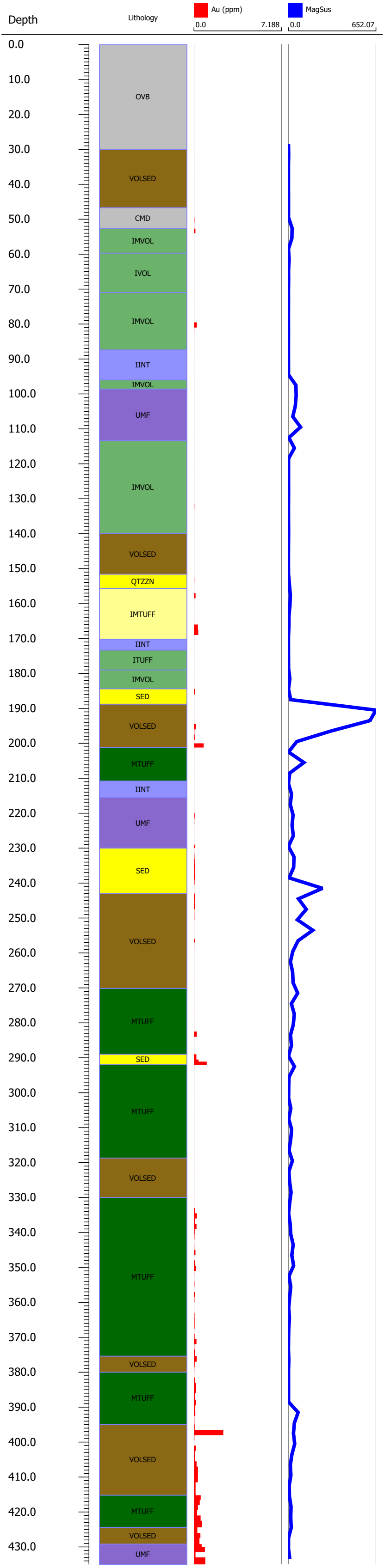
DAR-20-06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IVOL
IMVOL
IINT
IMVOL
UMF
IMVOL
VOLSED
QTZZN
IMTUFF
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VOLSED
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SED
MTUFF
VOLSED
MTUFF
VOLSED
MTUFF
VOLSED
MTUFF
VOLSED
UMF

APPENDIX III

Assay Certificates

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12171**
Report Date: **04-Dec-20**
Date Submitted: **05-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Randy Singh (inv-cc)

CERTIFICATE OF ANALYSIS

63 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2020-11-14 13:33:34
1E3-Timmins	QOP AquaGeo (Aqua Regia ICPOES)	2020-10-27 15:05:02

REPORT **A20-12171**

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:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24101	< 2	< 5	< 5	< 0.2	< 0.5	2	545	1	17	< 2	47	1.49	4	< 10	152	< 0.5	< 2	1.27	8	20	2.94	< 10	< 1
24102	6	< 5	< 5	< 0.2	< 0.5	111	943	1	87	< 2	58	4.87	< 2	< 10	272	< 0.5	< 2	4.12	50	150	4.80	10	< 1
24103	8	< 5	< 5	< 0.2	< 0.5	127	919	< 1	89	< 2	56	4.97	< 2	< 10	110	< 0.5	< 2	5.03	51	158	4.98	10	< 1
24104	3	< 5	< 5	< 0.2	< 0.5	126	762	< 1	98	< 2	58	3.58	< 2	< 10	126	< 0.5	< 2	2.90	52	197	4.70	10	< 1
24105	< 2	< 5	< 5	< 0.2	< 0.5	120	880	< 1	82	< 2	50	2.24	< 2	< 10	77	< 0.5	< 2	3.21	47	152	4.40	< 10	< 1
24106	< 2	< 5	< 5	< 0.2	< 0.5	107	884	< 1	81	< 2	53	2.42	< 2	< 10	72	< 0.5	< 2	4.17	43	173	4.41	< 10	< 1
24107	< 2	< 5	< 5	< 0.2	< 0.5	100	818	< 1	82	< 2	54	2.25	< 2	< 10	94	< 0.5	< 2	3.02	48	176	4.61	< 10	< 1
24108	< 2	< 5	< 5	< 0.2	< 0.5	136	943	< 1	79	< 2	56	2.17	< 2	< 10	283	< 0.5	< 2	2.51	45	179	4.44	10	< 1
24109	< 2	< 5	< 5	< 0.2	< 0.5	133	804	< 1	87	< 2	67	2.86	< 2	< 10	273	< 0.5	< 2	2.33	50	248	5.50	10	< 1
24110	< 2	< 5	< 5	< 0.2	< 0.5	117	615	< 1	32	< 2	76	2.49	< 2	< 10	116	< 0.5	< 2	2.23	27	54	4.97	10	< 1
24111	4	< 5	< 5	< 0.2	< 0.5	123	882	< 1	48	< 2	52	4.16	< 2	< 10	18	< 0.5	< 2	4.98	27	112	5.08	10	< 1
24112	3	< 5	< 5	0.3	< 0.5	120	727	1	45	< 2	70	2.61	< 2	< 10	259	< 0.5	< 2	2.53	31	89	4.66	10	< 1
24113	< 2	< 5	< 5	< 0.2	< 0.5	132	827	< 1	73	< 2	58	2.74	< 2	< 10	260	< 0.5	< 2	3.41	39	173	4.55	10	< 1
24114	4	< 5	< 5	< 0.2	< 0.5	126	910	< 1	67	< 2	48	2.60	< 2	< 10	112	< 0.5	< 2	4.22	38	132	3.98	< 10	< 1
24115	5	< 5	< 5	< 0.2	< 0.5	130	989	< 1	83	< 2	51	3.76	< 2	< 10	189	< 0.5	< 2	4.29	44	143	4.11	10	< 1
24116	6	< 5	< 5	< 0.2	< 0.5	130	1010	< 1	69	< 2	57	5.28	< 2	< 10	135	< 0.5	< 2	5.40	41	135	4.63	10	< 1
24117	< 2	< 5	< 5	< 0.2	< 0.5	139	879	< 1	102	< 2	81	5.24	< 2	< 10	170	< 0.5	< 2	3.18	63	219	6.63	20	< 1
24118	< 2	< 5	< 5	< 0.2	< 0.5	141	924	< 1	102	< 2	66	5.25	< 2	< 10	155	< 0.5	< 2	3.42	63	208	5.36	20	< 1
24119	7	< 5	< 5	10.5	< 0.5	136	1100	< 1	80	< 2	62	5.81	< 2	< 10	175	< 0.5	< 2	5.11	48	167	5.11	20	< 1
24120	527	14	14	0.6	< 0.5	160	678	< 1	62	< 2	69	3.72	4	49	25	< 0.5	< 2	2.97	31	86	6.23	10	< 1
24121	5	< 5	< 5	< 0.2	< 0.5	149	971	< 1	91	< 2	77	6.11	< 2	< 10	247	< 0.5	< 2	3.75	52	190	5.40	20	< 1
24122	6	< 5	< 5	< 0.2	< 0.5	124	1070	< 1	83	< 2	64	5.34	< 2	< 10	152	< 0.5	< 2	3.87	52	180	5.28	20	< 1
24123	11	< 5	< 5	< 0.2	< 0.5	117	1140	< 1	61	< 2	65	4.60	< 2	< 10	222	< 0.5	< 2	3.21	38	166	5.12	10	< 1
24124	6	< 5	< 5	< 0.2	< 0.5	149	877	1	102	< 2	91	6.57	5	< 10	59	0.6	< 2	3.86	61	173	6.25	20	< 1
24125	3	< 5	< 5	< 0.2	< 0.5	31	568	< 1	25	2	43	3.18	< 2	< 10	133	< 0.5	< 2	2.65	16	36	3.08	10	< 1
24126	< 2	< 5	< 5	< 0.2	< 0.5	16	523	< 1	17	3	34	1.69	< 2	< 10	134	< 0.5	< 2	2.09	11	21	2.35	< 10	< 1
24127	< 2	< 5	< 5	< 0.2	< 0.5	14	565	< 1	19	5	38	1.90	< 2	< 10	141	< 0.5	< 2	1.74	11	19	2.14	< 10	< 1
24128	839	< 5	< 5	0.5	< 0.5	39	3120	2	36	22	211	0.48	13	< 10	< 10	< 0.5	4	1.12	47	15	18.5	< 10	1
24129	827	< 5	< 5	0.9	< 0.5	133	5090	5	45	17	48	0.39	5	< 10	12	< 0.5	7	1.66	21	13	22.8	< 10	< 1
24130	714	< 5	< 5	2.8	< 0.5	19	3730	3	21	4	26	0.16	3	< 10	13	< 0.5	3	1.12	5	15	16.9	< 10	< 1
24131	414	< 5	< 5	0.4	< 0.5	28	4380	2	30	< 2	43	0.42	< 2	< 10	32	< 0.5	3	1.63	6	26	19.9	< 10	< 1
24132	2	< 5	< 5	< 0.2	< 0.5	2	138	< 1	< 1	< 2	24	5.06	< 2	< 10	10	0.6	< 2	0.22	< 1	2	0.75	10	< 1
24133	22	< 5	< 5	< 0.2	< 0.5	87	2170	5	107	< 2	65	3.05	< 2	< 10	35	< 0.5	< 2	2.03	60	107	10.7	10	< 1
24134	9	< 5	< 5	< 0.2	< 0.5	68	3300	2	110	< 2	41	2.82	< 2	< 10	28	< 0.5	< 2	2.56	58	104	11.8	10	< 1
24135	< 2	< 5	< 5	< 0.2	< 0.5	50	2650	1	102	< 2	33	2.37	< 2	< 10	71	< 0.5	< 2	3.07	43	265	8.45	10	< 1
24136	11	< 5	< 5	< 0.2	< 0.5	76	2860	1	100	4	35	2.28	< 2	< 10	71	< 0.5	< 2	3.22	51	267	8.43	10	< 1
24137	< 2	< 5	< 5	< 0.2	< 0.5	12	550	3	15	< 2	37	1.55	< 2	< 10	193	< 0.5	< 2	2.56	10	15	2.71	< 10	< 1
24138	< 2	< 5	< 5	< 0.2	< 0.5	6	398	< 1	12	< 2	31	1.30	< 2	< 10	192	< 0.5	< 2	1.99	9	9	2.29	< 10	< 1
24139	< 2	< 5	< 5	< 0.2	< 0.5	17	399	< 1	15	< 2	42	1.19	< 2	< 10	178	< 0.5	< 2	2.03	10	12	2.51	< 10	< 1
24140	4	< 5	< 5	< 0.2	< 0.5	114	732	1	8	< 2	88	1.55	< 2	< 10	358	< 0.5	< 2	2.55	17	3	5.28	< 10	< 1
24141	3	< 5	< 5	< 0.2	< 0.5	106	793	1	11	< 2	86	1.48	< 2	< 10	370	< 0.5	< 2	2.25	16	9	5.41	10	< 1
24142	2	< 5	< 5	< 0.2	< 0.5	110	806	1	10	< 2	86	1.49	< 2	< 10	383	< 0.5	< 2	2.33	17	7	5.48	< 10	< 1
24143	4	< 5	< 5	< 0.2	< 0.5	131	819	< 1	11	< 2	94	1.58	< 2	< 10	342	< 0.5	< 2	2.48	18	8	5.66	10	< 1
24144	< 2	< 5	< 5	< 0.2	< 0.5	53	541	< 1	6	< 2	58	1.22	< 2	< 10	215	< 0.5	< 2	1.47	10	8	3.06	< 10	< 1
24145	2	< 5	< 5	0.2	< 0.5	48	735	< 1	9	< 2	80	1.50	< 2	< 10	291	< 0.5	< 2	1.95	11	14	3.97	< 10	< 1
24146	6	< 5	< 5	< 0.2	< 0.5	117	1080	< 1	16	< 2	90	2.42	< 2	< 10	693	< 0.5	< 2	3.07	20	21	5.90	10	< 1
24147	15	5	5	< 0.2	< 0.5	159	1040	< 1	33	3	53	2.05	< 2	< 10	449	< 0.5	< 2	2.63	24	38	4.16	< 10	< 1
24148	5	< 5	6	0.3	< 0.5	100	2860	2	55	4	46	2.81	< 2	< 10	55	< 0.5	< 2	1.87	41	35	11.0	10	< 1
24149	7	< 5	< 5	2.7	< 0.5	99	2810	4	45	< 2	52	2.86	< 2	< 10	31	< 0.5	< 2	1.78	33	37	11.3	10	< 1
24150	12	5	< 5	< 0.2	< 0.5	136	1630	< 1	34	< 2	69	2.88	< 2	< 10	504	< 0.5	< 2	2.19	29	41	7.41	10	< 1
24151	8	7	6	< 0.2	< 0.5	138	1390	< 1	40	< 2	71	2.86	< 2	< 10	628	< 0.5	< 2	2.14	31	44	6.26	10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24152	6	< 5	< 5	< 0.2	< 0.5	122	2230	< 1	39	2	73	3.37	< 2	< 10	472	< 0.5	2	3.07	30	32	9.55	10	< 1
24153	7	< 5	< 5	< 0.2	< 0.5	94	2320	< 1	23	< 2	62	3.24	< 2	< 10	575	< 0.5	< 2	3.71	20	27	8.43	10	< 1
24154	7	< 5	5	< 0.2	< 0.5	126	2210	< 1	28	< 2	81	3.19	< 2	< 10	711	< 0.5	< 2	3.39	25	30	8.71	10	< 1
24155	7	6	< 5	< 0.2	< 0.5	139	1540	< 1	29	< 2	71	2.83	< 2	< 10	524	< 0.5	< 2	2.58	29	33	6.52	10	< 1
24156	8	< 5	< 5	< 0.2	< 0.5	93	2430	< 1	27	4	68	2.79	< 2	< 10	456	< 0.5	< 2	2.93	24	27	8.60	10	< 1
24157	5	< 5	< 5	< 0.2	< 0.5	11	353	< 1	6	< 2	41	1.18	< 2	< 10	118	< 0.5	< 2	1.03	6	11	2.01	< 10	< 1
24158	13	< 5	< 5	< 0.2	< 0.5	9	281	< 1	6	9	76	1.31	< 2	< 10	111	< 0.5	< 2	0.72	7	7	1.90	< 10	< 1
24159	11	< 5	< 5	< 0.2	< 0.5	8	321	< 1	6	< 2	44	1.09	< 2	< 10	85	< 0.5	< 2	0.91	7	12	2.28	< 10	< 1
24160	543	16	16	0.2	< 0.5	155	665	< 1	60	< 2	67	3.64	7	47	23	< 0.5	< 2	2.88	30	84	6.05	10	< 1
24161	9	< 5	< 5	< 0.2	< 0.5	23	316	< 1	6	4	94	1.13	< 2	< 10	74	< 0.5	< 2	1.76	7	8	1.97	< 10	< 1
24162	4	< 5	< 5	< 0.2	< 0.5	9	338	< 1	6	< 2	33	1.21	2	< 10	76	< 0.5	< 2	1.55	6	9	1.99	< 10	< 1
24163	5	< 5	< 5	< 0.2	< 0.5	15	311	< 1	5	< 2	55	1.02	< 2	< 10	94	< 0.5	< 2	1.33	6	8	1.86	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24101	0.68	24	0.79	0.078	0.068	0.03	< 2	3	10	0.13	< 20	3	< 2	< 10	37	< 10	5	11
24102	1.05	< 10	1.28	0.424	0.048	0.14	2	18	89	0.24	< 20	< 1	< 2	< 10	191	< 10	7	6
24103	0.36	< 10	1.45	0.445	0.043	0.14	3	19	117	0.22	< 20	< 1	< 2	< 10	178	< 10	8	3
24104	0.30	< 10	1.70	0.315	0.047	0.17	4	19	50	0.24	< 20	3	< 2	< 10	206	< 10	8	2
24105	0.16	< 10	1.56	0.162	0.039	0.18	2	18	13	0.20	< 20	< 1	< 2	< 10	174	< 10	9	2
24106	0.17	< 10	1.58	0.176	0.041	0.13	3	17	18	0.18	< 20	1	< 2	< 10	158	< 10	8	2
24107	0.25	< 10	1.63	0.121	0.051	0.21	3	19	12	0.19	< 20	< 1	< 2	< 10	188	< 10	9	2
24108	0.55	< 10	1.50	0.165	0.040	0.23	3	21	10	0.26	< 20	2	< 2	< 10	220	< 10	9	2
24109	0.47	< 10	1.74	0.177	0.079	0.17	3	20	18	0.25	< 20	2	< 2	< 10	201	< 10	11	5
24110	0.19	28	1.39	0.165	0.153	0.16	2	13	28	0.20	< 20	1	< 2	< 10	142	< 10	15	3
24111	0.04	< 10	1.90	0.353	0.028	0.08	< 2	19	106	0.16	< 20	< 1	< 2	< 10	144	< 10	8	2
24112	0.31	16	1.51	0.216	0.111	0.09	< 2	18	33	0.19	< 20	5	< 2	< 10	158	< 10	13	6
24113	0.37	< 10	1.48	0.231	0.076	0.12	2	17	36	0.20	< 20	2	< 2	< 10	170	< 10	11	5
24114	0.27	< 10	1.51	0.253	0.037	0.13	3	17	31	0.19	< 20	2	< 2	< 10	156	< 10	9	2
24115	0.34	< 10	1.39	0.434	0.031	0.09	2	18	71	0.20	< 20	4	< 2	< 10	180	< 10	8	2
24116	0.26	< 10	1.38	0.510	0.043	0.12	< 2	18	132	0.19	< 20	5	< 2	< 10	166	< 10	8	2
24117	0.40	< 10	1.45	0.449	0.047	0.30	3	23	101	0.24	< 20	< 1	< 2	< 10	250	< 10	7	3
24118	0.37	< 10	1.18	0.466	0.051	0.27	2	25	130	0.26	< 20	2	< 2	< 10	238	< 10	7	2
24119	0.42	< 10	1.29	0.579	0.047	0.19	3	21	173	0.21	< 20	< 1	< 2	< 10	195	< 10	8	2
24120	0.04	< 10	1.96	0.079	0.039	0.14	3	7	26	0.51	< 20	2	< 2	< 10	185	< 10	13	19
24121	0.63	< 10	1.55	0.571	0.036	0.15	2	23	149	0.27	< 20	< 1	< 2	< 10	237	< 10	7	4
24122	0.42	< 10	1.49	0.468	0.050	0.14	< 2	19	148	0.25	< 20	< 1	< 2	< 10	204	< 10	7	3
24123	0.60	< 10	1.57	0.365	0.055	0.06	2	18	133	0.26	< 20	3	< 2	< 10	199	< 10	8	5
24124	0.91	< 10	1.23	0.640	0.065	0.65	3	20	232	0.30	< 20	3	< 2	< 10	237	< 10	9	6
24125	0.39	28	0.74	0.415	0.092	0.37	< 2	5	134	0.13	< 20	< 1	< 2	< 10	53	< 10	7	3
24126	0.42	34	0.70	0.218	0.108	0.18	< 2	3	53	0.12	< 20	< 1	< 2	< 10	34	< 10	7	4
24127	0.51	34	0.64	0.194	0.110	0.14	< 2	3	51	0.11	< 20	3	< 2	< 10	31	< 10	7	4
24128	0.06	< 10	0.79	0.016	0.009	9.59	6	5	39	0.02	< 20	2	< 2	< 10	36	< 10	2	21
24129	0.09	< 10	0.94	0.021	0.008	3.71	6	7	98	0.02	< 20	5	< 2	< 10	45	< 10	3	53
24130	0.02	< 10	0.53	0.022	0.008	2.29	6	2	57	0.02	< 20	1	< 2	< 10	25	< 10	2	27
24131	0.12	< 10	0.80	0.040	0.037	1.49	5	4	92	0.04	< 20	3	< 2	< 10	64	< 10	4	31
24132	1.44	< 10	0.04	2.84	0.001	0.01	< 2	< 1	12	< 0.01	< 20	< 1	< 2	12	< 1	< 10	3	2
24133	1.51	38	1.29	0.138	0.172	0.96	2	12	56	0.26	< 20	< 1	< 2	< 10	144	< 10	11	14
24134	0.60	37	1.12	0.149	0.153	1.12	4	7	72	0.17	< 20	2	< 2	< 10	123	< 10	12	10
24135	0.51	52	0.93	0.190	0.206	0.42	5	7	96	0.16	< 20	< 1	< 2	< 10	115	< 10	11	8
24136	1.03	50	1.13	0.107	0.203	0.48	5	6	85	0.21	< 20	4	< 2	< 10	121	< 10	11	10
24137	0.79	18	0.97	0.089	0.065	0.05	< 2	2	68	0.11	< 20	3	< 2	< 10	29	< 10	5	16
24138	0.71	17	0.81	0.086	0.059	0.03	< 2	2	51	0.11	< 20	2	< 2	< 10	24	< 10	4	15
24139	0.59	19	0.68	0.087	0.064	0.05	< 2	2	40	0.11	< 20	2	< 2	< 10	28	< 10	4	18
24140	0.87	40	0.98	0.084	0.204	0.04	< 2	7	53	0.20	< 20	1	< 2	< 10	110	< 10	17	9
24141	0.71	41	0.96	0.114	0.168	0.05	< 2	7	79	0.22	< 20	4	< 2	< 10	108	< 10	16	9
24142	0.75	42	1.01	0.107	0.173	0.04	< 2	8	79	0.21	< 20	2	< 2	< 10	111	< 10	16	10
24143	0.74	40	1.07	0.092	0.200	0.13	< 2	8	95	0.18	< 20	5	< 2	< 10	107	< 10	17	9
24144	0.64	21	0.65	0.095	0.086	0.01	< 2	3	39	0.17	< 20	1	< 2	< 10	49	< 10	7	10
24145	0.91	23	0.79	0.094	0.094	0.02	< 2	5	51	0.19	< 20	3	< 2	< 10	58	< 10	7	11
24146	1.65	45	1.10	0.109	0.215	0.05	2	12	113	0.28	< 20	2	< 2	< 10	146	< 10	17	9
24147	1.41	55	0.83	0.100	0.274	0.05	< 2	7	64	0.26	< 20	5	< 2	< 10	122	< 10	14	6
24148	1.28	36	1.12	0.079	0.155	0.59	4	8	68	0.22	< 20	1	< 2	< 10	140	< 10	10	13
24149	1.27	39	1.17	0.113	0.176	1.08	3	12	55	0.23	< 20	2	< 2	< 10	161	< 10	11	13
24150	1.71	49	1.53	0.114	0.242	0.14	2	15	84	0.28	< 20	2	< 2	< 10	182	< 10	13	9
24151	1.92	51	1.14	0.106	0.269	0.09	< 2	13	67	0.32	< 20	2	< 2	< 10	175	< 10	15	8

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24152	2.11	41	1.69	0.099	0.196	0.16	2	12	100	0.31	< 20	< 1	< 2	< 10	160	< 10	13	14
24153	1.56	36	1.80	0.125	0.177	0.08	3	12	154	0.23	< 20	< 1	< 2	< 10	137	< 10	12	10
24154	1.94	45	1.75	0.128	0.212	0.06	3	16	120	0.30	< 20	3	< 2	< 10	182	< 10	15	12
24155	1.82	48	1.12	0.114	0.245	0.04	2	17	72	0.29	< 20	2	< 2	< 10	177	< 10	16	9
24156	1.45	38	1.43	0.111	0.180	0.09	3	13	79	0.25	< 20	< 1	< 2	< 10	153	< 10	13	11
24157	0.45	11	0.43	0.083	0.039	0.03	< 2	1	42	0.09	< 20	1	< 2	< 10	15	< 10	3	28
24158	0.50	10	0.48	0.089	0.038	0.13	< 2	1	51	0.08	< 20	< 1	< 2	< 10	14	< 10	3	32
24159	0.35	11	0.54	0.098	0.040	0.15	< 2	1	44	0.08	< 20	3	< 2	< 10	16	< 10	3	30
24160	0.04	< 10	1.91	0.076	0.038	0.14	4	7	25	0.50	< 20	3	< 2	< 10	181	< 10	13	19
24161	0.26	11	0.47	0.087	0.039	0.15	< 2	1	63	0.04	< 20	< 1	< 2	< 10	14	< 10	3	21
24162	0.29	< 10	0.49	0.082	0.036	0.07	< 2	1	60	0.04	< 20	2	< 2	< 10	13	< 10	3	18
24163	0.41	11	0.50	0.084	0.036	0.08	< 2	1	44	0.08	< 20	< 1	< 2	< 10	15	< 10	3	23

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas				0.3	< 0.5	65	996	< 1	21	90	126	7.15	250	< 10	987	1.0	< 2	0.16	13	78	5.45	20	2
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
OREAS 134b (AQUA REGIA) Meas				> 100	475	1170				> 5000	> 10000		224						94		10.9		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	531	1240				> 5000	> 10000		230						96		11.1		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	521	1150				> 5000	> 10000		220						92		10.5		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 133a (Aqua Regia) Meas				92.9	292	300				> 5000	> 10000		142		< 10				20		7.28		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				> 100	314	325				> 5000	> 10000		153		< 10				22		7.86		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				89.5	289	279				> 5000	> 10000		137		12				19		7.03		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 922 (AQUA REGIA) Meas				0.9	< 0.5	2310	762	< 1	33	59	281	2.92	7		84	0.8	10	0.40	20	45	5.36	10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.1	< 0.5	2410	789	< 1	33	57	284	3.07	7		89	0.9	9	0.42	21	46	5.62	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4570	897	< 1	32	83	353	2.90	9		67	0.7	18	0.43	23	42	6.12	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.7	< 0.5	4380	860	< 1	30	77	354	2.94	6		71	0.7	26	0.40	22	42	6.18	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA)				1.7	< 0.5	4500	877	1	31	80	373	3.02	10		72	0.8	21	0.41	23	42	6.32	< 10	

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia) Meas				1.2	< 0.5	6330	358	5	4	35	152	1.21	36		228	1.1	18	0.29	46	9	8.16	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
OREAS 907 (Aqua Regia) Meas				1.4	< 0.5	6290	335	5	4	32	153	1.20	43		245	1.2	22	0.28	46	8	8.27	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4430	1930	1210																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4980	1970	1240																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				66.9	280	3630	546	13	25	> 5000	> 10000	1.63	78			0.6	3	1.69	28	31	3.50	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				71.7	302	3800	563	14	24	> 5000	> 10000	1.92	95			0.7	7	1.76	31	33	3.87	10	5
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				73.0	303	3750	554	13	26	> 5000	> 10000	1.90	88			0.7	9	1.70	30	33	3.83	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1900	1630	238																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 45f (Aqua Regia) Meas						336	183	< 1	211	9	28	7.51			147	1.1	< 2	0.08	43	359	14.1	20	< 1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	91	542	< 1	76	35	135	1.77	30		184	1.4	< 2	1.11	32	55	3.92	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
Oreas 623 (Aqua Regia) Meas				18.3	47.2	> 10000	536	8	14	2230	8980	1.67	80			< 0.5	4	1.03	193	13	11.9	10	2
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
24103 Orig				< 0.2	< 0.5	128	924	< 1	89	< 2	56	4.99	< 2	< 10	110	< 0.5	< 2	5.04	51	159	5.01	10	< 1
24103 Dup				< 0.2	< 0.5	126	914	< 1	89	< 2	57	4.95	3	< 10	109	< 0.5	< 2	5.02	51	157	4.95	10	< 1
24110 Orig	< 2	< 5	< 5																				
24110 Dup	< 2	< 5	< 5																				
24111 Orig				< 0.2	< 0.5	122	879	< 1	48	< 2	51	4.15	< 2	< 10	19	< 0.5	< 2	4.95	27	112	5.06	10	< 1
24111 Dup				< 0.2	< 0.5	125	886	< 1	48	< 2	52	4.18	< 2	< 10	18	< 0.5	< 2	5.01	27	113	5.09	10	< 1
24121 Orig	5	< 5	< 5																				

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24121 Dup	6	< 5	< 5																				
24130 Orig	744	< 5	< 5																				
24130 Dup	685	< 5	< 5																				
24140 Orig	4	< 5	< 5																				
24140 Dup	4	< 5	< 5																				
24150 Orig	12	5	< 5	< 0.2	< 0.5	136	1630	< 1	34	< 2	69	2.88	< 2	< 10	504	< 0.5	< 2	2.19	29	41	7.41	10	< 1
24150 Split PREP DUP	12	5	< 5	< 0.2	< 0.5	139	1690	< 1	36	< 2	70	2.99	< 2	< 10	506	< 0.5	< 2	2.25	29	42	7.63	10	< 1
24150 Orig				< 0.2	< 0.5	138	1630	< 1	34	< 2	69	2.91	< 2	< 10	511	< 0.5	< 2	2.21	29	41	7.48	10	< 1
24150 Dup				< 0.2	< 0.5	134	1620	< 1	33	< 2	69	2.85	< 2	< 10	497	< 0.5	< 2	2.17	28	41	7.33	10	< 1
24161 Orig	8	< 5	< 5																				
24161 Dup	9	< 5	< 5																				
24163 Orig				< 0.2	< 0.5	16	320	< 1	5	2	56	1.05	< 2	< 10	96	< 0.5	< 2	1.36	6	8	1.92	< 10	< 1
24163 Dup				0.5	< 0.5	15	302	< 1	6	< 2	54	0.98	< 2	< 10	91	< 0.5	< 2	1.30	6	8	1.80	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	3	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas	1.09	< 10	0.37	0.088	0.033	0.01	4	19	33		< 20	3	< 2	< 10	172	< 10	5	13
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
OREAS 134b (AQUA REGIA) Meas						14.9												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						16.4												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						14.7												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 133a (Aqua Regia) Meas						10.2	139											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						11.2	147											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						9.51	143											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.44	36	1.34	0.028	0.062	0.37	3	4	16		< 20		< 2	< 10	36	< 10	20	10
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.46	37	1.40	0.030	0.065	0.39	2	4	17		< 20		< 2	< 10	37	< 10	21	8
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.43	35	1.33		0.061	0.69	3	4	15		< 20		< 2	< 10	32	< 10	17	30
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.36	33	1.43		0.059	0.66	2	3	14		< 20		< 2	< 10	35	< 10	18	11
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA)	0.38	33	1.46		0.060	0.69	4	4	15		< 20		< 2	< 10	36	< 10	19	12

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																		
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.35	37	0.22	0.100	0.023	0.06	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	22
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
OREAS 907 (Aqua Regia) Meas	0.34	37	0.22	0.093	0.024	0.06	5	2	13	0.03	< 20	4	< 2	< 10	6	< 10	7	61
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.35	19	0.41	0.186	0.034	4.57	122	2	20		< 20		< 2	< 10	11	< 10	7	63
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.36	20	0.45	0.172	0.033	4.65	131	2	20		< 20		< 2	< 10	13	11	8	49
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.36	20	0.44	0.175	0.034	4.50	138	2	19		< 20		< 2	< 10	13	< 10	8	63
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.11	12	0.17	0.044	0.022	0.03		33	16	0.15	< 20		< 2	< 10	198		6	32
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.38		0.59	0.093	0.043	0.12	9	4	19		< 20	< 1	< 2	< 10	27		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
Oreas 623 (Aqua Regia) Meas	0.18	16	0.95	0.081	0.041	8.49	24	4	14		< 20	< 1	< 2	< 10	14	< 10	7	55
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
24103 Orig	0.37	< 10	1.46	0.447	0.043	0.14	2	19	119	0.23	< 20	< 1	< 2	< 10	179	< 10	8	3
24103 Dup	0.36	< 10	1.45	0.443	0.043	0.14	3	18	116	0.22	< 20	< 1	< 2	< 10	178	< 10	8	2
24110 Orig																		
24110 Dup																		
24111 Orig	0.04	< 10	1.89	0.353	0.028	0.08	< 2	19	106	0.16	< 20	< 1	< 2	< 10	144	< 10	8	2
24111 Dup	0.04	< 10	1.90	0.353	0.028	0.08	< 2	19	107	0.15	< 20	< 1	< 2	< 10	144	< 10	8	2
24121 Orig																		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24121 Dup																		
24130 Orig																		
24130 Dup																		
24140 Orig																		
24140 Dup																		
24150 Orig	1.71	49	1.53	0.114	0.242	0.14	2	15	84	0.28	< 20	2	< 2	< 10	182	< 10	13	9
24150 Split PREP DUP	1.76	49	1.57	0.119	0.242	0.14	< 2	15	86	0.29	< 20	2	< 2	< 10	184	< 10	13	9
24150 Orig	1.73	48	1.54	0.112	0.247	0.14	2	15	85	0.28	< 20	1	< 2	< 10	184	< 10	13	9
24150 Dup	1.69	49	1.51	0.115	0.236	0.13	2	14	83	0.27	< 20	2	< 2	< 10	180	< 10	13	8
24161 Orig																		
24161 Dup																		
24163 Orig	0.43	11	0.51	0.087	0.037	0.09	< 2	1	45	0.08	< 20	< 1	< 2	< 10	16	< 10	3	23
24163 Dup	0.40	10	0.48	0.082	0.035	0.08	< 2	1	42	0.08	< 20	< 1	< 2	< 10	15	< 10	3	23
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12283**
Report Date: **04-Dec-20**
Date Submitted: **06-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Randy Singh (inv-cc)

CERTIFICATE OF ANALYSIS

73 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2020-11-23 12:08:18
1E3-Timmins	QOP AquaGeo (Aqua Regia ICPOES)	2020-10-27 15:05:02

REPORT **A20-12283**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24164	< 2	< 5	< 5	< 0.2	< 0.5	12	484	< 1	19	< 2	44	1.22	2	< 10	171	< 0.5	< 2	2.01	11	29	2.91	< 10	< 1
24165	5	< 5	< 5	< 0.2	< 0.5	101	670	< 1	38	< 2	48	2.51	< 2	< 10	111	< 0.5	< 2	3.35	25	108	4.48	< 10	< 1
24166	4	< 5	< 5	< 0.2	< 0.5	118	806	< 1	69	< 2	50	2.78	< 2	< 10	98	< 0.5	< 2	3.40	33	154	4.39	< 10	< 1
24167	4	< 5	< 5	< 0.2	< 0.5	146	887	< 1	74	< 2	47	4.45	3	< 10	131	< 0.5	< 2	4.23	52	183	3.72	10	< 1
24168	4	< 5	< 5	< 0.2	< 0.5	135	831	< 1	67	< 2	45	4.06	< 2	< 10	119	< 0.5	< 2	4.40	38	153	3.51	10	< 1
24169	3	< 5	< 5	< 0.2	< 0.5	118	830	< 1	91	< 2	53	3.35	< 2	< 10	130	< 0.5	< 2	4.05	32	194	4.20	10	< 1
24170	3	< 5	< 5	< 0.2	< 0.5	129	871	< 1	40	< 2	55	4.71	< 2	< 10	199	< 0.5	< 2	3.54	34	82	4.30	10	< 1
24171	8	< 5	< 5	< 0.2	< 0.5	146	705	< 1	67	< 2	73	6.01	< 2	< 10	254	0.5	< 2	1.96	52	207	7.06	20	< 1
24172	< 2	< 5	< 5	0.7	< 0.5	77	714	< 1	46	< 2	53	4.35	< 2	< 10	274	0.6	< 2	1.93	33	151	5.47	20	< 1
24173	7	< 5	< 5	< 0.2	< 0.5	118	749	< 1	59	< 2	52	5.37	< 2	< 10	314	0.6	< 2	2.45	35	204	5.15	20	< 1
24174	6	< 5	< 5	0.2	< 0.5	107	721	< 1	47	< 2	52	3.81	< 2	< 10	120	< 0.5	< 2	3.91	27	142	4.78	10	< 1
24175	5	< 5	< 5	1.6	< 0.5	126	688	< 1	50	< 2	48	3.24	< 2	< 10	123	< 0.5	< 2	3.50	32	151	4.59	10	< 1
24176	3	< 5	< 5	0.4	< 0.5	147	669	< 1	53	< 2	53	2.43	< 2	< 10	62	< 0.5	< 2	3.29	29	129	4.82	< 10	< 1
24177	36	< 5	< 5	< 0.2	< 0.5	93	871	< 1	63	< 2	61	3.51	< 2	< 10	104	< 0.5	< 2	4.67	30	185	5.55	10	< 1
24178	6	< 5	< 5	< 0.2	< 0.5	130	693	< 1	61	< 2	53	4.06	< 2	< 10	218	< 0.5	< 2	3.44	32	185	5.14	10	< 1
24179	11	< 5	< 5	< 0.2	< 0.5	147	892	< 1	70	< 2	56	4.16	< 2	< 10	214	< 0.5	< 2	3.07	42	187	5.05	10	< 1
24180	9	< 5	< 5	< 0.2	< 0.5	136	905	< 1	68	< 2	52	4.04	< 2	< 10	203	< 0.5	< 2	3.20	41	179	4.82	10	< 1
24181	7	< 5	< 5	< 0.2	< 0.5	150	853	< 1	65	< 2	54	4.27	< 2	< 10	164	< 0.5	< 2	3.14	40	162	5.41	10	< 1
24182	5	< 5	< 5	0.3	< 0.5	124	786	< 1	68	< 2	52	3.86	< 2	< 10	171	< 0.5	< 2	3.32	39	164	4.96	10	< 1
24183	7	< 5	< 5	< 0.2	< 0.5	122	935	< 1	53	< 2	49	3.59	< 2	< 10	51	< 0.5	< 2	4.46	29	120	5.17	10	< 1
24184	3	< 5	< 5	< 0.2	< 0.5	145	824	< 1	58	< 2	54	3.96	< 2	< 10	110	< 0.5	< 2	2.97	34	157	5.71	10	< 1
24185	9	< 5	< 5	< 0.2	< 0.5	127	842	< 1	67	< 2	53	3.15	< 2	< 10	132	< 0.5	< 2	3.82	36	132	5.39	10	< 1
24186	5	< 5	< 5	< 0.2	< 0.5	97	807	< 1	49	< 2	57	2.84	< 2	< 10	72	< 0.5	< 2	3.72	27	107	4.83	< 10	< 1
24187	6	< 5	< 5	< 0.2	< 0.5	95	747	< 1	45	< 2	51	3.23	< 2	< 10	90	< 0.5	< 2	4.05	27	100	4.74	< 10	< 1
24188	6	< 5	< 5	< 0.2	< 0.5	116	799	< 1	51	< 2	50	4.63	< 2	< 10	294	< 0.5	< 2	3.69	31	137	4.89	10	< 1
24189	5	< 5	< 5	< 0.2	< 0.5	132	840	< 1	91	< 2	55	4.71	< 2	< 10	368	0.6	< 2	3.55	49	182	4.90	10	< 1
24190	44	< 5	< 5	0.6	< 0.5	106	2040	< 1	94	27	49	0.58	46	< 10	< 10	< 0.5	4	1.23	101	44	24.1	< 10	< 1
24191	< 2	< 5	< 5	< 0.2	< 0.5	< 1	122	< 1	< 1	< 2	22	4.96	< 2	< 10	< 10	0.6	< 2	0.21	< 1	2	0.74	10	< 1
24192	< 2	< 5	< 5	0.9	< 0.5	91	2900	2	49	< 2	60	3.71	< 2	< 10	54	0.7	< 2	1.22	38	29	12.7	10	< 1
24193	5	< 5	< 5	< 0.2	< 0.5	89	2930	3	71	7	53	3.09	< 2	< 10	32	< 0.5	< 2	1.92	43	30	11.3	10	< 1
24194	< 2	< 5	< 5	< 0.2	< 0.5	13	682	< 1	33	7	51	2.02	4	< 10	121	< 0.5	< 2	1.39	14	24	3.11	< 10	< 1
24195	5	< 5	< 5	< 0.2	< 0.5	51	547	< 1	18	< 2	24	1.73	< 2	< 10	97	< 0.5	< 2	0.79	9	20	2.42	< 10	< 1
24196	< 2	< 5	< 5	< 0.2	< 0.5	9	576	< 1	13	< 2	37	1.77	< 2	< 10	155	< 0.5	< 2	1.10	9	20	2.73	< 10	< 1
24197	< 2	< 5	< 5	6.9	< 0.5	4	554	< 1	22	< 2	30	1.81	6	< 10	164	< 0.5	< 2	1.35	15	16	2.78	< 10	< 1
24198	< 2	< 5	< 5	< 0.2	< 0.5	10	713	< 1	24	5	33	1.72	< 2	< 10	161	< 0.5	< 2	2.52	17	15	3.16	< 10	< 1
24199	< 2	< 5	< 5	< 0.2	< 0.5	33	579	< 1	27	3	36	1.70	2	< 10	171	< 0.5	< 2	1.25	15	18	2.68	< 10	< 1
24200	1090	14	13	0.3	< 0.5	161	687	< 1	77	3	69	3.74	9	48	27	< 0.5	< 2	3.05	32	126	6.28	10	< 1
24201	< 2	< 5	< 5	< 0.2	< 0.5	28	1100	< 1	21	< 2	28	1.78	< 2	< 10	196	< 0.5	< 2	1.74	12	20	3.68	< 10	< 1
24202	61	< 5	< 5	0.5	< 0.5	63	4060	4	59	< 2	40	1.27	5	< 10	18	< 0.5	3	2.58	73	18	16.7	< 10	< 1
24203	12	< 5	< 5	1.7	< 0.5	139	1980	4	55	4	70	4.74	< 2	< 10	68	1.1	< 2	2.95	35	43	8.29	20	< 1
24204	13	< 5	< 5	< 0.2	< 0.5	155	2220	3	49	2	60	2.90	< 2	< 10	48	< 0.5	< 2	3.74	40	35	8.82	10	< 1
24205	12	< 5	< 5	0.5	< 0.5	114	2980	2	64	< 2	53	2.97	< 2	< 10	28	0.6	< 2	3.11	43	25	14.6	10	< 1
24206	11	< 5	< 5	0.4	< 0.5	150	3020	2	75	< 2	62	2.66	2	< 10	31	0.7	< 2	3.92	40	20	13.1	< 10	1
24207	18	< 5	< 5	< 0.2	< 0.5	132	2160	< 1	57	2	72	3.20	< 2	< 10	43	< 0.5	< 2	2.99	40	34	8.97	10	1
24208	140	5	5	0.3	< 0.5	113	2160	16	81	5	91	3.95	< 2	< 10	33	0.6	3	2.37	60	39	11.2	20	1
24209	9	< 5	< 5	< 0.2	< 0.5	113	2700	2	73	< 2	59	3.18	< 2	< 10	36	0.5	< 2	3.92	52	30	11.1	10	< 1
24210	8	< 5	< 5	< 0.2	< 0.5	100	2600	1	74	4	55	3.05	< 2	< 10	32	0.6	< 2	3.33	48	30	10.3	10	< 1
24211	6	< 5	< 5	0.4	< 0.5	136	2750	4	60	< 2	65	3.60	< 2	< 10	27	0.7	< 2	3.53	44	25	11.4	10	< 1
24212	15	< 5	< 5	2.0	< 0.5	96	2530	6	67	2	51	3.90	< 2	< 10	31	0.7	< 2	3.16	49	25	11.4	10	< 1
24213	99	5	< 5	0.7	< 0.5	209	2030	2	70	3	71	3.64	2	< 10	37	0.9	2	2.92	50	25	11.8	10	< 1
24214	6	< 5	< 5	< 0.2	< 0.5	21	2320	1	3	3	10	0.46	< 2	< 10	29	< 0.5	< 2	6.46	3	12	2.75	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24215	18	< 5	< 5	< 0.2	< 0.5	26	2290	2	17	6	40	2.19	< 2	< 10	369	< 0.5	< 2	6.21	11	20	4.76	< 10	< 1
24216	13	< 5	< 5	< 0.2	< 0.5	121	2310	< 1	42	6	80	5.19	< 2	< 10	116	1.3	< 2	2.49	36	29	9.52	20	< 1
24217	13	< 5	< 5	< 0.2	< 0.5	132	2510	< 1	47	6	109	4.58	< 2	< 10	60	1.2	< 2	2.79	35	28	10.2	20	< 1
24218	18	< 5	< 5	< 0.2	< 0.5	102	1730	2	48	3	78	4.14	< 2	< 10	86	0.7	2	3.37	36	31	7.82	20	< 1
24219	< 2	< 5	< 5	< 0.2	< 0.5	20	464	< 1	6	< 2	47	1.12	< 2	< 10	128	< 0.5	< 2	1.78	6	10	2.09	< 10	< 1
24220	< 2	< 5	< 5	< 0.2	< 0.5	18	426	< 1	6	< 2	49	1.08	< 2	< 10	119	< 0.5	< 2	1.67	7	9	2.13	< 10	< 1
24221	< 2	< 5	< 5	< 0.2	< 0.5	10	352	< 1	5	< 2	41	0.95	< 2	< 10	95	< 0.5	< 2	1.78	6	7	1.92	< 10	< 1
24222	< 2	< 5	< 5	< 0.2	< 0.5	22	775	1	9	< 2	44	1.72	2	< 10	227	< 0.5	< 2	2.59	10	12	3.18	< 10	< 1
24223	17	< 5	< 5	< 0.2	< 0.5	164	2100	1	37	< 2	65	3.64	< 2	< 10	145	0.5	< 2	3.43	28	30	8.85	20	< 1
24224	20	< 5	< 5	< 0.2	< 0.5	140	1950	3	36	3	76	3.38	3	< 10	510	< 0.5	< 2	3.27	29	35	9.16	20	< 1
24225	7	< 5	< 5	0.5	< 0.5	128	1300	< 1	34	< 2	90	3.57	< 2	< 10	696	< 0.5	< 2	3.02	29	35	7.74	20	< 1
24226	9	< 5	< 5	< 0.2	< 0.5	195	1360	< 1	44	< 2	83	3.08	< 2	< 10	630	< 0.5	< 2	2.50	32	38	6.50	10	< 1
24227	14	< 5	< 5	< 0.2	< 0.5	167	1350	< 1	21	< 2	85	2.97	< 2	< 10	750	< 0.5	< 2	3.20	22	35	6.09	20	< 1
24228	9	< 5	< 5	< 0.2	< 0.5	148	1330	1	37	2	87	3.64	< 2	< 10	608	< 0.5	< 2	2.27	31	38	7.88	20	< 1
24229	7	< 5	< 5	< 0.2	< 0.5	94	1280	< 1	37	3	76	3.68	< 2	< 10	553	< 0.5	< 2	2.27	28	35	7.40	20	< 1
24230	9	< 5	5	< 0.2	< 0.5	154	1440	< 1	37	4	59	2.83	< 2	< 10	415	< 0.5	< 2	2.12	29	31	6.99	10	< 1
24231	11	< 5	< 5	< 0.2	< 0.5	133	682	< 1	39	2	59	2.60	< 2	< 10	353	< 0.5	< 2	1.01	32	32	4.80	10	< 1
24232	15	5	6	< 0.2	< 0.5	149	908	1	42	3	72	2.92	< 2	< 10	639	< 0.5	3	1.35	33	40	5.50	20	< 1
24233	3	< 5	< 5	< 0.2	< 0.5	83	2750	< 1	28	< 2	47	2.80	< 2	< 10	121	0.6	< 2	3.70	20	17	10.4	10	< 1
24234	7	< 5	< 5	< 0.2	< 0.5	99	2610	< 1	36	2	50	2.87	< 2	< 10	438	< 0.5	< 2	3.96	29	26	8.82	10	< 1
24235	22	< 5	< 5	< 0.2	< 0.5	109	2660	2	51	3	54	3.22	< 2	< 10	82	0.6	< 2	4.26	31	23	10.0	10	< 1
24236	11	< 5	< 5	< 0.2	< 0.5	138	1720	< 1	41	55	137	3.09	< 2	< 10	122	< 0.5	< 2	3.25	35	26	7.51	10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24164	0.35	29	0.94	0.069	0.093	0.06	< 2	4	15	0.10	< 20	3	< 2	< 10	49	< 10	6	7
24165	0.23	< 10	1.82	0.185	0.028	0.04	< 2	18	19	0.17	< 20	5	< 2	< 10	134	< 10	8	3
24166	0.16	< 10	1.63	0.243	0.029	0.22	< 2	20	32	0.16	< 20	< 1	< 2	< 10	150	< 10	8	3
24167	0.25	< 10	1.16	0.573	0.034	0.17	2	14	91	0.19	< 20	< 1	< 2	< 10	202	< 10	7	3
24168	0.28	< 10	1.22	0.507	0.035	0.13	3	14	84	0.21	< 20	2	< 2	< 10	199	< 10	8	2
24169	0.39	< 10	1.98	0.323	0.035	0.13	4	16	66	0.19	< 20	< 1	< 2	< 10	152	< 10	8	2
24170	0.42	< 10	1.34	0.469	0.039	0.11	< 2	20	80	0.22	< 20	< 1	< 2	< 10	213	< 10	7	2
24171	0.73	< 10	1.63	0.387	0.033	0.22	4	25	61	0.19	< 20	< 1	< 2	< 10	271	< 10	5	3
24172	0.73	< 10	1.31	0.283	0.047	0.21	3	15	50	0.18	< 20	< 1	< 2	< 10	172	< 10	6	6
24173	0.89	< 10	1.58	0.464	0.039	0.15	< 2	20	82	0.21	< 20	< 1	< 2	< 10	224	< 10	6	4
24174	0.47	< 10	1.65	0.315	0.025	0.11	3	16	69	0.18	< 20	2	< 2	< 10	155	< 10	6	2
24175	0.29	< 10	1.57	0.278	0.028	0.21	2	17	54	0.17	< 20	3	< 2	< 10	154	< 10	6	2
24176	0.23	< 10	1.56	0.195	0.023	0.45	3	16	25	0.15	< 20	< 1	< 2	< 10	132	< 10	7	3
24177	1.03	< 10	1.93	0.261	0.026	0.34	3	21	61	0.22	< 20	< 1	< 2	< 10	171	< 10	8	4
24178	0.60	< 10	1.71	0.370	0.025	0.16	3	19	71	0.21	< 20	2	< 2	< 10	169	< 10	6	2
24179	0.59	< 10	1.58	0.375	0.029	0.15	3	21	83	0.22	< 20	4	< 2	< 10	194	< 10	7	3
24180	0.54	< 10	1.59	0.370	0.029	0.14	3	20	82	0.20	< 20	2	< 2	< 10	189	< 10	7	3
24181	0.36	< 10	1.47	0.413	0.027	0.28	2	21	84	0.19	< 20	5	< 2	< 10	185	< 10	7	2
24182	0.43	< 10	1.68	0.345	0.026	0.19	< 2	20	70	0.18	< 20	2	< 2	< 10	171	< 10	7	2
24183	0.13	< 10	2.06	0.266	0.023	0.10	4	17	58	0.14	< 20	2	< 2	< 10	136	< 10	7	2
24184	0.36	< 10	1.63	0.350	0.029	0.43	4	20	65	0.18	< 20	< 1	< 2	< 10	176	< 10	7	2
24185	0.45	< 10	1.92	0.251	0.026	0.26	3	20	44	0.19	< 20	2	< 2	< 10	162	< 10	8	3
24186	0.28	< 10	2.06	0.199	0.024	0.05	< 2	17	34	0.17	< 20	< 1	< 2	< 10	142	< 10	8	3
24187	0.33	< 10	2.01	0.242	0.025	0.03	< 2	17	57	0.16	< 20	4	< 2	< 10	138	< 10	8	2
24188	0.55	< 10	1.53	0.465	0.029	0.11	2	19	152	0.20	< 20	5	< 2	< 10	172	< 10	7	2
24189	1.02	< 10	1.38	0.477	0.032	0.15	3	20	145	0.25	< 20	< 1	< 2	< 10	214	< 10	7	2
24190	0.24	< 10	0.66	0.044	0.018	18.2	7	6	21	0.08	< 20	< 1	< 2	< 10	65	< 10	2	14
24191	1.42	< 10	0.04	2.82	0.001	< 0.01	< 2	< 1	12	< 0.01	< 20	2	< 2	11	< 1	< 10	3	2
24192	1.09	40	1.52	0.084	0.195	0.51	4	8	38	0.17	< 20	1	< 2	< 10	131	< 10	10	10
24193	0.88	40	1.40	0.110	0.194	1.00	4	8	31	0.16	< 20	< 1	< 2	< 10	130	< 10	12	9
24194	0.71	23	0.97	0.122	0.067	0.15	< 2	3	39	0.10	< 20	2	< 2	< 10	28	< 10	5	10
24195	0.61	22	0.88	0.093	0.063	0.07	< 2	2	30	0.10	< 20	2	< 2	< 10	29	< 10	5	13
24196	0.83	21	1.05	0.106	0.070	0.02	< 2	3	29	0.14	< 20	< 1	< 2	< 10	40	< 10	5	15
24197	0.78	19	0.97	0.133	0.063	0.18	< 2	3	44	0.13	< 20	3	< 2	< 10	34	< 10	5	13
24198	0.59	17	1.68	0.089	0.058	0.09	< 2	4	57	0.09	< 20	< 1	< 2	< 10	44	< 10	5	14
24199	0.62	20	0.90	0.129	0.066	0.08	< 2	4	43	0.12	< 20	3	< 2	< 10	40	< 10	5	10
24200	0.06	< 10	2.12	0.079	0.039	0.20	2	8	29	0.51	< 20	5	< 2	< 10	184	< 10	13	19
24201	0.82	18	1.07	0.093	0.063	0.17	< 2	3	38	0.13	< 20	3	< 2	< 10	38	< 10	5	17
24202	0.28	18	1.35	0.036	0.080	2.24	5	4	74	0.07	< 20	2	< 2	< 10	63	< 10	7	29
24203	1.76	53	1.45	0.378	0.272	0.51	2	12	189	0.25	< 20	< 1	< 2	< 10	179	< 10	17	10
24204	1.56	46	1.23	0.186	0.223	0.76	5	10	148	0.25	< 20	4	< 2	< 10	145	< 10	15	13
24205	1.31	33	1.55	0.094	0.166	1.54	5	7	108	0.19	< 20	< 1	< 2	< 10	119	< 10	12	13
24206	1.24	28	2.02	0.102	0.150	1.31	3	6	131	0.17	< 20	< 1	< 2	< 10	96	< 10	10	11
24207	1.97	47	1.35	0.135	0.229	0.93	3	10	95	0.30	< 20	1	< 2	< 10	152	< 10	14	14
24208	2.28	47	1.43	0.136	0.232	1.51	3	13	130	0.32	< 20	3	< 2	< 10	182	< 10	15	16
24209	1.59	41	1.47	0.120	0.196	1.33	5	10	152	0.24	< 20	1	< 2	< 10	144	< 10	12	14
24210	1.43	43	1.23	0.144	0.206	1.20	2	9	167	0.22	< 20	< 1	< 2	< 10	142	< 10	13	11
24211	1.10	38	1.42	0.175	0.171	1.53	4	7	196	0.19	< 20	< 1	< 2	< 10	105	< 10	11	9
24212	1.40	39	1.34	0.189	0.189	1.66	3	8	268	0.23	< 20	< 1	< 2	< 10	132	< 10	12	10
24213	1.66	34	1.47	0.102	0.171	1.29	4	9	120	0.24	< 20	5	< 2	< 10	139	< 10	11	12
24214	0.06	< 10	0.51	0.043	0.053	0.08	2	3	362	0.02	< 20	< 1	< 2	< 10	12	< 10	8	5

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24215	1.06	20	1.36	0.108	0.098	0.12	< 2	5	272	0.14	< 20	< 1	< 2	< 10	59	< 10	9	5
24216	1.83	45	1.54	0.277	0.217	0.32	3	10	288	0.26	< 20	< 1	< 2	< 10	159	< 10	13	11
24217	1.29	47	1.65	0.152	0.217	0.51	2	11	146	0.31	< 20	1	< 2	< 10	165	< 10	13	14
24218	1.84	51	1.53	0.225	0.272	0.41	< 2	12	192	0.26	< 20	1	< 2	< 10	169	< 10	17	9
24219	0.40	14	0.51	0.090	0.043	0.02	< 2	1	63	0.07	< 20	3	< 2	< 10	19	< 10	3	18
24220	0.36	14	0.51	0.082	0.043	0.02	< 2	1	57	0.06	< 20	1	< 2	< 10	19	< 10	3	18
24221	0.31	13	0.50	0.072	0.041	0.02	< 2	1	73	0.06	< 20	< 1	< 2	< 10	16	< 10	2	16
24222	0.85	16	0.86	0.083	0.057	0.02	< 2	3	117	0.13	< 20	3	< 2	< 10	37	< 10	4	12
24223	2.06	47	1.56	0.120	0.228	0.25	< 2	12	161	0.25	< 20	2	< 2	< 10	158	< 10	13	10
24224	2.26	47	1.70	0.123	0.229	0.14	2	12	84	0.31	< 20	2	< 2	< 10	170	< 10	13	17
24225	2.46	52	1.64	0.113	0.250	0.04	2	15	82	0.36	< 20	2	< 2	< 10	201	< 10	14	18
24226	2.26	56	1.16	0.100	0.282	0.06	< 2	14	67	0.33	< 20	< 1	< 2	< 10	196	< 10	15	13
24227	2.21	53	1.38	0.112	0.264	0.03	< 2	15	92	0.33	< 20	2	< 2	< 10	202	< 10	14	12
24228	2.41	52	1.76	0.137	0.260	0.04	< 2	13	73	0.34	< 20	2	< 2	< 10	190	< 10	14	18
24229	2.28	52	1.72	0.176	0.264	0.05	2	13	93	0.32	< 20	2	< 2	< 10	181	< 10	14	12
24230	1.76	51	1.35	0.108	0.268	0.12	< 2	11	97	0.25	< 20	1	< 2	< 10	154	< 10	14	9
24231	1.74	57	1.07	0.087	0.291	0.04	< 2	10	49	0.27	< 20	2	< 2	< 10	156	< 10	15	6
24232	1.96	58	1.27	0.128	0.288	0.04	< 2	14	73	0.28	< 20	2	< 2	< 10	197	< 10	16	7
24233	1.21	35	1.32	0.110	0.167	0.24	3	7	157	0.19	< 20	3	< 2	< 10	121	< 10	11	9
24234	1.59	40	1.54	0.103	0.218	0.13	4	10	169	0.24	< 20	1	< 2	< 10	139	< 10	12	10
24235	1.62	39	1.53	0.102	0.195	0.31	3	8	181	0.24	< 20	< 1	< 2	< 10	135	< 10	12	11
24236	1.75	44	1.51	0.113	0.251	0.23	< 2	12	140	0.26	< 20	2	< 2	< 10	152	< 10	16	8

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas				0.3	< 0.5	65	996	< 1	21	90	126	7.15	250	< 10	987	1.0	< 2	0.16	13	78	5.45	20	2
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
OREAS 134b (AQUA REGIA) Meas				> 100	475	1170				> 5000	> 10000		224						94		10.9		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	531	1240				> 5000	> 10000		230						96		11.1		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	521	1150				> 5000	> 10000		220						92		10.5		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 133a (Aqua Regia) Meas				92.9	292	300				> 5000	> 10000		142		< 10				20		7.28		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				> 100	314	325				> 5000	> 10000		153		< 10				22		7.86		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				89.5	289	279				> 5000	> 10000		137		12				19		7.03		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 922 (AQUA REGIA) Meas				0.9	< 0.5	2310	762	< 1	33	59	281	2.92	7		84	0.8	10	0.40	20	45	5.36	10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				1.1	< 0.5	2410	789	< 1	33	57	284	3.07	7		89	0.9	9	0.42	21	46	5.62	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4570	897	< 1	32	83	353	2.90	9		67	0.7	18	0.43	23	42	6.12	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.7	< 0.5	4380	860	< 1	30	77	354	2.94	6		71	0.7	26	0.40	22	42	6.18	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA)				1.7	< 0.5	4500	877	1	31	80	373	3.02	10		72	0.8	21	0.41	23	42	6.32	< 10	

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia) Meas				1.2	< 0.5	6330	358	5	4	35	152	1.21	36		228	1.1	18	0.29	46	9	8.16	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
OREAS 907 (Aqua Regia) Meas				1.4	< 0.5	6290	335	5	4	32	153	1.20	43		245	1.2	22	0.28	46	8	8.27	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4650	1930	1240																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4580	2030	1330																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4790	2010	1280																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				66.9	280	3630	546	13	25	> 5000	> 10000	1.63	78			0.6	3	1.69	28	31	3.50	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				71.7	302	3800	563	14	24	> 5000	> 10000	1.92	95			0.7	7	1.76	31	33	3.87	10	5
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				73.0	303	3750	554	13	26	> 5000	> 10000	1.90	88			0.7	9	1.70	30	33	3.83	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	2010	1680	243																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1980	1670	226																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	2060	1660	231																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 45f (Aqua Regia) Meas						336	183	< 1	211	9	28	7.51			147	1.1	< 2	0.08	43	359	14.1	20	< 1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	91	542	< 1	76	35	135	1.77	30		184	1.4	< 2	1.11	32	55	3.92	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 623 (Aqua Regia) Meas				18.3	47.2	> 10000	536	8	14	2230	8980	1.67	80			< 0.5	4	1.03	193	13	11.9	10	2
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
24166 Orig				< 0.2	< 0.5	118	809	< 1	69	< 2	50	2.80	< 2	< 10	99	< 0.5	< 2	3.41	33	155	4.43	< 10	< 1
24166 Dup				< 0.2	< 0.5	117	802	< 1	69	< 2	51	2.76	2	< 10	97	< 0.5	< 2	3.39	33	153	4.36	< 10	< 1
24173 Orig	7	< 5	< 5																				
24173 Dup	6	< 5	< 5																				
24179 Orig				< 0.2	< 0.5	146	886	< 1	69	< 2	58	4.13	< 2	< 10	213	< 0.5	< 2	3.04	41	185	5.00	10	< 1
24179 Dup				0.4	< 0.5	149	897	< 1	71	< 2	55	4.20	< 2	< 10	215	< 0.5	< 2	3.10	42	188	5.10	10	< 1
24183 Orig	6	< 5	< 5																				
24183 Dup	7	< 5	< 5																				
24191 Orig				< 0.2	< 0.5	< 1	122	< 1	< 1	< 2	22	4.94	3	< 10	< 10	0.6	< 2	0.21	< 1	2	0.73	10	< 1
24191 Dup				0.2	< 0.5	< 1	123	< 1	< 1	< 2	21	4.98	< 2	< 10	< 10	0.6	< 2	0.21	< 1	2	0.75	10	< 1
24193 Orig	4	< 5	< 5																				
24193 Dup	6	< 5	< 5																				
24203 Orig	12	5	< 5																				
24203 Dup	13	< 5	< 5																				
24205 Orig				0.7	< 0.5	116	2990	2	65	< 2	54	2.99	3	< 10	28	0.6	< 2	3.15	43	26	14.8	10	< 1
24205 Dup				0.2	< 0.5	112	2970	2	64	< 2	52	2.95	< 2	< 10	28	0.6	< 2	3.07	42	25	14.4	10	< 1
24213 Orig	99	5	< 5	0.7	< 0.5	209	2030	2	70	3	71	3.64	2	< 10	37	0.9	2	2.92	50	25	11.8	10	< 1
24213 Split PREP DUP	97	5	< 5	0.7	< 0.5	211	2250	1	74	4	66	3.82	< 2	< 10	36	1.0	4	2.99	51	26	12.3	10	< 1
24223 Orig	16	< 5	< 5																				
24223 Dup	19	< 5	< 5																				
24235 Orig				0.2	< 0.5	113	2700	2	51	3	55	3.30	3	< 10	77	0.6	< 2	4.36	31	24	10.3	10	< 1
24235 Dup				< 0.2	< 0.5	106	2620	1	51	3	52	3.14	< 2	< 10	88	0.6	< 2	4.16	30	23	9.79	10	< 1
24236 Orig				< 0.2	< 0.5	138	1690	< 1	41	55	136	3.05	< 2	< 10	149	< 0.5	< 2	3.23	35	26	7.42	10	< 1
24236 Dup				< 0.2	< 0.5	139	1740	< 1	42	55	138	3.13	< 2	< 10	95	< 0.5	< 2	3.28	35	26	7.60	10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	3	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas	1.09	< 10	0.37	0.088	0.033	0.01	4	19	33		< 20	3	< 2	< 10	172	< 10	5	13
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
OREAS 134b (AQUA REGIA) Meas						14.9												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						16.4												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						14.7												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 133a (Aqua Regia) Meas						10.2	139											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						11.2	147											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						9.51	143											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.44	36	1.34	0.028	0.062	0.37	3	4	16		< 20		< 2	< 10	36	< 10	20	10
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.46	37	1.40	0.030	0.065	0.39	2	4	17		< 20		< 2	< 10	37	< 10	21	8
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.43	35	1.33		0.061	0.69	3	4	15		< 20		< 2	< 10	32	< 10	17	30
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.36	33	1.43		0.059	0.66	2	3	14		< 20		< 2	< 10	35	< 10	18	11
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA)	0.38	33	1.46		0.060	0.69	4	4	15		< 20		< 2	< 10	36	< 10	19	12

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																		
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.35	37	0.22	0.100	0.023	0.06	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	22
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
OREAS 907 (Aqua Regia) Meas	0.34	37	0.22	0.093	0.024	0.06	5	2	13	0.03	< 20	4	< 2	< 10	6	< 10	7	61
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.35	19	0.41	0.186	0.034	4.57	122	2	20		< 20		< 2	< 10	11	< 10	7	63
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.36	20	0.45	0.172	0.033	4.65	131	2	20		< 20		< 2	< 10	13	11	8	49
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.36	20	0.44	0.175	0.034	4.50	138	2	19		< 20		< 2	< 10	13	< 10	8	63
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.11	12	0.17	0.044	0.022	0.03		33	16	0.15	< 20		< 2	< 10	198		6	32
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.38		0.59	0.093	0.043	0.12	9	4	19		< 20	< 1	< 2	< 10	27		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 623 (Aqua Regia) Meas	0.18	16	0.95	0.081	0.041	8.49	24	4	14		< 20	< 1	< 2	< 10	14	< 10	7	55
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
24166 Orig	0.16	< 10	1.66	0.247	0.029	0.22	< 2	20	32	0.16	< 20	< 1	< 2	< 10	151	< 10	8	3
24166 Dup	0.16	< 10	1.60	0.239	0.030	0.23	2	20	31	0.15	< 20	< 1	< 2	< 10	149	< 10	7	3
24173 Orig																		
24173 Dup																		
24179 Orig	0.59	< 10	1.54	0.372	0.028	0.15	2	21	83	0.22	< 20	4	< 2	< 10	193	< 10	7	2
24179 Dup	0.60	< 10	1.61	0.378	0.029	0.16	3	22	83	0.22	< 20	4	< 2	< 10	196	< 10	7	4
24183 Orig																		
24183 Dup																		
24191 Orig	1.40	< 10	0.04	2.78	0.001	< 0.01	< 2	< 1	12	< 0.01	< 20	1	< 2	11	< 1	< 10	3	3
24191 Dup	1.44	< 10	0.04	2.86	0.001	< 0.01	< 2	< 1	12	< 0.01	< 20	2	< 2	12	< 1	< 10	3	2
24193 Orig																		
24193 Dup																		
24203 Orig																		
24203 Dup																		
24205 Orig	1.33	34	1.54	0.094	0.168	1.55	6	7	109	0.19	< 20	1	< 2	< 10	121	< 10	12	14
24205 Dup	1.29	33	1.57	0.094	0.164	1.54	4	7	107	0.19	< 20	< 1	< 2	< 10	118	< 10	12	13
24213 Orig	1.66	34	1.47	0.102	0.171	1.29	4	9	120	0.24	< 20	5	< 2	< 10	139	< 10	11	12
24213 Split PREP DUP	1.70	35	1.51	0.111	0.176	1.45	4	9	124	0.26	< 20	1	< 2	< 10	143	< 10	12	11
24223 Orig																		
24223 Dup																		
24235 Orig	1.67	39	1.57	0.104	0.201	0.32	4	8	185	0.24	< 20	< 1	< 2	< 10	138	< 10	12	11
24235 Dup	1.58	38	1.48	0.101	0.188	0.31	3	8	178	0.24	< 20	3	< 2	< 10	132	< 10	12	11
24236 Orig	1.73	44	1.50	0.110	0.250	0.23	< 2	11	138	0.25	< 20	2	< 2	< 10	150	< 10	16	10
24236 Dup	1.76	44	1.52	0.115	0.253	0.23	3	12	141	0.27	< 20	2	< 2	< 10	154	< 10	16	7
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.012	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12522**
Report Date: **01-Dec-20**
Date Submitted: **09-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Randy Singh

CERTIFICATE OF ANALYSIS

53 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2020-10-30 09:40:26
1E3-Timmins	QOP AquaGeo (Aqua Regia ICPOES)	2020-11-17 20:42:29

REPORT **A20-12522**

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:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24237	4	< 5	< 5	< 0.2	< 0.5	17	266	< 1	8	< 2	57	1.46	< 2	< 10	99	< 0.5	< 2	0.71	7	10	1.66	< 10	< 1
24238	2	< 5	< 5	0.4	< 0.5	11	258	< 1	7	< 2	63	1.38	< 2	< 10	65	< 0.5	< 2	0.49	6	9	1.79	< 10	< 1
24239	< 2	< 5	< 5	0.4	< 0.5	11	263	< 1	7	< 2	58	1.44	< 2	< 10	88	< 0.5	< 2	0.83	7	9	1.75	< 10	< 1
24240	3	< 5	< 5	< 0.2	< 0.5	33	412	< 1	28	< 2	57	2.09	< 2	< 10	173	< 0.5	< 2	1.17	17	50	2.43	< 10	< 1
24241	< 2	< 5	< 5	< 0.2	< 0.5	11	278	< 1	7	< 2	45	1.39	< 2	< 10	154	< 0.5	< 2	0.86	6	11	1.79	< 10	< 1
24242	< 2	< 5	< 5	0.7	< 0.5	10	352	< 1	7	< 2	43	1.25	< 2	< 10	127	< 0.5	< 2	1.81	6	10	1.85	< 10	< 1
24243	9	< 5	< 5	< 0.2	< 0.5	21	415	1	14	< 2	51	2.56	< 2	< 10	238	< 0.5	< 2	2.09	12	26	2.52	< 10	< 1
24244	4	< 5	< 5	0.2	< 0.5	122	573	1	17	3	75	4.92	< 2	< 10	237	0.5	< 2	3.76	20	15	4.17	10	< 1
24245	4	< 5	< 5	< 0.2	< 0.5	117	563	< 1	31	4	80	4.97	< 2	< 10	184	0.5	< 2	3.25	26	60	4.46	20	< 1
24246	< 2	< 5	< 5	0.3	< 0.5	140	671	< 1	122	3	112	5.61	3	< 10	157	0.6	< 2	2.69	72	232	5.10	10	< 1
24247	13	< 5	< 5	0.2	< 0.5	117	1050	< 1	97	< 2	44	5.18	< 2	< 10	227	< 0.5	< 2	5.84	50	162	4.16	10	< 1
24248	559	15	14	0.6	< 0.5	158	687	< 1	63	< 2	61	3.96	8	47	23	< 0.5	< 2	3.10	30	81	5.77	10	< 1
24249	6	< 5	< 5	< 0.2	< 0.5	109	888	< 1	107	< 2	42	3.21	< 2	< 10	239	< 0.5	< 2	3.79	50	180	3.85	< 10	< 1
24250	4	< 5	< 5	< 0.2	< 0.5	124	781	< 1	77	< 2	45	2.41	< 2	< 10	102	< 0.5	< 2	3.56	40	122	3.89	< 10	< 1
24251	4	< 5	< 5	0.2	< 0.5	114	749	< 1	86	< 2	45	2.74	< 2	< 10	155	< 0.5	< 2	3.67	43	138	4.02	< 10	< 1
24252	< 2	< 5	< 5	0.3	< 0.5	130	948	< 1	87	< 2	54	2.95	< 2	< 10	150	< 0.5	< 2	3.89	47	154	4.21	< 10	< 1
24253	3	< 5	< 5	< 0.2	< 0.5	117	1030	< 1	67	< 2	45	3.03	< 2	< 10	131	< 0.5	< 2	4.40	35	114	3.72	< 10	< 1
24254	< 2	< 5	< 5	< 0.2	< 0.5	106	1040	< 1	76	< 2	80	2.52	< 2	< 10	106	< 0.5	< 2	3.66	38	136	3.91	< 10	< 1
24255	4	< 5	< 5	< 0.2	< 0.5	109	854	< 1	61	< 2	44	2.58	< 2	< 10	40	< 0.5	< 2	3.62	32	105	3.83	< 10	< 1
24256	< 2	< 5	< 5	< 0.2	< 0.5	106	1210	< 1	114	< 2	54	2.82	< 2	< 10	158	< 0.5	< 2	3.37	47	257	4.49	< 10	< 1
24257	< 2	< 5	< 5	< 0.2	< 0.5	112	873	< 1	121	< 2	50	2.76	< 2	< 10	117	< 0.5	< 2	3.40	48	292	4.28	< 10	< 1
24258	3	< 5	< 5	0.2	< 0.5	124	876	< 1	75	< 2	43	2.60	< 2	< 10	74	< 0.5	< 2	3.87	38	169	3.93	< 10	< 1
24259	6	< 5	< 5	< 0.2	< 0.5	118	797	< 1	68	< 2	42	2.27	< 2	< 10	44	< 0.5	< 2	3.38	36	107	3.73	< 10	< 1
24260	4	< 5	< 5	< 0.2	< 0.5	131	971	< 1	85	< 2	45	2.84	< 2	< 10	107	< 0.5	< 2	3.39	45	136	4.07	< 10	< 1
24261	4	< 5	< 5	0.6	< 0.5	105	917	< 1	66	< 2	44	4.31	< 2	< 10	131	< 0.5	< 2	4.40	34	115	3.83	< 10	< 1
24262	6	< 5	< 5	< 0.2	< 0.5	118	1040	< 1	102	< 2	79	4.76	< 2	< 10	168	< 0.5	< 2	4.07	52	140	3.88	10	< 1
24263	1050	14	15	0.4	< 0.5	151	668	< 1	72	3	60	3.86	10	42	25	< 0.5	< 2	3.05	30	113	5.56	10	< 1
24264	3	< 5	< 5	< 0.2	< 0.5	47	706	1	31	< 2	48	4.05	3	< 10	23	< 0.5	< 2	2.22	18	31	4.28	10	< 1
24265	< 2	< 5	< 5	< 0.2	< 0.5	18	731	1	18	< 2	41	4.17	2	< 10	167	< 0.5	< 2	2.01	9	28	2.87	10	< 1
24266	167	< 5	< 5	1.6	0.7	68	474	1	47	14	156	0.79	37	< 10	< 10	< 0.5	6	0.14	62	15	20.6	< 10	< 1
24267	224	< 5	< 5	0.8	1.0	136	1940	3	49	16	136	0.76	24	< 10	< 10	< 0.5	6	0.64	44	10	19.4	< 10	< 1
24268	< 2	< 5	< 5	< 0.2	< 0.5	< 1	120	< 1	< 1	< 2	19	5.27	< 2	< 10	10	0.5	< 2	0.22	< 1	4	0.65	10	< 1
24269	3	< 5	< 5	< 0.2	< 0.5	8	600	< 1	16	< 2	39	1.77	< 2	< 10	111	< 0.5	< 2	0.89	9	15	2.69	< 10	< 1
24270	< 2	< 5	< 5	< 0.2	< 0.5	5	554	< 1	15	< 2	42	1.75	< 2	< 10	137	< 0.5	< 2	1.03	10	15	2.62	< 10	< 1
24271	< 2	< 5	< 5	0.2	< 0.5	15	600	< 1	15	< 2	36	1.65	< 2	< 10	128	< 0.5	< 2	1.39	9	15	2.49	< 10	< 1
24272	256	< 5	< 5	0.9	< 0.5	54	7100	30	98	12	35	0.56	4	< 10	13	< 0.5	12	1.38	43	12	27.5	< 10	< 1
24273	107	< 5	< 5	0.2	< 0.5	38	2210	2	69	11	49	2.92	< 2	< 10	23	< 0.5	< 2	1.08	35	68	10.5	10	< 1
24274	1450	< 5	< 5	0.5	< 0.5	68	2610	3	91	< 2	47	2.58	< 2	< 10	35	< 0.5	< 2	2.34	56	61	9.28	10	2
24275	26	< 5	7	0.7	< 0.5	66	2050	2	92	2	56	3.34	< 2	< 10	72	< 0.5	< 2	2.15	55	73	8.52	10	< 1
24276	18	< 5	< 5	< 0.2	< 0.5	73	1940	2	89	< 2	55	3.49	< 2	< 10	63	< 0.5	< 2	2.07	50	125	8.18	10	< 1
24277	22	< 5	< 5	0.3	< 0.5	61	2200	3	97	2	53	2.87	< 2	< 10	33	< 0.5	< 2	1.55	59	67	9.05	10	< 1
24278	7	< 5	5	< 0.2	< 0.5	91	2020	< 1	109	2	60	2.80	< 2	< 10	505	< 0.5	< 2	2.95	48	293	6.39	10	< 1
24279	6	< 5	< 5	< 0.2	< 0.5	85	1220	< 1	73	3	58	2.26	< 2	< 10	495	< 0.5	< 2	3.13	28	258	4.05	< 10	< 1
24280	6	< 5	< 5	< 0.2	< 0.5	86	1230	< 1	73	3	59	2.25	< 2	< 10	501	< 0.5	< 2	3.14	27	256	4.02	< 10	< 1
24281	8	< 5	< 5	< 0.2	< 0.5	109	1480	< 1	109	2	65	2.80	< 2	< 10	656	< 0.5	< 2	3.50	41	342	5.13	10	< 1
24282	10	< 5	< 5	0.9	< 0.5	106	2590	1	65	2	53	3.27	< 2	< 10	546	< 0.5	< 2	2.88	50	81	9.66	10	< 1
24283	21	< 5	< 5	< 0.2	< 0.5	107	2940	2	63	< 2	51	3.01	< 2	< 10	342	< 0.5	< 2	3.51	53	34	11.3	10	< 1
24284	19	< 5	10	0.4	< 0.5	116	2980	2	74	3	45	2.98	< 2	< 10	74	< 0.5	< 2	3.50	61	31	11.3	10	< 1
24285	11	< 5	8	0.3	< 0.5	131	2150	< 1	49	< 2	67	3.62	< 2	< 10	617	< 0.5	< 2	3.06	36	37	9.06	10	< 1
24286	9	< 5	< 5	0.3	< 0.5	111	2830	< 1	48	7	71	3.11	< 2	< 10	429	< 0.5	< 2	3.42	36	30	10.8	10	< 1
24287	10	< 5	7	2.9	< 0.5	122	2210	6	41	< 2	68	3.64	2	< 10	255	< 0.5	< 2	3.37	32	31	9.09	10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24288	2	< 5	< 5	< 0.2	< 0.5	48	638	< 1	9	< 2	41	1.13	< 2	< 10	103	< 0.5	< 2	2.07	7	14	2.00	< 10	< 1
24289	< 2	< 5	< 5	< 0.2	< 0.5	4	626	< 1	8	< 2	17	0.85	< 2	< 10	61	< 0.5	< 2	2.62	6	10	1.59	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24237	0.39	11	0.57	0.111	0.035	0.09	< 2	1	27	0.10	< 20	< 1	< 2	< 10	18	< 10	3	23
24238	0.18	12	0.64	0.062	0.037	0.02	< 2	1	17	0.07	< 20	< 1	< 2	< 10	14	< 10	3	16
24239	0.23	< 10	0.58	0.083	0.035	0.02	< 2	1	24	0.07	< 20	< 1	< 2	< 10	18	< 10	3	26
24240	0.62	< 10	0.77	0.128	0.033	0.05	< 2	7	39	0.15	< 20	2	< 2	< 10	62	< 10	4	20
24241	0.46	< 10	0.63	0.080	0.034	0.02	< 2	2	17	0.10	< 20	1	< 2	< 10	22	< 10	2	31
24242	0.40	10	0.61	0.072	0.032	0.06	< 2	2	20	0.10	< 20	< 1	< 2	< 10	21	< 10	3	27
24243	0.57	< 10	0.73	0.240	0.040	0.06	< 2	4	64	0.14	< 20	< 1	< 2	< 10	46	< 10	4	18
24244	0.60	37	1.16	0.451	0.175	0.19	2	9	181	0.19	< 20	2	< 2	< 10	104	< 10	17	3
24245	0.62	26	1.26	0.402	0.133	0.26	3	13	185	0.20	< 20	< 1	< 2	< 10	132	< 10	14	3
24246	1.02	< 10	1.37	0.355	0.037	0.35	3	22	146	0.25	< 20	< 1	< 2	< 10	215	< 10	8	4
24247	0.82	< 10	1.34	0.443	0.036	0.17	2	18	194	0.20	< 20	< 1	< 2	< 10	182	< 10	7	2
24248	0.04	< 10	2.02	0.072	0.036	0.14	3	7	30	0.48	< 20	5	< 2	< 10	175	< 10	13	22
24249	0.57	< 10	1.32	0.276	0.032	0.16	2	18	67	0.20	< 20	2	< 2	< 10	185	< 10	8	2
24250	0.29	< 10	1.47	0.164	0.035	0.12	< 2	15	26	0.17	< 20	< 1	< 2	< 10	143	< 10	7	2
24251	0.31	< 10	1.50	0.196	0.036	0.14	2	17	29	0.20	< 20	2	< 2	< 10	162	< 10	8	2
24252	0.29	< 10	1.65	0.209	0.030	0.19	2	17	34	0.20	< 20	< 1	< 2	< 10	161	< 10	8	2
24253	0.26	< 10	1.42	0.286	0.031	0.13	3	16	61	0.18	< 20	4	< 2	< 10	134	< 10	8	2
24254	0.24	< 10	1.45	0.188	0.036	0.15	< 2	16	25	0.19	< 20	< 1	< 2	< 10	143	< 10	8	2
24255	0.09	< 10	1.61	0.176	0.030	0.10	< 2	15	26	0.16	< 20	< 1	< 2	< 10	126	< 10	7	2
24256	0.32	< 10	1.84	0.174	0.027	0.17	2	18	18	0.20	< 20	2	< 2	< 10	158	< 10	8	2
24257	0.26	< 10	1.72	0.187	0.029	0.16	2	17	20	0.19	< 20	1	< 2	< 10	157	< 10	8	2
24258	0.20	< 10	1.51	0.204	0.029	0.11	2	18	28	0.19	< 20	< 1	< 2	< 10	147	< 10	8	2
24259	0.12	< 10	1.40	0.180	0.031	0.14	2	16	17	0.18	< 20	< 1	< 2	< 10	142	< 10	7	2
24260	0.31	< 10	1.43	0.258	0.030	0.40	2	18	48	0.19	< 20	2	< 2	< 10	160	< 10	7	2
24261	0.27	< 10	1.46	0.430	0.026	0.13	< 2	18	129	0.19	< 20	< 1	< 2	< 10	140	< 10	8	2
24262	0.45	< 10	1.32	0.490	0.031	0.26	< 2	18	175	0.21	< 20	< 1	< 2	< 10	168	< 10	7	2
24263	0.05	< 10	2.08	0.070	0.034	0.19	3	7	32	0.46	< 20	2	< 2	< 10	166	< 10	12	21
24264	0.77	27	1.02	0.430	0.085	1.33	2	5	133	0.12	< 20	< 1	< 2	< 10	53	< 10	6	9
24265	0.64	34	1.06	0.370	0.090	0.23	< 2	4	143	0.11	< 20	< 1	< 2	< 10	44	< 10	7	3
24266	0.04	< 10	0.44	0.021	0.031	15.8	11	2	7	0.01	< 20	4	< 2	< 10	15	< 10	2	20
24267	0.04	< 10	0.77	0.013	0.025	11.6	9	1	19	0.01	< 20	< 1	< 2	< 10	16	< 10	2	15
24268	1.39	< 10	0.04	2.74	0.001	0.01	< 2	< 1	15	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	2
24269	0.74	18	0.94	0.096	0.058	0.16	< 2	3	35	0.12	< 20	4	< 2	< 10	37	< 10	4	16
24270	0.90	19	1.02	0.081	0.059	0.03	< 2	3	24	0.15	< 20	1	< 2	< 10	37	< 10	5	19
24271	0.79	19	0.97	0.072	0.059	0.04	< 2	2	29	0.13	< 20	1	< 2	< 10	31	< 10	4	17
24272	0.12	< 10	1.28	0.020	0.016	4.45	13	3	130	0.03	< 20	2	< 2	< 10	40	< 10	3	25
24273	1.65	33	1.33	0.057	0.148	1.17	5	7	40	0.23	< 20	2	< 2	< 10	117	< 10	9	16
24274	1.40	30	1.34	0.064	0.127	0.78	4	7	82	0.22	< 20	1	< 2	< 10	114	< 10	8	13
24275	1.85	33	1.45	0.078	0.143	0.47	5	8	76	0.26	< 20	2	< 2	< 10	123	< 10	9	14
24276	1.96	40	1.57	0.093	0.164	0.39	4	8	83	0.28	< 20	< 1	< 2	< 10	128	< 10	10	12
24277	1.60	33	1.28	0.058	0.113	0.92	5	6	58	0.20	< 20	3	< 2	< 10	81	< 10	7	15
24278	1.72	57	1.46	0.081	0.218	0.12	5	11	117	0.28	< 20	2	< 2	< 10	137	< 10	11	7
24279	1.44	62	1.12	0.065	0.247	0.05	3	9	84	0.25	< 20	2	< 2	< 10	117	< 10	11	5
24280	1.44	60	1.12	0.066	0.245	0.05	2	9	82	0.25	< 20	2	< 2	< 10	116	< 10	11	5
24281	1.81	61	1.39	0.082	0.232	0.06	4	12	92	0.30	< 20	1	< 2	< 10	144	< 10	12	8
24282	1.91	44	1.57	0.069	0.197	0.12	4	10	132	0.31	< 20	2	< 2	< 10	149	< 10	10	12
24283	1.74	36	1.59	0.053	0.165	0.18	5	9	167	0.28	< 20	< 1	< 2	< 10	134	< 10	9	13
24284	1.61	34	1.51	0.055	0.162	0.34	5	12	176	0.26	< 20	< 1	< 2	< 10	139	< 10	9	12
24285	2.17	44	1.70	0.073	0.202	0.06	4	12	142	0.34	< 20	< 1	< 2	< 10	165	< 10	11	15
24286	1.73	39	1.67	0.070	0.186	0.13	4	11	158	0.28	< 20	< 1	< 2	< 10	155	< 10	11	11
24287	2.04	41	1.65	0.077	0.190	0.17	3	12	144	0.31	< 20	< 1	< 2	< 10	153	< 10	12	12

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24288	0.37	17	0.67	0.057	0.055	0.04	< 2	2	103	0.04	< 20	< 1	< 2	< 10	18	< 10	4	14
24289	0.27	20	0.51	0.051	0.050	0.02	< 2	1	105	0.02	< 20	< 1	< 2	< 10	11	< 10	4	12

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas				0.4	< 0.5	68	1030	< 1	24	99	123	8.05	254	< 10	995	1.0	< 2	0.18	14	76	5.27	20	< 1
GXR-6 Cert				1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680
OREAS 134b (AQUA REGIA) Meas				> 100	563	1410				> 5000	> 10000		243						104		11.6		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						106		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	551	1330				> 5000	> 10000		235						99		11.0		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	526	1250				> 5000	> 10000		224						96		10.4		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						110		12.25		
OREAS 133a (Aqua Regia) Meas				98.1	303	321				> 5000	> 10000		151		< 10				22		7.47		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				94.9	285	319				> 5000	> 10000		146		< 10				21		7.17		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				85.6	278	279				> 5000	> 10000		138		11				20		6.59		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 922 (AQUA REGIA) Meas				0.7	< 0.5	2220	783	< 1	35	62	258	3.15	7		81	0.8	8	0.41	20	42	5.11	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.9	< 0.5	2210	785	< 1	36	59	265	3.28	9		86	0.8	9	0.42	21	42	5.18	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				2.2	0.5	4570	902	< 1	35	85	348	3.29	8		63	0.7	16	0.41	23	40	6.01	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.8	< 0.5	4440	883	< 1	33	88	339	3.25	10		66	0.7	21	0.42	22	39	5.86	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia)				1.2	< 0.5	6330	358	5	4	35	152	1.21	36		228	1.1	18	0.29	46	9	8.16	20	

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
OREAS 907 (Aqua Regia) Meas				1.4	0.7	6490	347	5	6	37	144	1.28	41		244	1.1	19	0.30	46	8	8.02	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4840	1990	1290																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4660	1940	1290																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4900	1980	1290																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4600	1910	1240																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				66.9	280	3630	546	13	25	> 5000	> 10000	1.63	78			0.6	3	1.69	28	31	3.50	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				74.4	298	3840	541	13	26	> 5000	> 10000	2.01	90			0.6	5	1.81	31	32	3.59	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				72.2	285	3670	530	13	28	> 5000	> 10000	1.95	86			0.6	6	1.75	30	34	3.46	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				70.9	284	3590	519	13	27	> 5000	> 10000	1.92	85			0.6	4	1.73	30	34	3.38	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1920	1660	211																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	2000	1640	212																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1890	1630	214																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1910	1670	238																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	91	542	< 1	76	35	135	1.77	30		184	1.4	< 2	1.11	32	55	3.92	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
24239 Orig				0.5	< 0.5	11	266	< 1	8	< 2	58	1.46	< 2	< 10	89	< 0.5	< 2	0.84	7	9	1.77	< 10	< 1
24239 Dup				0.4	< 0.5	11	259	< 1	7	< 2	57	1.42	< 2	< 10	87	< 0.5	< 2	0.82	7	9	1.72	< 10	< 1
24246 Orig	< 2	< 5	< 5																				
24246 Dup	< 2	< 5	< 5																				
24247 Orig				0.2	< 0.5	119	1070	< 1	98	< 2	44	5.24	3	< 10	228	< 0.5	< 2	5.89	50	164	4.22	10	< 1
24247 Dup				0.3	< 0.5	116	1040	< 1	96	< 2	44	5.12	< 2	< 10	226	< 0.5	< 2	5.78	49	160	4.11	10	< 1
24256 Orig	< 2	< 5	< 5																				
24256 Dup	2	< 5	< 5																				
24266 Orig	185	< 5	< 5																				
24266 Dup	148	< 5	< 5																				
24276 Orig	19	< 5	< 5																				
24276 Dup	17	< 5	< 5																				
24286 Orig	9	< 5	< 5	0.3	< 0.5	111	2830	< 1	48	7	71	3.11	< 2	< 10	429	< 0.5	< 2	3.42	36	30	10.8	10	< 1
24286 Split PREP DUP	10	< 5	8	0.4	< 0.5	111	2830	1	48	2	56	3.20	< 2	< 10	417	< 0.5	< 2	3.51	35	29	11.0	10	< 1
24286 Orig	10	< 5	7	0.3	< 0.5	110	2800	1	48	3	57	3.13	< 2	< 10	433	< 0.5	< 2	3.43	36	31	10.8	10	< 1
24286 Dup	9	< 5	< 5	0.3	< 0.5	112	2850	< 1	47	11	86	3.09	2	< 10	426	< 0.5	< 2	3.42	35	29	10.8	10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				1.0	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas	1.07	< 10	0.39	0.074	0.031	0.01	4	21	42		< 20	< 1	< 2	< 10	169	< 10	6	15
GXR-6 Cert	1.87	13.9	0.609	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
OREAS 134b (AQUA REGIA) Meas						16.3												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						15.9												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						15.5												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 133a (Aqua Regia) Meas						11.0	136											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						10.9	136											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						9.33	131											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.41	34	1.38	0.025	0.059	0.39	3	3	19		< 20		< 2	< 10	34	< 10	18	8
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.43	35	1.41	0.026	0.059	0.40	3	3	19		< 20		< 2	< 10	34	< 10	19	7
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.35	32	1.48		0.057	0.72	3	3	17		< 20		< 2	< 10	34	< 10	17	10
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.36	32	1.44		0.055	0.72	3	3	17		< 20		< 2	< 10	34	< 10	17	10
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia)	0.35	37	0.22	0.100	0.023	0.06	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	22

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																		
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
OREAS 907 (Aqua Regia) Meas	0.32	36	0.23	0.088	0.023	0.07	6	2	15	0.03	< 20	< 1	< 2	< 10	5	< 10	7	49
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.35	19	0.41	0.186	0.034	4.57	122	2	20		< 20		< 2	< 10	11	< 10	7	63
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.33	19	0.46	0.163	0.032	4.79	108	2	22		< 20		< 2	< 10	12	< 10	7	71
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.32	19	0.45	0.158	0.032	4.67	104	2	22		< 20		< 2	< 10	12	< 10	7	72
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.32	19	0.44	0.155	0.031	4.51	119	2	21		< 20		< 2	< 10	12	< 10	7	69
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 263 (Aqua Regia) Meas	0.38		0.59	0.093	0.043	0.12	9	4	19		< 20	< 1	< 2	< 10	27		12	

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
24239 Orig	0.23	10	0.59	0.085	0.035	0.02	< 2	1	24	0.07	< 20	< 1	< 2	< 10	18	< 10	3	25
24239 Dup	0.22	< 10	0.57	0.082	0.034	0.02	< 2	1	24	0.07	< 20	2	< 2	< 10	18	< 10	3	26
24246 Orig																		
24246 Dup																		
24247 Orig	0.83	< 10	1.35	0.449	0.037	0.17	2	18	197	0.21	< 20	< 1	< 2	< 10	184	< 10	7	2
24247 Dup	0.81	< 10	1.33	0.437	0.036	0.17	2	17	191	0.20	< 20	< 1	< 2	< 10	180	< 10	7	2
24256 Orig																		
24256 Dup																		
24266 Orig																		
24266 Dup																		
24276 Orig																		
24276 Dup																		
24286 Orig	1.73	39	1.67	0.070	0.186	0.13	4	11	158	0.28	< 20	< 1	< 2	< 10	155	< 10	11	11
24286 Split PREP DUP	1.76	41	1.70	0.071	0.189	0.13	4	11	159	0.28	< 20	1	< 2	< 10	156	< 10	11	11
24286 Orig	1.75	40	1.69	0.070	0.187	0.13	5	11	159	0.28	< 20	< 1	< 2	< 10	154	< 10	11	11
24286 Dup	1.70	39	1.66	0.070	0.185	0.13	3	11	156	0.27	< 20	1	< 2	< 10	155	< 10	11	11
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12675-1C Final**
Report Date: **24-Feb-21**
Date Submitted: **11-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Randy Singh (inv-cc)

CERTIFICATE OF ANALYSIS

76 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2020-10-30 09:40:26

REPORT **A20-12675-1C Final**

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Notes:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt
Unit Symbol	ppb	ppb	ppb
Lower Limit	2	5	5
Method Code	FA-ICP	FA-ICP	FA-ICP
24290	3	< 5	< 5
24291	7	< 5	< 5
24292	< 2	< 5	< 5
24293	< 2	< 5	< 5
24294	345	< 5	< 5
24295	3	< 5	< 5
24296	< 2	< 5	< 5
24297	< 2	< 5	< 5
24298	5	< 5	< 5
24299	< 2	< 5	< 5
24300	522	14	16
24301	2	< 5	< 5
24302	4	< 5	< 5
24303	10	< 5	< 5
24304	7	< 5	< 5
24305	< 2	< 5	< 5
24306	3	< 5	< 5
24307	< 2	< 5	< 5
24308	< 2	< 5	< 5
24309	3	< 5	< 5
24310	5	< 5	< 5
24311	< 2	< 5	< 5
24312	6	< 5	< 5
24313	10	< 5	< 5
24314	15	< 5	< 5
24315	< 2	< 5	< 5
24316	4	< 5	< 5
24317	9	< 5	< 5
24318	4	< 5	< 5
24319	4	< 5	< 5
24320	1070	14	11
24321	9	< 5	< 5
24322	15	< 5	< 5
24323	23	< 5	< 5
24324	7	< 5	< 5
24325	4	< 5	10
24326	10	< 5	10
24327	5	< 5	28
24328	8	100	87
24329	15	229	111
24330	5	34	40
24331	< 2	40	45
24332	2	37	58
24333	< 2	10	10
24334	< 2	6	8
24335	158	7	11
24336	3	8	11
24337	2	8	18
24338	< 2	13	32
24339	< 2	12	45
24340	2	11	36

Analyte Symbol	Au	Pd	Pt
Unit Symbol	ppb	ppb	ppb
Lower Limit	2	5	5
Method Code	FA-ICP	FA-ICP	FA-ICP
24341	< 2	10	26
24342	< 2	< 5	8
24343	349	< 5	6
24344	< 2	5	11
24345	2	8	16
24346	3	10	34
24347	5	9	37
24348	3	8	20
24349	5	17	45
24350	< 2	15	30
24351	3	14	42
24352	4	9	29
24353	< 2	7	25
24354	< 2	5	25
24355	< 2	5	16
24356	2	< 5	8
24357	< 2	< 5	7
24358	3	10	20
24359	3	19	33
24360	515	15	13
24361	2	21	44
24362	2	20	43
24363	< 2	11	33
24364	5	12	42
24365	3	8	19

Analyte Symbol	Au	Pd	Pt
Unit Symbol	ppb	ppb	ppb
Lower Limit	2	5	5
Method Code	FA-ICP	FA-ICP	FA-ICP
CDN-PGMS-27 Meas	4840	1990	1290
CDN-PGMS-27 Cert	4800	2000	1290.00
CDN-PGMS-27 Meas	4660	1940	1290
CDN-PGMS-27 Cert	4800	2000	1290.00
CDN-PGMS-27 Meas	4900	1980	1290
CDN-PGMS-27 Cert	4800	2000	1290.00
CDN-PGMS-27 Meas	4600	1910	1240
CDN-PGMS-27 Cert	4800	2000	1290.00
CDN-PGMS-30 Meas	1830	1710	219
CDN-PGMS-30 Cert	1897.000	1660.000	223.000
CDN-PGMS-30 Meas	1920	1660	211
CDN-PGMS-30 Cert	1897.000	1660.000	223.000
CDN-PGMS-30 Meas	2000	1640	212
CDN-PGMS-30 Cert	1897.000	1660.000	223.000
CDN-PGMS-30 Meas	1890	1630	214
CDN-PGMS-30 Cert	1897.000	1660.000	223.000
CDN-PGMS-30 Meas	1910	1670	238
CDN-PGMS-30 Cert	1897.000	1660.000	223.000
24296 Orig	< 2	< 5	< 5
24296 Dup	< 2	< 5	< 5
24316 Orig	4	< 5	< 5
24316 Dup	4	< 5	< 5
24326 Orig	11	< 5	11
24326 Dup	10	< 5	9
24336 Orig	3	8	12
24336 Dup	2	8	10
24339 Orig	< 2	12	45
24339 Split PREP DUP	3	11	41
24346 Orig	3	11	36
24346 Dup	3	10	32
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5

Analyte Symbol	Au	Pd	Pt
Unit Symbol	ppb	ppb	ppb
Lower Limit	2	5	5
Method Code	FA-ICP	FA-ICP	FA-ICP
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12675-1E3**
Report Date: **04-Dec-20**
Date Submitted: **11-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Randy Singh (inv-cc)

CERTIFICATE OF ANALYSIS

76 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3	QOP AquaGeo (Aqua Regia ICPOES)	

REPORT **A20-12675-1E3**

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:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24290	0.3	2.0	20	1890	1	11	127	323	0.81	< 2	< 10	52	< 0.5	< 2	8.22	11	11	4.89	< 10	< 1	0.07	< 10	4.56
24291	< 0.2	< 0.5	7	855	< 1	9	< 2	70	4.13	2	< 10	70	< 0.5	2	2.03	37	10	9.18	20	1	0.34	< 10	2.15
24292	< 0.2	< 0.5	6	1060	< 1	8	2	105	3.34	2	< 10	59	< 0.5	< 2	3.48	35	18	9.00	10	< 1	0.09	< 10	1.49
24293	< 0.2	< 0.5	7	1040	< 1	5	< 2	87	3.15	4	< 10	29	< 0.5	< 2	3.35	40	3	9.77	10	< 1	0.06	< 10	1.82
24294	< 0.2	< 0.5	20	1050	< 1	9	< 2	90	3.10	< 2	< 10	43	< 0.5	< 2	3.86	40	13	8.31	10	< 1	0.10	< 10	2.11
24295	< 0.2	< 0.5	9	744	< 1	5	< 2	79	3.16	3	< 10	17	< 0.5	< 2	2.23	42	3	8.09	10	< 1	0.04	< 10	1.94
24296	< 0.2	< 0.5	4	948	< 1	5	< 2	67	3.09	2	< 10	17	< 0.5	< 2	3.79	34	4	6.81	10	< 1	0.04	< 10	1.95
24297	< 0.2	< 0.5	30	864	< 1	10	< 2	73	2.91	< 2	< 10	10	< 0.5	< 2	3.27	40	4	6.86	10	< 1	0.03	< 10	2.01
24298	0.2	1.6	16	969	< 1	10	9	311	2.46	5	< 10	12	< 0.5	< 2	3.91	45	3	5.97	< 10	< 1	0.04	< 10	2.32
24299	< 0.2	< 0.5	12	921	< 1	12	< 2	56	3.13	< 2	< 10	< 10	< 0.5	< 2	3.69	33	5	5.77	< 10	< 1	0.03	< 10	2.75
24300	0.2	< 0.5	157	686	< 1	62	< 2	61	3.93	5	46	23	< 0.5	< 2	3.08	29	80	5.75	10	< 1	0.04	< 10	2.00
24301	< 0.2	< 0.5	8	895	< 1	13	< 2	52	2.80	< 2	< 10	< 10	< 0.5	< 2	3.86	35	6	5.26	< 10	< 1	0.03	< 10	2.61
24302	< 0.2	< 0.5	13	734	< 1	12	< 2	44	2.63	< 2	< 10	< 10	< 0.5	< 2	3.05	34	6	4.71	< 10	< 1	0.02	< 10	2.38
24303	0.3	< 0.5	58	699	< 1	13	< 2	53	3.35	< 2	< 10	96	< 0.5	< 2	2.36	40	7	4.95	< 10	< 1	0.02	< 10	2.36
24304	< 0.2	< 0.5	57	815	< 1	14	< 2	46	3.38	3	< 10	11	< 0.5	< 2	3.91	30	8	4.63	< 10	< 1	0.02	< 10	2.22
24305	< 0.2	< 0.5	53	826	< 1	15	< 2	52	3.31	< 2	< 10	12	< 0.5	< 2	3.72	30	6	4.41	< 10	< 1	0.02	< 10	2.21
24306	< 0.2	< 0.5	65	885	< 1	17	< 2	48	2.86	< 2	< 10	< 10	< 0.5	< 2	3.88	32	8	4.66	< 10	< 1	0.02	< 10	2.52
24307	< 0.2	< 0.5	49	859	< 1	17	< 2	47	2.87	< 2	< 10	10	< 0.5	< 2	3.03	31	9	4.65	< 10	< 1	0.03	< 10	2.70
24308	< 0.2	< 0.5	52	1010	< 1	18	< 2	49	2.95	< 2	< 10	73	< 0.5	< 2	4.01	33	11	4.98	< 10	< 1	0.37	< 10	2.74
24309	< 0.2	< 0.5	43	1080	< 1	24	< 2	51	3.23	< 2	< 10	49	< 0.5	< 2	4.77	32	19	5.33	< 10	< 1	0.28	< 10	3.21
24310	< 0.2	< 0.5	20	1120	< 1	24	< 2	52	3.03	2	< 10	101	< 0.5	< 2	5.58	42	23	5.36	< 10	< 1	0.41	< 10	3.46
24311	< 0.2	< 0.5	40	980	< 1	23	< 2	38	2.81	< 2	< 10	116	< 0.5	< 2	4.19	33	20	4.78	< 10	< 1	0.26	< 10	3.19
24312	< 0.2	< 0.5	46	990	< 1	27	< 2	44	3.70	< 2	< 10	252	< 0.5	< 2	4.75	32	30	4.99	< 10	< 1	0.48	< 10	3.40
24313	< 0.2	< 0.5	42	1020	< 1	26	< 2	43	4.26	< 2	< 10	202	< 0.5	< 2	5.07	31	35	4.73	< 10	< 1	0.72	< 10	3.04
24314	< 0.2	< 0.5	41	1100	< 1	29	< 2	42	4.78	< 2	< 10	360	< 0.5	< 2	5.91	32	42	5.40	< 10	< 1	1.04	< 10	3.49
24315	< 0.2	< 0.5	46	966	< 1	44	< 2	70	5.20	< 2	< 10	252	< 0.5	< 2	4.19	38	83	5.92	10	< 1	0.84	< 10	4.03
24316	0.2	< 0.5	71	1100	< 1	37	4	58	3.71	< 2	< 10	46	< 0.5	< 2	5.58	34	87	5.10	< 10	< 1	0.25	< 10	4.16
24317	0.2	< 0.5	99	1030	< 1	47	< 2	47	3.99	< 2	< 10	77	< 0.5	< 2	5.23	37	123	5.39	< 10	< 1	0.34	< 10	4.24
24318	< 0.2	< 0.5	39	1200	< 1	50	5	48	4.11	< 2	< 10	157	< 0.5	< 2	6.76	35	115	4.81	< 10	< 1	0.77	< 10	4.23
24319	< 0.2	< 0.5	75	890	< 1	43	3	41	5.96	< 2	< 10	137	< 0.5	< 2	5.36	33	120	4.72	< 10	< 1	0.95	< 10	3.88
24320	0.3	< 0.5	155	686	< 1	72	4	61	3.85	11	43	25	< 0.5	< 2	3.09	30	115	5.61	10	< 1	0.05	< 10	2.11
24321	< 0.2	< 0.5	92	1170	< 1	55	7	55	6.27	< 2	< 10	212	< 0.5	< 2	5.86	34	157	4.56	< 10	< 1	0.95	< 10	3.86
24322	0.3	< 0.5	116	1290	< 1	57	12	71	6.51	6	< 10	66	< 0.5	< 2	5.53	33	193	4.22	< 10	< 1	1.09	< 10	3.48
24323	0.4	< 0.5	80	2950	< 1	44	15	116	3.69	10	< 10	34	< 0.5	< 2	8.47	23	195	4.44	< 10	< 1	0.23	< 10	5.38
24324	0.2	2.4	104	2650	< 1	60	9	567	4.49	3	< 10	37	< 0.5	< 2	5.88	29	250	4.67	< 10	< 1	0.28	< 10	4.10
24325	0.3	< 0.5	110	1170	< 1	60	6	76	4.32	2	< 10	260	< 0.5	< 2	5.04	28	256	3.38	< 10	< 1	0.19	< 10	3.30
24326	0.4	< 0.5	282	787	< 1	77	3	27	2.65	< 2	< 10	23	< 0.5	< 2	4.96	21	416	2.47	< 10	< 1	0.03	< 10	3.05
24327	0.3	< 0.5	190	1080	< 1	98	3	25	1.60	< 2	< 10	24	< 0.5	< 2	6.67	29	638	3.27	< 10	< 1	0.02	< 10	3.73
24328	0.2	< 0.5	236	850	< 1	95	< 2	24	1.91	< 2	< 10	165	< 0.5	< 2	4.01	30	834	3.26	< 10	< 1	0.14	< 10	4.19
24329	< 0.2	< 0.5	74	1110	1	125	2	61	1.98	5	< 10	16	< 0.5	< 2	4.49	59	897	5.16	< 10	< 1	0.01	< 10	4.85
24330	< 0.2	< 0.5	45	1100	< 1	155	2	31	1.82	19	< 10	25	< 0.5	< 2	4.29	67	1110	4.92	< 10	< 1	0.02	< 10	4.60
24331	< 0.2	< 0.5	13	1300	< 1	178	2	19	1.85	7	< 10	22	< 0.5	< 2	3.26	56	946	5.11	< 10	< 1	< 0.01	< 10	5.58
24332	< 0.2	< 0.5	16	1040	< 1	189	3	22	2.14	5	< 10	< 10	< 0.5	< 2	2.83	62	1210	6.07	< 10	< 1	< 0.01	< 10	4.95
24333	< 0.2	< 0.5	20	1200	< 1	213	< 2	18	1.88	< 2	< 10	11	< 0.5	< 2	2.07	46	1320	6.50	< 10	< 1	< 0.01	< 10	5.75
24334	< 0.2	< 0.5	19	1190	< 1	195	4	19	1.82	< 2	< 10	12	< 0.5	< 2	2.52	44	707	5.91	< 10	< 1	< 0.01	< 10	5.73
24335	0.3	< 0.5	51	1260	< 1	239	< 2	18	2.01	2	< 10	16	< 0.5	< 2	3.05	53	1110	6.17	< 10	< 1	< 0.01	< 10	6.22
24336	< 0.2	< 0.5	53	1230	< 1	229	< 2	27	2.53	3	< 10	16	< 0.5	< 2	3.23	56	575	5.70	< 10	< 1	0.01	< 10	5.62
24337	< 0.2	< 0.5	54	1170	< 1	266	< 2	14	2.59	3	< 10	88	< 0.5	< 2	3.00	50	1450	5.70	< 10	< 1	0.12	< 10	5.23
24338	< 0.2	< 0.5	18	1150	< 1	253	< 2	9	1.71	< 2	< 10	19	< 0.5	< 2	3.19	37	1270	4.50	< 10	< 1	< 0.01	< 10	6.66
24339	< 0.2	< 0.5	11	1270	< 1	260	< 2	14	1.62	< 2	< 10	18	< 0.5	< 2	2.76	39	1110	5.28	< 10	< 1	< 0.01	< 10	7.41
24340	< 0.2	< 0.5	9	1230	< 1	279	< 2	10	1.70	< 2	< 10	16	< 0.5	3	2.71	42	1190	5.35	< 10	< 1	< 0.01	< 10	7.45

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24341	< 0.2	< 0.5	14	1190	< 1	270	< 2	11	1.55	< 2	< 10	16	< 0.5	< 2	2.43	41	1040	5.27	< 10	< 1	< 0.01	< 10	7.42
24342	< 0.2	< 0.5	11	1060	< 1	280	< 2	11	1.72	< 2	< 10	25	< 0.5	< 2	2.57	40	897	4.67	< 10	< 1	< 0.01	< 10	7.05
24343	< 0.2	< 0.5	17	1150	< 1	355	< 2	10	1.52	< 2	< 10	16	< 0.5	2	2.99	36	1040	4.63	< 10	< 1	< 0.01	< 10	6.90
24344	< 0.2	< 0.5	15	1050	< 1	326	< 2	6	1.42	< 2	< 10	11	< 0.5	< 2	2.39	40	1270	4.53	< 10	< 1	< 0.01	< 10	6.63
24345	< 0.2	< 0.5	12	1020	< 1	298	< 2	10	1.29	< 2	< 10	< 10	< 0.5	< 2	1.89	44	1220	4.62	< 10	< 1	< 0.01	< 10	6.60
24346	< 0.2	< 0.5	13	1050	< 1	304	< 2	10	1.30	3	< 10	< 10	< 0.5	< 2	2.17	55	1250	4.60	< 10	< 1	< 0.01	< 10	6.62
24347	< 0.2	< 0.5	11	883	< 1	276	< 2	10	1.13	10	< 10	< 10	< 0.5	< 2	2.91	66	1260	4.00	< 10	< 1	< 0.01	< 10	4.62
24348	< 0.2	< 0.5	15	1140	< 1	325	< 2	9	1.20	7	< 10	< 10	< 0.5	< 2	2.40	69	1200	4.90	< 10	< 1	< 0.01	< 10	6.93
24349	< 0.2	< 0.5	21	1060	< 1	304	< 2	8	1.20	4	< 10	11	< 0.5	< 2	2.25	58	1190	4.62	< 10	< 1	< 0.01	< 10	6.75
24350	< 0.2	< 0.5	8	943	< 1	295	< 2	8	1.25	< 2	< 10	< 10	< 0.5	< 2	2.09	35	1300	4.35	< 10	< 1	< 0.01	< 10	6.01
24351	< 0.2	< 0.5	15	891	< 1	269	< 2	11	1.16	2	< 10	< 10	< 0.5	< 2	1.41	51	1190	4.57	< 10	< 1	< 0.01	< 10	6.28
24352	< 0.2	< 0.5	22	1030	< 1	251	< 2	10	1.15	< 2	< 10	< 10	< 0.5	2	1.81	39	1130	4.56	< 10	< 1	< 0.01	< 10	6.73
24353	< 0.2	< 0.5	20	1070	< 1	310	< 2	8	1.09	< 2	< 10	< 10	< 0.5	< 2	1.37	38	1280	4.97	< 10	< 1	< 0.01	< 10	6.67
24354	< 0.2	< 0.5	10	1070	< 1	347	< 2	9	1.11	< 2	< 10	< 10	< 0.5	< 2	1.93	38	1110	4.36	< 10	< 1	< 0.01	< 10	7.38
24355	< 0.2	< 0.5	7	1020	< 1	377	< 2	9	1.16	< 2	< 10	< 10	< 0.5	< 2	2.33	35	1260	4.19	< 10	< 1	< 0.01	< 10	6.90
24356	< 0.2	< 0.5	13	939	< 1	493	< 2	11	1.21	3	< 10	< 10	< 0.5	< 2	1.48	52	1290	4.73	< 10	< 1	< 0.01	< 10	7.08
24357	< 0.2	< 0.5	12	1090	< 1	476	< 2	13	1.17	2	< 10	< 10	< 0.5	< 2	1.78	52	1420	5.01	< 10	< 1	< 0.01	< 10	6.78
24358	< 0.2	< 0.5	21	1260	< 1	299	< 2	13	1.20	10	< 10	23	< 0.5	< 2	4.36	43	1240	4.19	< 10	< 1	< 0.01	< 10	5.70
24359	< 0.2	< 0.5	17	1210	< 1	426	< 2	16	1.28	6	< 10	13	< 0.5	< 2	3.61	51	1160	4.94	< 10	< 1	< 0.01	< 10	7.96
24360	< 0.2	< 0.5	159	687	< 1	62	< 2	62	3.41	4	45	19	< 0.5	< 2	3.05	29	80	5.77	10	< 1	0.03	< 10	1.96
24361	< 0.2	< 0.5	16	1160	< 1	303	< 2	10	1.25	< 2	< 10	11	< 0.5	< 2	2.54	41	1210	4.94	< 10	< 1	< 0.01	< 10	7.22
24362	< 0.2	< 0.5	19	1010	< 1	311	< 2	10	1.29	< 2	< 10	10	< 0.5	< 2	1.78	38	1280	4.88	< 10	< 1	< 0.01	< 10	6.71
24363	< 0.2	< 0.5	33	1000	< 1	320	< 2	15	1.45	< 2	< 10	< 10	< 0.5	< 2	1.50	40	1350	5.05	< 10	< 1	< 0.01	< 10	6.80
24364	< 0.2	< 0.5	33	954	< 1	323	< 2	14	1.55	6	< 10	27	< 0.5	< 2	1.82	59	1310	5.01	< 10	< 1	< 0.01	< 10	6.66
24365	< 0.2	< 0.5	26	874	< 1	375	< 2	10	1.46	11	< 10	18	< 0.5	< 2	1.85	59	1290	4.69	< 10	< 1	< 0.01	< 10	6.57

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24290	0.035	0.013	0.98	2	5	57	0.03	< 20	< 1	< 2	< 10	17	< 10	8	4
24291	0.151	0.051	0.49	3	23	13	0.23	< 20	< 1	< 2	< 10	174	< 10	15	8
24292	0.226	0.050	0.31	3	22	21	0.23	< 20	< 1	< 2	< 10	211	< 10	17	8
24293	0.119	0.044	0.38	4	22	27	0.18	< 20	< 1	< 2	< 10	333	< 10	12	6
24294	0.148	0.034	0.27	4	21	30	0.17	< 20	< 1	< 2	< 10	341	< 10	11	6
24295	0.147	0.049	0.43	3	18	11	0.16	< 20	3	< 2	< 10	242	< 10	13	8
24296	0.169	0.034	0.11	2	20	27	0.17	< 20	< 1	< 2	< 10	252	< 10	10	5
24297	0.152	0.032	0.31	4	17	30	0.14	< 20	2	< 2	< 10	195	< 10	9	5
24298	0.122	0.025	0.70	3	16	33	0.11	< 20	< 1	< 2	< 10	143	< 10	7	4
24299	0.118	0.022	0.09	< 2	16	36	0.11	< 20	< 1	< 2	< 10	131	< 10	7	3
24300	0.073	0.036	0.14	< 2	7	31	0.48	< 20	3	< 2	< 10	178	< 10	13	22
24301	0.121	0.023	0.32	3	14	34	0.11	< 20	< 1	< 2	< 10	127	< 10	6	4
24302	0.117	0.021	0.15	2	11	31	0.11	< 20	< 1	< 2	< 10	119	< 10	5	3
24303	0.192	0.023	0.33	< 2	10	77	0.11	< 20	< 1	< 2	< 10	92	< 10	4	3
24304	0.223	0.021	0.27	3	11	70	0.10	< 20	< 1	< 2	< 10	92	< 10	4	3
24305	0.237	0.023	0.43	< 2	11	51	0.10	< 20	< 1	< 2	< 10	95	< 10	5	3
24306	0.141	0.021	0.27	2	13	31	0.10	< 20	1	< 2	< 10	99	< 10	7	4
24307	0.128	0.021	0.18	< 2	12	18	0.10	< 20	< 1	< 2	< 10	87	< 10	5	3
24308	0.138	0.019	0.13	2	14	33	0.12	< 20	< 1	< 2	< 10	103	< 10	6	3
24309	0.172	0.017	0.23	< 2	16	48	0.10	< 20	< 1	< 2	< 10	113	< 10	4	3
24310	0.139	0.015	0.34	2	18	49	0.09	< 20	< 1	< 2	< 10	123	< 10	4	3
24311	0.132	0.016	0.17	3	12	28	0.09	< 20	< 1	< 2	< 10	85	< 10	4	3
24312	0.224	0.015	0.07	2	15	42	0.11	< 20	< 1	< 2	< 10	109	< 10	4	3
24313	0.321	0.017	0.11	2	14	61	0.13	< 20	< 1	< 2	< 10	108	< 10	5	2
24314	0.288	0.015	0.14	3	18	55	0.14	< 20	< 1	< 2	< 10	131	< 10	5	3
24315	0.202	0.026	0.17	2	20	46	0.11	< 20	< 1	< 2	< 10	128	< 10	5	4
24316	0.140	0.010	0.16	3	15	47	0.05	< 20	< 1	< 2	< 10	96	< 10	4	2
24317	0.147	0.011	0.12	3	16	33	0.06	< 20	< 1	< 2	< 10	114	< 10	3	2
24318	0.204	0.009	0.07	2	16	46	0.08	< 20	< 1	< 2	< 10	107	< 10	3	2
24319	0.215	0.011	0.11	2	13	58	0.10	< 20	< 1	< 2	< 10	107	< 10	3	2
24320	0.072	0.035	0.19	3	7	31	0.46	< 20	1	< 2	< 10	171	< 10	12	21
24321	0.148	0.010	0.20	4	14	50	0.12	< 20	2	< 2	< 10	101	< 10	3	2
24322	0.212	0.010	0.43	3	12	55	0.12	< 20	< 1	< 2	< 10	93	< 10	2	2
24323	0.110	0.007	0.72	3	10	48	0.04	< 20	< 1	< 2	< 10	70	< 10	3	2
24324	0.190	0.009	0.60	3	11	32	0.06	< 20	2	< 2	< 10	87	< 10	2	2
24325	0.288	0.009	0.17	2	9	39	0.05	< 20	2	< 2	< 10	58	< 10	2	1
24326	0.139	0.010	0.06	2	8	40	0.02	< 20	< 1	< 2	< 10	44	< 10	2	1
24327	0.049	0.010	0.22	4	11	53	0.03	< 20	< 1	< 2	< 10	56	< 10	3	2
24328	0.045	0.009	0.09	5	10	41	0.05	< 20	< 1	< 2	< 10	63	< 10	2	2
24329	0.017	0.011	2.32	6	8	44	0.02	< 20	1	< 2	< 10	55	< 10	2	4
24330	0.012	0.009	1.66	7	8	41	0.02	< 20	< 1	< 2	< 10	57	< 10	1	2
24331	0.011	0.008	0.40	6	11	48	0.01	< 20	< 1	< 2	< 10	59	< 10	1	2
24332	0.010	0.010	0.24	8	12	35	0.02	< 20	< 1	< 2	< 10	80	< 10	1	2
24333	0.010	0.01	0.04	7	11	23	< 0.01	< 20	< 1	< 2	< 10	76	< 10	< 1	2
24334	0.010	0.008	0.05	5	11	27	< 0.01	< 20	1	< 2	< 10	59	< 10	1	2
24335	0.012	0.010	0.12	7	11	35	< 0.01	< 20	< 1	< 2	< 10	69	< 10	1	2
24336	0.012	0.013	0.18	5	14	32	0.01	< 20	< 1	< 2	< 10	78	< 10	1	2
24337	0.013	0.012	0.19	9	14	27	0.03	< 20	< 1	< 2	< 10	81	< 10	1	2
24338	0.012	0.011	0.04	7	10	36	< 0.01	< 20	< 1	< 2	< 10	55	< 10	1	2
24339	0.011	0.009	0.03	8	10	34	< 0.01	< 20	< 1	< 2	< 10	56	< 10	1	2
24340	0.011	0.007	0.03	8	10	33	< 0.01	< 20	< 1	< 2	< 10	57	< 10	1	2

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24341	0.011	0.008	0.06	7	9	32	< 0.01	< 20	< 1	< 2	< 10	54	< 10	1	2
24342	0.010	0.007	0.06	5	10	37	< 0.01	< 20	< 1	< 2	< 10	54	< 10	1	2
24343	0.010	0.008	0.05	10	10	45	< 0.01	< 20	< 1	< 2	< 10	44	< 10	1	2
24344	0.009	0.006	0.10	12	9	46	< 0.01	< 20	< 1	< 2	< 10	44	< 10	1	2
24345	0.010	0.006	0.12	12	9	42	< 0.01	< 20	< 1	< 2	< 10	44	< 10	< 1	2
24346	0.009	0.006	0.37	13	8	54	< 0.01	< 20	< 1	< 2	< 10	40	< 10	1	2
24347	0.009	0.009	1.39	13	7	82	< 0.01	< 20	< 1	< 2	< 10	33	< 10	1	2
24348	0.011	0.004	0.65	11	8	61	< 0.01	< 20	< 1	< 2	< 10	39	< 10	1	2
24349	0.010	0.003	0.51	12	8	58	< 0.01	< 20	< 1	< 2	< 10	41	< 10	< 1	1
24350	0.009	0.003	0.07	13	9	65	< 0.01	< 20	< 1	< 2	< 10	44	< 10	< 1	1
24351	0.009	0.002	0.24	13	8	38	< 0.01	< 20	< 1	< 2	< 10	41	< 10	< 1	1
24352	0.011	0.003	0.11	13	8	44	< 0.01	< 20	< 1	< 2	< 10	43	< 10	< 1	1
24353	0.011	0.004	0.05	12	8	34	< 0.01	< 20	< 1	< 2	< 10	45	< 10	< 1	1
24354	0.010	0.002	0.08	10	10	47	< 0.01	< 20	< 1	< 2	< 10	40	< 10	< 1	2
24355	0.009	0.002	0.14	12	12	60	< 0.01	< 20	< 1	< 2	< 10	41	< 10	< 1	1
24356	0.010	0.001	0.33	12	12	41	< 0.01	< 20	< 1	< 2	< 10	47	< 10	< 1	1
24357	0.009	0.001	0.35	14	11	52	< 0.01	< 20	< 1	< 2	< 10	45	< 10	< 1	1
24358	0.011	0.007	0.46	12	10	141	< 0.01	< 20	< 1	< 2	< 10	35	< 10	1	2
24359	0.010	0.007	0.38	11	8	161	< 0.01	< 20	< 1	< 2	< 10	41	< 10	< 1	2
24360	0.072	0.035	0.14	2	7	29	0.42	< 20	2	< 2	< 10	174	< 10	13	14
24361	0.011	0.006	0.15	10	9	101	< 0.01	< 20	< 1	< 2	< 10	45	< 10	1	2
24362	0.011	0.007	0.04	12	8	67	< 0.01	< 20	< 1	< 2	< 10	48	< 10	< 1	2
24363	0.012	0.006	0.03	13	10	52	< 0.01	< 20	< 1	< 2	< 10	51	< 10	< 1	2
24364	0.010	0.007	0.56	14	10	69	< 0.01	< 20	< 1	< 2	< 10	51	< 10	< 1	2
24365	0.011	0.007	0.96	13	9	75	< 0.01	< 20	< 1	< 2	< 10	40	< 10	< 1	2

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas	0.4	< 0.5	68	1030	< 1	24	99	123	8.05	254	< 10	995	1.0	< 2	0.18	14	76	5.27	20	< 1	1.07	< 10	0.39
GXR-6 Cert	1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
OREAS 134b (AQUA REGIA) Meas	> 100	563	1410				> 5000	> 10000		243						104		11.6					
OREAS 134b (AQUA REGIA) Cert	204	563	1360				133000	177000		221						106		12.25					
OREAS 134b (AQUA REGIA) Meas	> 100	551	1330				> 5000	> 10000		235						99		11.0					
OREAS 134b (AQUA REGIA) Cert	204	563	1360				133000	177000		221						110		12.25					
OREAS 134b (AQUA REGIA) Meas	> 100	526	1250				> 5000	> 10000		224						96		10.4					
OREAS 134b (AQUA REGIA) Cert	204	563	1360				133000	177000		221						110		12.25					
OREAS 133a (Aqua Regia) Meas	98.1	303	321				> 5000	> 10000		151		< 10				22		7.47					
OREAS 133a (Aqua Regia) Cert	97	297	324				48600.00	106000.00		140		59				23		7.92					
OREAS 133a (Aqua Regia) Meas	94.9	285	319				> 5000	> 10000		146		< 10				21		7.17					
OREAS 133a (Aqua Regia) Cert	97	297	324				48600.00	106000.00		140		59				23		7.92					
OREAS 133a (Aqua Regia) Meas	85.6	278	279				> 5000	> 10000		138		11				20		6.59					
OREAS 133a (Aqua Regia) Cert	97	297	324				48600.00	106000.00		140		59				23		7.92					
OREAS 922 (AQUA REGIA) Meas	0.7	< 0.5	2220	783	< 1	35	62	258	3.15	7		81	0.8	8	0.41	20	42	5.11	< 10		0.41	34	1.38
OREAS 922 (AQUA REGIA) Cert	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33
OREAS 922 (AQUA REGIA) Meas	0.9	< 0.5	2210	785	< 1	36	59	265	3.28	9		86	0.8	9	0.42	21	42	5.18	< 10		0.43	35	1.41
OREAS 922 (AQUA REGIA) Cert	0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62		0.376	32.5	1.33
OREAS 923 (AQUA REGIA) Meas	1.6	< 0.5	4570	897	< 1	32	83	353	2.90	9		67	0.7	18	0.43	23	42	6.12	< 10		0.43	35	1.33
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
OREAS 923 (AQUA REGIA) Meas	2.2	0.5	4570	902	< 1	35	85	348	3.29	8		63	0.7	16	0.41	23	40	6.01	< 10		0.35	32	1.48
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
OREAS 923 (AQUA REGIA)	1.8	< 0.5	4440	883	< 1	33	88	339	3.25	10		66	0.7	21	0.42	22	39	5.86	< 10		0.36	32	1.44

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas																							
OREAS 923 (AQUA REGIA) Cert	1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01		0.322	30.0	1.43
OREAS 907 (Aqua Regia) Meas	1.2	< 0.5	6330	358	5	4	35	152	1.21	36		228	1.1	18	0.29	46	9	8.16	20		0.35	37	0.22
OREAS 907 (Aqua Regia) Cert	1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1	0.221
OREAS 907 (Aqua Regia) Meas	1.4	0.7	6490	347	5	6	37	144	1.28	41		244	1.1	19	0.30	46	8	8.02	20		0.32	36	0.23
OREAS 907 (Aqua Regia) Cert	1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7		0.286	36.1	0.221
Oreas 621 (Aqua Regia) Meas	66.9	280	3630	546	13	25	> 5000	> 10000	1.63	78			0.6	3	1.69	28	31	3.50	< 10	4	0.35	19	0.41
Oreas 621 (Aqua Regia) Cert	68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4	0.436
Oreas 621 (Aqua Regia) Meas	74.4	298	3840	541	13	26	> 5000	> 10000	2.01	90			0.6	5	1.81	31	32	3.59	< 10	4	0.33	19	0.46
Oreas 621 (Aqua Regia) Cert	68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4	0.436
Oreas 621 (Aqua Regia) Meas	72.2	285	3670	530	13	28	> 5000	> 10000	1.95	86			0.6	6	1.75	30	34	3.46	10	4	0.32	19	0.45
Oreas 621 (Aqua Regia) Cert	68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4	0.436
Oreas 621 (Aqua Regia) Meas	70.9	284	3590	519	13	27	> 5000	> 10000	1.92	85			0.6	4	1.73	30	34	3.38	< 10	4	0.32	19	0.44
Oreas 621 (Aqua Regia) Cert	68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93	0.333	19.4	0.436
OREAS 45f (Aqua Regia) Meas			336	183	< 1	211	9	28	7.51			147	1.1	< 2	0.08	43	359	14.1	20	< 1	0.11	12	0.17
OREAS 45f (Aqua Regia) Cert			336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310	0.0820	10.7	0.152
OREAS 263 (Aqua Regia) Meas	0.2	< 0.5	91	542	< 1	76	35	135	1.77	30		184	1.4	< 2	1.11	32	55	3.92	< 10	< 1	0.38		0.59
OREAS 263 (Aqua Regia) Cert	0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170	0.288		0.593
Oreas 623 (Aqua Regia) Meas	18.3	47.2	> 10000	536	8	14	2230	8980	1.67	80			< 0.5	4	1.03	193	13	11.9	10	2	0.18	16	0.95
Oreas 623 (Aqua Regia) Cert	20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830	0.175	17.9	1.11
24299 Orig	< 0.2	< 0.5	12	922	< 1	12	< 2	57	3.12	< 2	< 10	< 10	< 0.5	< 2	3.69	33	5	5.76	< 10	< 1	0.03	< 10	2.74
24299 Dup	< 0.2	< 0.5	12	920	< 1	12	< 2	55	3.15	< 2	< 10	< 10	< 0.5	< 2	3.68	33	5	5.78	< 10	< 1	0.03	< 10	2.76
24302 Orig	< 0.2	< 0.5	13	727	< 1	12	< 2	44	2.61	< 2	< 10	< 10	< 0.5	< 2	3.02	34	6	4.66	< 10	< 1	0.02	< 10	2.35
24302 Dup	< 0.2	< 0.5	13	740	< 1	13	< 2	44	2.65	< 2	< 10	< 10	< 0.5	< 2	3.08	34	6	4.76	< 10	< 1	0.02	< 10	2.40
24315 Orig	< 0.2	< 0.5	46	975	< 1	44	< 2	72	5.26	< 2	< 10	254	< 0.5	< 2	4.22	38	84	5.96	10	< 1	0.85	< 10	4.06
24315 Dup	2.1	< 0.5	45	956	< 1	43	< 2	69	5.14	< 2	< 10	249	< 0.5	< 2	4.16	37	82	5.88	10	< 1	0.83	< 10	4.01
24327 Orig	0.2	< 0.5	197	1070	< 1	97	3	25	1.56	< 2	< 10	23	< 0.5	< 2	6.59	28	623	3.21	< 10	< 1	0.02	< 10	3.66
24327 Dup	0.3	< 0.5	184	1100	< 1	99	4	25	1.65	< 2	< 10	25	< 0.5	< 2	6.76	29	653	3.34	< 10	< 1	0.02	< 10	3.81
24339 Split PREP DUP	< 0.2	< 0.5	12	1210	< 1	265	3	15	1.50	3	< 10	12	< 0.5	2	2.58	40	1210	5.17	< 10	< 1	< 0.01	< 10	6.52
24341 Orig	< 0.2	< 0.5	15	1200	< 1	269	< 2	11	1.56	< 2	< 10	16	< 0.5	< 2	2.45	42	1040	5.37	< 10	< 1	< 0.01	< 10	7.51
24341 Dup	< 0.2	< 0.5	14	1180	< 1	271	< 2	10	1.55	< 2	< 10	16	< 0.5	< 2	2.40	41	1040	5.16	< 10	< 1	< 0.01	< 10	7.32
24353 Orig	< 0.2	< 0.5	20	1070	< 1	358	< 2	8	1.13	< 2	< 10	< 10	< 0.5	< 2	1.36	39	1320	5.02	< 10	< 1	< 0.01	< 10	6.68
24353 Dup	< 0.2	< 0.5	20	1070	< 1	335	< 2	9	1.05	< 2	< 10	< 10	< 0.5	2	1.37	38	1270	4.93	< 10	< 1	< 0.01	< 10	6.65

Analyte Symbol	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Lower Limit	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	1.0	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-6 Meas	0.074	0.031	0.01	4	21	42		< 20	< 1	< 2	< 10	169	< 10	6	15
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		5.30	0.0180	2.20	1.54	186	1.90	14.0	110
OREAS 134b (AQUA REGIA) Meas			16.3												
OREAS 134b (AQUA REGIA) Cert			19.31												
OREAS 134b (AQUA REGIA) Meas			15.9												
OREAS 134b (AQUA REGIA) Cert			19.31												
OREAS 134b (AQUA REGIA) Meas			15.5												
OREAS 134b (AQUA REGIA) Cert			19.31												
OREAS 133a (Aqua Regia) Meas			11.0	136											
OREAS 133a (Aqua Regia) Cert			10.7	147											
OREAS 133a (Aqua Regia) Meas			10.9	136											
OREAS 133a (Aqua Regia) Cert			10.7	147											
OREAS 133a (Aqua Regia) Meas			9.33	131											
OREAS 133a (Aqua Regia) Cert			10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.025	0.059	0.39	3	3	19		< 20		< 2	< 10	34	< 10	18	8
OREAS 922 (AQUA REGIA) Cert	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.026	0.059	0.40	3	3	19		< 20		< 2	< 10	34	< 10	19	7
OREAS 922 (AQUA REGIA) Cert	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas		0.061	0.69	3	4	15		< 20		< 2	< 10	32	< 10	17	30
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas		0.057	0.72	3	3	17		< 20		< 2	< 10	34	< 10	17	10
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA)		0.055	0.72	3	3	17		< 20		< 2	< 10	34	< 10	17	10

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Meas															
OREAS 923 (AQUA REGIA) Cert		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.100	0.023	0.06	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	22
OREAS 907 (Aqua Regia) Cert	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
OREAS 907 (Aqua Regia) Meas	0.088	0.023	0.07	6	2	15	0.03	< 20	< 1	< 2	< 10	5	< 10	7	49
OREAS 907 (Aqua Regia) Cert	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
Oreas 621 (Aqua Regia) Meas	0.186	0.034	4.57	122	2	20		< 20		< 2	< 10	11	< 10	7	63
Oreas 621 (Aqua Regia) Cert	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.163	0.032	4.79	108	2	22		< 20		< 2	< 10	12	< 10	7	71
Oreas 621 (Aqua Regia) Cert	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.158	0.032	4.67	104	2	22		< 20		< 2	< 10	12	< 10	7	72
Oreas 621 (Aqua Regia) Cert	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.155	0.031	4.51	119	2	21		< 20		< 2	< 10	12	< 10	7	69
Oreas 621 (Aqua Regia) Cert	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
OREAS 45f (Aqua Regia) Meas	0.044	0.022	0.03		33	16	0.15	< 20		< 2	< 10	198		6	32
OREAS 45f (Aqua Regia) Cert	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.093	0.043	0.12	9	4	19		< 20	< 1	< 2	< 10	27		12	
OREAS 263 (Aqua Regia) Cert	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
Oreas 623 (Aqua Regia) Meas	0.081	0.041	8.49	24	4	14		< 20	< 1	< 2	< 10	14	< 10	7	55
Oreas 623 (Aqua Regia) Cert	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
24299 Orig	0.117	0.022	0.09	< 2	16	36	0.11	< 20	< 1	< 2	< 10	131	< 10	7	3
24299 Dup	0.119	0.022	0.09	2	16	36	0.11	< 20	< 1	< 2	< 10	130	< 10	7	3
24302 Orig	0.116	0.021	0.15	2	11	30	0.11	< 20	< 1	< 2	< 10	118	< 10	5	3
24302 Dup	0.118	0.022	0.15	3	11	31	0.11	< 20	< 1	< 2	< 10	120	< 10	5	3
24315 Orig	0.203	0.026	0.17	2	20	46	0.11	< 20	< 1	< 2	< 10	132	< 10	5	4
24315 Dup	0.201	0.026	0.16	2	20	46	0.10	< 20	< 1	< 2	< 10	124	< 10	5	4
24327 Orig	0.046	0.010	0.22	5	10	53	0.03	< 20	1	< 2	< 10	55	< 10	3	2
24327 Dup	0.053	0.010	0.22	3	11	54	0.03	< 20	< 1	< 2	< 10	57	< 10	3	2
24339 Split PREP DUP	0.009	0.010	0.03	5	11	30	< 0.01	< 20	< 1	< 2	< 10	49	< 10	1	2
24341 Orig	0.010	0.008	0.06	7	9	33	< 0.01	< 20	< 1	< 2	< 10	55	< 10	1	2
24341 Dup	0.011	0.008	0.05	8	9	32	< 0.01	< 20	< 1	< 2	< 10	53	< 10	1	2
24353 Orig	0.011	0.004	0.05	12	8	34	< 0.01	< 20	< 1	< 2	< 10	46	< 10	< 1	1
24353 Dup	0.011	0.004	0.05	11	8	34	< 0.01	< 20	1	< 2	< 10	44	< 10	< 1	1

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12675-ReAssay**
Report Date: **07-Dec-20**
Date Submitted: **11-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Randy Singh (inv-cc)

CERTIFICATE OF ANALYSIS

76 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	

REPORT **A20-12675-ReAssay**

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Notes:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Au	Pd	Pt
Unit Symbol	ppb	ppb	ppb
Lower Limit	2	5	5
Method Code	FA-ICP	FA-ICP	FA-ICP
24355	< 2	5	16
24356	2	< 5	8
24357	< 2	< 5	7
24358	3	10	20
24359	3	19	33
24360	515	15	13
24361	2	21	44
24362	2	20	43
24363	< 2	11	33
24364	5	12	42
24365	3	8	19

Analyte Symbol	Au	Pd	Pt
Unit Symbol	ppb	ppb	ppb
Lower Limit	2	5	5
Method Code	FA-ICP	FA-ICP	FA-ICP
CDN-PGMS-30 Meas	1830	1710	219
CDN-PGMS-30 Cert	1897.000	1660.000	223.000
Method Blank	< 2	< 5	< 5
Method Blank	< 2	< 5	< 5

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-12781**
Report Date: **14-Dec-20**
Date Submitted: **15-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

83 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2020-10-30 15:32:11
1E3-Timmins	QOP AquaGeo (Aqua Regia ICPOES)	2020-11-21 11:35:54

REPORT **A20-12781**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24366	4	10	31	< 0.2	< 0.5	31	984	< 1	364	3	8	1.32	10	< 10	36	< 0.5	< 2	2.76	49	1300	4.45	< 10	< 1
24367	6	9	16	< 0.2	< 0.5	50	969	< 1	392	< 2	8	1.42	< 2	< 10	39	< 0.5	< 2	2.45	50	1360	4.64	< 10	< 1
24368	4	7	10	< 0.2	< 0.5	45	918	< 1	352	< 2	7	1.33	< 2	< 10	48	< 0.5	< 2	3.41	38	1290	3.91	< 10	< 1
24369	3	7	7	< 0.2	< 0.5	37	976	< 1	343	< 2	11	1.50	2	< 10	17	< 0.5	< 2	3.89	46	1350	3.91	< 10	< 1
24370	3	< 5	< 5	< 0.2	< 0.5	21	565	< 1	97	< 2	53	1.40	< 2	< 10	40	< 0.5	< 2	1.75	16	266	2.84	< 10	< 1
24371	2	< 5	< 5	< 0.2	< 0.5	4	407	4	14	< 2	48	1.17	6	< 10	26	< 0.5	< 2	1.58	10	20	2.55	< 10	< 1
24372	< 2	< 5	< 5	< 0.2	< 0.5	13	432	< 1	14	< 2	53	1.28	2	< 10	106	< 0.5	< 2	2.38	9	16	1.91	< 10	< 1
24373	3	< 5	< 5	< 0.2	< 0.5	2	371	< 1	14	< 2	63	1.22	< 2	< 10	52	< 0.5	< 2	1.67	10	16	2.03	< 10	< 1
24374	4	< 5	< 5	< 0.2	< 0.5	2	333	2	14	< 2	61	1.33	< 2	< 10	62	< 0.5	< 2	1.00	9	22	2.30	< 10	< 1
24375	< 2	< 5	< 5	< 0.2	< 0.5	< 1	111	< 1	< 1	< 2	19	4.15	< 2	< 10	< 10	< 0.5	< 2	0.21	< 1	3	0.60	< 10	< 1
24376	5	< 5	< 5	< 0.2	< 0.5	10	422	< 1	21	< 2	48	1.08	2	< 10	40	< 0.5	< 2	1.40	12	48	2.55	< 10	< 1
24377	8	< 5	31	< 0.2	< 0.5	110	949	< 1	217	< 2	62	2.40	13	< 10	37	< 0.5	2	5.28	41	945	5.09	< 10	< 1
24378	8	< 5	10	< 0.2	< 0.5	194	873	< 1	185	< 2	67	2.23	3	< 10	11	< 0.5	< 2	5.64	37	1040	4.50	< 10	< 1
24379	11	7	38	< 0.2	< 0.5	181	949	< 1	228	< 2	44	2.33	< 2	< 10	22	< 0.5	< 2	5.32	43	1130	5.23	< 10	< 1
24380	1000	13	11	0.2	< 0.5	156	695	< 1	78	3	63	3.29	9	49	21	< 0.5	< 2	3.14	31	115	5.82	10	< 1
24381	11	< 5	< 5	< 0.2	< 0.5	242	1030	< 1	190	< 2	52	2.46	< 2	< 10	19	< 0.5	< 2	6.26	38	938	5.18	< 10	< 1
24382	10	< 5	12	< 0.2	< 0.5	235	1070	< 1	224	< 2	51	2.51	< 2	< 10	< 10	< 0.5	< 2	6.42	37	1100	5.29	< 10	< 1
24383	6	11	46	< 0.2	< 0.5	139	1070	< 1	318	< 2	108	3.34	< 2	< 10	39	< 0.5	< 2	4.33	47	1280	5.86	10	< 1
24384	< 2	< 5	< 5	< 0.2	< 0.5	7	353	1	42	3	43	1.25	< 2	< 10	22	< 0.5	< 2	1.40	13	136	2.67	< 10	< 1
24385	2	< 5	< 5	< 0.2	< 0.5	5	428	< 1	29	< 2	30	0.99	< 2	< 10	23	< 0.5	< 2	1.96	12	35	2.67	< 10	< 1
24386	4	< 5	< 5	< 0.2	< 0.5	3	580	4	19	< 2	34	0.74	3	< 10	26	< 0.5	< 2	1.63	9	18	2.39	< 10	< 1
24387	3	< 5	< 5	< 0.2	< 0.5	8	584	< 1	19	< 2	38	0.96	< 2	< 10	27	< 0.5	< 2	1.36	10	20	2.40	< 10	< 1
24388	5	< 5	< 5	< 0.2	< 0.5	11	377	6	15	< 2	34	0.95	< 2	< 10	21	< 0.5	< 2	1.12	9	18	2.43	< 10	< 1
24389	4	< 5	< 5	< 0.2	< 0.5	15	399	3	12	< 2	34	0.90	< 2	< 10	27	< 0.5	< 2	1.23	9	13	2.33	< 10	< 1
24390	< 2	< 5	< 5	< 0.2	< 0.5	15	415	1	19	< 2	34	0.89	< 2	< 10	28	< 0.5	< 2	1.13	10	19	2.44	< 10	< 1
24391	3	< 5	< 5	< 0.2	< 0.5	16	542	1	19	< 2	40	1.10	< 2	< 10	21	< 0.5	< 2	1.88	12	13	2.77	< 10	< 1
24392	< 2	< 5	< 5	< 0.2	< 0.5	12	534	< 1	19	< 2	49	0.83	< 2	< 10	23	< 0.5	< 2	1.44	10	18	2.39	< 10	< 1
24393	< 2	< 5	< 5	< 0.2	< 0.5	7	585	< 1	20	< 2	53	1.04	< 2	< 10	19	< 0.5	< 2	1.70	9	19	2.51	< 10	< 1
24394	< 2	< 5	< 5	< 0.2	< 0.5	9	562	< 1	20	< 2	59	1.27	< 2	< 10	35	< 0.5	< 2	1.22	10	24	2.44	< 10	< 1
24395	4	< 5	< 5	< 0.2	< 0.5	33	528	< 1	19	< 2	51	1.27	< 2	< 10	29	< 0.5	< 2	1.23	9	30	2.41	< 10	< 1
24396	2	< 5	< 5	< 0.2	< 0.5	6	428	< 1	19	< 2	52	1.38	< 2	< 10	25	< 0.5	< 2	1.32	9	23	2.43	< 10	< 1
24397	3	< 5	< 5	< 0.2	< 0.5	5	544	< 1	19	< 2	57	1.16	< 2	< 10	32	< 0.5	< 2	1.49	9	25	2.49	< 10	< 1
24398	< 2	< 5	< 5	< 0.2	< 0.5	9	480	< 1	19	< 2	46	1.37	< 2	< 10	23	< 0.5	< 2	1.52	9	21	2.69	< 10	< 1
24399	2	< 5	< 5	< 0.2	< 0.5	18	426	< 1	18	3	48	1.36	< 2	< 10	27	< 0.5	< 2	1.66	9	19	2.55	< 10	< 1
24400	2	< 5	< 5	< 0.2	< 0.5	34	656	< 1	22	3	74	1.27	< 2	< 10	24	< 0.5	< 2	2.67	10	17	2.98	< 10	< 1
24401	3	< 5	< 5	< 0.2	< 0.5	17	505	< 1	18	< 2	63	1.14	2	< 10	47	< 0.5	< 2	1.31	8	29	2.28	< 10	< 1
24402	3	< 5	< 5	< 0.2	< 0.5	11	540	< 1	22	< 2	54	0.93	< 2	< 10	26	< 0.5	< 2	1.67	12	22	2.96	< 10	< 1
24403	4	< 5	< 5	< 0.2	< 0.5	5	576	< 1	23	3	87	1.38	< 2	< 10	22	< 0.5	< 2	2.19	11	20	3.22	< 10	< 1
24404	4	< 5	< 5	< 0.2	< 0.5	6	610	1	20	3	58	2.17	5	< 10	49	< 0.5	< 2	2.93	11	22	2.88	< 10	< 1
24405	3	< 5	< 5	< 0.2	< 0.5	20	547	< 1	19	< 2	69	2.22	4	< 10	69	< 0.5	< 2	1.87	9	30	2.62	< 10	< 1
24406	6	< 5	< 5	< 0.2	< 0.5	59	622	< 1	21	< 2	77	1.71	5	< 10	131	< 0.5	< 2	1.95	10	29	2.57	< 10	< 1
24407	10	< 5	< 5	< 0.2	< 0.5	71	762	< 1	26	< 2	63	1.44	16	< 10	57	< 0.5	< 2	1.81	11	28	2.85	< 10	< 1
24408	19	15	24	< 0.2	< 0.5	66	1540	< 1	373	3	96	2.71	32	< 10	< 10	< 0.5	< 2	4.32	58	1240	4.87	< 10	< 1
24409	6	6	9	< 0.2	< 0.5	91	895	1	230	< 2	180	4.18	13	< 10	< 10	< 0.5	< 2	2.84	40	808	5.68	10	< 1
24410	37	< 5	< 5	0.5	5.5	56	444	3	33	7	784	1.23	11	< 10	53	< 0.5	< 2	0.30	17	47	3.33	< 10	< 1
24411	84	< 5	< 5	4.6	17.6	406	979	< 1	13	124	3010	0.94	22	< 10	37	< 0.5	< 2	2.11	9	24	3.96	< 10	< 1
24412	< 2	< 5	< 5	< 0.2	< 0.5	< 1	113	< 1	< 1	< 2	20	3.95	3	< 10	< 10	< 0.5	< 2	0.20	< 1	4	0.66	< 10	< 1
24413	47	< 5	< 5	1.3	5.1	42	1080	< 1	34	7	818	2.57	10	11	133	< 0.5	< 2	2.18	21	73	2.81	< 10	< 1
24414	15	< 5	< 5	2.0	1.3	98	1530	< 1	47	17	302	4.74	< 2	< 10	226	< 0.5	< 2	4.16	36	165	4.97	10	< 1
24415	3	< 5	< 5	< 0.2	< 0.5	98	1110	< 1	52	< 2	96	3.07	2	< 10	138	< 0.5	< 2	3.76	36	106	5.13	< 10	< 1
24416	2	< 5	< 5	< 0.2	< 0.5	98	975	< 1	37	< 2	65	3.46	2	< 10	12	< 0.5	< 2	3.75	33	58	5.85	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24417	6	< 5	< 5	< 0.2	< 0.5	144	910	< 1	46	15	72	3.40	< 2	< 10	< 10	< 0.5	< 2	4.19	31	100	4.39	< 10	< 1
24418	7	< 5	< 5	< 0.2	< 0.5	125	921	< 1	58	< 2	48	3.80	< 2	< 10	12	< 0.5	< 2	4.06	30	114	4.23	< 10	< 1
24419	< 2	< 5	< 5	< 0.2	< 0.5	94	1220	< 1	73	< 2	74	2.96	< 2	< 10	24	< 0.5	< 2	3.28	32	135	4.63	< 10	< 1
24420	560	15	10	< 0.2	< 0.5	156	708	< 1	60	< 2	61	3.54	6	49	18	< 0.5	< 2	3.20	30	85	6.10	10	< 1
24421	< 2	< 5	< 5	< 0.2	< 0.5	74	1150	< 1	74	< 2	76	2.56	< 2	< 10	14	< 0.5	< 2	3.25	33	110	4.48	< 10	< 1
24422	3	< 5	< 5	< 0.2	< 0.5	96	1290	< 1	62	< 2	54	3.41	3	< 10	19	< 0.5	< 2	4.27	29	98	4.87	< 10	< 1
24423	8	< 5	< 5	< 0.2	< 0.5	84	1800	< 1	69	5	108	4.42	2	< 10	59	< 0.5	< 2	2.67	35	137	8.69	< 10	1
24424	45	< 5	< 5	0.7	< 0.5	122	2950	1	29	6	71	0.94	22	< 10	< 10	< 0.5	< 2	0.68	41	17	17.8	< 10	1
24425	75	< 5	< 5	1.7	< 0.5	194	3790	< 1	39	8	120	2.36	30	< 10	23	0.6	< 2	1.40	25	24	17.4	< 10	< 1
24426	56	< 5	< 5	1.4	0.6	120	2890	< 1	41	12	95	0.88	19	< 10	13	< 0.5	4	1.93	31	10	> 30.0	< 10	< 1
24427	< 2	< 5	< 5	< 0.2	< 0.5	< 1	132	< 1	< 1	< 2	22	4.14	< 2	< 10	< 10	< 0.5	< 2	0.22	< 1	2	0.73	< 10	< 1
24428	< 2	< 5	< 5	< 0.2	< 0.5	39	3110	< 1	24	3	78	2.21	2	< 10	62	0.6	< 2	2.12	9	29	12.5	< 10	1
24429	10	< 5	< 5	0.9	< 0.5	67	2010	< 1	36	< 2	105	2.38	12	< 10	21	0.5	< 2	1.09	18	24	11.2	< 10	< 1
24430	25	< 5	< 5	0.7	12.7	57	3170	1	30	5	1220	3.71	7	< 10	28	0.7	< 2	2.90	11	28	9.13	< 10	< 1
24431	6	< 5	< 5	0.4	2.4	44	2160	< 1	36	< 2	216	2.19	15	< 10	22	< 0.5	< 2	0.46	16	32	10.5	< 10	2
24432	5	< 5	< 5	0.4	1.6	45	1710	< 1	34	2	235	2.13	20	< 10	31	< 0.5	< 2	0.40	17	29	10.1	< 10	< 1
24433	26	< 5	< 5	< 0.2	< 0.5	17	1030	< 1	30	< 2	82	1.87	< 2	< 10	76	0.6	< 2	0.47	7	21	4.16	< 10	< 1
24434	< 2	< 5	< 5	< 0.2	< 0.5	13	1050	< 1	29	2	81	1.62	3	< 10	102	0.5	< 2	1.41	8	21	2.88	< 10	< 1
24435	< 2	< 5	< 5	< 0.2	< 0.5	10	1060	< 1	41	< 2	101	2.46	< 2	< 10	175	0.8	< 2	1.32	6	40	2.72	< 10	< 1
24436	6	< 5	< 5	< 0.2	1.4	14	3390	2	28	3	178	2.87	10	< 10	35	0.7	< 2	3.39	13	32	6.15	< 10	< 1
24437	7	< 5	< 5	0.4	1.1	29	3350	< 1	27	3	167	3.39	18	< 10	33	0.8	< 2	3.62	19	26	8.08	< 10	< 1
24438	7	< 5	< 5	0.3	0.7	22	3280	< 1	31	4	175	2.79	16	< 10	42	0.7	< 2	3.28	16	27	6.79	< 10	< 1
24439	4	< 5	< 5	0.3	2.7	26	2570	< 1	36	3	271	3.30	10	< 10	64	0.9	< 2	2.56	21	29	6.29	< 10	< 1
24440	1030	14	14	0.3	< 0.5	152	701	< 1	72	3	63	3.48	10	47	22	< 0.5	< 2	3.21	31	120	5.99	10	< 1
24441	3	< 5	< 5	0.2	1.4	17	1970	< 1	41	3	233	3.25	< 2	< 10	165	1.0	< 2	2.37	16	41	4.37	< 10	< 1
24442	5	< 5	< 5	0.3	0.9	17	3370	< 1	27	3	154	3.27	8	< 10	83	1.0	< 2	3.59	15	37	6.16	< 10	< 1
24443	3	< 5	< 5	0.2	< 0.5	23	1630	< 1	26	2	127	3.07	3	< 10	134	1.0	< 2	2.29	14	31	4.04	< 10	< 1
24444	< 2	< 5	< 5	< 0.2	0.7	14	1190	< 1	21	3	94	2.69	< 2	< 10	111	0.9	< 2	2.21	6	22	2.12	< 10	< 1
24445	< 2	< 5	< 5	< 0.2	< 0.5	12	2430	< 1	24	3	86	2.34	< 2	< 10	85	0.7	< 2	4.07	11	25	2.83	< 10	< 1
24446	< 2	< 5	< 5	< 0.2	< 0.5	5	1660	< 1	30	< 2	71	2.16	< 2	< 10	108	0.7	< 2	2.83	8	34	2.11	< 10	< 1
24447	< 2	< 5	< 5	< 0.2	< 0.5	32	1760	< 1	31	< 2	121	2.01	< 2	< 10	175	< 0.5	< 2	2.02	14	56	3.32	< 10	< 1
24448	< 2	< 5	5	< 0.2	< 0.5	2	1490	< 1	25	< 2	66	1.20	< 2	< 10	136	< 0.5	< 2	2.08	9	46	2.47	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24366	< 0.01	< 10	5.80	0.013	0.008	0.68	11	8	224	< 0.01	< 20	2	< 2	< 10	41	< 10	< 1	2
24367	< 0.01	< 10	6.03	0.011	0.006	0.58	13	10	169	< 0.01	< 20	< 1	< 2	< 10	46	< 10	< 1	1
24368	< 0.01	< 10	5.31	0.012	0.006	0.14	11	10	105	< 0.01	< 20	< 1	< 2	< 10	42	< 10	< 1	1
24369	< 0.01	< 10	4.38	0.010	0.008	0.57	12	12	108	< 0.01	< 20	< 1	< 2	< 10	50	< 10	< 1	1
24370	0.58	22	1.97	0.055	0.082	1.04	3	4	38	0.06	< 20	< 1	< 2	< 10	35	< 10	5	8
24371	0.70	28	1.06	0.062	0.100	1.42	< 2	2	29	0.07	< 20	2	< 2	< 10	21	< 10	6	8
24372	0.91	31	0.87	0.049	0.094	0.44	< 2	1	33	0.10	< 20	< 1	< 2	< 10	17	< 10	6	11
24373	0.85	31	0.85	0.050	0.095	0.74	< 2	1	25	0.10	< 20	3	< 2	< 10	17	< 10	5	14
24374	0.83	30	1.10	0.089	0.092	0.69	< 2	3	22	0.11	< 20	2	< 2	< 10	32	< 10	5	15
24375	1.26	< 10	0.03	2.79	0.001	< 0.01	< 2	< 1	10	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	2
24376	0.28	23	1.47	0.067	0.079	1.11	< 2	5	25	0.04	< 20	2	< 2	< 10	39	< 10	5	6
24377	0.02	< 10	5.61	0.029	0.012	1.14	10	17	144	0.01	< 20	2	< 2	< 10	102	< 10	3	5
24378	< 0.01	< 10	5.38	0.032	0.010	0.72	10	16	185	0.02	< 20	< 1	< 2	< 10	80	< 10	3	3
24379	< 0.01	< 10	5.71	0.013	0.009	0.96	11	13	222	0.02	< 20	< 1	< 2	< 10	103	< 10	2	3
24380	0.05	< 10	2.00	0.081	0.038	0.19	3	8	30	0.41	< 20	4	< 2	< 10	165	< 10	12	15
24381	< 0.01	< 10	5.77	0.035	0.051	0.52	8	15	295	0.02	< 20	1	< 2	< 10	89	< 10	4	7
24382	< 0.01	< 10	5.89	0.021	0.030	0.48	10	19	282	0.02	< 20	< 1	< 2	< 10	113	< 10	5	6
24383	0.12	18	5.88	0.018	0.106	1.29	12	20	149	0.02	< 20	< 1	< 2	< 10	115	< 10	6	5
24384	0.51	23	1.43	0.050	0.092	1.80	< 2	4	34	0.04	< 20	< 1	< 2	< 10	28	< 10	5	6
24385	0.41	26	1.19	0.048	0.119	1.83	< 2	2	31	0.03	< 20	< 1	< 2	< 10	20	< 10	6	5
24386	0.25	25	0.96	0.051	0.092	1.64	< 2	1	36	0.02	< 20	< 1	< 2	< 10	13	< 10	5	8
24387	0.37	25	1.02	0.065	0.095	1.51	< 2	2	37	0.04	< 20	3	< 2	< 10	20	< 10	5	7
24388	0.33	29	0.91	0.055	0.088	1.79	< 2	2	33	0.03	< 20	2	< 2	< 10	19	< 10	5	7
24389	0.38	33	0.91	0.056	0.100	1.66	< 2	1	34	0.03	< 20	< 1	< 2	< 10	17	< 10	6	12
24390	0.40	33	0.98	0.064	0.097	1.78	< 2	1	40	0.03	< 20	3	< 2	< 10	14	< 10	6	14
24391	0.34	25	1.07	0.047	0.093	2.20	< 2	1	42	0.02	< 20	< 1	< 2	< 10	14	< 10	5	8
24392	0.43	26	1.06	0.057	0.096	1.63	< 2	1	31	0.04	< 20	< 1	< 2	< 10	17	< 10	5	6
24393	0.39	25	1.08	0.059	0.099	1.67	< 2	2	40	0.04	< 20	< 1	< 2	< 10	20	< 10	5	4
24394	0.52	26	1.05	0.079	0.098	1.35	< 2	2	42	0.05	< 20	< 1	< 2	< 10	27	< 10	5	9
24395	0.52	25	1.04	0.075	0.094	1.20	< 2	3	41	0.06	< 20	< 1	< 2	< 10	29	< 10	5	8
24396	0.38	23	1.06	0.066	0.096	1.31	< 2	2	41	0.04	< 20	2	< 2	< 10	26	< 10	5	7
24397	0.38	25	1.02	0.070	0.093	1.45	< 2	2	43	0.04	< 20	< 1	< 2	< 10	24	< 10	5	11
24398	0.30	25	1.15	0.056	0.097	1.80	< 2	2	36	0.03	< 20	< 1	< 2	< 10	22	< 10	5	10
24399	0.24	21	1.00	0.059	0.096	1.61	< 2	1	34	0.02	< 20	< 1	< 2	< 10	17	< 10	5	6
24400	0.23	28	1.39	0.058	0.087	1.90	< 2	2	43	0.02	< 20	< 1	< 2	< 10	17	< 10	6	8
24401	0.39	24	0.97	0.064	0.084	1.06	< 2	2	32	0.05	< 20	1	< 2	< 10	26	< 10	5	12
24402	0.40	26	1.13	0.079	0.093	2.05	< 2	2	38	0.04	< 20	2	< 2	< 10	22	< 10	6	12
24403	0.34	22	1.41	0.090	0.091	2.43	< 2	2	53	0.03	< 20	< 1	< 2	< 10	22	< 10	5	8
24404	0.36	24	1.66	0.176	0.084	1.80	< 2	2	98	0.02	< 20	1	< 2	< 10	22	< 10	5	20
24405	0.56	27	1.24	0.277	0.093	1.21	< 2	4	110	0.05	< 20	< 1	< 2	< 10	33	< 10	5	20
24406	0.52	31	1.17	0.187	0.102	0.89	< 2	3	61	0.07	< 20	< 1	< 2	< 10	32	< 10	6	20
24407	0.51	26	1.24	0.127	0.090	1.52	< 2	3	42	0.05	< 20	< 1	< 2	< 10	28	< 10	5	24
24408	0.01	< 10	5.48	0.020	0.035	0.97	5	11	85	0.02	< 20	3	< 2	< 10	51	< 10	2	11
24409	0.03	< 10	6.14	0.016	0.051	1.10	5	15	69	0.01	< 20	< 1	< 2	< 10	86	< 10	2	13
24410	0.26	< 10	0.93	0.033	0.018	1.94	< 2	2	11	0.03	< 20	< 1	< 2	< 10	19	< 10	2	23
24411	0.23	< 10	1.25	0.042	0.019	2.85	< 2	1	26	0.02	< 20	4	< 2	< 10	11	< 10	3	8
24412	1.34	< 10	0.03	2.91	0.001	< 0.01	< 2	< 1	10	< 0.01	< 20	1	< 2	< 10	< 1	< 10	3	1
24413	0.65	< 10	1.25	0.122	0.030	0.71	< 2	9	59	0.11	< 20	< 1	< 2	< 10	72	< 10	7	6
24414	1.15	< 10	2.33	0.261	0.046	0.53	3	22	117	0.21	< 20	9	< 2	< 10	191	< 10	9	3
24415	0.29	< 10	2.22	0.264	0.053	0.50	2	20	59	0.15	< 20	2	< 2	< 10	157	< 10	10	4
24416	0.05	< 10	2.29	0.288	0.028	0.46	< 2	18	90	0.14	< 20	< 1	< 2	< 10	135	< 10	7	2

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24417	0.04	< 10	1.98	0.313	0.025	0.22	< 2	15	136	0.10	< 20	< 1	< 2	< 10	106	49	6	2
24418	0.04	< 10	2.06	0.400	0.024	0.20	2	14	130	0.10	< 20	< 1	< 2	< 10	93	< 10	5	1
24419	0.07	< 10	2.52	0.215	0.023	0.21	2	14	35	0.12	< 20	2	< 2	< 10	99	< 10	6	2
24420	0.04	< 10	1.90	0.087	0.039	0.14	3	8	30	0.43	< 20	4	< 2	< 10	168	< 10	12	18
24421	0.06	< 10	2.42	0.181	0.026	0.18	< 2	16	25	0.11	< 20	2	< 2	< 10	104	< 10	7	2
24422	0.08	< 10	2.23	0.331	0.024	0.52	< 2	13	99	0.11	< 20	< 1	< 2	< 10	91	< 10	6	2
24423	0.71	< 10	2.40	0.219	0.025	1.09	4	20	54	0.17	< 20	< 1	< 2	< 10	151	< 10	7	4
24424	0.03	< 10	0.73	0.019	0.010	8.12	9	2	11	0.02	< 20	2	< 2	< 10	22	< 10	3	15
24425	0.15	12	2.06	0.028	0.051	5.27	7	2	28	0.03	< 20	4	< 2	< 10	18	< 10	4	26
24426	0.05	< 10	1.24	0.021	0.013	9.11	12	2	28	0.01	< 20	9	< 2	< 10	20	< 10	4	18
24427	1.40	< 10	0.04	3.03	0.001	0.02	< 2	< 1	11	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	< 1
24428	0.30	19	1.43	0.117	0.038	1.54	5	2	46	0.04	< 20	< 1	< 2	< 10	20	< 10	4	29
24429	0.61	19	1.21	0.162	0.045	3.79	4	2	32	0.06	< 20	4	< 2	< 10	24	< 10	5	36
24430	1.09	18	1.38	0.312	0.047	2.38	4	3	99	0.07	< 20	3	< 2	< 10	28	< 10	6	30
24431	0.35	20	1.17	0.083	0.047	3.25	5	2	19	0.04	< 20	1	< 2	< 10	24	< 10	4	35
24432	0.33	20	1.19	0.075	0.049	3.01	4	2	17	0.04	< 20	1	< 2	< 10	24	< 10	4	33
24433	0.31	27	0.77	0.075	0.067	0.40	< 2	1	23	0.04	< 20	< 1	< 2	< 10	15	< 10	5	23
24434	0.44	21	0.65	0.108	0.057	0.55	< 2	< 1	35	0.03	< 20	2	< 2	< 10	9	< 10	4	31
24435	0.75	26	0.79	0.153	0.064	0.22	< 2	1	41	0.06	< 20	3	< 2	< 10	14	< 10	5	26
24436	0.93	17	1.39	0.164	0.053	2.23	2	2	65	0.05	< 20	< 1	< 2	< 10	17	< 10	5	31
24437	1.07	15	1.72	0.206	0.040	3.41	3	2	69	0.06	< 20	1	< 2	< 10	19	< 10	5	30
24438	0.94	15	1.37	0.158	0.056	2.63	3	3	67	0.05	< 20	< 1	< 2	< 10	20	< 10	6	33
24439	1.16	19	1.32	0.180	0.054	1.62	3	2	61	0.07	< 20	< 1	< 2	< 10	21	< 10	5	34
24440	0.06	< 10	2.01	0.091	0.038	0.19	3	8	30	0.43	< 20	2	< 2	< 10	162	< 10	12	19
24441	1.14	22	1.24	0.176	0.062	0.67	2	3	61	0.07	< 20	3	< 2	< 10	21	< 10	6	33
24442	1.09	18	1.64	0.199	0.059	1.68	3	3	77	0.06	< 20	2	< 2	< 10	22	< 10	6	32
24443	1.01	21	1.18	0.212	0.066	0.83	2	2	71	0.06	< 20	2	< 2	< 10	17	< 10	5	30
24444	0.85	25	1.11	0.204	0.076	0.12	< 2	1	71	0.06	< 20	1	< 2	< 10	13	< 10	6	18
24445	0.70	22	1.76	0.207	0.067	0.19	< 2	2	111	0.05	< 20	3	< 2	< 10	15	< 10	6	21
24446	0.67	26	1.18	0.177	0.075	0.02	< 2	2	92	0.06	< 20	< 1	< 2	< 10	16	< 10	6	15
24447	0.95	24	1.13	0.162	0.079	0.16	< 2	4	54	0.10	< 20	< 1	< 2	< 10	29	< 10	6	25
24448	0.66	24	0.99	0.070	0.076	0.04	< 2	2	37	0.08	< 20	1	< 2	< 10	20	< 10	6	27

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PK2 Meas	4610	5780	4660																				
PK2 Cert	4785	5918	4749																				
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4570	897	< 1	32	83	353	2.90	9		67	0.7	18	0.43	23	42	6.12	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia) Meas				1.2	< 0.5	6330	358	5	4	35	152	1.21	36		228	1.1	18	0.29	46	9	8.16	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4920	1960	1330																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4800	1930	1270																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	5050	2070	1260																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				66.9	280	3630	546	13	25	> 5000	> 10000	1.63	78			0.6	3	1.69	28	31	3.50	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1990	1740	240																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 45f (Aqua Regia) Meas						336	183	< 1	211	9	28	7.51			147	1.1	< 2	0.08	43	359	14.1	20	< 1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	91	542	< 1	76	35	135	1.77	30		184	1.4	< 2	1.11	32	55	3.92	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
Oreas 623 (Aqua Regia) Meas				18.3	47.2	> 10000	536	8	14	2230	8980	1.67	80			< 0.5	4	1.03	193	13	11.9	10	2
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
24367 Orig				< 0.2	< 0.5	50	964	< 1	390	< 2	8	1.41	< 2	< 10	40	< 0.5	< 2	2.43	50	1360	4.59	< 10	< 1
24367 Dup				< 0.2	< 0.5	50	975	< 1	394	< 2	8	1.43	< 2	< 10	38	< 0.5	3	2.47	50	1360	4.68	< 10	< 1
24375 Orig	< 2	< 5	< 5																				
24375 Dup	< 2	< 5	< 5																				
24385 Orig	3	< 5	< 5																				
24385 Dup	3	< 5	< 5																				
24389 Orig				< 0.2	< 0.5	15	402	3	12	< 2	34	0.91	< 2	< 10	26	< 0.5	< 2	1.24	9	12	2.34	< 10	< 1
24389 Dup				< 0.2	< 0.5	15	395	3	12	< 2	33	0.89	< 2	< 10	27	< 0.5	< 2	1.22	9	13	2.31	< 10	< 1
24395 Orig	3	< 5	< 5																				
24395 Dup	5	< 5	< 5																				
24403 Orig				< 0.2	< 0.5	5	571	< 1	22	2	85	1.38	< 2	< 10	25	< 0.5	< 2	2.20	11	21	3.20	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24403 Dup				< 0.2	< 0.5	5	580	< 1	23	3	89	1.39	3	< 10	19	< 0.5	< 2	2.18	11	20	3.23	< 10	< 1
24405 Orig	3	< 5	< 5																				
24405 Dup	3	< 5	< 5																				
24413 Orig				1.3	5.1	41	1070	< 1	34	7	822	2.54	11	11	129	< 0.5	< 2	2.16	21	71	2.76	< 10	< 1
24413 Dup				1.3	5.1	42	1090	< 1	34	7	814	2.60	9	11	138	< 0.5	< 2	2.20	21	74	2.85	< 10	< 1
24415 Orig	3	< 5	< 5																				
24415 Split PREP DUP	3	< 5	< 5																				
24415 Orig	3	< 5	< 5																				
24415 Dup	3	< 5	< 5																				
24421 Orig				< 0.2	< 0.5	74	1150	< 1	73	< 2	77	2.56	2	< 10	13	< 0.5	< 2	3.26	33	110	4.52	< 10	< 1
24421 Dup				< 0.2	< 0.5	74	1140	< 1	74	< 2	75	2.56	< 2	< 10	14	< 0.5	< 2	3.25	33	110	4.45	< 10	< 1
24425 Orig	74	< 5	< 5																				
24425 Dup	75	< 5	< 5																				
24427 Orig				< 0.2	< 0.5	< 1	136	< 1	< 1	6	26	4.02	3	< 10	< 10	< 0.5	< 2	0.22	< 1	2	0.73	< 10	< 1
24427 Dup				< 0.2	< 0.5	< 1	128	< 1	< 1	< 2	19	4.26	< 2	< 10	< 10	< 0.5	< 2	0.21	< 1	2	0.74	< 10	< 1
24445 Orig	< 2	< 5	< 5																				
24445 Dup	< 2	< 5	5																				
24446 Orig				< 0.2	< 0.5	6	1740	< 1	32	< 2	69	2.24	< 2	< 10	113	0.7	< 2	2.96	9	36	2.22	< 10	< 1
24446 Dup				< 0.2	< 0.5	5	1590	< 1	29	12	73	2.07	3	< 10	103	0.6	< 2	2.70	8	33	2.01	< 10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PK2 Meas																		
PK2 Cert																		
OREAS 923 (AQUA REGIA) Meas	0.43	35	1.33		0.061	0.69	3	4	15		< 20		< 2	< 10	32	< 10	17	30
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.35	37	0.22	0.100	0.023	0.06	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	22
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.35	19	0.41	0.186	0.034	4.57	122	2	20		< 20		< 2	< 10	11	< 10	7	63
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.11	12	0.17	0.044	0.022	0.03		33	16	0.15	< 20		< 2	< 10	198		6	32
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.38		0.59	0.093	0.043	0.12	9	4	19		< 20	< 1	< 2	< 10	27		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
Oreas 623 (Aqua Regia) Meas	0.18	16	0.95	0.081	0.041	8.49	24	4	14		< 20	< 1	< 2	< 10	14	< 10	7	55
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
24367 Orig	< 0.01	< 10	5.96	0.010	0.006	0.57	13	10	169	< 0.01	< 20	< 1	< 2	< 10	46	< 10	< 1	2
24367 Dup	< 0.01	< 10	6.11	0.012	0.006	0.58	12	10	170	< 0.01	< 20	3	< 2	< 10	47	< 10	< 1	1
24375 Orig																		
24375 Dup																		
24385 Orig																		
24385 Dup																		
24389 Orig	0.39	33	0.92	0.057	0.101	1.66	< 2	1	34	0.03	< 20	< 1	< 2	< 10	18	< 10	6	10
24389 Dup	0.38	33	0.91	0.056	0.100	1.65	< 2	1	34	0.03	< 20	< 1	< 2	< 10	17	< 10	6	14
24395 Orig																		
24395 Dup																		
24403 Orig	0.34	22	1.40	0.090	0.091	2.47	< 2	2	54	0.03	< 20	1	< 2	< 10	22	< 10	5	10

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
24403 Dup	0.34	22	1.43	0.089	0.092	2.40	< 2	2	53	0.03	< 20	< 1	< 2	< 10	22	< 10	5	6
24405 Orig																		
24405 Dup																		
24413 Orig	0.64	< 10	1.23	0.121	0.029	0.71	< 2	9	59	0.11	< 20	< 1	< 2	< 10	72	< 10	6	6
24413 Dup	0.66	< 10	1.27	0.124	0.030	0.72	< 2	10	59	0.11	< 20	< 1	< 2	< 10	72	< 10	7	6
24415 Orig																		
24415 Split PREP DUP																		
24415 Orig																		
24415 Dup																		
24421 Orig	0.06	< 10	2.41	0.182	0.026	0.18	< 2	16	25	0.12	< 20	2	< 2	< 10	104	< 10	7	2
24421 Dup	0.06	< 10	2.42	0.179	0.026	0.18	< 2	16	26	0.11	< 20	1	< 2	< 10	104	< 10	7	2
24425 Orig																		
24425 Dup																		
24427 Orig	1.38	< 10	0.03	3.01	0.001	0.03	< 2	< 1	10	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	< 1
24427 Dup	1.41	< 10	0.04	3.06	0.001	0.02	< 2	< 1	11	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	< 1
24445 Orig																		
24445 Dup																		
24446 Orig	0.70	27	1.24	0.182	0.078	0.02	< 2	2	96	0.06	< 20	< 1	< 2	< 10	17	< 10	6	16
24446 Dup	0.64	25	1.12	0.172	0.072	0.02	< 2	2	88	0.06	< 20	< 1	< 2	< 10	15	< 10	6	15
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																		
Method Blank																		

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-13662**
Report Date: **05-Jan-21**
Date Submitted: **29-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2020-12-11 17:50:56
1E3-Timmins	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-24 09:47:27

REPORT **A20-13662**

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:

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

CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691051	2	< 5	< 5	< 0.2	< 0.5	22	493	< 1	14	< 2	44	2.15	< 2	< 10	63	< 0.5	< 2	2.65	9	26	2.52	< 10	< 1
691052	4	< 5	< 5	< 0.2	< 0.5	9	842	< 1	32	< 2	80	3.03	< 2	< 10	57	< 0.5	< 2	2.07	15	56	4.82	< 10	< 1
691053	< 2	< 5	< 5	< 0.2	< 0.5	8	728	< 1	23	< 2	51	3.20	< 2	< 10	73	< 0.5	< 2	2.15	11	72	3.48	< 10	< 1
691054	< 2	< 5	< 5	< 0.2	< 0.5	14	711	< 1	30	4	66	3.79	< 2	< 10	103	< 0.5	< 2	2.17	14	86	3.86	< 10	< 1
691055	5	< 5	< 5	< 0.2	< 0.5	37	646	< 1	29	< 2	66	3.59	< 2	< 10	81	< 0.5	< 2	2.16	14	86	3.74	< 10	< 1
691056	7	< 5	< 5	< 0.2	< 0.5	45	717	< 1	68	3	116	3.85	< 2	< 10	55	< 0.5	< 2	1.37	25	64	6.03	< 10	< 1
691057	11	< 5	< 5	< 0.2	< 0.5	12	336	3	9	< 2	35	1.66	4	< 10	40	< 0.5	< 2	1.24	7	4	1.56	< 10	< 1
691058	6	< 5	< 5	0.4	< 0.5	15	495	2	8	8	34	1.88	< 2	< 10	50	< 0.5	< 2	2.70	6	5	1.61	< 10	< 1
691059	8	< 5	< 5	< 0.2	< 0.5	21	471	< 1	13	30	78	2.13	< 2	< 10	54	< 0.5	2	0.88	8	25	2.50	< 10	< 1
691060	12	< 5	< 5	0.2	0.7	49	486	< 1	17	69	144	1.83	< 2	< 10	57	< 0.5	< 2	1.29	12	22	2.09	< 10	< 1
691061	7	< 5	< 5	< 0.2	< 0.5	32	747	< 1	76	7	83	2.70	< 2	< 10	37	< 0.5	< 2	1.63	28	17	4.54	< 10	< 1
691062	16	< 5	< 5	< 0.2	< 0.5	117	1050	< 1	62	3	94	4.36	< 2	< 10	41	< 0.5	< 2	4.73	38	51	7.29	10	< 1
691063	5	< 5	< 5	< 0.2	< 0.5	84	966	< 1	67	< 2	70	4.10	< 2	< 10	33	< 0.5	< 2	4.69	46	54	6.84	10	< 1
691064	42	< 5	< 5	< 0.2	< 0.5	73	983	< 1	61	2	84	4.01	< 2	< 10	31	< 0.5	< 2	4.71	44	51	6.80	10	< 1
691065	31	< 5	< 5	< 0.2	< 0.5	58	951	< 1	45	2	61	3.71	< 2	< 10	38	< 0.5	< 2	4.22	33	39	6.25	10	< 1
691066	122	< 5	< 5	< 0.2	< 0.5	80	1320	< 1	66	3	99	4.32	< 2	< 10	23	< 0.5	< 2	4.41	48	59	7.64	10	< 1
691067	4	< 5	< 5	< 0.2	< 0.5	103	1380	< 1	61	< 2	66	4.51	< 2	< 10	22	< 0.5	< 2	4.52	45	58	7.77	20	< 1
691068	< 2	< 5	< 5	< 0.2	< 0.5	74	1240	< 1	70	< 2	112	3.96	< 2	< 10	18	< 0.5	< 2	4.29	49	59	7.65	10	< 1
691069	9	< 5	< 5	< 0.2	< 0.5	80	1110	< 1	60	< 2	90	3.84	< 2	< 10	25	< 0.5	< 2	4.23	48	60	7.84	10	< 1
691070	1040	14	12	< 0.2	< 0.5	149	662	1	74	< 2	62	3.75	6	35	27	< 0.5	< 2	2.60	32	121	5.72	10	< 1
691071	< 2	< 5	< 5	0.6	< 0.5	78	1130	< 1	57	3	90	3.72	< 2	< 10	25	< 0.5	< 2	4.38	45	57	7.16	10	< 1
691072	3	< 5	< 5	< 0.2	< 0.5	34	487	< 1	13	< 2	78	1.76	< 2	< 10	170	< 0.5	< 2	1.39	9	24	2.50	< 10	< 1
691073	< 2	< 5	< 5	< 0.2	< 0.5	4	547	< 1	13	< 2	82	1.70	< 2	< 10	235	< 0.5	< 2	1.52	10	24	2.64	< 10	< 1
691074	< 2	< 5	< 5	< 0.2	< 0.5	7	509	< 1	13	< 2	74	1.74	< 2	< 10	205	< 0.5	< 2	1.07	10	23	2.78	< 10	< 1
691075	< 2	< 5	< 5	< 0.2	< 0.5	2	653	< 1	15	< 2	65	2.03	< 2	< 10	151	< 0.5	< 2	1.15	10	21	2.77	< 10	< 1
691076	< 2	< 5	< 5	< 0.2	< 0.5	5	714	< 1	44	< 2	68	2.21	< 2	< 10	133	< 0.5	< 2	0.89	11	72	2.83	< 10	< 1
691077	3	< 5	< 5	< 0.2	< 0.5	10	387	< 1	25	< 2	54	1.33	< 2	< 10	188	< 0.5	< 2	1.17	6	51	1.98	< 10	< 1
691078	6	< 5	< 5	< 0.2	< 0.5	30	320	< 1	5	< 2	47	1.10	< 2	< 10	67	< 0.5	< 2	0.97	5	11	1.77	< 10	< 1
691079	2	< 5	< 5	< 0.2	< 0.5	19	312	2	10	< 2	46	1.26	< 2	< 10	67	< 0.5	< 2	1.25	6	19	1.82	< 10	< 1
691080	14	< 5	< 5	< 0.2	< 0.5	55	585	2	85	2	98	3.13	< 2	< 10	116	< 0.5	< 2	1.85	29	163	4.57	10	< 1
691081	8	< 5	< 5	< 0.2	< 0.5	26	544	2	179	2	63	2.04	3	< 10	64	< 0.5	< 2	2.17	18	299	2.91	< 10	< 1
691082	3	< 5	< 5	< 0.2	< 0.5	10	342	1	17	2	52	1.78	< 2	< 10	71	< 0.5	< 2	0.94	5	42	1.88	< 10	< 1
691083	10	8	7	< 0.2	< 0.5	47	1280	< 1	528	3	71	4.09	< 2	< 10	< 10	< 0.5	< 2	4.85	50	1410	6.20	< 10	< 1
691084	3	< 5	< 5	< 0.2	< 0.5	16	753	< 1	93	< 2	44	2.76	< 2	< 10	104	< 0.5	3	2.99	18	264	3.66	< 10	< 1
691085	2	< 5	< 5	< 0.2	< 0.5	2	475	1	12	< 2	47	2.19	< 2	< 10	87	< 0.5	< 2	1.49	9	18	2.72	< 10	< 1
691086	242	< 5	< 5	< 0.2	< 0.5	7	476	2	16	< 2	73	2.09	< 2	< 10	101	< 0.5	< 2	1.12	8	19	2.51	< 10	< 1
691087	33	< 5	< 5	< 0.2	< 0.5	23	457	1	26	< 2	93	2.34	< 2	< 10	112	< 0.5	< 2	1.04	10	36	2.57	< 10	< 1
691088	15	< 5	< 5	< 0.2	< 0.5	23	483	1	199	3	64	3.09	40	< 10	45	< 0.5	< 2	0.86	34	405	4.85	< 10	< 1
691089	3	7	7	< 0.2	< 0.5	28	1120	< 1	607	< 2	35	2.47	< 2	< 10	< 10	< 0.5	< 2	4.07	38	1280	4.14	< 10	< 1
691090	521	14	11	< 0.2	0.6	154	687	< 1	64	< 2	64	3.91	3	37	25	< 0.5	< 2	2.65	33	89	5.98	10	< 1
691091	< 2	< 5	< 5	< 0.2	< 0.5	1	126	< 1	1	< 2	16	4.44	< 2	< 10	< 10	< 0.5	2	0.17	< 1	5	0.82	< 10	< 1
691092	4	< 5	< 5	< 0.2	< 0.5	22	779	< 1	227	4	42	2.84	< 2	< 10	69	< 0.5	< 2	0.87	18	347	4.33	< 10	< 1
691093	6	< 5	< 5	< 0.2	< 0.5	23	706	1	21	3	43	2.43	2	< 10	113	< 0.5	< 2	1.19	8	21	3.90	< 10	< 1
691094	5	< 5	< 5	< 0.2	< 0.5	24	1030	< 1	23	3	31	2.16	3	< 10	145	< 0.5	< 2	3.57	8	17	3.91	< 10	< 1
691095	3	< 5	< 5	< 0.2	< 0.5	40	494	< 1	12	< 2	33	2.17	< 2	< 10	181	< 0.5	< 2	0.63	13	24	3.50	< 10	< 1
691096	3	< 5	< 5	< 0.2	< 0.5	< 1	541	< 1	15	< 2	32	2.07	< 2	< 10	135	< 0.5	< 2	1.09	11	23	3.38	< 10	< 1
691097	3	< 5	< 5	< 0.2	< 0.5	2	599	1	18	< 2	36	2.37	2	< 10	120	< 0.5	< 2	0.58	10	22	3.43	< 10	< 1
691098	4	< 5	< 5	< 0.2	< 0.5	3	900	< 1	26	11	51	2.47	3	< 10	53	< 0.5	< 2	1.72	12	19	3.81	< 10	< 1
691099	2	< 5	< 5	< 0.2	< 0.5	13	739	< 1	36	16	69	3.07	6	< 10	72	< 0.5	< 2	0.77	10	27	3.91	< 10	< 1
691100	5	< 5	< 5	< 0.2	< 0.5	7	847	< 1	42	14	68	3.22	6	< 10	56	< 0.5	< 2	0.78	13	28	4.32	< 10	< 1
691101	3	7	6	< 0.2	< 0.5	30	1170	< 1	533	< 2	15	2.62	6	< 10	< 10	< 0.5	< 2	3.65	43	1160	5.35	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691102	< 2	14	14	< 0.2	< 0.5	41	945	< 1	544	3	16	2.36	7	< 10	< 10	< 0.5	< 2	2.86	44	1000	5.38	< 10	< 1
691103	< 2	9	8	< 0.2	< 0.5	31	1090	< 1	469	3	16	1.83	3	< 10	< 10	< 0.5	< 2	3.75	32	1100	4.42	< 10	< 1
691104	< 2	9	8	< 0.2	< 0.5	25	974	< 1	479	< 2	16	2.21	< 2	< 10	< 10	< 0.5	< 2	2.87	31	1310	4.63	< 10	< 1
691105	< 2	7	8	< 0.2	< 0.5	34	1010	< 1	457	< 2	24	3.16	< 2	< 10	< 10	< 0.5	< 2	2.53	35	1620	4.79	< 10	< 1
691106	< 2	10	9	< 0.2	< 0.5	36	961	< 1	459	< 2	22	3.11	< 2	< 10	52	< 0.5	< 2	2.82	35	1640	4.85	< 10	< 1
691107	< 2	12	10	< 0.2	< 0.5	36	957	< 1	432	< 2	13	2.75	< 2	< 10	54	< 0.5	< 2	3.03	32	1000	4.66	< 10	< 1
691108	< 2	13	11	< 0.2	< 0.5	31	837	< 1	354	< 2	13	1.45	< 2	< 10	12	< 0.5	< 2	2.67	24	667	2.19	< 10	< 1
691109	< 2	10	10	< 0.2	< 0.5	34	1100	< 1	449	4	17	2.18	4	< 10	< 10	< 0.5	< 2	3.79	35	1230	4.66	< 10	< 1
691110	959	13	11	< 0.2	< 0.5	136	633	< 1	68	3	64	3.37	5	36	30	< 0.5	< 2	2.62	30	114	5.25	10	< 1
691111	10	11	7	< 0.2	< 0.5	44	1030	< 1	428	2	28	2.63	5	< 10	10	< 0.5	< 2	3.43	36	1370	4.10	< 10	< 1
691112	4	< 5	< 5	< 0.2	< 0.5	66	1040	< 1	183	4	85	4.10	2	< 10	74	< 0.5	< 2	2.63	45	227	7.14	10	< 1
691113	3	< 5	< 5	< 0.2	< 0.5	49	1560	< 1	128	4	70	4.44	2	< 10	95	< 0.5	2	4.17	38	217	8.13	10	< 1
691114	5	< 5	< 5	0.2	< 0.5	58	911	< 1	59	< 2	79	3.50	2	< 10	49	< 0.5	3	0.86	27	98	7.04	10	< 1
691115	< 2	< 5	< 5	< 0.2	< 0.5	30	810	< 1	16	3	119	2.70	< 2	< 10	83	< 0.5	< 2	0.63	11	24	3.94	10	< 1
691116	6	6	6	< 0.2	< 0.5	67	1480	< 1	253	< 2	69	4.12	< 2	< 10	30	< 0.5	< 2	4.07	38	739	7.41	10	< 1
691117	8	< 5	< 5	< 0.2	< 0.5	257	1410	< 1	261	4	114	4.22	< 2	< 10	140	< 0.5	3	3.90	35	539	8.65	10	< 1
691118	< 2	< 5	< 5	< 0.2	< 0.5	11	1580	< 1	47	< 2	81	4.37	< 2	< 10	52	< 0.5	< 2	4.62	28	77	9.01	20	< 1
691119	12	< 5	< 5	0.3	< 0.5	90	1400	< 1	88	< 2	84	4.48	2	< 10	45	< 0.5	< 2	3.24	46	167	10.4	20	1
691120	5	< 5	< 5	< 0.2	< 0.5	49	1450	< 1	93	< 2	74	4.20	< 2	< 10	43	< 0.5	2	4.79	33	284	8.29	10	2
691121	16	< 5	< 5	< 0.2	< 0.5	61	1450	< 1	66	< 2	85	4.25	< 2	< 10	20	< 0.5	3	4.64	33	117	8.66	20	1
691122	16	< 5	< 5	< 0.2	< 0.5	14	1430	< 1	109	< 2	79	4.03	< 2	< 10	18	< 0.5	2	5.07	29	381	7.79	10	< 1
691123	7	< 5	< 5	< 0.2	< 0.5	26	707	< 1	54	3	59	3.16	< 2	< 10	104	< 0.5	3	1.67	16	267	4.61	10	< 1
691124	37	< 5	< 5	< 0.2	< 0.5	83	895	< 1	70	< 2	83	4.55	< 2	< 10	41	< 0.5	< 2	2.31	48	65	9.64	20	1
691125	5	< 5	< 5	< 0.2	0.6	18	1100	< 1	36	< 2	63	3.77	< 2	< 10	44	< 0.5	< 2	4.76	20	183	7.50	10	< 1
691126	17	< 5	< 5	< 0.2	< 0.5	57	503	1	41	< 2	70	2.29	4	< 10	66	< 0.5	< 2	2.09	21	57	4.41	< 10	< 1
691127	11	29	27	< 0.2	< 0.5	111	835	< 1	67	3	95	3.69	2	< 10	43	< 0.5	< 2	4.24	37	434	6.05	10	< 1
691128	11	62	48	< 0.2	< 0.5	86	693	< 1	124	5	62	3.83	7	< 10	14	< 0.5	< 2	3.02	48	912	5.68	10	< 1
691129	9	39	33	< 0.2	< 0.5	139	919	< 1	172	< 2	152	5.25	5	< 10	12	< 0.5	6	3.53	65	731	9.53	10	< 1
691130	484	13	11	< 0.2	< 0.5	160	729	< 1	66	< 2	71	3.96	< 2	44	30	< 0.5	< 2	2.97	34	89	6.28	20	< 1
691131	12	< 5	< 5	0.3	0.6	254	81	11	167	11	633	0.94	1230	< 10	22	< 0.5	< 2	0.12	76	25	5.96	< 10	< 1
691132	6	< 5	< 5	< 0.2	0.7	155	344	6	71	8	385	1.94	15	< 10	61	< 0.5	< 2	1.86	36	15	4.33	< 10	< 1
691133	< 2	< 5	< 5	< 0.2	< 0.5	< 1	129	< 1	< 1	< 2	22	4.91	< 2	< 10	13	< 0.5	4	0.21	< 1	3	0.75	10	< 1
691134	< 2	< 5	< 5	< 0.2	< 0.5	9	442	3	6	4	57	2.00	< 2	< 10	120	< 0.5	< 2	2.72	4	4	1.90	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691051	0.19	24	1.13	0.107	0.096	0.47	< 2	2	42	0.02	< 20	< 1	< 2	< 10	24	< 10	7	6
691052	0.17	21	1.47	0.071	0.099	0.16	3	6	31	0.06	< 20	5	< 2	< 10	49	< 10	7	7
691053	0.25	31	1.33	0.178	0.123	0.05	< 2	3	60	0.09	< 20	< 1	< 2	< 10	52	< 10	9	5
691054	0.42	31	1.46	0.246	0.155	0.17	< 2	5	74	0.10	< 20	< 1	< 2	< 10	56	< 10	10	4
691055	0.30	32	1.69	0.185	0.143	0.06	< 2	5	56	0.07	< 20	4	< 2	< 10	55	< 10	9	4
691056	0.18	22	2.02	0.069	0.107	0.28	< 2	9	26	0.04	< 20	< 1	< 2	< 10	54	< 10	8	6
691057	0.12	11	1.25	0.057	0.038	0.40	< 2	< 1	21	< 0.01	< 20	< 1	< 2	< 10	7	< 10	2	14
691058	0.16	12	1.30	0.046	0.047	0.16	< 2	< 1	30	< 0.01	< 20	< 1	< 2	< 10	9	< 10	3	12
691059	0.16	19	1.24	0.045	0.093	0.20	< 2	3	26	< 0.01	< 20	< 1	< 2	< 10	25	< 10	6	5
691060	0.15	25	0.95	0.071	0.099	0.18	< 2	2	30	0.02	< 20	4	< 2	< 10	28	< 10	7	4
691061	0.09	16	1.39	0.054	0.060	0.35	< 2	6	29	0.03	< 20	< 1	< 2	< 10	37	< 10	6	13
691062	0.16	< 10	2.59	0.037	0.051	0.50	3	22	49	0.03	< 20	6	< 2	< 10	228	< 10	14	6
691063	0.11	< 10	2.29	0.036	0.052	0.35	< 2	22	47	0.02	< 20	< 1	< 2	< 10	219	< 10	15	4
691064	0.10	< 10	2.37	0.038	0.053	0.45	3	22	48	0.02	< 20	7	< 2	< 10	224	< 10	18	5
691065	0.12	< 10	2.29	0.035	0.056	0.60	2	18	42	< 0.01	< 20	< 1	< 2	< 10	166	< 10	14	8
691066	0.05	< 10	3.02	0.034	0.055	0.42	< 2	30	38	0.09	< 20	< 1	< 2	< 10	288	< 10	16	4
691067	0.04	< 10	3.17	0.029	0.052	0.29	2	29	38	0.16	< 20	< 1	< 2	< 10	286	< 10	16	4
691068	0.03	< 10	2.47	0.041	0.050	0.24	< 2	28	48	0.22	< 20	4	< 2	< 10	278	< 10	15	3
691069	0.05	< 10	2.79	0.034	0.054	0.33	< 2	25	42	0.12	< 20	2	< 2	< 10	279	< 10	17	3
691070	0.05	< 10	2.21	0.070	0.039	0.20	< 2	7	26	0.42	< 20	6	< 2	< 10	173	< 10	13	20
691071	0.07	< 10	2.60	0.036	0.052	0.29	< 2	27	39	0.12	< 20	< 1	< 2	< 10	266	< 10	18	3
691072	0.50	27	1.35	0.077	0.074	0.03	< 2	3	28	0.10	< 20	3	< 2	< 10	33	< 10	6	12
691073	0.65	34	1.39	0.080	0.096	0.03	< 2	3	30	0.11	< 20	2	< 2	< 10	39	< 10	7	19
691074	0.51	33	1.33	0.103	0.099	0.03	< 2	3	31	0.10	< 20	< 1	< 2	< 10	38	< 10	7	17
691075	0.46	39	1.77	0.076	0.107	0.38	< 2	3	31	0.10	< 20	< 1	< 2	< 10	39	< 10	8	13
691076	0.39	22	1.98	0.071	0.065	0.06	< 2	4	29	0.11	< 20	< 1	< 2	< 10	37	< 10	5	21
691077	0.19	14	0.98	0.081	0.041	< 0.01	< 2	1	30	0.04	< 20	< 1	< 2	< 10	16	< 10	3	16
691078	0.22	13	0.73	0.067	0.039	0.05	< 2	1	28	0.04	< 20	3	< 2	< 10	13	< 10	3	15
691079	0.25	12	0.89	0.057	0.039	0.10	< 2	2	31	0.03	< 20	2	< 2	< 10	20	< 10	3	13
691080	0.36	< 10	2.71	0.054	0.047	0.57	< 2	14	31	0.05	< 20	< 1	< 2	< 10	120	< 10	6	13
691081	0.21	10	2.86	0.043	0.039	0.27	< 2	5	50	0.02	< 20	4	< 2	< 10	37	< 10	3	14
691082	0.22	13	1.61	0.055	0.038	0.20	< 2	1	28	0.01	< 20	< 1	< 2	< 10	13	< 10	2	20
691083	< 0.01	< 10	8.11	0.013	0.013	0.23	12	20	119	0.01	< 20	< 1	< 2	< 10	125	< 10	1	3
691084	0.19	21	3.70	0.047	0.068	0.56	< 2	7	69	< 0.01	< 20	3	< 2	< 10	49	< 10	5	12
691085	0.24	32	2.01	0.051	0.095	0.61	< 2	2	37	< 0.01	< 20	2	< 2	< 10	22	< 10	7	7
691086	0.37	28	1.87	0.055	0.088	0.41	< 2	2	31	0.02	< 20	< 1	< 2	< 10	23	< 10	6	9
691087	0.48	29	2.06	0.061	0.090	0.21	< 2	2	33	0.03	< 20	1	< 2	< 10	26	< 10	6	8
691088	0.34	< 10	2.61	0.029	0.044	1.57	4	5	25	0.02	< 20	< 1	< 2	< 10	36	< 10	2	19
691089	< 0.01	< 10	6.09	0.012	0.007	0.09	9	13	111	0.01	< 20	< 1	< 2	< 10	76	< 10	2	2
691090	0.04	< 10	2.18	0.073	0.041	0.15	< 2	7	25	0.45	< 20	9	2	< 10	184	< 10	14	21
691091	1.36	< 10	0.03	2.26	0.001	< 0.01	< 2	< 1	11	< 0.01	< 20	1	< 2	< 10	< 1	< 10	3	2
691092	0.17	19	2.62	0.058	0.062	0.65	3	5	32	0.02	< 20	4	< 2	< 10	38	< 10	4	14
691093	0.34	32	2.19	0.060	0.094	0.64	< 2	2	35	0.05	< 20	< 1	< 2	< 10	29	< 10	7	12
691094	0.41	27	3.20	0.061	0.078	0.47	< 2	2	69	0.04	< 20	< 1	< 2	< 10	28	< 10	7	13
691095	0.68	34	1.68	0.079	0.101	0.52	< 2	4	27	0.09	< 20	5	< 2	< 10	43	< 10	7	18
691096	0.96	33	1.65	0.094	0.097	0.58	< 2	4	40	0.11	< 20	3	< 2	< 10	42	< 10	7	18
691097	0.32	35	1.93	0.070	0.099	0.56	< 2	3	31	0.06	< 20	< 1	< 2	< 10	35	< 10	7	13
691098	0.14	33	2.47	0.044	0.093	0.46	< 2	2	36	0.02	< 20	7	< 2	< 10	25	< 10	7	8
691099	0.18	25	2.87	0.054	0.084	0.41	< 2	3	24	0.01	< 20	4	< 2	< 10	30	< 10	5	10
691100	0.12	26	3.20	0.043	0.089	0.58	< 2	3	22	0.01	< 20	1	< 2	< 10	33	< 10	5	10
691101	< 0.01	< 10	7.33	0.014	0.009	0.19	9	15	123	0.02	< 20	< 1	< 2	< 10	87	< 10	2	2

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691102	< 0.01	< 10	7.12	0.012	0.009	0.06	8	14	130	0.02	< 20	< 1	< 2	< 10	92	< 10	2	1
691103	< 0.01	< 10	6.31	0.011	0.007	0.02	7	11	207	0.02	< 20	< 1	< 2	< 10	72	< 10	2	1
691104	< 0.01	< 10	6.18	0.011	0.008	< 0.01	9	13	150	0.01	< 20	< 1	< 2	< 10	85	< 10	2	1
691105	< 0.01	< 10	6.45	0.010	0.011	0.04	11	12	86	< 0.01	< 20	3	< 2	< 10	102	< 10	2	1
691106	< 0.01	< 10	6.52	0.017	0.011	0.04	11	11	116	< 0.01	< 20	< 1	< 2	< 10	105	< 10	3	1
691107	< 0.01	< 10	6.36	0.017	0.010	0.03	7	15	158	< 0.01	< 20	< 1	< 2	< 10	95	< 10	2	1
691108	< 0.01	< 10	4.32	0.012	0.009	0.04	4	9	150	< 0.01	< 20	< 1	< 2	< 10	40	< 10	2	< 1
691109	< 0.01	< 10	6.68	0.013	0.009	0.05	9	13	231	0.03	< 20	< 1	< 2	< 10	84	< 10	2	1
691110	0.05	< 10	2.00	0.063	0.035	0.19	< 2	6	24	0.37	< 20	10	< 2	< 10	156	< 10	12	14
691111	< 0.01	< 10	5.43	0.011	0.009	0.08	11	10	119	0.01	< 20	2	< 2	< 10	87	< 10	2	1
691112	0.14	< 10	3.23	0.042	0.028	0.39	4	23	24	0.06	< 20	< 1	< 2	< 10	204	< 10	8	3
691113	0.28	< 10	3.97	0.050	0.023	0.54	< 2	24	38	0.07	< 20	< 1	< 2	< 10	196	< 10	8	3
691114	0.09	17	2.42	0.043	0.052	1.16	< 2	13	18	0.05	< 20	5	< 2	< 10	108	< 10	6	12
691115	0.12	28	1.81	0.076	0.087	0.14	< 2	3	25	0.04	< 20	3	< 2	< 10	37	< 10	5	4
691116	0.06	< 10	4.78	0.025	0.022	0.23	7	19	48	0.02	< 20	< 1	< 2	< 10	132	< 10	4	4
691117	0.25	< 10	4.49	0.043	0.020	0.48	7	23	44	0.07	< 20	< 1	< 2	< 10	168	< 10	5	4
691118	0.09	< 10	3.60	0.052	0.025	0.18	5	27	39	0.06	< 20	< 1	< 2	< 10	210	< 10	8	3
691119	0.49	< 10	3.45	0.084	0.026	1.64	5	31	33	0.11	< 20	< 1	< 2	< 10	235	< 10	7	4
691120	0.10	< 10	4.47	0.062	0.021	0.13	4	28	48	0.03	< 20	< 1	< 2	< 10	194	< 10	6	3
691121	0.05	< 10	4.05	0.033	0.023	0.29	2	27	47	0.02	< 20	1	< 2	< 10	203	< 10	6	3
691122	0.06	< 10	4.33	0.037	0.018	0.20	8	25	58	0.01	< 20	< 1	< 2	< 10	172	< 10	6	2
691123	0.16	13	2.83	0.048	0.057	0.18	2	9	24	0.01	< 20	5	< 2	< 10	71	< 10	4	11
691124	0.60	< 10	3.17	0.058	0.035	1.99	4	28	32	0.11	< 20	10	< 2	< 10	239	< 10	7	5
691125	0.18	< 10	3.30	0.034	0.026	0.30	3	21	83	0.02	< 20	< 1	< 2	< 10	153	< 10	9	3
691126	0.22	12	1.73	0.042	0.056	0.95	< 2	5	34	< 0.01	< 20	< 1	< 2	< 10	45	< 10	6	13
691127	0.12	< 10	3.96	0.038	0.037	0.90	5	19	54	0.04	< 20	< 1	< 2	< 10	126	< 10	9	6
691128	0.01	< 10	4.56	0.033	0.021	1.07	6	10	32	0.05	< 20	< 1	< 2	< 10	112	< 10	5	2
691129	< 0.01	< 10	6.10	0.015	0.021	2.98	9	20	32	0.02	< 20	< 1	< 2	< 10	162	< 10	5	4
691130	0.04	< 10	2.21	0.074	0.043	0.17	< 2	7	27	0.45	< 20	10	< 2	< 10	187	< 10	15	17
691131	0.15	< 10	0.61	0.027	0.040	5.14	< 2	2	6	< 0.01	< 20	< 1	< 2	< 10	11	< 10	2	23
691132	0.29	21	1.44	0.045	0.055	1.86	< 2	2	28	< 0.01	< 20	< 1	< 2	< 10	14	< 10	6	19
691133	1.57	< 10	0.04	2.56	0.001	0.01	< 2	< 1	12	< 0.01	< 20	5	< 2	< 10	< 1	< 10	3	1
691134	0.51	15	1.61	0.045	0.039	0.04	< 2	< 1	24	0.04	< 20	2	< 2	< 10	8	< 10	3	11

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 134b (AQUA REGIA) Meas				> 100	592	1380				> 5000	> 10000		224						105		12.7		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						106		12.25		
OREAS 134b (AQUA REGIA) Meas				> 100	582	1330				> 5000	> 10000		217						102		12.0		
OREAS 134b (AQUA REGIA) Cert				204	563	1360				133000	177000		221						106		12.25		
OREAS 133a (Aqua Regia) Meas				99.9	303	319				> 5000	> 10000		127		26				23		7.60		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				97.7	294	323				> 5000	> 10000		127		19				23		7.80		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 133a (Aqua Regia) Meas				> 100	301	333				> 5000	> 10000		133		21				24		8.11		
OREAS 133a (Aqua Regia) Cert				97	297	324				48600.00	106000.00		140		59				23		7.92		
OREAS 922 (AQUA REGIA) Meas				0.6	0.6	2130	761	< 1	33	81	336	2.86	3		94	0.7	4	0.38	20	43	5.02	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.3	0.5	4460	910	< 1	30	91	374	3.11	4		83	0.7	8	0.40	23	44	6.17	10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4390	851	< 1	30	83	332	3.05	5		70	0.6	14	0.35	22	41	5.89	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia) Meas				1.3	< 0.5	6120	341	5	5	36	152	1.10	32		279	1.0	11	0.27	43	9	7.95	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4960	1990	1300																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				66.1	282	3540	517	13	24	> 5000	> 10000	1.70	70			0.5	< 2	1.59	27	32	3.40	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				73.8	304	3980	577	15	25	> 5000	> 10000	1.90	77			0.6	< 2	1.76	30	32	3.83	10	4

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				65.7	281	3660	522	13	23	> 5000	> 10000	1.74	72			0.5	< 2	1.61	27	32	3.43	10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1850	1670	231																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1930	1690	232																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
691053 Orig				< 0.2	< 0.5	8	741	< 1	23	< 2	53	3.26	< 2	< 10	74	< 0.5	< 2	2.19	12	73	3.55	< 10	< 1
691053 Dup				< 0.2	< 0.5	8	714	< 1	22	< 2	50	3.14	< 2	< 10	72	< 0.5	< 2	2.12	11	71	3.41	< 10	< 1
691060 Orig	12	< 5	< 5																				
691060 Dup	11	< 5	< 5																				
691061 Orig				< 0.2	< 0.5	33	755	< 1	76	8	84	2.73	< 2	< 10	38	< 0.5	< 2	1.63	28	17	4.56	< 10	< 1
691061 Dup				< 0.2	< 0.5	32	739	< 1	76	5	81	2.67	< 2	< 10	37	< 0.5	< 2	1.62	28	16	4.51	< 10	< 1
691071 Orig	2	< 5	< 5																				
691071 Dup	< 2	< 5	< 5																				
691080 Orig	13	< 5	< 5																				
691080 Dup	14	< 5	< 5																				
691091 Orig	< 2	< 5	< 5																				
691091 Dup	< 2	< 5	< 5																				
691100 Orig	5	< 5	< 5	< 0.2	< 0.5	7	847	< 1	42	14	68	3.22	6	< 10	56	< 0.5	< 2	0.78	13	28	4.32	< 10	< 1
691100 Split PREP DUP	4	< 5	< 5	1.7	< 0.5	7	842	< 1	43	13	66	3.20	4	< 10	55	< 0.5	< 2	0.77	13	28	4.27	10	< 1
691100 Orig	4	< 5	< 5	< 0.2	< 0.5	7	854	< 1	42	13	69	3.27	6	< 10	57	< 0.5	< 2	0.78	13	28	4.35	< 10	< 1
691100 Dup	6	< 5	< 5	< 0.2	< 0.5	7	840	< 1	42	16	67	3.17	5	< 10	56	< 0.5	< 2	0.77	13	28	4.28	10	< 1
691109 Orig	< 2	10	10																				
691109 Dup	< 2	10	10																				
691116 Orig				< 0.2	< 0.5	68	1490	< 1	256	< 2	70	4.15	< 2	< 10	30	< 0.5	< 2	4.11	39	741	7.50	10	< 1
691116 Dup				< 0.2	< 0.5	65	1460	< 1	250	3	68	4.09	< 2	< 10	30	< 0.5	< 2	4.03	37	738	7.32	10	< 1
691129 Orig	9	39	33	< 0.2	< 0.5	139	910	< 1	170	< 2	149	5.17	2	< 10	11	< 0.5	4	3.50	65	725	9.45	10	< 1
691129 Dup	9	39	32	< 0.2	< 0.5	140	928	< 1	174	< 2	156	5.33	7	< 10	12	< 0.5	7	3.57	65	738	9.62	20	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 134b (AQUA REGIA) Meas						19.0												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 134b (AQUA REGIA) Meas						18.1												
OREAS 134b (AQUA REGIA) Cert						19.31												
OREAS 133a (Aqua Regia) Meas						8.21	154											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						10.8	151											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 133a (Aqua Regia) Meas						11.3	154											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.47	35	1.34	0.031	0.066	0.40	< 2	3	15		< 20		< 2	< 10	33	< 10	19	18
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.41	35	1.53		0.065	0.71	2	3	15		< 20		< 2	< 10	34	< 10	18	13
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.40	31	1.49		0.062	0.69	2	3	14		< 20		< 2	< 10	33	< 10	18	21
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.36	37	0.23	0.103	0.026	0.07	4	2	12	0.02	< 20	5	< 2	< 10	5	< 10	7	41
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.36	19	0.44	0.136	0.035	4.35	119	2	18		< 20		< 2	< 10	11	< 10	7	53
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.42	23	0.49	0.159	0.038	5.04	146	2	20		< 20		< 2	< 10	12	< 10	8	60

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.35	19	0.45	0.138	0.034	4.50	131	2	19		< 20		< 2	< 10	11	< 10	7	55
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
691053 Orig	0.25	31	1.36	0.181	0.125	0.05	< 2	4	61	0.09	< 20	4	< 2	< 10	53	< 10	9	5
691053 Dup	0.25	30	1.31	0.175	0.121	0.05	< 2	3	58	0.09	< 20	< 1	< 2	< 10	51	< 10	9	5
691060 Orig																		
691060 Dup																		
691061 Orig	0.10	17	1.40	0.055	0.060	0.35	< 2	6	30	0.03	< 20	5	< 2	< 10	38	< 10	6	13
691061 Dup	0.09	16	1.38	0.052	0.061	0.35	< 2	5	29	0.03	< 20	< 1	< 2	< 10	37	< 10	6	13
691071 Orig																		
691071 Dup																		
691080 Orig																		
691080 Dup																		
691091 Orig																		
691091 Dup																		
691100 Orig	0.12	26	3.20	0.043	0.089	0.58	< 2	3	22	0.01	< 20	1	< 2	< 10	33	< 10	5	10
691100 Split PREP DUP	0.12	26	3.17	0.041	0.088	0.57	< 2	3	21	0.01	< 20	< 1	< 2	< 10	33	< 10	5	10
691100 Orig	0.12	26	3.22	0.043	0.090	0.58	< 2	3	22	0.01	< 20	1	< 2	< 10	33	< 10	5	11
691100 Dup	0.12	25	3.17	0.042	0.088	0.57	< 2	3	21	0.01	< 20	2	< 2	< 10	32	< 10	5	9
691109 Orig																		
691109 Dup																		
691116 Orig	0.06	< 10	4.82	0.025	0.023	0.23	8	19	49	0.02	< 20	< 1	< 2	< 10	133	< 10	4	4
691116 Dup	0.06	< 10	4.75	0.025	0.022	0.22	7	19	46	0.02	< 20	< 1	< 2	< 10	130	< 10	4	4
691129 Orig	< 0.01	< 10	6.04	0.014	0.021	2.95	8	20	32	0.02	< 20	< 1	< 2	< 10	160	< 10	5	4
691129 Dup	< 0.01	< 10	6.16	0.015	0.021	3.00	9	20	33	0.02	< 20	2	< 2	< 10	163	< 10	5	4
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-13819**
Report Date: **25-Jan-21**
Date Submitted: **31-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2021-01-06 15:29:43

REPORT **A20-13819**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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Report No.: **A20-13819**
Report Date: **25-Jan-21**
Date Submitted: **31-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-31 12:02:54

REPORT **A20-13819**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691135	4	< 5	< 5	< 0.2	< 0.5	50	385	3	22	10	102	2.42	17	< 10	92	< 0.5	< 2	1.53	16	13	2.39	< 10	< 1
691136	< 2	< 5	< 5	< 0.2	< 0.5	6	290	< 1	6	< 2	41	1.79	4	< 10	60	< 0.5	< 2	1.75	4	7	1.57	< 10	< 1
691137	< 2	< 5	< 5	< 0.2	< 0.5	10	274	< 1	5	< 2	33	2.03	2	< 10	60	< 0.5	< 2	1.38	4	6	1.49	< 10	< 1
691138	< 2	< 5	< 5	< 0.2	< 0.5	15	270	< 1	9	< 2	29	1.88	5	< 10	55	< 0.5	< 2	1.70	5	6	1.45	< 10	< 1
691139	3	< 5	< 5	< 0.2	< 0.5	25	378	< 1	10	< 2	34	2.50	3	< 10	101	< 0.5	< 2	1.57	10	9	2.26	< 10	< 1
691140	13	< 5	< 5	< 0.2	< 0.5	11	1070	< 1	71	< 2	48	3.47	7	< 10	22	< 0.5	< 2	4.61	31	22	6.23	< 10	< 1
691141	36	< 5	< 5	< 0.2	< 0.5	21	1440	1	42	2	52	0.95	< 2	< 10	124	< 0.5	< 2	9.87	14	9	4.67	< 10	< 1
691142	16	< 5	< 5	< 0.2	< 0.5	52	1450	< 1	36	< 2	39	2.10	< 2	< 10	149	< 0.5	< 2	7.49	26	48	5.76	< 10	< 1
691143	7	< 5	< 5	< 0.2	< 0.5	54	804	< 1	39	< 2	36	3.71	4	< 10	64	< 0.5	< 2	4.69	47	80	5.87	< 10	< 1
691144	131	8	12	< 0.2	< 0.5	36	1370	< 1	386	< 2	15	1.21	< 2	< 10	53	< 0.5	< 2	8.29	54	348	5.78	< 10	< 1
691145	8	13	22	< 0.2	< 0.5	4	1360	< 1	477	< 2	7	0.82	< 2	< 10	176	< 0.5	< 2	8.04	50	724	4.98	< 10	< 1
691146	4	9	23	< 0.2	< 0.5	14	1300	< 1	468	< 2	6	0.99	< 2	< 10	127	< 0.5	< 2	7.39	50	970	4.76	< 10	< 1
691147	2	5	11	< 0.2	< 0.5	3	1230	< 1	457	< 2	8	1.36	< 2	< 10	22	< 0.5	2	5.38	37	1440	4.74	< 10	< 1
691148	11	11	27	< 0.2	< 0.5	41	1080	< 1	275	< 2	8	1.07	< 2	< 10	95	< 0.5	< 2	5.02	33	1250	4.28	< 10	< 1
691149	23	25	58	< 0.2	< 0.5	141	1140	< 1	259	< 2	21	1.80	4	< 10	321	< 0.5	< 2	6.50	33	1360	4.46	< 10	< 1
691150	1070	14	20	0.2	< 0.5	147	665	< 1	70	4	60	3.42	11	46	20	< 0.5	< 2	2.91	29	116	5.70	< 10	< 1
691151	329	6	61	< 0.2	< 0.5	138	964	< 1	171	< 2	27	2.40	3	< 10	35	< 0.5	< 2	6.00	33	1130	4.49	< 10	< 1
691152	357	< 5	50	< 0.2	< 0.5	303	886	< 1	211	< 2	33	2.89	3	< 10	51	< 0.5	< 2	4.22	40	1160	4.56	< 10	< 1
691153	19	21	60	< 0.2	< 0.5	72	923	< 1	207	< 2	30	2.32	2	< 10	38	< 0.5	3	4.33	45	769	4.84	< 10	< 1
691154	9	< 5	< 5	< 0.2	< 0.5	85	402	2	41	< 2	16	1.08	2	< 10	26	< 0.5	< 2	1.20	22	37	1.98	< 10	< 1
691155	7	< 5	< 5	< 0.2	< 0.5	21	543	1	55	< 2	24	1.25	4	< 10	78	< 0.5	< 2	1.98	16	106	2.17	< 10	< 1
691156	7	< 5	< 5	< 0.2	< 0.5	17	382	< 1	18	< 2	38	2.21	< 2	< 10	95	< 0.5	< 2	2.76	9	12	1.94	< 10	< 1
691157	6	< 5	< 5	< 0.2	< 0.5	11	435	< 1	15	< 2	38	1.86	3	< 10	90	< 0.5	< 2	2.44	8	10	1.68	< 10	< 1
691158	6	< 5	< 5	< 0.2	< 0.5	22	435	< 1	17	< 2	37	1.79	2	< 10	99	< 0.5	< 2	3.07	9	11	1.85	< 10	< 1
691159	3	< 5	< 5	< 0.2	< 0.5	16	357	< 1	22	< 2	40	2.21	< 2	< 10	221	0.5	< 2	2.20	9	13	2.18	< 10	< 1
691160	19	7	15	< 0.2	< 0.5	50	755	< 1	309	< 2	39	2.69	5	< 10	73	< 0.5	< 2	3.47	50	980	4.52	< 10	< 1
691161	7	9	21	< 0.2	< 0.5	38	892	< 1	419	< 2	14	2.18	2	< 10	< 10	< 0.5	4	4.11	48	2210	5.41	< 10	< 1
691162	< 2	< 5	< 5	< 0.2	< 0.5	1	117	< 1	1	< 2	21	4.51	3	< 10	< 10	< 0.5	< 2	0.23	< 1	10	0.66	< 10	< 1
691163	7	< 5	9	< 0.2	< 0.5	28	1170	< 1	427	2	19	1.71	< 2	< 10	18	< 0.5	< 2	6.38	48	1260	5.20	< 10	< 1
691164	107	< 5	< 5	0.4	< 0.5	346	961	< 1	95	< 2	35	2.36	5	< 10	49	< 0.5	< 2	4.23	46	129	4.20	< 10	< 1
691165	19	< 5	< 5	0.3	< 0.5	73	1350	1	37	< 2	71	1.34	6	< 10	19	< 0.5	< 2	2.76	13	18	5.66	< 10	< 1
691166	3	< 5	< 5	< 0.2	< 0.5	19	357	1	42	< 2	49	1.83	2	< 10	147	< 0.5	< 2	1.22	11	26	2.63	< 10	< 1
691167	6	< 5	< 5	< 0.2	< 0.5	34	741	1	351	< 2	58	3.05	< 2	< 10	71	< 0.5	< 2	1.94	33	887	5.40	10	< 1
691168	10	< 5	< 5	< 0.2	< 0.5	30	1310	< 1	299	< 2	45	2.58	< 2	< 10	213	< 0.5	< 2	2.80	25	649	5.90	< 10	< 1
691169	18	< 5	< 5	0.3	< 0.5	103	2580	< 1	27	< 2	44	2.37	6	< 10	21	< 0.5	2	1.56	22	24	24.6	< 10	< 1
691170	517	14	11	< 0.2	< 0.5	149	665	< 1	59	< 2	59	3.45	6	48	17	< 0.5	< 2	2.90	29	81	5.74	10	< 1
691171	27	< 5	< 5	< 0.2	< 0.5	89	686	2	35	< 2	40	2.14	3	< 10	232	< 0.5	< 2	1.40	25	35	13.1	< 10	2
691172	24	< 5	< 5	< 0.2	< 0.5	90	694	2	37	< 2	40	2.13	3	< 10	235	< 0.5	< 2	1.39	24	35	13.2	< 10	< 1
691173	153	< 5	< 5	< 0.2	< 0.5	269	821	< 1	62	2	45	2.25	< 2	< 10	37	< 0.5	< 2	2.33	52	43	12.9	< 10	< 1
691174	39	< 5	< 5	< 0.2	< 0.5	139	925	< 1	21	< 2	34	2.16	< 2	< 10	144	< 0.5	< 2	4.12	34	32	9.80	< 10	< 1
691175	64	< 5	< 5	< 0.2	< 0.5	244	572	< 1	26	< 2	33	2.12	< 2	< 10	41	< 0.5	< 2	1.61	40	38	11.7	10	< 1
691176	13	< 5	< 5	< 0.2	< 0.5	207	558	< 1	20	< 2	33	2.27	4	< 10	48	< 0.5	< 2	1.13	44	40	10.2	10	1
691177	798	< 5	< 5	< 0.2	< 0.5	187	1060	< 1	29	< 2	50	3.18	< 2	< 10	61	< 0.5	< 2	1.71	37	62	9.47	10	< 1
691178	10	11	9	< 0.2	< 0.5	62	1330	< 1	430	< 2	48	3.40	< 2	< 10	11	< 0.5	< 2	4.09	43	1150	5.62	< 10	< 1
691179	5	12	9	< 0.2	< 0.5	44	1060	< 1	438	< 2	37	3.41	< 2	< 10	< 10	< 0.5	< 2	4.12	43	1210	5.59	< 10	< 1
691180	5	6	6	< 0.2	< 0.5	26	1190	< 1	406	2	35	3.29	3	< 10	24	< 0.5	< 2	4.33	39	1000	5.12	< 10	< 1
691181	9	9	11	< 0.2	< 0.5	68	1140	< 1	275	< 2	29	2.83	< 2	< 10	146	< 0.5	< 2	3.53	46	928	5.61	< 10	< 1
691182	13	8	6	< 0.2	< 0.5	127	883	< 1	285	< 2	9	1.11	12	< 10	< 10	< 0.5	< 2	4.00	58	1490	4.27	< 10	< 1
691183	5	6	6	< 0.2	< 0.5	39	708	< 1	257	< 2	16	1.56	9	< 10	57	< 0.5	< 2	2.98	35	1150	3.22	< 10	< 1
691184	6	< 5	< 5	< 0.2	< 0.5	27	186	16	12	< 2	19	1.46	4	< 10	281	< 0.5	< 2	0.93	6	15	0.93	< 10	< 1
691185	< 2	< 5	< 5	< 0.2	< 0.5	5	234	< 1	6	2	31	1.84	< 2	< 10	240	< 0.5	< 2	0.74	4	12	1.17	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691186	< 2	< 5	< 5	< 0.2	< 0.5	4	254	< 1	6	< 2	27	1.50	< 2	< 10	182	< 0.5	< 2	0.68	5	12	1.29	< 10	< 1
691187	7	8	8	< 0.2	< 0.5	37	850	< 1	321	< 2	8	0.94	5	< 10	16	< 0.5	< 2	3.13	40	722	3.36	< 10	< 1
691188	6	9	7	< 0.2	< 0.5	28	897	< 1	320	< 2	11	0.83	< 2	< 10	< 10	< 0.5	2	0.72	34	664	3.88	< 10	< 1
691189	6	9	9	< 0.2	< 0.5	28	896	< 1	337	< 2	11	0.88	< 2	< 10	< 10	< 0.5	< 2	0.73	36	710	3.93	< 10	< 1
691190	1060	15	13	0.3	< 0.5	149	664	< 1	70	3	59	3.37	9	47	20	< 0.5	< 2	2.96	30	117	5.63	10	< 1
691191	29	12	8	< 0.2	< 0.5	58	853	< 1	435	< 2	9	0.67	2	< 10	29	< 0.5	< 2	0.93	43	1120	4.24	< 10	< 1
691192	59	7	< 5	< 0.2	< 0.5	39	835	< 1	332	< 2	9	0.66	< 2	< 10	< 10	< 0.5	2	0.76	32	1130	4.05	< 10	< 1
691193	35	18	7	< 0.2	< 0.5	67	748	< 1	635	< 2	11	0.74	< 2	< 10	< 10	< 0.5	2	0.78	39	901	4.16	< 10	< 1
691194	30	< 5	< 5	< 0.2	< 0.5	35	875	< 1	380	< 2	13	0.77	< 2	< 10	< 10	< 0.5	2	1.85	33	940	4.03	< 10	< 1
691195	7	7	9	< 0.2	< 0.5	35	828	< 1	403	< 2	14	0.86	3	< 10	< 10	< 0.5	2	1.77	45	958	4.08	< 10	< 1
691196	9	18	7	< 0.2	< 0.5	30	835	< 1	444	< 2	11	0.89	< 2	< 10	40	< 0.5	< 2	1.41	37	735	4.10	< 10	< 1
691197	9	10	9	< 0.2	< 0.5	17	1000	< 1	424	< 2	8	0.99	6	< 10	68	< 0.5	2	3.91	37	494	3.99	< 10	< 1
691198	107	21	12	0.2	< 0.5	103	1110	6	483	2	16	1.83	7	< 10	10	< 0.5	< 2	4.45	56	1190	4.57	< 10	< 1
691199	28	6	9	< 0.2	< 0.5	78	631	< 1	336	< 2	34	3.03	< 2	< 10	14	< 0.5	< 2	0.77	52	1120	5.60	< 10	< 1
691200	44	< 5	< 5	< 0.2	< 0.5	173	804	1	25	< 2	42	3.47	2	< 10	< 10	< 0.5	< 2	1.08	32	34	8.19	10	1
691201	63	< 5	< 5	< 0.2	< 0.5	176	531	1	21	< 2	30	2.82	4	< 10	11	< 0.5	< 2	1.21	31	24	6.47	< 10	< 1
691202	80	< 5	< 5	< 0.2	< 0.5	209	793	2	24	< 2	29	2.99	< 2	< 10	< 10	< 0.5	< 2	2.43	32	23	6.94	< 10	< 1
691203	65	< 5	< 5	< 0.2	< 0.5	125	669	1	19	< 2	52	2.98	3	< 10	< 10	< 0.5	< 2	1.45	34	30	7.48	10	1
691204	76	< 5	< 5	< 0.2	< 0.5	212	705	< 1	16	< 2	47	3.35	< 2	< 10	< 10	< 0.5	< 2	1.77	25	32	5.81	10	< 1
691205	52	< 5	< 5	< 0.2	< 0.5	96	477	1	20	< 2	22	2.48	2	< 10	< 10	< 0.5	< 2	1.60	28	20	5.46	< 10	< 1
691206	16	< 5	< 5	< 0.2	< 0.5	33	579	4	42	6	37	2.70	2	< 10	< 10	< 0.5	< 2	2.91	26	24	5.14	< 10	< 1
691207	24	< 5	< 5	< 0.2	< 0.5	63	389	< 1	18	3	34	2.14	4	< 10	< 10	< 0.5	< 2	1.18	33	19	6.88	< 10	< 1
691208	86	< 5	< 5	< 0.2	< 0.5	92	605	2	17	< 2	27	2.48	3	< 10	< 10	< 0.5	< 2	2.08	28	22	7.32	< 10	< 1
691209	64	< 5	< 5	< 0.2	< 0.5	148	525	< 1	20	< 2	34	2.59	2	< 10	21	< 0.5	< 2	2.05	26	47	6.89	< 10	< 1
691210	523	15	11	< 0.2	< 0.5	153	685	< 1	61	< 2	60	3.53	6	50	18	< 0.5	< 2	2.99	30	84	5.91	10	< 1
691211	71	< 5	< 5	< 0.2	< 0.5	205	498	< 1	24	< 2	28	2.20	3	< 10	11	< 0.5	< 2	2.25	43	65	6.08	< 10	< 1
691212	36	< 5	< 5	< 0.2	< 0.5	96	472	< 1	26	< 2	34	2.58	2	< 10	24	< 0.5	< 2	1.63	28	56	6.81	< 10	< 1
691213	40	< 5	< 5	< 0.2	< 0.5	125	512	< 1	22	< 2	35	2.48	< 2	< 10	25	< 0.5	< 2	1.98	30	51	6.16	< 10	< 1
691214	19	< 5	< 5	< 0.2	< 0.5	68	502	< 1	17	< 2	34	2.30	< 2	< 10	37	< 0.5	< 2	2.27	27	21	6.27	< 10	< 1
691215	30	< 5	< 5	< 0.2	< 0.5	109	458	< 1	17	< 2	40	2.49	2	< 10	44	< 0.5	< 2	1.63	28	25	7.26	10	< 1
691216	23	< 5	< 5	< 0.2	< 0.5	113	871	< 1	23	< 2	29	2.57	< 2	< 10	33	< 0.5	< 2	3.72	16	53	5.99	< 10	< 1
691217	15	< 5	< 5	< 0.2	< 0.5	46	594	< 1	21	< 2	32	1.64	< 2	< 10	293	< 0.5	< 2	2.73	13	59	6.53	< 10	< 1
691218	91	< 5	< 5	0.2	< 0.5	358	771	< 1	25	< 2	44	2.24	< 2	< 10	59	< 0.5	< 2	2.69	25	62	6.62	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691135	0.35	14	1.53	0.127	0.039	0.32	< 2	1	34	0.05	< 20	3	< 2	< 10	14	< 10	3	7
691136	0.27	14	1.38	0.061	0.040	0.04	< 2	< 1	19	0.01	< 20	< 1	< 2	< 10	8	< 10	3	4
691137	0.20	15	1.31	0.134	0.040	0.16	< 2	< 1	26	0.01	< 20	2	< 2	< 10	7	< 10	3	5
691138	0.16	14	1.32	0.102	0.039	0.04	< 2	< 1	21	< 0.01	< 20	< 1	< 2	< 10	7	< 10	3	4
691139	0.22	14	1.53	0.194	0.038	0.16	< 2	3	34	0.03	< 20	< 1	< 2	< 10	29	< 10	4	6
691140	0.55	< 10	3.44	0.146	0.028	1.80	< 2	19	39	0.07	< 20	< 1	< 2	< 10	151	< 10	7	6
691141	0.05	< 10	6.09	0.015	0.013	0.29	3	4	70	< 0.01	< 20	< 1	< 2	< 10	32	< 10	3	3
691142	0.15	< 10	4.63	0.056	0.015	0.37	2	10	42	0.03	< 20	4	< 2	< 10	79	< 10	4	4
691143	0.30	< 10	3.13	0.290	0.021	0.53	2	22	42	0.08	< 20	< 1	< 2	< 10	153	< 10	4	5
691144	0.14	< 10	5.26	0.039	0.010	0.75	4	7	95	0.03	< 20	< 1	< 2	< 10	44	< 10	2	4
691145	0.06	< 10	5.47	0.011	0.005	0.28	4	6	114	0.02	< 20	4	< 2	< 10	22	< 10	2	2
691146	0.29	< 10	5.38	0.016	0.006	0.17	6	8	140	0.04	< 20	< 1	< 2	< 10	31	< 10	2	2
691147	< 0.01	< 10	5.68	0.010	0.004	0.02	7	10	97	0.01	< 20	< 1	< 2	< 10	39	< 10	1	2
691148	< 0.01	< 10	4.75	0.009	0.003	0.22	6	10	94	< 0.01	< 20	2	< 2	< 10	46	< 10	1	1
691149	0.12	< 10	5.34	0.014	0.008	0.14	6	18	70	0.03	< 20	4	< 2	< 10	120	< 10	2	2
691150	0.05	< 10	1.97	0.080	0.036	0.20	2	7	28	0.42	< 20	3	< 2	< 10	167	< 10	12	16
691151	0.01	< 10	4.27	0.026	0.009	0.68	6	8	91	0.02	< 20	< 1	< 2	< 10	83	< 10	3	2
691152	0.02	< 10	4.48	0.031	0.013	0.25	7	8	73	0.02	< 20	< 1	< 2	< 10	97	< 10	3	2
691153	0.03	< 10	5.18	0.012	0.018	0.90	5	16	78	0.01	< 20	< 1	< 2	< 10	91	< 10	2	4
691154	0.47	23	1.31	0.046	0.093	1.00	< 2	3	19	0.05	< 20	3	< 2	< 10	30	< 10	5	4
691155	0.35	28	1.33	0.056	0.083	0.62	< 2	3	32	0.04	< 20	2	< 2	< 10	27	< 10	5	4
691156	0.41	16	1.30	0.161	0.047	< 0.01	< 2	1	74	0.05	< 20	3	< 2	< 10	18	< 10	4	4
691157	0.27	17	1.27	0.046	0.049	0.01	< 2	1	51	0.08	< 20	< 1	< 2	< 10	16	< 10	4	6
691158	0.41	17	1.48	0.024	0.049	0.02	< 2	1	44	0.08	< 20	1	< 2	< 10	16	< 10	4	3
691159	0.73	14	1.80	0.027	0.046	0.02	< 2	1	43	0.06	< 20	< 1	< 2	< 10	19	< 10	3	5
691160	0.13	< 10	4.46	0.015	0.030	0.43	5	7	88	0.02	< 20	2	< 2	< 10	49	< 10	2	4
691161	< 0.01	< 10	5.13	0.008	0.010	0.12	10	13	143	0.02	< 20	< 1	< 2	< 10	70	< 10	< 1	2
691162	1.33	< 10	0.06	3.03	0.001	< 0.01	< 2	< 1	13	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	4	1
691163	0.04	< 10	5.30	0.012	0.017	0.41	7	9	199	0.01	< 20	1	< 2	< 10	52	< 10	2	2
691164	0.59	< 10	2.73	0.066	0.030	0.59	2	18	53	0.07	< 20	< 1	< 2	< 10	148	< 10	7	7
691165	0.18	< 10	1.51	0.028	0.036	2.10	2	3	37	0.04	< 20	< 1	< 2	< 10	23	< 10	5	15
691166	0.80	14	1.26	0.051	0.060	0.17	< 2	3	27	0.10	< 20	2	< 2	< 10	30	< 10	6	2
691167	0.98	11	3.19	0.040	0.058	0.37	5	15	34	0.14	< 20	< 1	< 2	< 10	128	< 10	6	5
691168	0.56	< 10	3.80	0.037	0.050	0.23	5	11	96	0.09	< 20	< 1	< 2	< 10	95	< 10	4	6
691169	0.27	12	1.77	0.044	0.049	1.94	12	3	31	0.06	< 20	< 1	< 2	< 10	66	< 10	5	14
691170	0.04	< 10	1.88	0.081	0.037	0.14	< 2	7	27	0.43	< 20	7	< 2	< 10	173	< 10	12	14
691171	0.69	25	1.70	0.087	0.143	0.08	6	12	49	0.13	< 20	4	< 2	< 10	159	< 10	11	10
691172	0.69	25	1.70	0.089	0.143	0.08	7	12	48	0.13	< 20	< 1	< 2	< 10	160	< 10	11	8
691173	0.57	25	1.66	0.099	0.135	0.65	4	11	43	0.13	< 20	3	< 2	< 10	175	< 10	11	10
691174	0.62	25	1.69	0.086	0.152	0.27	3	10	109	0.14	< 20	< 1	< 2	< 10	163	< 10	12	8
691175	0.60	24	1.51	0.091	0.159	0.85	4	11	53	0.13	< 20	3	< 2	< 10	200	< 10	11	11
691176	0.73	29	1.65	0.093	0.181	0.71	2	13	46	0.14	< 20	< 1	< 2	< 10	207	< 10	12	10
691177	0.54	34	1.85	0.059	0.190	0.39	4	16	43	0.13	< 20	5	< 2	< 10	193	< 10	15	6
691178	0.02	< 10	6.20	0.009	0.026	0.07	7	12	297	0.03	< 20	1	< 2	< 10	108	< 10	2	2
691179	< 0.01	< 10	6.12	0.008	0.024	0.05	7	10	221	0.02	< 20	< 1	< 2	< 10	105	< 10	2	2
691180	0.04	< 10	6.10	0.012	0.026	0.07	5	13	188	0.02	< 20	< 1	< 2	< 10	93	< 10	3	4
691181	0.28	< 10	5.19	0.014	0.022	0.21	6	15	112	0.05	< 20	< 1	< 2	< 10	104	< 10	3	2
691182	< 0.01	< 10	4.23	0.010	0.008	0.45	7	7	147	< 0.01	< 20	2	< 2	< 10	49	< 10	1	1
691183	0.08	< 10	3.81	0.016	0.018	0.21	5	6	84	0.01	< 20	2	< 2	< 10	40	< 10	1	3
691184	0.45	19	0.96	0.069	0.042	0.16	< 2	< 1	29	0.04	< 20	4	< 2	< 10	6	< 10	2	4
691185	0.52	18	1.28	0.089	0.043	0.08	< 2	< 1	39	0.05	< 20	2	< 2	< 10	8	< 10	3	3

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691186	0.48	18	1.40	0.042	0.042	0.08	< 2	< 1	26	0.05	< 20	2	< 2	< 10	9	< 10	3	4
691187	< 0.01	< 10	5.70	0.011	0.011	0.31	5	5	76	< 0.01	< 20	1	< 2	< 10	26	< 10	< 1	1
691188	< 0.01	< 10	7.49	0.009	0.004	0.10	4	5	20	< 0.01	< 20	< 1	< 2	< 10	28	< 10	< 1	1
691189	< 0.01	< 10	7.79	0.009	0.004	0.10	4	6	21	< 0.01	< 20	1	< 2	< 10	30	< 10	< 1	1
691190	0.05	< 10	2.01	0.078	0.036	0.20	< 2	7	28	0.42	< 20	4	< 2	< 10	170	< 10	12	13
691191	< 0.01	< 10	7.75	0.008	0.003	0.15	7	5	53	< 0.01	< 20	< 1	< 2	< 10	29	< 10	< 1	1
691192	< 0.01	< 10	7.76	0.009	0.002	< 0.01	6	6	42	< 0.01	< 20	< 1	< 2	< 10	29	< 10	< 1	1
691193	< 0.01	< 10	8.54	0.009	0.004	0.05	5	6	38	< 0.01	< 20	3	< 2	< 10	32	< 10	< 1	1
691194	< 0.01	< 10	7.84	0.008	0.004	0.09	5	6	102	< 0.01	< 20	< 1	< 2	< 10	32	< 10	1	1
691195	< 0.01	< 10	7.53	0.009	0.003	0.22	5	6	61	< 0.01	< 20	< 1	< 2	< 10	38	< 10	< 1	1
691196	< 0.01	< 10	8.08	0.008	0.004	0.05	4	6	50	< 0.01	< 20	2	< 2	< 10	41	< 10	< 1	1
691197	< 0.01	< 10	6.78	0.009	0.017	0.08	3	7	70	< 0.01	< 20	< 1	< 2	< 10	36	< 10	1	1
691198	< 0.01	< 10	5.62	0.009	0.007	0.95	6	11	172	< 0.01	< 20	< 1	< 2	< 10	64	< 10	1	1
691199	0.24	17	4.24	0.031	0.103	1.71	6	11	38	0.06	< 20	< 1	< 2	< 10	136	< 10	7	3
691200	1.76	27	2.41	0.143	0.214	2.98	4	9	184	0.26	< 20	< 1	< 2	< 10	183	< 10	13	21
691201	1.31	29	1.82	0.138	0.200	2.09	< 2	10	305	0.23	< 20	2	< 2	< 10	182	< 10	14	11
691202	1.08	21	2.18	0.140	0.170	3.14	3	8	212	0.18	< 20	3	< 2	< 10	154	< 10	12	6
691203	1.26	23	1.66	0.201	0.190	3.66	2	11	145	0.21	< 20	2	< 2	< 10	185	< 10	14	9
691204	1.33	32	1.90	0.187	0.260	2.70	< 2	12	213	0.23	< 20	< 1	< 2	< 10	194	< 10	16	10
691205	0.92	35	1.36	0.192	0.227	3.06	< 2	7	172	0.14	< 20	4	< 2	< 10	112	< 10	14	5
691206	1.09	26	1.82	0.152	0.266	2.64	2	10	191	0.14	< 20	3	< 2	< 10	161	< 10	16	5
691207	1.25	29	1.50	0.076	0.254	3.60	3	13	69	0.20	< 20	< 1	< 2	< 10	181	< 10	17	10
691208	1.36	26	1.64	0.092	0.206	3.95	2	10	111	0.19	< 20	2	< 2	< 10	154	< 10	14	9
691209	1.42	27	1.82	0.089	0.189	1.16	3	11	127	0.22	< 20	2	< 2	< 10	186	< 10	12	8
691210	0.04	< 10	1.93	0.084	0.038	0.14	< 2	7	28	0.44	< 20	6	< 2	< 10	181	< 10	13	16
691211	0.92	24	1.49	0.074	0.193	2.43	2	9	156	0.18	< 20	1	< 2	< 10	158	< 10	8	7
691212	1.00	28	1.83	0.106	0.201	0.93	3	10	178	0.22	< 20	3	< 2	< 10	174	< 10	9	7
691213	1.16	27	1.67	0.083	0.212	0.93	2	10	180	0.22	< 20	4	< 2	< 10	173	< 10	9	7
691214	1.15	31	1.61	0.088	0.231	0.61	3	10	164	0.21	< 20	< 1	< 2	< 10	180	< 10	10	6
691215	1.38	32	1.68	0.080	0.230	0.39	< 2	11	169	0.21	< 20	2	< 2	< 10	198	< 10	11	6
691216	1.48	28	1.78	0.061	0.198	0.56	3	11	92	0.23	< 20	< 1	< 2	< 10	177	< 10	9	6
691217	0.67	31	1.22	0.101	0.207	0.02	2	10	190	0.21	< 20	3	< 2	< 10	176	< 10	8	5
691218	1.35	30	1.58	0.084	0.190	0.41	3	12	165	0.28	< 20	4	< 2	< 10	184	< 10	9	5

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45d (Aqua Regia) Meas						335	399		188	13	34	5.50	6		79		< 2	0.09	29	459	13.2	20	
OREAS 45d (Aqua Regia) Cert						345.0	400.000		176.0	17.00	30.6	4.860	6.50		80		0.30	0.09	26.2	467	13.650	17.9	
OREAS 922 (AQUA REGIA) Meas				0.7	< 0.5	2310	750	< 1	34	67	258	2.79	8		76	0.7	8	0.41	20	45	5.09	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2220	747	< 1	34	60	256	2.79	6		79	0.7	7	0.40	20	46	5.08	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4480	828	< 1	32	77	325	2.74	8		55	0.7	15	0.40	22	42	5.71	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.6	0.6	4420	865	< 1	31	81	335	2.86	8		65	0.6	14	0.40	23	41	5.98	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia) Meas				1.2	0.7	6400	325	5	7	34	142	1.18	37		237	1.0	20	0.28	46	11	7.84	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4400	1890	1180																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4820	1850	1170																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				67.0	285	3640	507	13	24	> 5000	> 10000	1.66	78			0.6	5	1.63	29	32	3.29	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1890	1660	249																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1970	1620	230																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1930	1700	228																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 45f (Aqua Regia) Meas						339	172	< 1	214	9	26	7.19			150	1.0	< 2	0.07	42	344	13.4	20	2

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.3	< 0.5	93	514	< 1	75	35	130	1.82	32		181	1.4	< 2	1.11	33	58	3.75	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
OREAS 130 (Aqua Regia) Meas				5.9	29.0	230	1530	7	32	1240	> 10000	1.17	209				3	1.67	27	25	6.71	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
OREAS 130 (Aqua Regia) Meas				5.8	28.8	220	1510	7	32	1240	> 10000	1.15	196				3	1.62	26	23	6.75	< 10	1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
Oreas 623 (Aqua Regia) Meas				17.8	50.5	> 10000	522	7	15	2200	8850	1.69	74			< 0.5	5	0.93	190	17	11.8	10	2
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
691140 Orig				< 0.2	< 0.5	11	1060	< 1	71	< 2	47	3.45	7	< 10	21	< 0.5	< 2	4.71	31	23	6.14	< 10	< 1
691140 Dup				< 0.2	< 0.5	11	1080	< 1	70	< 2	48	3.49	8	< 10	23	< 0.5	< 2	4.51	31	22	6.32	< 10	< 1
691144 Orig	162	8	10																				
691144 Dup	100	9	14																				
691154 Orig	10	< 5	< 5																				
691154 Dup	9	< 5	< 5																				
691158 Orig				< 0.2	< 0.5	22	434	< 1	17	< 2	36	1.77	2	< 10	99	< 0.5	< 2	3.09	10	11	1.83	< 10	< 1
691158 Dup				< 0.2	< 0.5	22	437	< 1	17	2	38	1.81	2	< 10	100	< 0.5	< 2	3.05	9	11	1.86	< 10	< 1
691164 Orig	104	< 5	< 5																				
691164 Dup	111	< 5	< 5																				
691175 Orig				< 0.2	< 0.5	233	571	< 1	25	< 2	32	2.12	3	< 10	48	< 0.5	< 2	1.56	39	37	11.5	10	2
691175 Dup				< 0.2	< 0.5	256	573	< 1	28	< 2	33	2.12	< 2	< 10	35	< 0.5	< 2	1.65	40	39	11.9	10	< 1
691179 Orig	7	12	11																				
691179 Dup	4	11	8																				
691184 Orig	6	< 5	< 5	< 0.2	< 0.5	27	186	16	12	< 2	19	1.46	4	< 10	281	< 0.5	< 2	0.93	6	15	0.93	< 10	< 1
691184 Split PREP DUP	6	< 5	< 5	< 0.2	< 0.5	27	192	16	11	2	20	1.50	5	< 10	290	< 0.5	< 2	0.95	6	15	0.97	< 10	< 1
691188 Orig	6	9	7																				
691188 Dup	7	9	7																				
691194 Orig				< 0.2	< 0.5	37	884	< 1	380	< 2	13	0.77	< 2	< 10	< 10	< 0.5	2	1.86	33	947	4.10	< 10	< 1
691194 Dup				< 0.2	< 0.5	33	867	< 1	380	2	13	0.78	< 2	< 10	< 10	< 0.5	2	1.84	33	933	3.97	< 10	< 1
691198 Orig	125	20	12																				
691198 Dup	89	21	11																				
691207 Orig				< 0.2	< 0.5	64	390	< 1	18	3	34	2.14	5	< 10	< 10	< 0.5	< 2	1.18	33	19	6.86	< 10	< 1
691207 Dup				< 0.2	< 0.5	63	389	< 1	19	3	34	2.14	2	< 10	< 10	< 0.5	< 2	1.19	33	19	6.90	< 10	< 1
691213 Orig	39	< 5	< 5																				
691213 Dup	42	< 5	< 5																				
691218 Orig				0.2	< 0.5	362	768	< 1	25	< 2	44	2.24	< 2	< 10	68	< 0.5	< 2	2.69	25	62	6.59	< 10	< 1
691218 Dup				0.2	< 0.5	354	774	< 1	24	< 2	44	2.24	3	< 10	50	< 0.5	< 2	2.69	26	63	6.64	< 10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45d (Aqua Regia) Meas	0.11	11	0.15	0.038	0.032	0.04		40	12		< 20			< 10	190		4	
OREAS 45d (Aqua Regia) Cert	0.097	9.960	0.144	0.031	0.035	0.045		41.50	11.0		11.3			1.64	201.0		5.08	
OREAS 922 (AQUA REGIA) Meas	0.44	36	1.34	0.025	0.064	0.39	2	4	17		< 20		< 2	< 10	35	< 10	19	8
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.45	36	1.32	0.025	0.063	0.38	2	3	16		< 20		< 2	< 10	35	< 10	19	3
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.37	32	1.41		0.059	0.69	2	3	14		< 20		< 2	< 10	34	< 10	17	4
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.37	34	1.40		0.058	0.72	3	3	14		< 20		< 2	< 10	34	< 10	17	4
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.35	36	0.22	0.096	0.022	0.06	5	2	13	0.02	< 20	4	< 2	< 10	5	< 10	7	9
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.34	18	0.42	0.184	0.032	4.40	80	2	18		< 20		< 2	< 10	12	< 10	7	39
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.10	12	0.17	0.041	0.020	0.02		29	15	0.12	< 20		< 2	< 10	202		6	17

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.37		0.62	0.091	0.043	0.12	7	4	19		< 20	< 1	< 2	< 10	28		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
OREAS 130 (Aqua Regia) Meas	0.53	22	0.88		0.083	6.00	7	3	20	0.03	< 20	< 1	3	< 10	37	10	12	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
OREAS 130 (Aqua Regia) Meas	0.50	22	0.85		0.081	6.01	5	3	18	0.03	< 20	< 1	3	< 10	36	12	11	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
Oreas 623 (Aqua Regia) Meas	0.16	16	0.95	0.078	0.040	8.46	19	4	13		< 20	3	< 2	< 10	16	< 10	7	58
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
691140 Orig	0.55	< 10	3.48	0.146	0.028	1.78	< 2	20	40	0.07	< 20	< 1	< 2	< 10	152	< 10	7	6
691140 Dup	0.54	< 10	3.39	0.146	0.028	1.82	2	19	39	0.07	< 20	< 1	< 2	< 10	151	< 10	7	6
691144 Orig																		
691144 Dup																		
691154 Orig																		
691154 Dup																		
691158 Orig	0.41	17	1.49	0.024	0.050	0.02	< 2	1	44	0.08	< 20	2	< 2	< 10	16	< 10	4	3
691158 Dup	0.41	17	1.47	0.023	0.048	0.02	< 2	1	44	0.08	< 20	1	< 2	< 10	16	< 10	4	3
691164 Orig																		
691164 Dup																		
691175 Orig	0.58	24	1.46	0.090	0.154	0.83	4	11	52	0.13	< 20	1	< 2	< 10	193	< 10	11	12
691175 Dup	0.62	24	1.55	0.091	0.165	0.87	5	12	53	0.12	< 20	5	< 2	< 10	207	< 10	11	11
691179 Orig																		
691179 Dup																		
691184 Orig	0.45	19	0.96	0.069	0.042	0.16	< 2	< 1	29	0.04	< 20	4	< 2	< 10	6	< 10	2	4
691184 Split PREP DUP	0.46	21	0.99	0.073	0.043	0.16	< 2	< 1	30	0.04	< 20	1	< 2	< 10	6	< 10	3	4
691188 Orig																		
691188 Dup																		
691194 Orig	< 0.01	< 10	7.87	0.008	0.004	0.09	4	6	103	< 0.01	< 20	< 1	< 2	< 10	33	< 10	1	1
691194 Dup	< 0.01	< 10	7.81	0.008	0.004	0.08	5	6	101	< 0.01	< 20	< 1	< 2	< 10	32	< 10	1	1
691198 Orig																		
691198 Dup																		
691207 Orig	1.24	29	1.50	0.074	0.252	3.56	3	13	69	0.20	< 20	4	< 2	< 10	181	< 10	17	10
691207 Dup	1.25	29	1.50	0.077	0.255	3.65	3	13	70	0.20	< 20	< 1	< 2	< 10	180	< 10	17	10
691213 Orig																		
691213 Dup																		
691218 Orig	1.35	30	1.59	0.083	0.187	0.41	2	12	165	0.28	< 20	2	< 2	< 10	183	< 10	9	5
691218 Dup	1.35	30	1.58	0.084	0.193	0.41	3	12	165	0.29	< 20	5	< 2	< 10	184	< 10	9	6
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-13820**
Report Date: **22-Feb-21**
Date Submitted: **31-Oct-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

130 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2021-01-04 16:14:34

REPORT **A20-13820**

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:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Report No.: **A20-13820**
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130 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-24 12:59:39

REPORT **A20-13820**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691219	< 2	< 5	< 5	< 0.2	< 0.5	< 1	84	< 1	< 1	< 2	12	2.84	4	< 10	< 10	< 0.5	< 2	0.13	< 1	2	0.51	< 10	< 1
691220	33	< 5	< 5	< 0.2	< 0.5	138	1010	< 1	27	< 2	54	2.57	3	< 10	72	< 0.5	< 2	2.53	27	65	6.34	< 10	< 1
691221	25	< 5	< 5	< 0.2	< 0.5	124	1020	< 1	25	< 2	46	2.52	< 2	< 10	94	< 0.5	< 2	2.69	24	63	6.94	< 10	< 1
691222	20	< 5	7	< 0.2	< 0.5	78	1080	< 1	32	< 2	53	2.46	5	< 10	40	< 0.5	< 2	3.41	38	54	7.22	< 10	< 1
691223	< 2	< 5	< 5	< 0.2	< 0.5	115	847	< 1	29	< 2	52	2.61	< 2	< 10	58	< 0.5	< 2	2.14	32	54	6.48	< 10	< 1
691224	17	< 5	< 5	< 0.2	< 0.5	86	825	< 1	28	< 2	55	2.85	3	< 10	57	< 0.5	< 2	1.92	32	53	6.60	< 10	< 1
691225	7	< 5	< 5	< 0.2	< 0.5	109	924	< 1	28	< 2	55	2.87	< 2	< 10	44	< 0.5	< 2	2.21	35	51	7.16	< 10	< 1
691226	20	< 5	< 5	< 0.2	< 0.5	80	941	< 1	27	< 2	58	2.71	4	< 10	54	< 0.5	< 2	2.17	29	52	7.19	< 10	< 1
691227	25	< 5	< 5	0.2	< 0.5	125	855	< 1	29	< 2	59	2.87	2	< 10	136	< 0.5	< 2	2.07	34	53	6.92	< 10	< 1
691228	15	< 5	< 5	< 0.2	< 0.5	65	816	< 1	42	< 2	71	2.55	< 2	< 10	86	< 0.5	< 2	2.65	31	98	7.23	< 10	< 1
691229	12	< 5	< 5	< 0.2	< 0.5	73	670	< 1	57	< 2	68	2.31	< 2	< 10	603	< 0.5	< 2	2.55	25	174	5.42	< 10	< 1
691230	1120	14	10	0.3	< 0.5	142	667	< 1	70	3	58	3.33	10	44	24	< 0.5	< 2	2.89	28	109	5.53	10	< 1
691231	26	< 5	< 5	< 0.2	< 0.5	108	720	< 1	59	< 2	74	2.34	< 2	< 10	325	< 0.5	< 2	2.78	31	135	5.90	< 10	< 1
691232	20	< 5	< 5	< 0.2	< 0.5	75	685	< 1	58	< 2	73	2.35	2	< 10	177	< 0.5	< 2	2.15	30	129	5.13	< 10	< 1
691233	14	< 5	< 5	< 0.2	< 0.5	70	724	1	55	< 2	67	2.34	2	< 10	257	< 0.5	< 2	2.37	28	113	5.03	< 10	< 1
691234	28	< 5	< 5	< 0.2	< 0.5	77	699	< 1	53	< 2	74	2.43	< 2	< 10	589	< 0.5	< 2	1.91	27	121	5.12	< 10	< 1
691235	11	< 5	< 5	< 0.2	< 0.5	61	696	< 1	41	< 2	74	2.48	< 2	< 10	732	< 0.5	< 2	1.87	26	78	5.32	< 10	< 1
691236	14	< 5	< 5	< 0.2	< 0.5	75	767	< 1	54	< 2	75	2.63	3	< 10	697	< 0.5	< 2	2.68	28	109	5.10	< 10	< 1
691237	15	< 5	< 5	< 0.2	< 0.5	101	730	< 1	53	< 2	77	2.49	< 2	< 10	632	< 0.5	< 2	2.37	27	106	4.94	< 10	< 1
691238	239	< 5	< 5	0.3	< 0.5	223	716	< 1	47	< 2	71	2.37	3	< 10	401	< 0.5	< 2	2.47	32	93	5.08	< 10	< 1
691239	25	< 5	< 5	< 0.2	< 0.5	88	739	< 1	43	< 2	75	2.48	< 2	< 10	740	< 0.5	< 2	2.28	24	86	5.07	< 10	< 1
691240	10	< 5	< 5	< 0.2	< 0.5	77	735	< 1	34	< 2	79	2.40	3	< 10	625	< 0.5	< 2	2.16	26	62	4.78	< 10	< 1
691241	22	< 5	< 5	< 0.2	< 0.5	99	755	< 1	41	< 2	87	2.55	3	< 10	547	< 0.5	< 2	2.43	31	86	5.08	< 10	< 1
691242	200	< 5	< 5	< 0.2	< 0.5	120	861	< 1	35	< 2	75	2.30	3	< 10	102	< 0.5	< 2	3.96	28	67	6.04	< 10	< 1
691243	384	< 5	< 5	< 0.2	< 0.5	58	629	1	15	< 2	28	1.13	< 2	< 10	38	< 0.5	< 2	3.47	10	63	2.72	< 10	< 1
691244	1050	< 5	< 5	< 0.2	< 0.5	221	586	3	33	< 2	43	2.04	< 2	< 10	86	< 0.5	< 2	3.36	27	74	5.02	< 10	< 1
691245	26	< 5	< 5	< 0.2	< 0.5	100	552	< 1	23	< 2	49	2.39	< 2	< 10	156	< 0.5	< 2	2.46	31	51	4.88	< 10	< 1
691246	14	< 5	< 5	< 0.2	< 0.5	100	660	< 1	27	< 2	63	2.34	2	< 10	319	< 0.5	< 2	2.85	28	55	5.23	< 10	< 1
691247	8	< 5	< 5	< 0.2	< 0.5	72	648	2	24	< 2	68	2.39	< 2	< 10	267	< 0.5	< 2	2.49	26	55	4.96	< 10	< 1
691248	10	< 5	< 5	< 0.2	< 0.5	133	668	1	22	< 2	65	2.28	< 2	< 10	58	< 0.5	< 2	2.87	26	47	4.65	< 10	< 1
691249	6	< 5	6	< 0.2	< 0.5	80	623	< 1	21	< 2	76	2.34	< 2	< 10	337	< 0.5	< 2	2.42	26	44	4.59	< 10	< 1
691250	557	16	13	< 0.2	< 0.5	149	690	< 1	63	< 2	61	3.39	5	52	19	< 0.5	< 2	3.22	30	83	5.96	10	< 1
691251	20	< 5	< 5	< 0.2	< 0.5	165	630	< 1	23	< 2	80	2.40	5	< 10	263	< 0.5	< 2	2.65	31	44	4.64	< 10	< 1
691252	6	< 5	< 5	< 0.2	< 0.5	91	648	< 1	21	< 2	87	2.59	4	< 10	343	< 0.5	< 2	2.64	28	36	4.81	< 10	< 1
691253	4	< 5	< 5	< 0.2	< 0.5	79	681	1	21	< 2	95	2.76	< 2	< 10	439	< 0.5	< 2	2.37	27	41	5.07	< 10	< 1
691254	9	< 5	< 5	< 0.2	< 0.5	146	539	2	29	< 2	79	2.23	3	< 10	27	< 0.5	< 2	1.65	46	60	5.32	< 10	< 1
691255	4	< 5	< 5	< 0.2	< 0.5	87	782	< 1	27	< 2	92	2.74	< 2	< 10	111	< 0.5	< 2	2.32	31	56	5.82	< 10	< 1
691256	11	< 5	< 5	< 0.2	< 0.5	140	756	< 1	29	< 2	97	2.68	< 2	< 10	64	< 0.5	< 2	2.18	33	65	5.71	< 10	< 1
691257	13	< 5	< 5	< 0.2	< 0.5	101	862	< 1	30	< 2	91	2.62	4	< 10	85	< 0.5	< 2	2.54	31	59	5.69	< 10	< 1
691258	13	< 5	< 5	< 0.2	< 0.5	63	810	< 1	25	< 2	86	2.61	2	< 10	255	< 0.5	< 2	2.61	23	57	5.23	< 10	< 1
691259	11	< 5	< 5	< 0.2	< 0.5	64	959	< 1	30	< 2	97	2.71	4	< 10	268	< 0.5	< 2	2.88	28	60	5.70	< 10	< 1
691260	18	< 5	< 5	< 0.2	< 0.5	86	943	< 1	28	< 2	87	2.76	< 2	< 10	322	< 0.5	< 2	3.12	35	62	5.62	< 10	< 1
691261	10	< 5	< 5	< 0.2	< 0.5	70	835	2	33	< 2	95	2.83	3	< 10	98	< 0.5	< 2	2.49	30	71	5.30	< 10	< 1
691262	11	< 5	< 5	< 0.2	< 0.5	84	936	< 1	30	< 2	90	2.87	3	< 10	78	< 0.5	< 2	3.02	26	63	5.36	< 10	< 1
691263	27	< 5	< 5	< 0.2	< 0.5	153	956	< 1	32	< 2	75	2.58	2	< 10	49	< 0.5	< 2	3.74	60	58	5.68	< 10	< 1
691264	12	< 5	< 5	< 0.2	< 0.5	91	738	2	148	4	75	2.71	< 2	< 10	424	< 0.5	< 2	1.33	201	47	5.29	< 10	< 1
691265	18	< 5	< 5	< 0.2	< 0.5	85	651	< 1	36	< 2	79	2.94	< 2	< 10	625	< 0.5	< 2	1.76	39	63	6.18	10	< 1
691266	22	< 5	< 5	< 0.2	< 0.5	100	712	< 1	26	< 2	79	2.95	< 2	< 10	557	< 0.5	< 2	2.41	29	53	5.53	10	< 1
691267	10	< 5	< 5	< 0.2	< 0.5	72	799	< 1	25	< 2	90	3.02	4	< 10	656	< 0.5	< 2	2.53	31	50	5.48	< 10	< 1
691268	10	< 5	< 5	< 0.2	< 0.5	95	685	1	26	< 2	88	2.84	3	< 10	623	< 0.5	< 2	2.28	32	54	5.22	< 10	< 1
691269	12	< 5	< 5	< 0.2	< 0.5	75	684	< 1	24	< 2	86	2.69	< 2	< 10	562	< 0.5	< 2	2.39	26	56	5.05	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691270	1080	14	10	0.3	< 0.5	154	709	< 1	76	3	64	3.49	10	51	23	< 0.5	< 2	3.30	30	121	6.02	10	< 1
691271	19	< 5	< 5	< 0.2	< 0.5	83	803	< 1	31	< 2	76	2.69	< 2	< 10	559	< 0.5	< 2	3.04	24	68	5.16	< 10	< 1
691272	21	< 5	< 5	< 0.2	< 0.5	98	758	< 1	23	< 2	78	2.82	< 2	< 10	680	< 0.5	< 2	2.17	27	40	5.44	< 10	< 1
691273	25	< 5	< 5	< 0.2	< 0.5	106	813	< 1	21	< 2	66	2.76	< 2	< 10	129	< 0.5	< 2	2.20	31	42	5.62	< 10	< 1
691274	22	< 5	< 5	< 0.2	< 0.5	61	765	< 1	24	< 2	58	2.66	< 2	< 10	402	< 0.5	< 2	2.65	26	50	5.23	< 10	< 1
691275	69	< 5	< 5	< 0.2	< 0.5	94	726	< 1	22	< 2	56	2.80	< 2	< 10	644	< 0.5	< 2	2.84	24	48	5.33	< 10	< 1
691276	242	< 5	< 5	0.2	< 0.5	426	681	< 1	33	< 2	52	2.88	2	< 10	660	< 0.5	< 2	2.88	26	78	5.12	< 10	< 1
691277	86	< 5	< 5	< 0.2	< 0.5	107	623	< 1	32	< 2	38	2.47	2	< 10	516	< 0.5	< 2	2.89	23	81	4.74	< 10	< 1
691278	211	< 5	< 5	< 0.2	< 0.5	275	644	< 1	35	< 2	40	2.58	< 2	< 10	535	< 0.5	< 2	2.96	24	91	5.12	< 10	< 1
691279	62	< 5	< 5	0.3	< 0.5	92	784	< 1	40	< 2	47	2.51	< 2	< 10	555	< 0.5	< 2	3.06	26	123	5.46	< 10	< 1
691280	46	< 5	< 5	< 0.2	< 0.5	83	768	< 1	34	< 2	49	2.13	< 2	< 10	452	< 0.5	< 2	3.17	24	112	4.72	< 10	< 1
691281	30	< 5	< 5	< 0.2	< 0.5	93	668	1	31	< 2	64	2.42	2	< 10	365	< 0.5	< 2	2.21	34	63	5.81	< 10	< 1
691282	37	< 5	< 5	0.3	< 0.5	86	722	< 1	31	< 2	57	2.45	3	< 10	543	< 0.5	< 2	2.67	26	88	5.31	< 10	< 1
691283	124	< 5	< 5	0.3	< 0.5	248	765	1	28	< 2	62	2.57	3	< 10	677	< 0.5	< 2	2.92	32	69	5.67	< 10	< 1
691284	30	< 5	< 5	< 0.2	< 0.5	83	707	< 1	29	< 2	59	2.34	< 2	< 10	543	< 0.5	< 2	2.83	23	57	5.78	< 10	< 1
691285	94	< 5	< 5	< 0.2	< 0.5	33	659	< 1	24	< 2	64	2.47	< 2	< 10	637	< 0.5	< 2	2.68	22	45	6.05	< 10	< 1
691286	169	< 5	< 5	< 0.2	< 0.5	169	661	< 1	20	< 2	53	2.26	< 2	< 10	551	< 0.5	< 2	2.89	29	41	5.37	< 10	< 1
691287	34	< 5	< 5	< 0.2	< 0.5	77	640	< 1	20	< 2	51	2.42	< 2	< 10	622	< 0.5	< 2	3.07	21	41	5.39	< 10	< 1
691288	19	< 5	< 5	< 0.2	< 0.5	45	633	< 1	22	< 2	48	2.41	< 2	< 10	583	< 0.5	< 2	3.00	20	41	5.41	< 10	< 1
691289	45	< 5	< 5	< 0.2	< 0.5	73	618	< 1	21	< 2	53	2.62	< 2	< 10	580	< 0.5	< 2	2.62	23	47	4.58	< 10	< 1
691290	568	15	10	< 0.2	< 0.5	157	731	< 1	66	< 2	65	3.57	7	56	21	< 0.5	< 2	3.38	31	88	6.20	10	< 1
691291	19	< 5	< 5	< 0.2	< 0.5	39	582	< 1	25	< 2	45	2.48	< 2	< 10	468	< 0.5	< 2	2.68	20	60	4.65	< 10	< 1
691292	77	< 5	< 5	< 0.2	< 0.5	191	541	< 1	29	< 2	47	2.37	4	< 10	498	< 0.5	< 2	2.35	23	58	4.18	< 10	< 1
691293	44	< 5	< 5	< 0.2	< 0.5	91	552	< 1	29	< 2	53	2.55	< 2	< 10	553	< 0.5	< 2	2.26	22	57	4.57	< 10	< 1
691294	22	< 5	< 5	< 0.2	< 0.5	35	672	< 1	30	< 2	48	2.50	2	< 10	563	< 0.5	< 2	3.39	22	52	5.09	< 10	< 1
691295	20	< 5	< 5	< 0.2	< 0.5	56	532	< 1	32	< 2	50	2.52	3	< 10	62	< 0.5	< 2	2.35	24	55	5.39	< 10	< 1
691296	50	< 5	< 5	< 0.2	< 0.5	130	639	< 1	25	< 2	54	2.84	< 2	< 10	367	< 0.5	< 2	2.53	28	46	5.30	< 10	< 1
691297	55	< 5	< 5	< 0.2	< 0.5	59	631	< 1	22	< 2	52	2.73	3	< 10	611	< 0.5	< 2	2.15	22	48	5.07	< 10	< 1
691298	53	< 5	< 5	< 0.2	< 0.5	81	557	1	23	< 2	42	2.51	< 2	< 10	517	< 0.5	< 2	2.60	23	51	4.62	< 10	< 1
691299	30	< 5	< 5	< 0.2	< 0.5	47	567	< 1	23	< 2	51	2.46	4	< 10	370	< 0.5	< 2	2.07	24	51	4.70	< 10	< 1
691300	57	< 5	< 5	< 0.2	< 0.5	114	590	< 1	25	< 2	50	2.57	< 2	< 10	543	< 0.5	< 2	2.22	24	49	4.74	< 10	< 1
691301	208	< 5	< 5	< 0.2	< 0.5	101	615	< 1	25	< 2	46	2.34	8	< 10	60	< 0.5	< 2	3.02	21	51	4.58	< 10	< 1
691302	40	< 5	< 5	< 0.2	< 0.5	47	481	< 1	15	< 2	43	2.15	< 2	< 10	278	< 0.5	< 2	2.24	18	36	3.87	< 10	< 1
691303	76	< 5	< 5	< 0.2	< 0.5	112	466	1	17	< 2	45	2.76	3	< 10	121	< 0.5	< 2	2.57	30	25	4.00	< 10	< 1
691304	227	< 5	< 5	0.2	< 0.5	445	431	2	17	< 2	41	2.16	< 2	< 10	139	< 0.5	< 2	2.27	30	23	3.19	< 10	< 1
691305	60	< 5	< 5	< 0.2	< 0.5	91	381	2	21	< 2	31	2.07	7	< 10	< 10	< 0.5	< 2	0.88	39	17	5.41	< 10	< 1
691306	36	< 5	< 5	< 0.2	< 0.5	97	597	2	16	< 2	41	3.25	4	< 10	49	< 0.5	< 2	2.32	23	19	4.83	< 10	< 1
691307	28	< 5	< 5	< 0.2	< 0.5	98	533	< 1	16	< 2	40	2.77	< 2	< 10	51	< 0.5	< 2	2.55	24	18	4.85	< 10	< 1
691308	67	< 5	< 5	< 0.2	< 0.5	159	491	1	15	< 2	36	2.67	< 2	< 10	26	< 0.5	< 2	2.24	30	17	4.76	< 10	< 1
691309	181	< 5	< 5	0.3	< 0.5	199	666	2	20	< 2	49	3.02	10	< 10	17	< 0.5	< 2	2.80	39	27	5.62	< 10	< 1
691310	1060	14	14	0.3	< 0.5	148	687	< 1	72	2	62	3.37	10	48	22	< 0.5	< 2	3.16	30	118	5.82	10	< 1
691311	176	< 5	< 5	< 0.2	< 0.5	105	624	< 1	19	< 2	53	3.22	< 2	< 10	27	< 0.5	< 2	1.97	27	28	5.24	< 10	< 1
691312	104	< 5	< 5	< 0.2	< 0.5	101	722	1	21	< 2	55	3.17	< 2	< 10	22	< 0.5	< 2	2.29	28	40	5.25	< 10	< 1
691313	110	< 5	< 5	< 0.2	< 0.5	157	515	2	23	< 2	37	2.78	4	< 10	14	< 0.5	< 2	2.37	34	36	5.41	< 10	< 1
691314	113	< 5	< 5	0.2	< 0.5	137	520	2	22	< 2	39	2.77	3	< 10	15	< 0.5	< 2	2.30	33	36	5.26	< 10	< 1
691315	167	< 5	< 5	< 0.2	< 0.5	135	602	< 1	28	< 2	52	3.34	< 2	< 10	14	< 0.5	< 2	2.11	37	47	6.67	< 10	< 1
691316	81	< 5	< 5	< 0.2	< 0.5	105	597	1	57	< 2	199	2.92	4	< 10	24	< 0.5	< 2	1.68	32	100	5.86	< 10	< 1
691317	113	< 5	< 5	< 0.2	< 0.5	120	493	2	66	< 2	45	2.52	< 2	< 10	29	< 0.5	< 2	2.18	35	117	4.90	< 10	< 1
691318	39	< 5	< 5	< 0.2	< 0.5	73	635	< 1	63	< 2	47	2.84	3	< 10	54	< 0.5	< 2	1.69	30	152	4.90	< 10	< 1
691319	43	< 5	< 5	< 0.2	< 0.5	119	713	1	60	< 2	48	2.88	3	< 10	267	< 0.5	< 2	2.11	29	138	4.85	< 10	< 1
691320	61	< 5	< 5	< 0.2	< 0.5	106	773	4	30	< 2	37	2.49	3	< 10	35	< 0.5	< 2	3.95	28	75	5.68	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691321	2410	< 5	< 5	< 0.2	< 0.5	145	664	2	24	< 2	38	2.26	2	< 10	31	< 0.5	< 2	3.09	27	65	5.75	< 10	< 1
691322	41	< 5	< 5	< 0.2	< 0.5	71	637	3	26	< 2	40	2.28	2	< 10	40	< 0.5	< 2	2.62	27	63	5.19	< 10	< 1
691323	25	< 5	< 5	< 0.2	< 0.5	65	662	3	22	< 2	46	2.06	2	< 10	134	< 0.5	< 2	2.70	25	56	5.08	< 10	< 1
691324	176	< 5	< 5	< 0.2	< 0.5	115	652	1	22	< 2	48	2.45	< 2	< 10	262	< 0.5	< 2	2.46	25	57	5.17	< 10	< 1
691325	92	< 5	< 5	< 0.2	< 0.5	130	701	8	26	< 2	44	2.37	< 2	< 10	55	< 0.5	< 2	2.73	29	64	5.42	< 10	< 1
691326	74	< 5	< 5	< 0.2	< 0.5	102	702	4	24	< 2	46	2.35	< 2	< 10	128	< 0.5	< 2	2.56	27	64	5.42	< 10	< 1
691327	215	< 5	< 5	< 0.2	< 0.5	104	728	7	25	< 2	48	2.40	3	< 10	55	< 0.5	< 2	3.42	27	64	5.90	< 10	< 1
691328	328	< 5	< 5	< 0.2	< 0.5	104	614	4	24	< 2	45	2.48	< 2	< 10	531	< 0.5	< 2	2.46	26	60	5.51	< 10	< 1
691329	328	< 5	< 5	< 0.2	< 0.5	164	576	3	22	< 2	38	2.18	< 2	< 10	86	< 0.5	< 2	2.81	24	58	5.17	< 10	< 1
691330	573	15	13	< 0.2	< 0.5	156	688	< 1	62	< 2	60	3.39	7	56	19	< 0.5	< 2	3.22	30	86	6.12	10	< 1
691331	< 2	< 5	< 5	< 0.2	< 0.5	< 1	100	< 1	< 1	< 2	21	3.99	3	< 10	< 10	< 0.5	< 2	0.20	< 1	1	0.51	< 10	< 1
691332	323	< 5	< 5	< 0.2	< 0.5	88	505	2	22	< 2	38	2.08	< 2	< 10	282	< 0.5	< 2	2.12	22	48	4.60	< 10	< 1
691333	133	< 5	< 5	< 0.2	< 0.5	91	609	3	23	< 2	41	2.17	< 2	< 10	441	< 0.5	< 2	2.69	22	57	5.19	< 10	< 1
691334	131	< 5	< 5	< 0.2	< 0.5	93	574	4	23	< 2	53	2.36	< 2	< 10	537	< 0.5	< 2	1.73	25	56	5.18	< 10	< 1
691335	136	< 5	< 5	< 0.2	< 0.5	97	831	1	30	< 2	75	3.32	3	< 10	489	< 0.5	< 2	3.64	28	61	6.56	10	< 1
691336	556	< 5	< 5	< 0.2	< 0.5	182	655	6	30	< 2	59	2.35	2	< 10	66	< 0.5	< 2	2.97	30	61	5.96	< 10	< 1
691337	478	< 5	< 5	< 0.2	< 0.5	274	552	15	24	< 2	40	2.47	3	< 10	49	< 0.5	< 2	2.40	34	31	5.46	< 10	< 1
691338	330	< 5	< 5	< 0.2	< 0.5	250	628	42	20	< 2	48	2.99	< 2	< 10	190	< 0.5	< 2	2.82	24	44	5.15	< 10	< 1
691339	254	< 5	< 5	< 0.2	< 0.5	113	577	9	23	< 2	42	2.90	< 2	< 10	220	< 0.5	< 2	2.52	25	59	5.03	< 10	< 1
691340	549	< 5	< 5	< 0.2	< 0.5	224	444	7	24	< 2	38	1.81	< 2	< 10	34	< 0.5	< 2	2.37	25	49	4.73	< 10	< 1
691341	671	< 5	< 5	< 0.2	< 0.5	116	564	10	25	< 2	30	2.50	< 2	< 10	352	< 0.5	< 2	3.06	20	55	4.61	< 10	< 1
691342	277	< 5	< 5	< 0.2	< 0.5	115	639	5	401	< 2	46	1.30	< 2	< 10	191	< 0.5	< 2	1.89	40	164	5.21	< 10	< 1
691343	532	< 5	< 5	< 0.2	< 0.5	99	622	2	23	< 2	40	2.41	< 2	< 10	580	< 0.5	< 2	2.92	21	57	5.09	< 10	< 1
691344	453	< 5	< 5	< 0.2	< 0.5	70	546	4	25	< 2	40	2.40	3	< 10	514	< 0.5	< 2	2.47	21	55	4.76	< 10	< 1
691345	634	< 5	< 5	< 0.2	< 0.5	139	620	5	63	< 2	40	2.45	< 2	< 10	324	< 0.5	< 2	3.53	21	112	4.55	< 10	< 1
691346	900	< 5	< 5	< 0.2	< 0.5	135	517	8	58	< 2	32	2.17	3	< 10	96	< 0.5	< 2	3.04	20	101	3.90	< 10	< 1
691347	128	< 5	< 5	< 0.2	< 0.5	63	472	3	55	< 2	40	2.29	2	< 10	145	< 0.5	< 2	2.40	19	98	3.60	< 10	< 1
691348	935	< 5	< 5	0.6	< 0.5	95	488	3	58	< 2	50	2.32	< 2	< 10	430	< 0.5	< 2	1.88	21	111	3.75	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691219	1.04	< 10	0.02	2.11	< 0.001	< 0.01	< 2	< 1	8	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	2	< 1
691220	1.70	22	1.66	0.078	0.199	1.32	2	11	152	0.38	< 20	2	< 2	< 10	183	< 10	7	11
691221	1.38	25	1.54	0.075	0.201	0.85	4	9	202	0.36	< 20	2	< 2	< 10	170	< 10	7	12
691222	1.07	22	1.76	0.065	0.183	2.97	3	9	176	0.31	< 20	2	< 2	< 10	139	< 10	7	11
691223	1.30	25	1.79	0.063	0.199	1.61	3	9	233	0.36	< 20	3	< 2	< 10	154	< 10	7	11
691224	1.91	23	1.80	0.064	0.206	1.98	3	10	248	0.39	< 20	2	< 2	< 10	177	< 10	7	11
691225	1.93	23	1.67	0.056	0.190	2.10	3	9	209	0.39	< 20	3	< 2	< 10	165	< 10	8	12
691226	1.94	21	1.64	0.065	0.201	1.50	3	8	128	0.39	< 20	2	< 2	< 10	173	< 10	6	12
691227	2.03	27	2.05	0.070	0.205	0.47	2	8	167	0.38	< 20	2	< 2	< 10	177	< 10	7	13
691228	1.60	30	1.92	0.086	0.197	0.71	3	10	135	0.27	< 20	< 1	< 2	< 10	166	< 10	9	10
691229	1.18	40	1.81	0.137	0.202	0.23	2	9	162	0.25	< 20	1	< 2	< 10	136	< 10	9	10
691230	0.05	< 10	1.95	0.081	0.036	0.18	3	7	28	0.40	< 20	4	< 2	< 10	164	< 10	12	18
691231	1.38	38	1.76	0.094	0.201	0.35	3	8	153	0.30	< 20	1	< 2	< 10	143	< 10	8	11
691232	1.20	36	1.71	0.127	0.209	0.49	3	8	172	0.34	< 20	3	< 2	< 10	122	< 10	8	12
691233	1.25	38	1.58	0.105	0.212	0.36	2	7	211	0.35	< 20	3	< 2	< 10	121	< 10	8	12
691234	1.36	34	1.71	0.112	0.203	0.23	2	8	180	0.36	< 20	2	< 2	< 10	123	< 10	8	12
691235	1.53	38	1.72	0.106	0.211	0.15	< 2	8	180	0.38	< 20	2	< 2	< 10	134	< 10	8	14
691236	1.49	36	1.80	0.105	0.204	0.18	< 2	8	204	0.37	< 20	2	< 2	< 10	129	< 10	8	13
691237	1.23	36	1.67	0.116	0.209	0.07	< 2	9	219	0.34	< 20	2	< 2	< 10	122	< 10	8	11
691238	1.33	34	1.68	0.111	0.198	0.42	< 2	8	192	0.36	< 20	2	< 2	< 10	121	< 10	8	12
691239	1.44	35	1.72	0.112	0.203	0.12	< 2	8	238	0.38	< 20	2	< 2	< 10	131	< 10	8	12
691240	1.21	35	1.64	0.098	0.212	0.15	2	8	240	0.35	< 20	2	< 2	< 10	123	< 10	8	12
691241	1.20	37	1.83	0.122	0.215	0.19	2	9	250	0.35	< 20	5	< 2	< 10	127	< 10	9	11
691242	1.34	42	1.90	0.116	0.210	0.42	2	14	162	0.26	< 20	4	< 2	< 10	169	< 10	13	12
691243	0.56	16	0.89	0.045	0.070	0.74	< 2	5	135	0.08	< 20	< 1	< 2	< 10	56	< 10	6	10
691244	0.86	37	1.79	0.132	0.188	0.36	3	12	169	0.19	< 20	< 1	< 2	< 10	152	< 10	12	7
691245	0.87	29	1.79	0.176	0.180	0.47	2	9	196	0.25	< 20	< 1	< 2	< 10	126	< 10	10	10
691246	0.93	30	1.75	0.135	0.178	0.32	3	10	197	0.26	< 20	< 1	< 2	< 10	132	< 10	10	9
691247	1.11	31	1.93	0.171	0.178	0.29	< 2	10	174	0.28	< 20	2	< 2	< 10	128	< 10	10	9
691248	0.99	29	1.82	0.169	0.173	0.46	< 2	9	186	0.29	< 20	1	< 2	< 10	119	< 10	10	9
691249	0.96	31	1.88	0.196	0.184	0.29	3	9	191	0.27	< 20	3	< 2	< 10	116	< 10	10	9
691250	0.04	< 10	1.92	0.086	0.038	0.14	2	8	30	0.45	< 20	3	< 2	< 10	177	< 10	13	19
691251	0.91	34	1.69	0.173	0.198	0.31	3	9	209	0.26	< 20	7	< 2	< 10	117	< 10	10	9
691252	0.97	37	1.86	0.204	0.222	0.25	3	10	204	0.25	< 20	2	< 2	< 10	125	< 10	10	9
691253	1.09	34	1.91	0.197	0.202	0.33	2	10	193	0.25	< 20	2	< 2	< 10	130	< 10	11	9
691254	0.99	30	1.47	0.136	0.184	1.45	< 2	9	134	0.23	< 20	2	< 2	< 10	145	< 10	10	11
691255	1.24	29	1.79	0.185	0.175	0.56	< 2	10	173	0.27	< 20	< 1	< 2	< 10	136	< 10	9	9
691256	1.27	32	1.77	0.169	0.187	0.66	2	11	172	0.26	< 20	5	< 2	< 10	147	< 10	10	8
691257	1.21	31	1.72	0.170	0.181	0.59	2	11	188	0.28	< 20	6	< 2	< 10	139	< 10	9	10
691258	1.14	31	1.64	0.182	0.184	0.38	< 2	11	209	0.30	< 20	1	< 2	< 10	139	< 10	9	9
691259	1.28	32	1.76	0.139	0.184	0.30	2	11	232	0.37	< 20	4	< 2	< 10	143	< 10	9	9
691260	1.23	32	1.71	0.157	0.176	0.29	4	11	254	0.39	< 20	3	< 2	< 10	142	< 10	9	10
691261	1.39	31	1.70	0.117	0.187	0.48	2	11	204	0.39	< 20	4	< 2	< 10	143	< 10	10	10
691262	1.35	29	1.88	0.120	0.181	0.60	5	10	200	0.38	< 20	3	< 2	< 10	136	< 10	9	10
691263	0.93	28	1.71	0.150	0.166	1.20	2	11	239	0.33	< 20	< 1	< 2	< 10	132	< 10	9	12
691264	1.03	37	1.43	0.063	0.182	0.30	2	12	138	0.22	< 20	5	< 2	< 10	156	< 10	12	12
691265	0.88	38	1.93	0.104	0.201	0.09	3	14	178	0.23	< 20	2	< 2	< 10	180	< 10	12	8
691266	1.02	39	1.84	0.198	0.208	0.06	2	12	241	0.25	< 20	1	< 2	< 10	145	< 10	11	8
691267	1.10	38	1.89	0.202	0.204	0.08	3	11	259	0.27	< 20	3	< 2	< 10	142	< 10	10	8
691268	1.19	36	1.84	0.175	0.202	0.08	3	11	242	0.28	< 20	< 1	< 2	< 10	137	< 10	10	8
691269	1.07	37	1.92	0.211	0.198	0.02	< 2	12	186	0.24	< 20	1	< 2	< 10	137	< 10	11	7

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691270	0.06	< 10	2.07	0.087	0.038	0.20	3	8	31	0.45	< 20	5	< 2	< 10	178	< 10	13	20
691271	1.12	40	1.85	0.208	0.223	0.06	2	11	212	0.28	< 20	4	< 2	< 10	135	< 10	11	8
691272	1.54	32	1.83	0.151	0.197	0.07	3	9	188	0.31	< 20	4	< 2	< 10	133	< 10	9	8
691273	1.50	31	1.80	0.142	0.186	0.45	3	10	178	0.39	< 20	1	< 2	< 10	139	< 10	9	10
691274	1.30	23	1.89	0.150	0.169	0.27	< 2	10	201	0.38	< 20	3	< 2	< 10	132	< 10	8	10
691275	1.27	28	2.06	0.164	0.175	0.05	2	11	250	0.39	< 20	6	< 2	< 10	141	< 10	9	8
691276	1.34	35	2.27	0.183	0.213	0.09	2	10	241	0.36	< 20	< 1	< 2	< 10	123	< 10	9	7
691277	1.04	40	2.09	0.193	0.227	0.04	< 2	10	242	0.33	< 20	< 1	< 2	< 10	124	< 10	10	8
691278	1.15	42	2.09	0.195	0.236	0.07	2	11	188	0.34	< 20	4	< 2	< 10	130	< 10	10	7
691279	1.27	26	1.97	0.147	0.168	0.03	3	11	170	0.33	< 20	5	< 2	< 10	135	< 10	8	7
691280	0.90	20	1.67	0.153	0.133	0.03	< 2	10	159	0.30	< 20	1	< 2	< 10	116	< 10	7	6
691281	1.16	23	1.77	0.146	0.150	0.29	2	11	150	0.28	< 20	< 1	< 2	< 10	139	< 10	9	7
691282	1.07	25	1.80	0.170	0.160	0.10	3	11	175	0.34	< 20	< 1	< 2	< 10	138	< 10	8	8
691283	1.44	25	1.79	0.109	0.162	0.08	3	10	182	0.36	< 20	< 1	< 2	< 10	147	< 10	8	8
691284	1.17	29	1.49	0.107	0.179	0.02	< 2	10	221	0.35	< 20	4	< 2	< 10	144	< 10	8	8
691285	1.39	35	1.68	0.115	0.192	0.10	3	9	186	0.37	< 20	2	< 2	< 10	150	< 10	8	8
691286	1.27	36	1.50	0.092	0.186	0.17	3	9	189	0.37	< 20	2	< 2	< 10	144	< 10	8	10
691287	1.22	37	1.63	0.107	0.188	0.02	4	9	221	0.37	< 20	3	< 2	< 10	140	< 10	8	9
691288	1.08	41	1.59	0.101	0.200	< 0.01	2	9	239	0.36	< 20	< 1	< 2	< 10	139	< 10	8	9
691289	1.18	36	2.19	0.143	0.191	0.04	< 2	9	197	0.32	< 20	3	< 2	< 10	127	< 10	9	7
691290	0.04	< 10	2.00	0.092	0.039	0.15	5	8	32	0.47	< 20	6	< 2	< 10	184	< 10	13	19
691291	0.87	34	1.96	0.164	0.208	0.02	2	9	287	0.32	< 20	< 1	< 2	< 10	124	< 10	10	7
691292	1.11	41	1.98	0.162	0.238	0.06	< 2	8	195	0.23	< 20	< 1	< 2	< 10	112	< 10	10	4
691293	1.25	41	2.12	0.147	0.246	0.02	< 2	9	193	0.27	< 20	3	< 2	< 10	119	< 10	11	6
691294	1.12	44	1.88	0.120	0.260	0.01	2	9	261	0.29	< 20	3	< 2	< 10	121	< 10	9	5
691295	1.06	39	1.72	0.099	0.241	0.51	3	10	167	0.28	< 20	3	< 2	< 10	138	< 10	11	6
691296	1.17	31	2.12	0.092	0.188	0.20	2	9	246	0.34	< 20	< 1	< 2	< 10	141	< 10	9	5
691297	1.61	32	2.22	0.129	0.174	0.01	3	9	201	0.31	< 20	2	< 2	< 10	134	< 10	8	4
691298	1.17	32	1.91	0.126	0.183	0.04	< 2	9	251	0.37	< 20	4	< 2	< 10	130	< 10	9	7
691299	0.86	28	2.21	0.117	0.171	0.13	2	8	222	0.35	< 20	3	< 2	< 10	126	< 10	9	6
691300	1.16	31	2.26	0.144	0.184	0.06	2	9	204	0.33	< 20	4	< 2	< 10	129	< 10	10	7
691301	0.97	21	1.97	0.133	0.139	0.57	3	8	119	0.23	< 20	4	< 2	< 10	113	< 10	8	6
691302	0.66	18	1.64	0.138	0.112	0.04	< 2	8	109	0.20	< 20	3	< 2	< 10	104	< 10	7	5
691303	0.25	20	1.73	0.093	0.122	0.34	2	8	173	0.20	< 20	< 1	< 2	< 10	97	< 10	7	5
691304	0.44	24	1.54	0.105	0.134	0.42	< 2	10	135	0.21	< 20	2	< 2	< 10	122	< 10	9	9
691305	0.26	18	1.17	0.072	0.141	3.87	3	8	108	0.07	< 20	< 1	< 2	< 10	87	< 10	11	11
691306	0.16	20	2.02	0.122	0.135	0.80	2	8	180	0.16	< 20	< 1	< 2	< 10	102	< 10	8	6
691307	1.00	20	1.74	0.132	0.136	0.48	2	9	169	0.24	< 20	1	< 2	< 10	125	< 10	8	7
691308	0.87	18	1.81	0.110	0.136	1.33	3	7	156	0.22	< 20	3	< 2	< 10	116	< 10	7	7
691309	1.56	15	2.25	0.069	0.134	1.79	5	8	89	0.25	< 20	3	< 2	< 10	136	< 10	6	7
691310	0.05	< 10	2.00	0.083	0.037	0.20	2	8	30	0.42	< 20	2	< 2	< 10	171	< 10	12	18
691311	1.26	15	2.51	0.102	0.135	0.88	2	8	143	0.23	< 20	2	< 2	< 10	129	< 10	7	5
691312	1.21	17	2.43	0.101	0.138	1.43	3	8	140	0.24	< 20	< 1	< 2	< 10	124	< 10	7	7
691313	0.45	19	1.80	0.080	0.141	2.75	3	8	207	0.16	< 20	< 1	< 2	< 10	106	< 10	7	8
691314	0.48	18	1.86	0.092	0.140	2.68	3	8	203	0.17	< 20	1	< 2	< 10	107	< 10	7	8
691315	0.74	16	2.38	0.045	0.134	2.30	3	8	141	0.17	< 20	< 1	< 2	< 10	127	< 10	6	8
691316	0.70	23	2.01	0.074	0.170	1.57	2	9	172	0.18	< 20	4	< 2	< 10	122	< 10	8	8
691317	0.71	24	1.59	0.080	0.190	1.83	2	8	184	0.20	< 20	< 1	< 2	< 10	103	< 10	8	8
691318	1.08	31	2.91	0.124	0.193	0.70	< 2	8	131	0.21	< 20	2	< 2	< 10	106	< 10	9	6
691319	1.15	32	3.03	0.146	0.173	0.36	< 2	9	144	0.22	< 20	2	< 2	< 10	105	< 10	8	7
691320	1.63	21	2.21	0.124	0.134	1.17	5	11	96	0.26	< 20	< 1	< 2	< 10	165	< 10	8	12

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691321	1.15	22	1.91	0.099	0.139	1.13	3	12	145	0.22	< 20	3	< 2	< 10	163	< 10	8	10
691322	1.13	25	2.18	0.120	0.141	1.07	< 2	12	110	0.24	< 20	2	< 2	< 10	150	< 10	9	12
691323	1.00	25	2.03	0.119	0.136	0.53	2	11	157	0.19	< 20	< 1	< 2	< 10	134	< 10	8	10
691324	1.28	24	2.16	0.123	0.141	0.33	4	9	176	0.29	< 20	4	< 2	< 10	138	< 10	8	10
691325	1.16	25	2.18	0.087	0.140	0.84	< 2	11	121	0.24	< 20	2	< 2	< 10	148	< 10	8	10
691326	1.12	27	2.36	0.087	0.140	0.56	4	11	109	0.20	< 20	2	< 2	< 10	151	< 10	8	10
691327	1.20	25	2.37	0.095	0.139	0.70	5	13	151	0.24	< 20	< 1	< 2	< 10	161	< 10	9	10
691328	1.40	27	2.18	0.084	0.147	0.17	3	10	187	0.35	< 20	2	< 2	< 10	154	< 10	9	9
691329	1.43	27	2.00	0.120	0.143	0.55	< 2	10	171	0.34	< 20	2	< 2	< 10	145	< 10	9	10
691330	0.04	< 10	1.96	0.092	0.039	0.15	3	8	31	0.46	< 20	4	< 2	< 10	180	< 10	13	20
691331	1.24	< 10	0.04	2.95	0.001	< 0.01	< 2	< 1	12	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	3	1
691332	1.14	26	1.74	0.092	0.143	0.33	2	8	143	0.33	< 20	2	< 2	< 10	123	< 10	8	10
691333	1.15	28	1.88	0.114	0.146	0.25	2	10	182	0.33	< 20	1	< 2	< 10	149	< 10	9	9
691334	1.45	31	2.24	0.078	0.148	0.19	< 2	8	146	0.28	< 20	2	< 2	< 10	143	< 10	8	10
691335	2.04	38	2.99	0.085	0.224	0.23	2	14	162	0.28	< 20	< 1	< 2	< 10	187	< 10	12	8
691336	0.96	23	1.72	0.064	0.160	0.96	3	10	138	0.19	< 20	< 1	< 2	< 10	155	< 10	9	9
691337	0.82	21	1.65	0.101	0.161	1.10	3	8	180	0.19	< 20	< 1	< 2	< 10	135	< 10	8	8
691338	1.25	17	2.43	0.108	0.127	0.45	4	9	166	0.22	< 20	1	< 2	< 10	125	< 10	7	6
691339	1.53	16	2.32	0.127	0.129	0.35	2	9	167	0.28	< 20	3	< 2	< 10	130	< 10	7	7
691340	0.61	22	1.15	0.066	0.120	1.10	3	7	110	0.15	< 20	< 1	< 2	< 10	103	< 10	8	8
691341	0.91	20	1.71	0.143	0.095	0.37	2	10	203	0.21	< 20	4	< 2	< 10	112	< 10	8	11
691342	0.50	15	4.05	0.077	0.067	0.26	3	6	101	0.24	< 20	< 1	< 2	< 10	81	< 10	6	10
691343	1.23	22	1.92	0.123	0.099	0.14	2	10	148	0.23	< 20	< 1	< 2	< 10	129	< 10	9	9
691344	1.24	21	2.06	0.086	0.097	0.24	2	9	142	0.20	< 20	< 1	< 2	< 10	119	< 10	8	8
691345	1.14	24	2.15	0.072	0.121	0.39	2	9	198	0.25	< 20	< 1	< 2	< 10	101	< 10	8	8
691346	1.06	21	1.84	0.049	0.120	0.74	< 2	7	188	0.26	< 20	3	< 2	< 10	87	< 10	7	8
691347	1.17	20	1.90	0.085	0.122	0.50	< 2	6	128	0.28	< 20	5	< 2	< 10	80	< 10	6	9
691348	1.30	22	2.20	0.082	0.123	0.25	< 2	6	132	0.29	< 20	5	< 2	< 10	87	< 10	6	13

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45d (Aqua Regia) Meas						340	420		195	15	36	5.72	6		91		< 2	0.10	30	463	13.8	20	
OREAS 45d (Aqua Regia) Cert						345.0	400.000		176.0	17.00	30.6	4.860	6.50		80		0.30	0.09	26.2	467	13.650	17.9	
OREAS 922 (AQUA REGIA) Meas				0.9	< 0.5	2190	777	< 1	35	65	260	2.83	8		88	0.7	9	0.41	20	44	5.18	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2170	747	< 1	34	59	248	2.69	8		87	0.7	7	0.42	19	44	5.15	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.7	< 0.5	2170	763	< 1	35	64	265	2.77	5		90	0.8	8	0.44	19	44	5.21	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.5	< 0.5	4240	863	< 1	32	81	340	2.83	7		73	0.7	14	0.41	23	40	5.85	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 520 (Aqua Regia) Meas						2720	2060	54	67	5	20	1.47	141			0.6	< 2	3.55	176	33	15.5	10	
OREAS 520 (Aqua Regia) Cert						2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7	
OREAS 907 (Aqua Regia) Meas				1.3	< 0.5	6000	361	5	6	33	140	1.16	35		254	1.0	21	0.27	44	9	7.90	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
OREAS 907 (Aqua Regia) Meas				1.2	0.6	6470	346	5	7	35	154	1.25	38		261	1.0	17	0.29	47	9	8.35	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4450	1950	1270																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4590	1890	1200																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	5440	1920	1250																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4780	1990	1250																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
CDN-PGMS-27 Meas	4720	1960	1240																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				66.3	288	3540	536	13	27	> 5000	> 10000	1.76	78			0.6	11	1.64	29	35	3.51	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
Oreas 621 (Aqua Regia) Meas				64.9	282	3620	533	13	25	> 5000	> 10000	1.77	79			0.6	5	1.71	29	30	3.51	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1840	1770	252																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1900	1740	243																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	2000	1820	250																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1930	1700	225																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1890	1630	215																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1860	1720	236																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 45f (Aqua Regia) Meas						338	175	1	220	8	26	7.13			155	1.1	< 2	0.08	40	350	13.9	20	1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 45f (Aqua Regia) Meas						346	184	1	233	10	29	7.51			159	1.1	< 2	0.08	41	354	14.0	20	1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.3	< 0.5	85	506	< 1	70	35	126	1.79	33		200	1.3	< 2	1.04	31	53	3.72	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	89	502	< 1	72	34	128	1.98	34		211	1.4	< 2	1.10	33	60	3.94	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	88	512	< 1	74	35	135	1.91	32		204	1.3	< 2	1.09	33	57	3.83	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 130 (Aqua Regia) Meas				6.1	28.7	220	1570	7	32	1270	> 10000	1.20	204				3	1.68	27	22	6.97	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
OREAS 130 (Aqua Regia) Meas				5.9	29.1	227	1560	7	34	1230	> 10000	1.16	210				3	1.63	27	25	7.11	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
OREAS 130 (Aqua Regia) Meas				5.6	28.0	222	1610	7	35	1290	> 10000	1.22	205				3	1.70	26	28	6.99	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
Oreas 623 (Aqua Regia) Meas				17.4	48.9	> 10000	518	7	17	2190	8860	1.68	71			< 0.5	9	0.95	188	18	11.7	10	2
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
Oreas 623 (Aqua Regia) Meas				18.1	48.7	> 10000	535	8	13	2240	9290	1.71	78			< 0.5	4	1.04	210	13	12.5	10	1
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
Oreas 623 (Aqua Regia) Meas				17.8	48.0	> 10000	529	7	14	2250	9250	1.66	74			< 0.5	< 2	1.03	206	13	12.1	10	1
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
691224 Orig				< 0.2	< 0.5	84	824	< 1	28	< 2	55	2.84	4	< 10	59	< 0.5	< 2	1.91	32	53	6.59	< 10	< 1
691224 Dup				< 0.2	< 0.5	87	827	< 1	29	< 2	55	2.86	2	< 10	54	< 0.5	< 2	1.94	31	53	6.61	< 10	< 1
691228 Orig	15	< 5	< 5																				
691228 Dup	15	< 5	< 5																				
691238 Orig	223	< 5	< 5																				
691238 Dup	255	< 5	< 5																				
691242 Orig				< 0.2	< 0.5	120	861	< 1	35	< 2	75	2.32	3	< 10	91	< 0.5	< 2	3.96	28	68	6.05	< 10	< 1
691242 Dup				< 0.2	< 0.5	119	861	< 1	34	< 2	75	2.29	3	< 10	112	< 0.5	< 2	3.96	28	67	6.02	< 10	< 1
691248 Orig	10	< 5	< 5																				
691248 Dup	10	< 5	< 5																				
691258 Orig	13	< 5	< 5																				
691258 Dup	13	< 5	< 5																				
691259 Orig				< 0.2	< 0.5	63	944	< 1	28	< 2	96	2.67	2	< 10	315	< 0.5	< 2	2.84	28	59	5.64	< 10	< 1
691259 Dup				< 0.2	< 0.5	65	973	< 1	31	< 2	99	2.74	5	< 10	220	< 0.5	< 2	2.93	28	61	5.77	< 10	< 1
691268 Orig	10	< 5	< 5	< 0.2	< 0.5	95	685	1	26	< 2	88	2.84	3	< 10	623	< 0.5	< 2	2.28	32	54	5.22	< 10	< 1
691268 Split PREP DUP	11	< 5	< 5	< 0.2	< 0.5	95	684	1	26	< 2	89	2.85	2	< 10	633	< 0.5	< 2	2.26	32	54	5.19	< 10	< 1
691268 Orig	10	< 5	< 5																				
691268 Dup	10	< 5	< 5																				
691277 Orig	98	< 5	< 5																				
691277 Dup	75	< 5	< 5																				
691278 Orig				< 0.2	< 0.5	274	652	< 1	35	< 2	40	2.61	< 2	< 10	547	< 0.5	< 2	3.00	24	92	5.17	< 10	< 1
691278 Dup				< 0.2	< 0.5	276	636	< 1	35	< 2	39	2.54	4	< 10	523	< 0.5	< 2	2.92	24	90	5.08	< 10	< 1
691291 Orig				< 0.2	< 0.5	38	565	< 1	24	< 2	44	2.41	3	< 10	458	< 0.5	< 2	2.63	20	59	4.53	< 10	< 1
691291 Dup				< 0.2	< 0.5	39	598	< 1	26	< 2	46	2.55	< 2	< 10	477	< 0.5	< 2	2.74	20	61	4.76	< 10	< 1
691297 Orig	57	< 5	< 5																				
691297 Dup	53	< 5	< 5																				
691302 Orig				< 0.2	< 0.5	47	479	< 1	14	< 2	43	2.14	< 2	< 10	275	< 0.5	< 2	2.23	18	35	3.85	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691302 Dup				< 0.2	< 0.5	47	482	< 1	16	< 2	43	2.16	2	< 10	281	< 0.5	< 2	2.24	19	36	3.89	< 10	< 1
691307 Orig	32	< 5	< 5																				
691307 Dup	30	< 5	< 5																				
691315 Orig				< 0.2	< 0.5	134	601	< 1	27	< 2	51	3.32	< 2	< 10	15	< 0.5	< 2	2.12	37	47	6.63	< 10	< 1
691315 Dup				0.2	< 0.5	135	603	< 1	28	< 2	52	3.36	4	< 10	13	< 0.5	< 2	2.10	36	48	6.71	< 10	< 1
691317 Orig	110	< 5	< 5																				
691317 Dup	115	< 5	< 5																				
691318 Orig	40	< 5	< 5	< 0.2	< 0.5	73	635	< 1	63	< 2	47	2.84	3	< 10	54	< 0.5	< 2	1.69	30	152	4.90	< 10	< 1
691318 Split PREP DUP	40	< 5	< 5	< 0.2	< 0.5	80	648	< 1	66	< 2	49	2.93	< 2	< 10	99	< 0.5	< 2	1.68	30	150	4.84	< 10	< 1
691326 Orig	75	< 5	< 5																				
691326 Dup	73	< 5	< 5																				
691330 Orig				0.2	< 0.5	156	689	< 1	62	< 2	59	3.40	8	55	19	< 0.5	< 2	3.22	30	85	6.12	10	< 1
691330 Dup				< 0.2	< 0.5	157	688	< 1	62	< 2	60	3.39	6	56	19	< 0.5	< 2	3.23	30	87	6.12	10	< 1
691336 Orig	507	< 5	< 5																				
691336 Dup	605	< 5	< 5																				
691343 Orig				< 0.2	< 0.5	99	624	2	23	< 2	40	2.44	< 2	< 10	586	< 0.5	< 2	2.94	21	58	5.13	< 10	< 1
691343 Dup				< 0.2	< 0.5	99	620	2	24	< 2	40	2.38	< 2	< 10	574	< 0.5	< 2	2.90	20	57	5.04	< 10	< 1
691346 Orig	912	< 5	< 5																				
691346 Dup	887	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45d (Aqua Regia) Meas	0.11	12	0.16	0.041	0.033	0.04		42	13		< 20			< 10	197		4	
OREAS 45d (Aqua Regia) Cert	0.097	9.960	0.144	0.031	0.035	0.045		41.50	11.0		11.3			1.64	201.0		5.08	
OREAS 922 (AQUA REGIA) Meas	0.44	39	1.32	0.028	0.064	0.37	3	4	16		< 20		< 2	< 10	35	< 10	20	25
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.45	38	1.29	0.028	0.061	0.37	3	4	16		< 20		< 2	< 10	34	< 10	19	7
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.49	38	1.26	0.026	0.061	0.37	4	4	16		< 20		< 2	< 10	35	< 10	20	9
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.39	36	1.40		0.062	0.65	4	3	14		< 20		< 2	< 10	34	< 10	18	37
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 520 (Aqua Regia) Meas	0.46	73	1.04	0.067	0.068	0.91	8	10	32	0.14	< 20	< 1	< 2	10	223	23	12	37
OREAS 520 (Aqua Regia) Cert	0.506	83.0	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 907 (Aqua Regia) Meas	0.33	38	0.21	0.095	0.024	0.06	7	2	12	0.02	< 20	< 1	< 2	< 10	6	< 10	7	46
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
OREAS 907 (Aqua Regia) Meas	0.37	40	0.22	0.101	0.023	0.07	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	19
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.34	20	0.43	0.183	0.034	4.37	127	2	19		< 20		< 2	< 10	12	< 10	7	69
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
Oreas 621 (Aqua Regia) Meas	0.35	21	0.41	0.200	0.034	4.64	114	2	20		< 20		< 2	< 10	12	< 10	7	64
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.11	13	0.17	0.044	0.021	0.03		30	16	0.14	< 20		< 2	< 10	203		6	22
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 45f (Aqua Regia) Meas	0.11	13	0.18	0.045	0.021	0.02		30	16	0.15	< 20		< 2	< 10	208		6	22
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.35		0.59	0.087	0.043	0.12	11	4	18		< 20	< 1	< 2	< 10	27		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
OREAS 263 (Aqua Regia) Meas	0.42		0.60	0.099	0.043	0.12	9	4	19		< 20	2	< 2	< 10	30		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
OREAS 263 (Aqua Regia) Meas	0.40		0.59	0.094	0.043	0.13	10	4	18		< 20	1	< 2	< 10	29		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 130 (Aqua Regia) Meas	0.53	26	0.88		0.084	5.78	6	3	21	0.03	< 20	1	4	< 10	36	19	12	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
OREAS 130 (Aqua Regia) Meas	0.55	24	0.88		0.083	6.14	7	3	20	0.03	< 20	< 1	3	< 10	37	12	11	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
OREAS 130 (Aqua Regia) Meas	0.55	25	0.88		0.082	5.83	6	3	20	0.03	< 20	< 1	2	< 10	37	12	12	27
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
Oreas 623 (Aqua Regia) Meas	0.16	17	0.95	0.076	0.041	8.32	25	4	13		< 20	< 1	< 2	< 10	16	< 10	7	58
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
Oreas 623 (Aqua Regia) Meas	0.17	18	1.00	0.082	0.044	8.84	23	4	14		< 20	< 1	< 2	< 10	15	10	7	55
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
Oreas 623 (Aqua Regia) Meas	0.16	18	0.99	0.081	0.043	8.65	21	4	14		< 20	< 1	< 2	< 10	15	< 10	7	53
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
691224 Orig	1.91	23	1.79	0.064	0.204	1.97	3	10	245	0.38	< 20	2	< 2	< 10	175	< 10	7	11
691224 Dup	1.91	24	1.80	0.064	0.208	1.99	2	10	251	0.39	< 20	2	< 2	< 10	178	< 10	7	11
691228 Orig																		
691228 Dup																		
691238 Orig																		
691238 Dup																		
691242 Orig	1.34	42	1.91	0.116	0.211	0.42	2	14	162	0.26	< 20	5	< 2	< 10	170	< 10	13	12
691242 Dup	1.33	42	1.90	0.116	0.209	0.41	2	14	162	0.26	< 20	2	< 2	< 10	168	< 10	13	13
691248 Orig																		
691248 Dup																		
691258 Orig																		
691258 Dup																		
691259 Orig	1.27	32	1.74	0.138	0.182	0.30	2	11	228	0.37	< 20	5	< 2	< 10	141	< 10	8	9
691259 Dup	1.30	32	1.79	0.141	0.185	0.30	2	11	237	0.37	< 20	2	< 2	< 10	145	< 10	9	9
691268 Orig	1.19	36	1.84	0.175	0.202	0.08	3	11	242	0.28	< 20	< 1	< 2	< 10	137	< 10	10	8
691268 Split PREP DUP	1.22	36	1.86	0.176	0.205	0.09	2	11	241	0.28	< 20	< 1	< 2	< 10	138	< 10	10	8
691268 Orig																		
691268 Dup																		
691277 Orig																		
691277 Dup																		
691278 Orig	1.16	43	2.11	0.197	0.238	0.07	2	11	192	0.35	< 20	5	< 2	< 10	131	< 10	10	7
691278 Dup	1.14	42	2.07	0.194	0.233	0.07	2	10	185	0.33	< 20	4	< 2	< 10	128	< 10	10	6
691291 Orig	0.85	33	1.92	0.162	0.205	0.02	3	9	279	0.31	< 20	< 1	< 2	< 10	120	< 10	10	7
691291 Dup	0.88	34	2.01	0.166	0.210	0.02	2	10	294	0.33	< 20	6	< 2	< 10	127	< 10	10	7
691297 Orig																		
691297 Dup																		
691302 Orig	0.65	18	1.63	0.138	0.112	0.04	< 2	8	110	0.20	< 20	2	< 2	< 10	104	< 10	7	5

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
691302 Dup	0.66	18	1.66	0.139	0.113	0.04	< 2	8	107	0.20	< 20	4	< 2	< 10	104	< 10	7	5
691307 Orig																		
691307 Dup																		
691315 Orig	0.73	16	2.36	0.045	0.133	2.30	2	8	142	0.17	< 20	6	< 2	< 10	127	< 10	6	8
691315 Dup	0.74	16	2.40	0.045	0.136	2.31	3	8	139	0.18	< 20	< 1	< 2	< 10	127	< 10	6	8
691317 Orig																		
691317 Dup																		
691318 Orig	1.08	31	2.91	0.124	0.193	0.70	< 2	8	131	0.21	< 20	2	< 2	< 10	106	< 10	9	6
691318 Split PREP DUP	1.06	31	2.88	0.114	0.191	0.69	2	8	128	0.21	< 20	< 1	< 2	< 10	107	< 10	8	7
691326 Orig																		
691326 Dup																		
691330 Orig	0.04	< 10	1.96	0.092	0.039	0.15	2	8	30	0.46	< 20	5	< 2	< 10	180	< 10	13	20
691330 Dup	0.04	< 10	1.96	0.092	0.039	0.15	3	8	31	0.46	< 20	3	< 2	< 10	180	< 10	13	20
691336 Orig																		
691336 Dup																		
691343 Orig	1.24	22	1.93	0.125	0.099	0.14	3	10	150	0.23	< 20	< 1	< 2	< 10	130	< 10	9	9
691343 Dup	1.22	22	1.91	0.122	0.098	0.14	2	10	147	0.23	< 20	5	< 2	< 10	128	< 10	8	9
691346 Orig																		
691346 Dup																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.010	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-13821**
Report Date: **01-Feb-21**
Date Submitted: **02-Nov-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2021-01-06 15:29:43

REPORT **A20-13821**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
1752 Riverside Drive, Timmins, Ontario, Canada, P4R 1N1
TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
E-MAIL Timmins@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Report No.: **A20-13821**
Report Date: **01-Feb-21**
Date Submitted: **02-Nov-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

84 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-31 12:02:54

REPORT **A20-13821**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697552	< 2	< 5	< 5	< 0.2	< 0.5	5	1040	< 1	16	< 2	42	2.80	< 2	< 10	< 10	< 0.5	< 2	3.71	34	14	6.92	< 10	< 1
697553	< 2	< 5	< 5	< 0.2	< 0.5	3	949	< 1	15	< 2	33	2.37	3	< 10	< 10	< 0.5	< 2	3.61	31	14	6.28	< 10	< 1
697554	< 2	< 5	< 5	< 0.2	< 0.5	2	873	< 1	15	< 2	33	2.51	< 2	< 10	< 10	< 0.5	< 2	3.58	31	15	6.23	< 10	< 1
697555	4	< 5	< 5	< 0.2	< 0.5	3	810	< 1	15	< 2	31	2.39	< 2	< 10	13	< 0.5	< 2	3.67	33	18	6.05	< 10	< 1
697556	< 2	< 5	< 5	< 0.2	< 0.5	2	840	< 1	15	< 2	32	2.14	2	< 10	14	< 0.5	< 2	3.50	31	17	5.94	< 10	< 1
697557	140	< 5	< 5	< 0.2	< 0.5	3	877	< 1	16	< 2	53	2.42	< 2	< 10	31	< 0.5	< 2	3.74	32	15	6.47	< 10	< 1
697558	6	< 5	< 5	< 0.2	< 0.5	5	918	< 1	15	< 2	42	2.37	3	< 10	< 10	< 0.5	< 2	3.96	33	15	6.51	< 10	< 1
697559	< 2	< 5	< 5	< 0.2	< 0.5	< 1	958	< 1	16	< 2	46	2.49	< 2	< 10	22	< 0.5	< 2	3.92	35	20	7.09	< 10	< 1
697560	< 2	< 5	< 5	< 0.2	< 0.5	5	949	< 1	14	< 2	54	2.64	2	< 10	32	< 0.5	< 2	3.77	35	11	7.21	< 10	< 1
697561	< 2	< 5	< 5	< 0.2	< 0.5	< 1	914	< 1	11	< 2	50	1.75	< 2	< 10	25	< 0.5	< 2	3.81	32	6	6.70	< 10	< 1
697562	30	< 5	5	< 0.2	< 0.5	3	964	< 1	17	< 2	59	1.96	< 2	< 10	45	< 0.5	< 2	4.11	34	15	6.06	< 10	< 1
697563	901	< 5	< 5	< 0.2	< 0.5	21	1070	< 1	14	< 2	60	2.25	< 2	< 10	31	< 0.5	< 2	3.66	36	10	7.14	< 10	< 1
697564	21	< 5	< 5	< 0.2	< 0.5	27	1170	< 1	11	< 2	58	2.58	< 2	< 10	59	< 0.5	< 2	3.80	34	6	7.16	< 10	< 1
697565	23	< 5	< 5	< 0.2	< 0.5	26	1230	< 1	2	< 2	43	1.23	< 2	< 10	66	< 0.5	< 2	4.03	26	3	5.94	< 10	< 1
697566	53	< 5	< 5	< 0.2	< 0.5	16	962	< 1	9	< 2	61	2.04	< 2	< 10	53	< 0.5	< 2	3.64	31	7	6.46	< 10	< 1
697567	19	< 5	< 5	< 0.2	< 0.5	60	1050	< 1	11	< 2	67	1.67	< 2	< 10	36	< 0.5	< 2	4.47	24	11	5.17	< 10	< 1
697568	259	< 5	< 5	< 0.2	< 0.5	3	972	< 1	14	< 2	44	1.95	< 2	< 10	32	< 0.5	< 2	4.13	28	12	5.18	< 10	< 1
697569	20	< 5	< 5	< 0.2	< 0.5	36	1030	< 1	13	< 2	54	2.60	2	< 10	52	< 0.5	< 2	3.84	34	10	6.78	< 10	< 1
697570	499	15	13	< 0.2	< 0.5	154	675	< 1	62	< 2	59	3.48	7	51	18	< 0.5	< 2	2.99	30	84	5.81	10	< 1
697571	15	< 5	< 5	< 0.2	< 0.5	16	977	< 1	14	< 2	52	2.17	< 2	< 10	35	< 0.5	< 2	3.99	35	26	6.59	< 10	< 1
697572	285	< 5	< 5	< 0.2	< 0.5	14	1040	< 1	10	< 2	76	2.62	2	< 10	84	< 0.5	< 2	3.60	37	6	6.76	< 10	< 1
697573	2840	< 5	< 5	< 0.2	< 0.5	14	1110	< 1	8	< 2	71	2.31	3	< 10	207	< 0.5	< 2	3.55	34	5	7.22	< 10	< 1
697574	11	< 5	< 5	< 0.2	< 0.5	3	1110	< 1	7	< 2	69	2.61	< 2	< 10	254	< 0.5	< 2	3.65	32	3	6.96	< 10	< 1
697575	232	< 5	< 5	< 0.2	< 0.5	2	1050	< 1	6	< 2	65	2.76	2	< 10	35	< 0.5	< 2	3.26	34	4	7.10	< 10	< 1
697576	987	< 5	< 5	< 0.2	< 0.5	8	858	< 1	6	< 2	75	2.71	< 2	< 10	45	< 0.5	< 2	2.46	36	2	7.58	10	< 1
697577	154	< 5	< 5	< 0.2	< 0.5	17	883	< 1	4	< 2	43	1.84	< 2	< 10	23	< 0.5	< 2	2.87	35	6	8.15	< 10	< 1
697578	159	< 5	< 5	< 0.2	< 0.5	2	943	< 1	2	< 2	47	0.98	2	< 10	48	< 0.5	< 2	2.45	22	2	8.36	10	< 1
697579	381	< 5	< 5	< 0.2	< 0.5	7	1140	< 1	3	< 2	58	1.45	< 2	< 10	43	< 0.5	< 2	2.99	36	3	9.29	10	< 1
697580	2150	< 5	< 5	< 0.2	< 0.5	28	1260	< 1	5	< 2	74	1.18	< 2	< 10	19	< 0.5	< 2	3.84	42	4	9.32	< 10	< 1
697581	346	< 5	< 5	< 0.2	< 0.5	18	1880	< 1	7	< 2	110	2.77	3	< 10	49	< 0.5	< 2	4.72	32	1	8.71	< 10	< 1
697582	386	< 5	< 5	< 0.2	< 0.5	9	2360	< 1	8	3	79	1.82	7	< 10	45	< 0.5	< 2	6.67	27	9	6.65	< 10	< 1
697583	155	< 5	< 5	< 0.2	< 0.5	19	1060	< 1	8	< 2	89	2.44	< 2	< 10	91	< 0.5	< 2	3.55	44	2	8.57	< 10	< 1
697584	7	< 5	< 5	< 0.2	< 0.5	16	1020	< 1	7	< 2	78	2.34	3	< 10	56	< 0.5	< 2	3.07	43	3	8.61	< 10	< 1
697585	< 2	< 5	< 5	< 0.2	< 0.5	< 1	114	< 1	< 1	< 2	19	4.54	4	10	< 10	< 0.5	< 2	0.23	< 1	2	0.65	< 10	< 1
697586	5	< 5	< 5	< 0.2	< 0.5	22	1170	< 1	12	< 2	62	2.85	< 2	< 10	25	< 0.5	< 2	3.94	38	3	6.94	< 10	< 1
697587	7	< 5	< 5	< 0.2	< 0.5	39	1090	< 1	12	< 2	55	2.73	2	< 10	24	< 0.5	< 2	3.83	38	3	6.42	< 10	< 1
697588	181	< 5	< 5	< 0.2	< 0.5	10	1080	< 1	12	< 2	65	3.16	< 2	< 10	74	< 0.5	< 2	4.30	35	5	6.56	< 10	< 1
697589	5	< 5	< 5	< 0.2	< 0.5	19	965	< 1	14	< 2	45	2.61	< 2	< 10	45	< 0.5	< 2	3.99	30	6	4.91	< 10	< 1
697590	1030	15	12	0.3	< 0.5	146	653	< 1	69	3	61	3.33	11	47	20	< 0.5	< 2	2.91	29	116	5.51	10	< 1
697591	9	< 5	< 5	< 0.2	< 0.5	55	1030	< 1	21	< 2	52	2.99	3	< 10	29	< 0.5	< 2	3.74	36	8	5.58	< 10	< 1
697592	196	< 5	< 5	0.3	< 0.5	213	990	< 1	36	< 2	61	2.69	3	< 10	53	< 0.5	< 2	4.01	45	10	6.52	< 10	< 1
697593	125	< 5	< 5	< 0.2	< 0.5	79	1010	< 1	21	< 2	92	2.54	3	< 10	48	< 0.5	< 2	4.12	35	16	6.42	< 10	< 1
697594	8	< 5	< 5	< 0.2	< 0.5	34	1020	< 1	26	< 2	55	2.72	< 2	< 10	35	< 0.5	< 2	4.22	36	26	5.95	< 10	< 1
697595	7	< 5	< 5	< 0.2	< 0.5	27	1050	< 1	24	< 2	63	2.43	< 2	< 10	61	< 0.5	< 2	4.35	32	26	5.36	< 10	< 1
697596	5	< 5	< 5	< 0.2	< 0.5	51	839	< 1	23	< 2	40	2.28	2	< 10	271	< 0.5	< 2	3.74	27	25	4.52	< 10	< 1
697597	7	< 5	< 5	< 0.2	< 0.5	53	872	< 1	24	< 2	41	2.23	< 2	< 10	47	< 0.5	< 2	3.83	29	26	4.68	< 10	< 1
697598	8	< 5	< 5	< 0.2	< 0.5	65	929	< 1	26	< 2	48	2.63	< 2	< 10	75	< 0.5	< 2	4.25	32	36	4.97	< 10	< 1
697599	2	< 5	< 5	< 0.2	< 0.5	9	873	< 1	26	< 2	43	2.16	< 2	< 10	60	< 0.5	< 2	4.32	30	36	4.68	< 10	< 1
697600	7	< 5	< 5	< 0.2	< 0.5	49	882	< 1	29	< 2	47	2.70	< 2	< 10	47	< 0.5	< 2	4.22	33	40	4.79	< 10	< 1
697651	19	< 5	< 5	< 0.2	< 0.5	68	926	< 1	29	< 2	42	2.82	2	< 10	32	< 0.5	< 2	4.56	34	46	5.09	< 10	< 1
697652	34	< 5	< 5	< 0.2	< 0.5	86	931	< 1	32	< 2	55	2.96	4	< 10	43	< 0.5	< 2	4.43	32	63	4.84	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697653	28	< 5	5	< 0.2	< 0.5	52	736	1	26	< 2	59	2.19	< 2	< 10	49	< 0.5	< 2	3.48	25	53	4.11	< 10	< 1
697654	7	< 5	< 5	< 0.2	< 0.5	55	849	< 1	35	< 2	45	2.77	< 2	< 10	65	< 0.5	< 2	4.11	31	77	4.48	< 10	< 1
697655	4	< 5	< 5	< 0.2	< 0.5	64	886	< 1	38	< 2	42	2.58	< 2	< 10	34	< 0.5	< 2	4.34	30	89	4.56	< 10	< 1
697656	3	< 5	< 5	< 0.2	< 0.5	38	453	< 1	39	< 2	33	1.93	3	< 10	36	< 0.5	< 2	1.67	20	81	3.42	< 10	< 1
697657	8	< 5	< 5	< 0.2	< 0.5	47	880	< 1	34	< 2	39	2.78	< 2	< 10	87	< 0.5	< 2	4.42	25	89	4.37	< 10	< 1
697658	14	< 5	< 5	< 0.2	< 0.5	91	908	< 1	41	< 2	43	3.14	2	< 10	253	< 0.5	< 2	4.46	30	113	4.33	< 10	< 1
697659	6	< 5	< 5	< 0.2	< 0.5	69	869	< 1	39	< 2	39	3.77	3	< 10	11	< 0.5	< 2	4.38	26	108	3.96	< 10	< 1
697660	493	14	12	< 0.2	< 0.5	152	663	< 1	60	< 2	59	3.42	6	50	19	< 0.5	< 2	2.97	30	83	5.72	10	< 1
697661	6	< 5	< 5	< 0.2	< 0.5	86	899	< 1	48	< 2	37	3.67	< 2	< 10	16	< 0.5	< 2	4.68	32	180	4.47	< 10	< 1
697662	7	< 5	< 5	< 0.2	< 0.5	90	845	< 1	50	< 2	53	3.57	3	< 10	85	< 0.5	< 2	4.44	32	192	4.45	< 10	< 1
697663	7	< 5	< 5	< 0.2	< 0.5	63	815	< 1	55	< 2	47	3.87	3	< 10	48	< 0.5	< 2	4.50	31	248	4.55	< 10	< 1
697664	45	< 5	< 5	1.7	< 0.5	410	3110	2	59	3	69	3.52	21	< 10	37	< 0.5	< 2	7.28	27	233	4.98	< 10	< 1
697665	19	< 5	< 5	0.3	< 0.5	121	2470	< 1	74	5	62	5.95	16	< 10	43	< 0.5	< 2	6.47	37	299	4.91	< 10	< 1
697666	68	< 5	< 5	1.1	8.4	291	3150	< 1	72	5	1880	4.61	15	< 10	27	< 0.5	< 2	6.25	29	367	5.01	< 10	< 1
697667	56	< 5	14	1.1	2.7	339	4620	< 1	142	5	637	2.07	13	< 10	25	< 0.5	< 2	7.00	35	892	4.73	< 10	< 1
697668	8	29	60	< 0.2	< 0.5	215	1310	< 1	154	< 2	61	2.66	3	< 10	< 10	< 0.5	< 2	6.09	47	1260	5.28	< 10	< 1
697669	6	239	128	< 0.2	< 0.5	105	1430	< 1	99	< 2	37	2.24	< 2	< 10	< 10	< 0.5	< 2	5.58	33	1360	4.44	< 10	< 1
697670	3	192	107	< 0.2	< 0.5	60	1080	< 1	176	< 2	37	2.23	5	< 10	< 10	< 0.5	< 2	4.10	56	1270	5.16	< 10	< 1
697671	< 2	41	54	< 0.2	< 0.5	24	1150	< 1	212	< 2	23	2.09	6	< 10	< 10	< 0.5	< 2	2.93	74	1290	6.20	< 10	< 1
697672	< 2	24	38	< 0.2	< 0.5	26	1450	< 1	213	< 2	16	1.79	6	< 10	< 10	< 0.5	< 2	2.93	64	1330	6.30	< 10	< 1
697673	< 2	7	9	< 0.2	< 0.5	22	1410	< 1	212	< 2	18	1.77	< 2	< 10	< 10	< 0.5	< 2	3.28	50	767	6.20	< 10	< 1
697674	4	9	13	< 0.2	< 0.5	79	1150	< 1	274	< 2	16	1.92	< 2	< 10	< 10	< 0.5	< 2	2.31	47	1470	6.23	< 10	< 1
697675	< 2	6	< 5	< 0.2	< 0.5	14	1220	< 1	257	< 2	20	2.06	< 2	< 10	11	< 0.5	< 2	3.22	44	680	5.79	< 10	< 1
697676	2	9	8	< 0.2	< 0.5	26	1220	< 1	290	< 2	16	2.89	< 2	< 10	< 10	< 0.5	< 2	2.89	45	1530	5.82	< 10	< 1
697677	< 2	15	24	< 0.2	< 0.5	12	1180	< 1	278	< 2	10	1.53	< 2	< 10	< 10	< 0.5	< 2	2.43	40	1550	5.31	< 10	< 1
697678	2	11	30	< 0.2	< 0.5	11	1270	< 1	286	< 2	10	1.48	10	< 10	< 10	< 0.5	< 2	2.75	44	1150	5.11	< 10	< 1
697679	< 2	< 5	6	< 0.2	< 0.5	5	990	< 1	340	< 2	9	1.72	4	< 10	< 10	< 0.5	< 2	2.40	38	1070	4.51	< 10	< 1
697680	1020	17	24	0.2	< 0.5	148	690	< 1	77	3	61	3.54	9	47	22	< 0.5	< 2	2.99	34	123	5.55	10	< 1
697681	< 2	6	13	< 0.2	< 0.5	10	1130	< 1	294	< 2	5	1.32	< 2	< 10	< 10	< 0.5	< 2	2.40	35	999	4.43	< 10	< 1
697682	5	7	13	< 0.2	< 0.5	10	1330	< 1	354	< 2	6	1.37	< 2	< 10	< 10	< 0.5	< 2	3.11	38	1210	4.73	< 10	< 1
697683	< 2	7	15	< 0.2	< 0.5	17	1030	< 1	386	< 2	8	1.45	< 2	< 10	< 10	< 0.5	< 2	1.71	42	1500	4.84	< 10	< 1
697684	2130	937	588	< 0.2	< 0.5	15	1100	< 1	361	< 2	8	1.26	3	< 10	< 10	< 0.5	< 2	2.20	46	1350	4.77	< 10	< 1
697685	< 2	12	26	< 0.2	< 0.5	10	1060	< 1	325	< 2	7	1.24	3	< 10	< 10	< 0.5	< 2	1.95	56	1320	4.67	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697552	0.03	< 10	2.87	0.075	0.029	0.03	3	21	22	0.09	< 20	< 1	< 2	< 10	172	< 10	9	4
697553	0.04	< 10	2.52	0.151	0.030	0.03	3	18	14	0.12	< 20	< 1	< 2	< 10	155	< 10	9	4
697554	0.04	< 10	2.54	0.183	0.030	0.04	< 2	19	15	0.13	< 20	3	< 2	< 10	155	< 10	9	4
697555	0.06	< 10	2.51	0.180	0.030	0.10	< 2	17	16	0.11	< 20	4	< 2	< 10	150	< 10	9	4
697556	0.07	< 10	2.51	0.102	0.032	0.07	2	18	13	0.12	< 20	< 1	< 2	< 10	155	< 10	8	5
697557	0.12	< 10	2.48	0.146	0.034	0.11	3	20	33	0.13	< 20	2	< 2	< 10	184	< 10	9	5
697558	0.06	< 10	2.46	0.143	0.029	0.02	2	15	33	0.12	< 20	1	< 2	< 10	179	< 10	8	3
697559	0.04	< 10	2.73	0.089	0.030	0.03	3	18	36	0.08	< 20	< 1	< 2	< 10	185	< 10	8	4
697560	0.07	< 10	2.69	0.076	0.032	0.04	3	18	30	0.07	< 20	< 1	< 2	< 10	187	< 10	9	4
697561	0.08	< 10	2.34	0.063	0.031	0.03	3	16	22	0.11	< 20	1	< 2	< 10	210	< 10	8	4
697562	0.13	< 10	2.72	0.075	0.027	0.12	2	19	23	0.12	< 20	5	< 2	< 10	169	< 10	8	4
697563	0.12	< 10	2.70	0.087	0.031	0.43	3	19	18	0.12	< 20	< 1	< 2	< 10	181	< 10	9	5
697564	0.18	< 10	2.55	0.142	0.035	0.23	3	20	21	0.13	< 20	< 1	< 2	< 10	198	< 10	11	4
697565	0.25	< 10	1.57	0.100	0.066	0.55	< 2	13	19	0.12	< 20	1	< 2	< 10	131	< 10	15	6
697566	0.15	< 10	2.41	0.089	0.027	0.29	3	19	21	0.13	< 20	4	< 2	< 10	231	< 10	7	4
697567	0.13	< 10	2.76	0.038	0.013	0.26	< 2	16	33	0.07	< 20	< 1	< 2	< 10	123	< 10	4	3
697568	0.12	< 10	2.80	0.093	0.017	0.11	< 2	18	19	0.12	< 20	< 1	< 2	< 10	143	< 10	6	3
697569	0.17	< 10	2.26	0.175	0.032	0.35	3	17	27	0.12	< 20	1	< 2	< 10	165	< 10	9	4
697570	0.04	< 10	1.94	0.083	0.038	0.15	2	7	28	0.44	< 20	6	< 2	< 10	179	< 10	13	14
697571	0.17	< 10	2.34	0.112	0.033	0.30	3	18	19	0.13	< 20	< 1	< 2	< 10	183	< 10	9	4
697572	0.23	< 10	2.07	0.165	0.037	0.27	2	18	16	0.12	< 20	4	< 2	< 10	172	< 10	10	4
697573	0.38	< 10	1.97	0.159	0.036	0.21	2	19	16	0.14	< 20	< 1	< 2	< 10	196	< 10	11	4
697574	0.49	< 10	1.71	0.211	0.040	0.07	3	18	17	0.17	< 20	< 1	< 2	< 10	193	< 10	12	5
697575	0.18	< 10	2.05	0.214	0.045	0.13	3	20	11	0.15	< 20	4	< 2	< 10	189	< 10	12	6
697576	0.43	< 10	1.87	0.205	0.056	0.52	3	20	8	0.18	< 20	< 1	< 2	< 10	220	< 10	15	8
697577	0.43	< 10	1.32	0.124	0.073	1.39	3	13	10	0.15	< 20	1	< 2	< 10	31	< 10	18	9
697578	0.14	< 10	1.01	0.070	0.078	0.26	4	14	8	0.13	< 20	3	< 2	< 10	49	< 10	15	6
697579	0.26	< 10	1.30	0.116	0.054	0.65	4	19	13	0.16	< 20	< 1	< 2	< 10	182	< 10	14	8
697580	0.21	< 10	1.71	0.063	0.035	2.14	3	15	20	0.12	< 20	< 1	< 2	< 10	285	< 10	8	6
697581	0.41	< 10	3.09	0.181	0.036	0.88	< 2	20	53	0.13	< 20	< 1	< 2	< 10	284	< 10	8	6
697582	0.33	< 10	3.52	0.130	0.026	1.23	3	11	67	0.08	< 20	< 1	< 2	< 10	163	< 10	6	7
697583	0.27	< 10	2.13	0.163	0.025	0.45	4	20	27	0.12	< 20	< 1	< 2	< 10	377	< 10	8	4
697584	0.14	< 10	1.98	0.169	0.036	0.29	3	18	27	0.14	< 20	< 1	< 2	< 10	299	< 10	9	4
697585	1.39	< 10	0.04	3.05	0.001	< 0.01	< 2	< 1	13	< 0.01	< 20	2	< 2	< 10	< 1	< 10	4	1
697586	0.13	< 10	2.69	0.193	0.020	0.16	2	15	44	0.10	< 20	3	< 2	< 10	184	< 10	5	3
697587	0.11	< 10	2.78	0.172	0.022	0.16	< 2	14	33	0.09	< 20	3	< 2	< 10	160	< 10	5	3
697588	0.27	< 10	2.74	0.261	0.022	0.45	3	19	36	0.11	< 20	< 1	< 2	< 10	177	< 10	5	3
697589	0.12	< 10	2.71	0.208	0.019	0.14	3	14	37	0.10	< 20	1	< 2	< 10	117	< 10	5	2
697590	0.05	< 10	1.97	0.079	0.036	0.19	4	7	28	0.41	< 20	4	< 2	< 10	168	< 10	12	14
697591	0.08	< 10	3.00	0.205	0.018	0.16	< 2	14	38	0.08	< 20	1	< 2	< 10	119	< 10	4	3
697592	0.16	< 10	2.89	0.179	0.018	0.93	3	16	31	0.08	< 20	< 1	< 2	< 10	146	< 10	4	3
697593	0.14	< 10	3.05	0.111	0.017	0.78	3	19	26	0.09	< 20	3	< 2	< 10	156	< 10	4	3
697594	0.10	< 10	3.69	0.080	0.017	0.18	3	16	27	0.09	< 20	< 1	< 2	< 10	137	< 10	5	3
697595	0.14	< 10	3.63	0.074	0.013	0.30	2	16	30	0.06	< 20	2	< 2	< 10	121	< 10	4	3
697596	0.10	< 10	2.84	0.117	0.029	0.19	3	12	40	0.07	< 20	< 1	< 2	< 10	103	< 10	4	5
697597	0.10	< 10	2.91	0.102	0.025	0.20	< 2	12	29	0.06	< 20	3	< 2	< 10	101	< 10	4	4
697598	0.17	< 10	3.28	0.162	0.017	0.21	4	14	41	0.08	< 20	< 1	< 2	< 10	114	< 10	4	2
697599	0.19	< 10	3.53	0.060	0.014	0.04	2	17	25	0.09	< 20	< 1	< 2	< 10	122	< 10	4	2
697600	0.13	< 10	3.54	0.140	0.013	0.18	2	13	34	0.07	< 20	< 1	< 2	< 10	107	< 10	3	2
697651	0.15	< 10	3.47	0.164	0.013	0.16	3	13	43	0.06	< 20	< 1	< 2	< 10	122	< 10	3	2
697652	0.16	< 10	3.52	0.204	0.009	0.45	4	14	49	0.06	< 20	< 1	< 2	< 10	111	< 10	3	2

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697653	0.16	< 10	2.82	0.134	0.005	0.57	< 2	12	32	0.05	< 20	1	< 2	< 10	84	< 10	2	2
697654	0.18	< 10	3.71	0.118	0.010	0.11	< 2	11	30	0.06	< 20	< 1	< 2	< 10	93	< 10	3	2
697655	0.12	< 10	3.88	0.088	0.017	0.04	2	12	21	0.07	< 20	3	< 2	< 10	91	< 10	3	2
697656	0.33	25	2.18	0.046	0.092	0.33	2	10	13	0.08	< 20	1	< 2	< 10	83	< 10	6	1
697657	0.25	< 10	3.39	0.212	0.011	0.08	3	11	33	0.07	< 20	< 1	< 2	< 10	83	< 10	3	2
697658	0.27	< 10	3.63	0.232	0.011	0.07	3	10	38	0.06	< 20	1	< 2	< 10	80	< 10	3	1
697659	0.01	< 10	3.63	0.275	0.011	0.03	3	7	41	0.04	< 20	< 1	< 2	< 10	62	< 10	2	1
697660	0.04	< 10	1.92	0.083	0.038	0.14	2	7	27	0.44	< 20	7	< 2	< 10	178	< 10	13	14
697661	0.02	< 10	4.05	0.255	0.011	0.21	3	9	36	0.04	< 20	< 1	< 2	< 10	72	< 10	2	2
697662	0.17	< 10	3.99	0.225	0.009	0.17	2	10	35	0.05	< 20	3	< 2	< 10	84	< 10	2	1
697663	0.20	< 10	4.02	0.269	0.010	0.09	4	10	41	0.05	< 20	< 1	< 2	< 10	81	< 10	3	2
697664	0.64	< 10	5.31	0.251	0.008	0.83	3	14	36	0.05	< 20	< 1	< 2	< 10	84	< 10	3	3
697665	1.67	< 10	4.53	0.402	0.010	0.65	4	21	36	0.09	< 20	< 1	< 2	< 10	122	< 10	3	2
697666	1.20	< 10	4.91	0.315	0.009	1.22	4	20	35	0.07	< 20	< 1	< 2	< 10	101	< 10	3	2
697667	0.21	< 10	6.13	0.025	0.009	0.95	8	19	39	0.03	< 20	< 1	< 2	< 10	106	< 10	3	2
697668	< 0.01	< 10	6.68	0.011	0.011	0.34	10	19	48	0.03	< 20	< 1	< 2	< 10	134	< 10	2	2
697669	< 0.01	< 10	5.86	0.009	0.013	0.03	12	19	35	0.05	< 20	< 1	< 2	< 10	125	< 10	3	3
697670	< 0.01	< 10	5.16	0.008	0.009	1.22	11	13	28	0.02	< 20	< 1	< 2	< 10	78	< 10	1	4
697671	< 0.01	< 10	5.24	0.009	0.009	0.55	11	13	33	0.02	< 20	< 1	< 2	< 10	82	< 10	1	3
697672	< 0.01	< 10	6.08	0.009	0.008	0.19	11	11	42	< 0.01	< 20	< 1	< 2	< 10	69	< 10	1	3
697673	< 0.01	< 10	6.27	0.010	0.009	0.05	8	12	44	< 0.01	< 20	1	< 2	< 10	67	< 10	1	3
697674	< 0.01	< 10	5.97	0.013	0.011	0.03	13	12	32	< 0.01	< 20	< 1	< 2	< 10	76	< 10	2	2
697675	< 0.01	< 10	6.08	0.011	0.008	0.03	7	13	38	< 0.01	< 20	< 1	< 2	< 10	74	< 10	2	2
697676	< 0.01	< 10	5.86	0.009	0.013	0.02	13	16	26	< 0.01	< 20	< 1	< 2	< 10	92	< 10	1	2
697677	< 0.01	< 10	5.93	0.009	0.007	0.02	12	10	36	< 0.01	< 20	< 1	< 2	< 10	58	< 10	1	2
697678	< 0.01	< 10	7.49	0.009	0.007	0.02	12	10	48	< 0.01	< 20	< 1	< 2	< 10	46	< 10	1	2
697679	< 0.01	< 10	7.10	0.009	0.008	0.01	9	11	38	< 0.01	< 20	< 1	< 2	< 10	53	< 10	2	2
697680	0.05	< 10	2.05	0.079	0.036	0.18	3	7	28	0.40	< 20	3	< 2	< 10	172	< 10	14	10
697681	< 0.01	< 10	6.43	0.009	0.007	< 0.01	9	9	49	< 0.01	< 20	2	< 2	< 10	46	< 10	2	2
697682	< 0.01	< 10	8.09	0.010	0.009	0.01	9	10	69	< 0.01	< 20	< 1	< 2	< 10	40	< 10	2	3
697683	< 0.01	< 10	7.64	0.010	0.007	0.02	12	10	38	< 0.01	< 20	< 1	< 2	< 10	47	< 10	1	2
697684	< 0.01	< 10	8.06	0.009	0.006	0.14	11	9	53	< 0.01	< 20	< 1	< 2	< 10	36	< 10	2	2
697685	< 0.01	< 10	7.17	0.008	0.006	0.37	11	8	59	< 0.01	< 20	< 1	< 2	< 10	35	< 10	1	2

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PK2 Meas	4840	5980	4770																				
PK2 Cert	4785	5918	4749																				
OREAS 45d (Aqua Regia) Meas						335	399		188	13	34	5.50	6		79		< 2	0.09	29	459	13.2	20	
OREAS 45d (Aqua Regia) Cert						345.0	400.000		176.0	17.00	30.6	4.860	6.50		80		0.30	0.09	26.2	467	13.650	17.9	
OREAS 922 (AQUA REGIA) Meas				0.7	< 0.5	2310	750	< 1	34	67	258	2.79	8		76	0.7	8	0.41	20	45	5.09	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2220	747	< 1	34	60	256	2.79	6		79	0.7	7	0.40	20	46	5.08	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 923 (AQUA REGIA) Meas				1.6	< 0.5	4480	828	< 1	32	77	325	2.74	8		55	0.7	15	0.40	22	42	5.71	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 923 (AQUA REGIA) Meas				1.6	0.6	4420	865	< 1	31	81	335	2.86	8		65	0.6	14	0.40	23	41	5.98	< 10	
OREAS 923 (AQUA REGIA) Cert				1.62	0.40	4248	850	0.84	32.7	81	335	2.80	7.07		54	0.61	21.8	0.326	22.2	39.4	5.91	8.01	
OREAS 907 (Aqua Regia) Meas				1.2	0.7	6400	325	5	7	34	142	1.18	37		237	1.0	20	0.28	46	11	7.84	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4660	1870	1170																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				67.0	285	3640	507	13	24	> 5000	> 10000	1.66	78			0.6	5	1.63	29	32	3.29	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1870	1670	219																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	2020	1650	212																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1970	1640	235																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1920	1650	212																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45f (Aqua Regia) Meas						339	172	< 1	214	9	26	7.19			150	1.0	< 2	0.07	42	344	13.4	20	2
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.3	< 0.5	93	514	< 1	75	35	130	1.82	32		181	1.4	< 2	1.11	33	58	3.75	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
OREAS 130 (Aqua Regia) Meas				5.9	29.0	230	1530	7	32	1240	> 10000	1.17	209				3	1.67	27	25	6.71	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
OREAS 130 (Aqua Regia) Meas				5.8	28.8	220	1510	7	32	1240	> 10000	1.15	196				3	1.62	26	23	6.75	< 10	1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
Oreas 623 (Aqua Regia) Meas				19.0	50.9	> 10000	527	8	13	2220	8890	1.72	79			< 0.5	6	1.00	207	17	11.9	10	1
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
Oreas 623 (Aqua Regia) Meas				17.8	50.5	> 10000	522	7	15	2200	8850	1.69	74			< 0.5	5	0.93	190	17	11.8	10	2
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
697561 Orig	5	< 5	< 5																				
697561 Dup	< 2	< 5	< 5																				
697564 Orig				< 0.2	< 0.5	27	1190	< 1	11	< 2	59	2.63	< 2	< 10	60	< 0.5	< 2	3.84	35	6	7.28	10	< 1
697564 Dup				< 0.2	< 0.5	26	1160	< 1	11	< 2	57	2.53	< 2	< 10	58	< 0.5	< 2	3.76	34	6	7.04	< 10	< 1
697580 Orig				0.3	< 0.5	29	1270	< 1	4	< 2	79	1.19	< 2	< 10	15	< 0.5	< 2	3.88	43	4	9.36	< 10	< 1
697580 Dup				< 0.2	< 0.5	27	1260	< 1	5	< 2	70	1.16	< 2	< 10	24	< 0.5	< 2	3.79	41	4	9.27	< 10	< 1
697581 Orig	281	< 5	< 5																				
697581 Dup	410	< 5	< 5																				
697593 Orig				< 0.2	< 0.5	76	1000	< 1	21	< 2	93	2.52	3	< 10	48	< 0.5	< 2	4.07	35	16	6.35	< 10	< 1
697593 Dup				< 0.2	< 0.5	81	1010	< 1	22	< 2	90	2.56	3	< 10	48	< 0.5	< 2	4.16	36	17	6.49	< 10	< 1
697596 Orig	6	< 5	< 5																				
697596 Dup	5	< 5	< 5																				
697651 Orig	19	< 5	< 5	< 0.2	< 0.5	68	926	< 1	29	< 2	42	2.82	2	< 10	32	< 0.5	< 2	4.56	34	46	5.09	< 10	< 1
697651 Split PREP DUP	16	< 5	< 5	< 0.2	< 0.5	71	932	< 1	29	< 2	43	2.84	< 2	< 10	32	< 0.5	< 2	4.41	32	46	5.15	< 10	< 1
697654 Orig				< 0.2	< 0.5	54	842	< 1	34	< 2	45	2.75	4	< 10	65	< 0.5	< 2	4.06	31	76	4.47	< 10	< 1
697654 Dup				< 0.2	< 0.5	56	857	< 1	36	< 2	45	2.79	< 2	< 10	65	< 0.5	< 2	4.17	32	78	4.50	< 10	< 1
697655 Orig	4	< 5	< 5																				
697655 Dup	3	< 5	< 5																				
697665 Orig	19	< 5	< 5																				
697665 Dup	19	< 5	< 5																				
697671 Orig				< 0.2	< 0.5	23	1140	< 1	207	< 2	21	2.04	5	< 10	< 10	< 0.5	< 2	2.91	74	1280	6.11	< 10	< 1
697671 Dup				< 0.2	< 0.5	24	1160	< 1	216	< 2	24	2.13	6	< 10	< 10	< 0.5	< 2	2.94	75	1300	6.30	< 10	< 1
697681 Orig	3	6	14																				
697681 Dup	< 2	5	13																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	2	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
PK2 Meas																		
PK2 Cert																		
OREAS 45d (Aqua Regia) Meas	0.11	11	0.15	0.038	0.032	0.04		40	12		< 20			< 10	190		4	
OREAS 45d (Aqua Regia) Cert	0.097	9.960	0.144	0.031	0.035	0.045		41.50	11.0		11.3			1.64	201.0		5.08	
OREAS 922 (AQUA REGIA) Meas	0.44	36	1.34	0.025	0.064	0.39	2	4	17		< 20		< 2	< 10	35	< 10	19	8
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.45	36	1.32	0.025	0.063	0.38	2	3	16		< 20		< 2	< 10	35	< 10	19	3
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 923 (AQUA REGIA) Meas	0.37	32	1.41		0.059	0.69	2	3	14		< 20		< 2	< 10	34	< 10	17	4
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 923 (AQUA REGIA) Meas	0.37	34	1.40		0.058	0.72	3	3	14		< 20		< 2	< 10	34	< 10	17	4
OREAS 923 (AQUA REGIA) Cert	0.322	30.0	1.43		0.061	0.684	0.58	3.09	13.6		14.3		0.12	1.80	30.6	1.96	14.3	22.5
OREAS 907 (Aqua Regia) Meas	0.35	36	0.22	0.096	0.022	0.06	5	2	13	0.02	< 20	4	< 2	< 10	5	< 10	7	9
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.34	18	0.42	0.184	0.032	4.40	80	2	18		< 20		< 2	< 10	12	< 10	7	39
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 45f (Aqua Regia) Meas	0.10	12	0.17	0.041	0.020	0.02		29	15	0.12	< 20		< 2	< 10	202		6	17
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.37		0.62	0.091	0.043	0.12	7	4	19		< 20	< 1	< 2	< 10	28		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
OREAS 130 (Aqua Regia) Meas	0.53	22	0.88		0.083	6.00	7	3	20	0.03	< 20	< 1	3	< 10	37	10	12	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
OREAS 130 (Aqua Regia) Meas	0.50	22	0.85		0.081	6.01	5	3	18	0.03	< 20	< 1	3	< 10	36	12	11	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
Oreas 623 (Aqua Regia) Meas	0.17	17	1.04	0.081	0.043	8.48	24	4	14		< 20	1	< 2	< 10	16	< 10	8	60
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
Oreas 623 (Aqua Regia) Meas	0.16	16	0.95	0.078	0.040	8.46	19	4	13		< 20	3	< 2	< 10	16	< 10	7	58
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
697561 Orig																		
697561 Dup																		
697564 Orig	0.18	< 10	2.58	0.146	0.035	0.24	2	20	21	0.14	< 20	< 1	< 2	< 10	201	< 10	11	4
697564 Dup	0.17	< 10	2.52	0.138	0.034	0.22	3	19	20	0.13	< 20	2	< 2	< 10	194	< 10	11	4
697580 Orig	0.22	< 10	1.73	0.064	0.035	2.19	3	15	20	0.13	< 20	1	< 2	< 10	287	< 10	9	6
697580 Dup	0.21	< 10	1.69	0.063	0.035	2.10	4	15	20	0.12	< 20	< 1	< 2	< 10	282	< 10	8	6
697581 Orig																		
697581 Dup																		
697593 Orig	0.13	< 10	3.00	0.109	0.016	0.77	4	19	25	0.09	< 20	4	< 2	< 10	155	< 10	4	3
697593 Dup	0.14	< 10	3.09	0.112	0.017	0.80	3	19	26	0.09	< 20	1	< 2	< 10	157	< 10	4	3
697596 Orig																		
697596 Dup																		
697651 Orig	0.15	< 10	3.47	0.164	0.013	0.16	3	13	43	0.06	< 20	< 1	< 2	< 10	122	< 10	3	2
697651 Split PREP DUP	0.15	< 10	3.43	0.169	0.013	0.16	3	13	43	0.06	< 20	< 1	< 2	< 10	122	< 10	3	2
697654 Orig	0.18	< 10	3.65	0.119	0.010	0.11	< 2	11	29	0.06	< 20	< 1	< 2	< 10	91	< 10	2	2
697654 Dup	0.18	< 10	3.78	0.118	0.010	0.12	3	12	30	0.06	< 20	< 1	< 2	< 10	95	< 10	3	2
697655 Orig																		
697655 Dup																		
697665 Orig																		
697665 Dup																		
697671 Orig	< 0.01	< 10	5.15	0.008	0.009	0.54	11	13	32	0.01	< 20	< 1	< 2	< 10	81	< 10	1	2
697671 Dup	< 0.01	< 10	5.34	0.009	0.009	0.55	10	13	33	0.02	< 20	< 1	< 2	< 10	83	< 10	1	4
697681 Orig																		
697681 Dup																		
Method Blank																		
Method Blank																		
Method Blank																		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank																		
Method Blank																		

Quality Analysis ... *Innovative Technologies*

Report No.: **A20-13823**
Report Date: **01-Feb-21**
Date Submitted: **02-Nov-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

92 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1C-OES-Timmins	QOP PGE-OES (Fire Assay ICPOES)	2021-01-04 16:14:34

REPORT **A20-13823**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
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TELEPHONE +705 264-0123 or +1.888.228.5227 FAX +1.905.648.9613
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Report No.: **A20-13823**
Report Date: **01-Feb-21**
Date Submitted: **02-Nov-20**
Your Reference: **Project 81- Dargravel**

Noble Mineral Exploration
2500-120 Adelaide Street West
Toronto ON M5H 1T1
Canada

ATTN: Vance White

CERTIFICATE OF ANALYSIS

92 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
1E3	QOP AquaGeo (Aqua Regia ICPOES)	2020-12-24 12:59:39

REPORT **A20-13823**

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Notes:

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

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator

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Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697686	5	15	39	< 0.2	< 0.5	9	972	< 1	316	< 2	8	1.20	7	< 10	< 10	< 0.5	< 2	1.84	56	1260	4.91	< 10	< 1
697687	5	17	40	< 0.2	< 0.5	19	950	< 1	340	< 2	8	1.25	8	< 10	< 10	< 0.5	< 2	1.96	45	1280	4.90	< 10	< 1
697688	8	18	46	< 0.2	< 0.5	11	1070	< 1	344	< 2	7	1.20	< 2	< 10	< 10	< 0.5	3	1.22	40	1390	5.20	< 10	< 1
697689	6	13	33	< 0.2	< 0.5	7	1070	< 1	307	< 2	7	1.07	< 2	< 10	< 10	< 0.5	< 2	2.08	37	1300	4.86	< 10	< 1
697690	4	10	40	< 0.2	< 0.5	13	941	< 1	302	< 2	7	1.10	< 2	< 10	< 10	< 0.5	< 2	1.44	36	1490	4.92	< 10	< 1
697691	4	8	28	< 0.2	< 0.5	14	1120	< 1	288	< 2	9	1.08	3	< 10	12	< 0.5	3	3.59	45	1230	4.11	< 10	< 1
697692	< 2	< 5	8	< 0.2	< 0.5	8	1010	< 1	310	< 2	7	1.11	< 2	< 10	13	< 0.5	< 2	2.38	26	1310	4.02	< 10	< 1
697693	4	9	20	< 0.2	< 0.5	11	1030	< 1	338	3	8	1.18	18	< 10	< 10	< 0.5	< 2	3.77	50	1450	4.25	< 10	< 1
697694	5	16	39	< 0.2	< 0.5	17	891	< 1	288	< 2	7	1.28	4	< 10	12	< 0.5	< 2	2.13	46	1340	4.88	< 10	< 1
697695	6	16	40	< 0.2	< 0.5	21	1010	< 1	347	2	13	2.02	< 2	< 10	24	< 0.5	2	3.17	37	1660	5.16	< 10	< 1
697696	< 2	< 5	< 5	< 0.2	< 0.5	< 1	113	< 1	< 1	< 2	21	4.21	3	< 10	< 10	< 0.5	< 2	0.22	< 1	3	0.65	< 10	< 1
697697	3	25	47	< 0.2	< 0.5	10	1060	< 1	333	< 2	8	1.26	< 2	< 10	23	< 0.5	< 2	2.44	40	1270	5.06	< 10	< 1
697698	3	22	47	< 0.2	< 0.5	21	968	< 1	310	< 2	8	1.28	< 2	< 10	23	< 0.5	< 2	1.51	41	1260	5.04	< 10	< 1
697699	< 2	14	33	< 0.2	< 0.5	11	922	< 1	246	< 2	7	1.15	3	< 10	17	< 0.5	2	3.10	34	1320	4.60	< 10	< 1
697700	539	14	10	0.2	< 0.5	154	710	< 1	64	< 2	63	3.51	6	53	20	< 0.5	< 2	3.28	30	85	6.11	10	< 1
697801	5	14	39	< 0.2	< 0.5	43	1060	< 1	338	< 2	9	1.40	2	< 10	< 10	< 0.5	3	1.65	40	1510	5.50	< 10	< 1
697802	4	12	37	< 0.2	< 0.5	33	1140	< 1	368	< 2	10	1.52	< 2	< 10	< 10	< 0.5	2	2.30	46	1470	5.45	< 10	< 1
697803	5	15	49	< 0.2	< 0.5	27	1050	< 1	356	< 2	11	1.73	5	< 10	23	< 0.5	4	2.86	45	1520	5.23	< 10	< 1
697804	5	12	43	< 0.2	< 0.5	42	1000	< 1	376	< 2	9	1.36	8	< 10	11	< 0.5	< 2	2.37	59	1300	5.09	< 10	< 1
697805	6	8	30	< 0.2	< 0.5	37	962	< 1	343	< 2	7	1.22	3	< 10	11	< 0.5	3	2.34	69	1300	4.77	< 10	< 1
697806	6	< 5	8	< 0.2	< 0.5	33	990	< 1	390	< 2	7	1.16	< 2	< 10	14	< 0.5	2	3.04	53	1260	4.12	< 10	< 1
697807	9	< 5	5	< 0.2	< 0.5	86	875	< 1	325	< 2	10	1.37	2	< 10	27	< 0.5	3	3.90	48	1620	4.50	< 10	< 1
697808	18	< 5	< 5	< 0.2	< 0.5	196	1040	< 1	138	< 2	54	2.52	2	< 10	132	< 0.5	< 2	4.95	39	795	5.69	< 10	< 1
697809	24	< 5	19	< 0.2	< 0.5	199	723	< 1	66	< 2	20	0.85	< 2	< 10	< 10	< 0.5	< 2	3.90	35	424	3.05	< 10	< 1
697810	26	13	66	< 0.2	< 0.5	195	678	< 1	79	< 2	20	0.95	4	< 10	< 10	< 0.5	< 2	3.73	36	441	2.87	< 10	< 1
697811	18	37	108	< 0.2	< 0.5	168	528	< 1	87	< 2	20	0.90	5	< 10	< 10	< 0.5	< 2	2.96	47	420	2.91	< 10	< 1
697812	17	19	84	< 0.2	< 0.5	167	392	< 1	88	< 2	15	0.74	7	< 10	< 10	< 0.5	< 2	2.18	46	412	2.58	< 10	< 1
697813	16	< 5	38	< 0.2	< 0.5	212	297	2	183	< 2	22	1.47	4	< 10	< 10	< 0.5	< 2	1.18	72	362	3.77	< 10	< 1
697814	15	< 5	9	< 0.2	< 0.5	243	451	< 1	80	< 2	14	0.56	3	< 10	< 10	< 0.5	< 2	2.43	46	353	2.60	< 10	< 1
697815	14	< 5	7	< 0.2	< 0.5	229	407	< 1	61	< 2	12	0.40	5	< 10	< 10	< 0.5	< 2	2.35	38	254	1.88	< 10	< 1
697816	35	< 5	35	0.2	< 0.5	729	516	< 1	79	< 2	15	0.68	3	< 10	< 10	< 0.5	< 2	3.31	51	374	2.40	< 10	< 1
697817	11	10	44	< 0.2	< 0.5	194	321	< 1	155	< 2	24	1.48	9	< 10	< 10	< 0.5	< 2	1.40	57	605	3.14	< 10	< 1
697818	12	5	6	< 0.2	< 0.5	237	435	< 1	101	< 2	16	0.94	3	< 10	< 10	< 0.5	< 2	2.32	50	395	2.50	< 10	< 1
697819	8	< 5	8	< 0.2	< 0.5	161	869	< 1	152	< 2	37	1.87	3	< 10	12	< 0.5	< 2	5.45	36	934	3.89	< 10	< 1
697820	1160	16	13	0.3	< 0.5	151	703	< 1	75	3	63	3.49	9	51	23	< 0.5	< 2	3.27	31	120	5.98	10	< 1
697821	10	< 5	18	< 0.2	< 0.5	153	937	< 1	219	< 2	57	2.75	2	< 10	16	< 0.5	< 2	5.06	47	1120	5.30	< 10	< 1
697822	< 2	< 5	< 5	< 0.2	< 0.5	5	351	2	26	< 2	35	1.22	< 2	< 10	28	< 0.5	< 2	1.18	12	34	3.14	< 10	< 1
697823	3	< 5	< 5	< 0.2	< 0.5	4	274	< 1	17	< 2	26	0.72	< 2	< 10	70	< 0.5	< 2	1.59	8	18	2.17	< 10	< 1
697824	2	< 5	< 5	< 0.2	< 0.5	6	413	3	19	< 2	45	1.24	< 2	< 10	46	< 0.5	< 2	1.74	9	24	2.78	< 10	< 1
697825	< 2	< 5	< 5	< 0.2	< 0.5	7	503	< 1	14	< 2	45	0.83	< 2	< 10	136	< 0.5	< 2	2.41	6	13	2.09	< 10	< 1
697826	5	< 5	< 5	< 0.2	< 0.5	4	594	2	12	< 2	52	1.07	4	< 10	57	< 0.5	< 2	2.18	11	15	2.23	< 10	< 1
697827	2	< 5	< 5	< 0.2	< 0.5	3	500	< 1	14	< 2	56	1.19	< 2	< 10	149	< 0.5	< 2	2.04	10	15	2.02	< 10	< 1
697828	5	< 5	< 5	< 0.2	< 0.5	8	407	3	16	3	49	0.87	< 2	< 10	27	< 0.5	< 2	1.71	10	11	2.63	< 10	< 1
697829	3	< 5	< 5	< 0.2	< 0.5	9	347	2	19	2	42	1.62	2	< 10	34	< 0.5	< 2	1.74	9	15	2.35	< 10	< 1
697830	3	< 5	< 5	< 0.2	< 0.5	12	327	< 1	17	< 2	38	1.44	< 2	< 10	39	< 0.5	< 2	1.85	8	20	2.41	< 10	< 1
697831	3	< 5	< 5	< 0.2	< 0.5	9	261	< 1	20	< 2	40	1.31	< 2	< 10	45	< 0.5	< 2	1.77	9	17	2.46	< 10	< 1
697832	3	< 5	< 5	< 0.2	< 0.5	4	240	< 1	19	< 2	35	1.15	< 2	< 10	44	< 0.5	< 2	1.29	8	21	2.29	< 10	< 1
697833	9	< 5	< 5	< 0.2	< 0.5	6	238	< 1	21	< 2	60	1.06	< 2	< 10	29	< 0.5	< 2	1.57	13	17	2.78	< 10	< 1
697834	5	< 5	< 5	< 0.2	< 0.5	4	269	1	22	< 2	38	1.10	< 2	< 10	29	< 0.5	< 2	1.39	9	18	2.49	< 10	< 1
697835	3	< 5	< 5	< 0.2	< 0.5	15	278	1	21	< 2	45	1.17	< 2	< 10	44	< 0.5	< 2	1.68	9	19	2.29	< 10	< 1
697836	3	< 5	< 5	< 0.2	< 0.5	8	342	< 1	28	< 2	47	1.09	< 2	< 10	62	< 0.5	< 2	2.11	9	26	2.48	< 10	< 1

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697837	< 2	< 5	< 5	< 0.2	< 0.5	5	348	< 1	19	< 2	36	0.89	< 2	< 10	64	< 0.5	< 2	1.92	9	13	2.26	< 10	< 1
697838	< 2	< 5	< 5	< 0.2	< 0.5	29	389	< 1	18	< 2	47	0.94	3	< 10	126	< 0.5	< 2	1.81	7	20	2.24	< 10	< 1
697839	< 2	< 5	< 5	< 0.2	< 0.5	44	405	< 1	20	< 2	57	1.06	4	< 10	57	< 0.5	< 2	1.69	9	21	2.53	< 10	< 1
697840	573	15	12	0.2	< 0.5	158	691	< 1	62	< 2	61	3.43	5	56	19	< 0.5	< 2	3.26	30	86	6.17	10	< 1
697841	3	< 5	< 5	< 0.2	< 0.5	87	549	< 1	33	< 2	48	1.18	3	< 10	128	< 0.5	< 2	2.76	7	62	2.48	< 10	< 1
697842	5	< 5	< 5	< 0.2	< 0.5	112	632	< 1	63	< 2	64	1.43	9	< 10	135	< 0.5	< 2	2.45	15	175	2.70	< 10	< 1
697843	8	43	57	< 0.2	< 0.5	157	1460	< 1	290	< 2	58	2.15	62	< 10	24	< 0.5	< 2	3.78	74	1270	5.21	< 10	< 1
697844	3	< 5	< 5	< 0.2	< 0.5	90	914	2	43	6	145	3.56	4	< 10	262	0.6	< 2	2.70	17	64	3.71	< 10	< 1
697845	9	< 5	< 5	0.2	4.1	108	640	3	46	2	429	1.29	22	< 10	< 10	< 0.5	< 2	0.58	32	45	6.65	< 10	< 1
697846	89	< 5	< 5	3.6	14.0	116	597	2	26	12	2190	0.83	23	< 10	15	< 0.5	< 2	0.27	18	11	7.05	< 10	< 1
697847	9	< 5	< 5	0.3	2.0	61	516	1	17	3	328	1.09	22	< 10	21	< 0.5	< 2	0.46	9	17	4.16	< 10	< 1
697848	267	< 5	< 5	2.4	< 0.5	12	805	< 1	24	6	100	1.64	5	< 10	92	< 0.5	< 2	0.83	11	35	2.15	< 10	< 1
697849	24	< 5	< 5	0.6	< 0.5	159	1330	< 1	53	5	230	3.29	23	< 10	18	< 0.5	< 2	1.71	36	114	7.57	< 10	< 1
697850	< 2	< 5	< 5	< 0.2	< 0.5	< 1	116	< 1	< 1	< 2	16	4.09	4	< 10	< 10	< 0.5	< 2	0.21	< 1	3	0.68	< 10	< 1
691351	5	< 5	< 5	0.2	2.9	120	1580	< 1	44	2	308	3.74	4	< 10	56	< 0.5	< 2	3.35	42	97	6.57	< 10	< 1
691352	123	< 5	< 5	0.9	35.8	156	1420	< 1	36	3	5440	2.99	64	< 10	< 10	< 0.5	< 2	1.98	67	35	12.4	< 10	< 1
691353	6	< 5	< 5	0.3	0.7	161	1630	< 1	37	7	226	2.95	< 2	< 10	23	< 0.5	< 2	3.05	38	31	7.57	< 10	< 1
691354	6	< 5	< 5	< 0.2	< 0.5	109	1080	< 1	53	< 2	85	2.45	< 2	< 10	< 10	< 0.5	< 2	2.52	29	112	4.50	< 10	< 1
691355	6	< 5	< 5	< 0.2	< 0.5	84	1090	< 1	62	< 2	77	3.06	3	< 10	< 10	< 0.5	< 2	2.93	29	144	5.41	< 10	< 1
691356	10	< 5	< 5	< 0.2	< 0.5	117	1000	< 1	60	< 2	55	2.78	< 2	< 10	< 10	< 0.5	< 2	2.99	27	117	4.18	< 10	< 1
691357	3	< 5	< 5	< 0.2	< 0.5	98	1390	< 1	71	< 2	72	2.54	< 2	< 10	< 10	< 0.5	< 2	2.59	48	97	4.86	< 10	< 1
691358	4	< 5	< 5	< 0.2	< 0.5	133	1560	< 1	79	< 2	91	3.57	< 2	< 10	99	< 0.5	< 2	2.84	40	124	5.76	< 10	< 1
691359	13	< 5	< 5	0.4	< 0.5	194	1390	< 1	70	< 2	72	3.39	< 2	< 10	120	< 0.5	< 2	3.10	39	105	4.29	< 10	< 1
691360	1130	16	14	0.3	< 0.5	153	676	< 1	72	3	61	3.33	8	52	22	< 0.5	< 2	3.19	30	119	5.97	10	< 1
691361	21	< 5	< 5	0.3	< 0.5	80	1250	1	26	< 2	81	1.22	62	< 10	14	< 0.5	< 2	0.70	12	18	7.52	< 10	< 1
691362	9	< 5	< 5	0.8	< 0.5	34	1620	< 1	26	< 2	45	1.30	14	< 10	< 10	< 0.5	3	0.80	13	14	28.1	< 10	< 1
691363	332	< 5	< 5	19.7	1.0	39	2400	1	40	4	128	2.13	24	< 10	< 10	0.8	4	1.74	22	64	17.8	< 10	< 1
691364	76	< 5	< 5	6.4	3.2	67	2330	2	37	4	317	3.18	17	< 10	< 10	0.6	< 2	1.79	12	38	11.2	< 10	< 1
691365	3	< 5	< 5	1.1	1.5	90	2100	< 1	26	4	173	3.90	3	< 10	36	0.8	< 2	2.32	11	29	8.67	< 10	1
691366	< 2	< 5	< 5	< 0.2	< 0.5	21	1780	< 1	27	< 2	128	3.37	< 2	< 10	57	0.7	< 2	1.81	6	34	7.53	< 10	< 1
691367	2	< 5	< 5	< 0.2	< 0.5	38	1570	< 1	27	< 2	171	3.14	3	< 10	25	< 0.5	< 2	0.94	11	38	11.1	< 10	< 1
691368	2	< 5	< 5	< 0.2	< 0.5	10	1070	1	32	2	105	2.87	< 2	< 10	128	0.5	< 2	1.21	7	31	4.73	< 10	< 1
691369	< 2	< 5	< 5	< 0.2	< 0.5	18	1510	< 1	32	< 2	107	3.33	3	< 10	66	0.6	< 2	1.55	9	33	6.19	< 10	< 1
691370	4	< 5	< 5	< 0.2	0.8	37	3450	< 1	40	< 2	246	4.58	< 2	< 10	35	0.7	< 2	3.35	14	43	11.3	10	< 1
691371	< 2	< 5	< 5	< 0.2	0.9	21	2190	< 1	25	< 2	153	3.46	< 2	< 10	72	0.9	< 2	2.42	7	29	6.59	< 10	< 1
691372	3	< 5	< 5	< 0.2	< 0.5	9	1880	< 1	23	< 2	121	3.85	< 2	< 10	59	1.0	< 2	2.47	10	31	5.77	< 10	< 1
691373	< 2	< 5	< 5	< 0.2	< 0.5	8	2000	< 1	29	3	54	2.62	< 2	< 10	304	1.1	< 2	2.72	7	19	2.96	< 10	< 1
691374	5	< 5	< 5	< 0.2	< 0.5	26	3180	2	30	3	84	2.88	12	< 10	21	0.9	< 2	3.44	22	22	6.27	< 10	< 1
691375	5	< 5	< 5	< 0.2	< 0.5	29	2560	< 1	25	4	75	2.86	9	< 10	27	0.8	< 2	3.18	17	29	5.34	< 10	< 1
691376	3	< 5	< 5	< 0.2	< 0.5	12	1280	< 1	32	< 2	85	2.10	7	< 10	69	0.6	< 2	1.43	10	34	3.66	< 10	< 1
691377	15	< 5	< 5	< 0.2	< 0.5	21	2060	< 1	30	< 2	106	3.06	5	< 10	67	0.7	< 2	2.01	10	41	5.48	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697686	< 0.01	< 10	6.95	0.010	0.005	0.50	5	9	56	< 0.01	< 20	< 1	< 2	< 10	38	< 10	1	1
697687	< 0.01	< 10	7.26	0.010	0.006	0.33	6	9	54	< 0.01	< 20	< 1	< 2	< 10	41	< 10	< 1	1
697688	< 0.01	< 10	7.60	0.010	0.007	0.01	6	9	36	< 0.01	< 20	< 1	< 2	< 10	44	< 10	< 1	1
697689	< 0.01	< 10	7.83	0.008	0.005	< 0.01	5	8	70	< 0.01	< 20	< 1	< 2	< 10	39	< 10	< 1	1
697690	< 0.01	< 10	6.53	0.010	0.006	0.01	7	9	49	< 0.01	< 20	< 1	< 2	< 10	47	< 10	< 1	1
697691	< 0.01	< 10	6.01	0.010	0.010	0.32	4	10	156	< 0.01	< 20	< 1	< 2	< 10	39	< 10	2	1
697692	< 0.01	< 10	6.24	0.009	0.002	0.04	6	11	95	< 0.01	< 20	< 1	< 2	< 10	39	< 10	< 1	1
697693	< 0.01	< 10	4.46	0.009	0.005	0.85	7	9	169	< 0.01	< 20	< 1	< 2	< 10	43	< 10	1	1
697694	< 0.01	< 10	5.96	0.011	0.006	0.30	5	8	148	< 0.01	< 20	< 1	< 2	< 10	50	< 10	< 1	2
697695	< 0.01	12	6.45	0.011	0.107	0.01	6	11	238	< 0.01	< 20	< 1	< 2	< 10	66	< 10	5	2
697696	1.30	< 10	0.04	3.26	0.001	< 0.01	< 2	< 1	12	< 0.01	< 20	3	< 2	< 10	< 1	< 10	3	1
697697	< 0.01	< 10	7.36	0.009	0.006	0.02	5	9	169	< 0.01	< 20	< 1	< 2	< 10	47	< 10	1	2
697698	< 0.01	< 10	7.21	0.009	0.005	0.03	7	9	130	< 0.01	< 20	3	< 2	< 10	46	< 10	< 1	1
697699	< 0.01	< 10	5.49	0.011	0.008	0.06	5	9	161	< 0.01	< 20	1	< 2	< 10	49	< 10	2	2
697700	0.04	< 10	1.96	0.088	0.039	0.15	3	8	31	0.47	< 20	< 1	< 2	< 10	185	< 10	13	20
697801	< 0.01	< 10	7.15	0.009	0.008	0.02	8	9	48	< 0.01	< 20	< 1	< 2	< 10	55	< 10	1	2
697802	< 0.01	< 10	7.60	0.009	0.011	0.14	6	10	62	< 0.01	< 20	2	< 2	< 10	50	< 10	1	2
697803	< 0.01	< 10	6.75	0.011	0.053	0.14	7	10	89	< 0.01	< 20	4	< 2	< 10	56	< 10	2	2
697804	< 0.01	< 10	7.00	0.011	0.007	0.47	6	10	58	< 0.01	< 20	1	< 2	< 10	51	< 10	< 1	2
697805	< 0.01	< 10	6.83	0.010	0.006	0.63	5	10	51	< 0.01	< 20	< 1	< 2	< 10	46	< 10	< 1	1
697806	< 0.01	< 10	6.62	0.008	0.007	0.48	5	11	410	< 0.01	< 20	2	< 2	< 10	39	< 10	1	1
697807	0.01	< 10	4.23	0.008	0.006	0.49	7	12	62	< 0.01	< 20	< 1	< 2	< 10	64	< 10	< 1	2
697808	0.58	< 10	5.76	0.030	0.011	0.45	5	18	81	0.09	< 20	< 1	< 2	< 10	144	< 10	2	3
697809	0.02	< 10	2.42	0.077	0.016	0.73	2	8	28	0.05	< 20	2	< 2	< 10	57	< 10	3	3
697810	0.02	< 10	2.43	0.092	0.014	0.83	2	8	21	0.02	< 20	< 1	< 2	< 10	48	< 10	3	3
697811	0.01	< 10	2.27	0.079	0.013	1.24	< 2	7	21	0.01	< 20	< 1	< 2	< 10	45	< 10	2	3
697812	0.01	< 10	1.81	0.068	0.012	1.34	2	6	13	0.01	< 20	3	< 2	< 10	36	< 10	2	3
697813	< 0.01	< 10	2.47	0.028	0.011	2.40	< 2	2	10	< 0.01	< 20	< 1	< 2	< 10	35	< 10	< 1	2
697814	0.01	< 10	1.68	0.086	0.012	1.40	3	7	14	0.01	< 20	1	< 2	< 10	37	< 10	2	3
697815	< 0.01	< 10	1.30	0.054	0.011	1.04	< 2	4	16	< 0.01	< 20	< 1	< 2	< 10	26	< 10	2	2
697816	< 0.01	< 10	1.78	0.050	0.012	1.18	2	5	34	< 0.01	< 20	2	< 2	< 10	34	< 10	2	2
697817	< 0.01	< 10	2.68	0.055	0.010	1.24	3	5	13	0.01	< 20	1	< 2	< 10	39	< 10	1	3
697818	< 0.01	< 10	2.08	0.042	0.011	1.21	< 2	3	38	< 0.01	< 20	< 1	< 2	< 10	25	< 10	1	2
697819	0.01	< 10	4.83	0.032	0.009	0.63	4	9	146	0.01	< 20	< 1	< 2	< 10	71	< 10	2	2
697820	0.06	< 10	2.05	0.086	0.038	0.20	2	8	31	0.45	< 20	2	< 2	< 10	176	< 10	13	20
697821	0.02	< 10	6.10	0.014	0.022	1.25	6	17	150	0.02	< 20	< 1	< 2	< 10	113	< 10	2	7
697822	0.55	25	1.28	0.085	0.092	2.35	< 2	3	23	0.05	< 20	< 1	< 2	< 10	31	< 10	5	22
697823	0.25	28	0.94	0.048	0.093	1.51	< 2	1	31	0.02	< 20	2	< 2	< 10	16	< 10	5	19
697824	0.48	28	0.99	0.154	0.089	1.15	< 2	2	43	0.05	< 20	< 1	< 2	< 10	26	< 10	5	6
697825	0.28	37	0.95	0.062	0.104	0.66	< 2	2	37	0.04	< 20	2	< 2	< 10	19	< 10	7	6
697826	0.30	26	0.83	0.084	0.086	1.07	2	1	39	0.02	< 20	< 1	< 2	< 10	15	< 10	6	4
697827	0.41	29	1.01	0.049	0.093	0.64	< 2	2	31	0.05	< 20	4	< 2	< 10	20	< 10	6	10
697828	0.32	33	1.03	0.050	0.104	2.12	< 2	1	32	0.02	< 20	< 1	< 2	< 10	14	< 10	6	6
697829	0.48	26	1.16	0.156	0.091	1.55	< 2	1	79	0.04	< 20	3	< 2	< 10	19	< 10	5	9
697830	0.49	28	1.24	0.107	0.092	1.26	< 2	2	57	0.05	< 20	2	< 2	< 10	24	< 10	5	9
697831	0.40	28	1.12	0.097	0.095	1.51	< 2	2	56	0.05	< 20	< 1	< 2	< 10	23	< 10	5	13
697832	0.47	27	1.04	0.078	0.093	1.21	< 2	2	34	0.06	< 20	1	< 2	< 10	27	< 10	5	12
697833	0.41	31	1.10	0.055	0.130	1.85	< 2	2	32	0.05	< 20	< 1	< 2	< 10	24	< 10	6	11
697834	0.44	27	1.08	0.060	0.095	1.53	< 2	2	32	0.05	< 20	2	< 2	< 10	23	< 10	5	11
697835	0.33	28	1.06	0.050	0.092	1.38	< 2	1	40	0.04	< 20	2	< 2	< 10	20	< 10	5	13
697836	0.26	28	1.08	0.048	0.096	1.37	< 2	1	39	0.02	< 20	< 1	< 2	< 10	16	< 10	5	10

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
697837	0.24	28	0.97	0.042	0.091	1.34	< 2	1	32	0.02	< 20	2	< 2	< 10	14	< 10	5	8
697838	0.38	28	1.02	0.067	0.091	0.71	< 2	2	33	0.05	< 20	3	< 2	< 10	25	< 10	5	10
697839	0.54	31	1.11	0.055	0.097	0.86	< 2	2	27	0.08	< 20	1	< 2	< 10	26	< 10	6	9
697840	0.04	< 10	1.97	0.094	0.038	0.15	2	8	32	0.46	< 20	3	< 2	< 10	181	< 10	13	18
697841	0.32	28	1.41	0.053	0.107	0.50	< 2	3	44	0.04	< 20	3	< 2	< 10	25	< 10	7	4
697842	0.48	26	2.11	0.044	0.086	0.60	< 2	4	53	0.05	< 20	< 1	< 2	< 10	32	< 10	5	5
697843	0.09	< 10	4.71	0.015	0.020	1.61	6	13	95	0.03	< 20	< 1	< 2	< 10	61	< 10	1	7
697844	1.30	37	1.92	0.271	0.124	0.32	3	5	123	0.13	< 20	2	< 2	< 10	41	< 10	8	3
697845	0.20	11	0.73	0.044	0.033	3.72	3	2	20	0.04	< 20	< 1	< 2	< 10	19	< 10	5	15
697846	0.14	11	0.42	0.022	0.030	4.14	3	1	8	0.03	< 20	8	< 2	< 10	13	< 10	6	16
697847	0.14	< 10	0.61	0.023	0.029	2.07	< 2	1	8	0.04	< 20	4	< 2	< 10	13	< 10	5	11
697848	0.38	< 10	0.73	0.072	0.035	0.26	< 2	3	24	0.09	< 20	10	< 2	< 10	29	< 10	5	7
697849	0.75	< 10	1.99	0.195	0.026	2.84	4	11	45	0.16	< 20	3	< 2	< 10	141	< 10	7	4
697850	1.26	< 10	0.03	3.17	0.001	< 0.01	< 2	< 1	11	< 0.01	< 20	3	< 2	< 10	< 1	< 10	3	1
691351	0.46	< 10	2.54	0.214	0.026	1.13	4	13	62	0.20	< 20	3	< 2	< 10	158	< 10	8	2
691352	0.70	< 10	1.84	0.209	0.025	8.98	5	9	33	0.15	< 20	< 1	< 2	< 10	145	< 10	6	5
691353	0.22	< 10	2.39	0.200	0.030	1.93	3	11	32	0.15	< 20	1	< 2	< 10	146	< 10	6	3
691354	0.01	< 10	2.26	0.178	0.025	0.25	< 2	11	21	0.11	< 20	< 1	< 2	< 10	108	< 10	5	1
691355	0.02	< 10	3.27	0.204	0.019	0.08	< 2	16	18	0.16	< 20	< 1	< 2	< 10	121	< 10	7	2
691356	0.02	< 10	2.43	0.246	0.026	0.09	2	11	43	0.13	< 20	< 1	< 2	< 10	94	< 10	5	1
691357	0.02	< 10	2.34	0.198	0.025	0.42	3	12	16	0.13	< 20	< 1	< 2	< 10	108	< 10	5	2
691358	0.28	< 10	2.34	0.365	0.024	0.77	4	14	49	0.17	< 20	< 1	< 2	< 10	142	< 10	5	2
691359	0.31	< 10	1.90	0.402	0.026	0.53	< 2	11	56	0.14	< 20	< 1	< 2	< 10	113	< 10	5	2
691360	0.05	< 10	2.04	0.090	0.037	0.20	3	8	30	0.44	< 20	5	< 2	< 10	174	< 10	12	19
691361	0.20	< 10	0.82	0.051	0.018	4.06	3	2	13	0.04	< 20	2	< 2	< 10	23	< 10	3	11
691362	0.05	< 10	1.24	0.021	0.021	6.36	13	< 1	13	0.03	< 20	< 1	< 2	< 10	20	< 10	3	17
691363	0.56	19	1.58	0.148	0.048	7.34	7	3	46	0.05	< 20	20	< 2	< 10	24	< 10	7	38
691364	0.88	16	1.82	0.221	0.036	5.64	4	4	71	0.06	< 20	8	< 2	< 10	30	< 10	8	33
691365	0.91	23	1.35	0.342	0.045	1.94	3	3	97	0.08	< 20	4	< 2	< 10	30	< 10	7	26
691366	0.83	21	1.30	0.308	0.046	1.13	3	3	90	0.07	< 20	< 1	< 2	< 10	29	< 10	5	24
691367	0.60	18	1.46	0.188	0.051	2.67	5	3	56	0.07	< 20	< 1	< 2	< 10	37	< 10	5	26
691368	0.76	28	1.04	0.310	0.070	0.58	< 2	3	69	0.08	< 20	< 1	< 2	< 10	25	< 10	7	15
691369	0.97	24	1.07	0.365	0.055	1.07	3	3	76	0.08	< 20	< 1	< 2	< 10	27	< 10	5	25
691370	1.18	23	2.15	0.201	0.079	1.92	5	4	101	0.08	< 20	< 1	< 2	< 10	37	< 10	8	17
691371	1.10	21	1.46	0.266	0.049	0.90	< 2	2	81	0.07	< 20	< 1	< 2	< 10	22	< 10	5	21
691372	1.12	23	1.29	0.263	0.057	0.82	< 2	3	98	0.07	< 20	< 1	< 2	< 10	24	< 10	6	16
691373	0.73	27	0.94	0.206	0.070	0.24	< 2	1	94	0.06	< 20	1	< 2	< 10	14	< 10	6	8
691374	0.90	18	1.53	0.205	0.060	2.66	2	2	89	0.06	< 20	1	< 2	< 10	20	< 10	7	21
691375	0.95	18	1.50	0.194	0.054	1.97	3	2	84	0.06	< 20	2	< 2	< 10	19	< 10	6	18
691376	0.85	24	0.91	0.174	0.076	0.96	< 2	2	46	0.08	< 20	< 1	< 2	< 10	22	< 10	6	10
691377	1.04	22	1.19	0.266	0.080	1.02	3	3	73	0.09	< 20	< 1	< 2	< 10	31	< 10	6	10

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Meas				0.8	< 0.5	2170	747	< 1	34	59	248	2.69	8		87	0.7	7	0.42	19	44	5.15	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 922 (AQUA REGIA) Meas				0.7	< 0.5	2170	763	< 1	35	64	265	2.77	5		90	0.8	8	0.44	19	44	5.21	< 10	
OREAS 922 (AQUA REGIA) Cert				0.851	0.28	2176	730	0.69	34.3	60	256	2.72	6.12		70	0.65	10.3	0.324	19.4	40.7	5.05	7.62	
OREAS 520 (Aqua Regia) Meas						2720	2060	54	67	5	20	1.47	141			0.6	< 2	3.55	176	33	15.5	10	
OREAS 520 (Aqua Regia) Cert						2960	2280	62.0	73.0	5.22	20.7	1.56	152			0.540	2.90	3.84	196	37.4	15.74	13.7	
OREAS 907 (Aqua Regia) Meas				1.2	0.6	6470	346	5	7	35	154	1.25	38		261	1.0	17	0.29	47	9	8.35	20	
OREAS 907 (Aqua Regia) Cert				1.30	0.540	6370	330	5.64	4.74	34.1	139	0.945	37.0		225	0.870	22.3	0.280	43.7	8.59	8.18	14.7	
CDN-PGMS-27 Meas	4530	2020	1290																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4920	2060	1310																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				64.9	282	3620	533	13	25	> 5000	> 10000	1.77	79			0.6	5	1.71	29	30	3.51	< 10	4
Oreas 621 (Aqua Regia) Cert				68.0	278	3660	520	13.3	25.8	13600	51700	1.60	75.0			0.530	3.85	1.65	27.9	31.3	3.43	9.29	3.93
CDN-PGMS-30 Meas	1920	1700	233																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1960	1780	228																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
CDN-PGMS-30 Meas	1860	1690	225																				
CDN-PGMS-30 Cert	1897.000	1660.000	223.000																				
OREAS 45f (Aqua Regia) Meas						338	175	1	220	8	26	7.13			155	1.1	< 2	0.08	40	350	13.9	20	1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 45f (Aqua Regia) Meas						346	184	1	233	10	29	7.51			159	1.1	< 2	0.08	41	354	14.0	20	1
OREAS 45f (Aqua Regia) Cert						336	150	1.19	192	12.4	22.2	4.81			158	0.980	0.170	0.0750	39.2	341	13.7	20.3	0.0310
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	89	502	< 1	72	34	128	1.98	34		211	1.4	< 2	1.10	33	60	3.94	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	88	512	< 1	74	35	135	1.91	32		204	1.3	< 2	1.09	33	57	3.83	< 10	< 1
OREAS 263 (Aqua Regia) Cert				0.285	0.270	87.0	490	0.570	72.0	34.0	127	1.29	30.8		175	1.22	0.570	1.03	31.0	48.0	3.68	4.92	0.170
OREAS 130 (Aqua Regia) Meas				5.9	29.1	227	1560	7	34	1230	> 10000	1.16	210				3	1.63	27	25	7.11	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
OREAS 130 (Aqua Regia) Meas				5.6	28.0	222	1610	7	35	1290	> 10000	1.22	205				3	1.70	26	28	6.99	< 10	< 1
OREAS 130 (Aqua Regia) Cert				6.27	28.8	226	1630	8.25	35.2	1300	16900	1.10	205				3.05	1.81	27.1	23.2	7.27	4.78	0.670
Oreas 623 (Aqua Regia) Meas				18.1	48.7	> 10000	535	8	13	2240	9290	1.71	78			< 0.5	4	1.04	210	13	12.5	10	1
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
Oreas 623 (Aqua Regia) Meas				17.8	48.0	> 10000	529	7	14	2250	9250	1.66	74			< 0.5	< 2	1.03	206	13	12.1	10	1
Oreas 623 (Aqua Regia) Cert				20.4	52.0	17200	570	8.38	15.6	2520	10100	1.80	76.0			0.370	16.9	1.09	216	19.4	13.0	11.9	0.830
697692 Orig				< 0.2	< 0.5	7	997	< 1	309	< 2	8	1.09	< 2	< 10	13	< 0.5	< 2	2.36	26	1290	3.97	< 10	< 1
697692 Dup				< 0.2	< 0.5	8	1020	< 1	310	< 2	7	1.13	< 2	< 10	13	< 0.5	< 2	2.40	26	1330	4.08	< 10	< 1
697695 Orig	6	16	40																				
697695 Dup	5	16	41																				
697805 Orig	6	8	28																				
697805 Dup	7	8	31																				
697809 Orig				< 0.2	< 0.5	196	713	< 1	66	< 2	19	0.85	< 2	< 10	< 10	< 0.5	< 2	3.87	36	418	3.03	< 10	< 1
697809 Dup				< 0.2	< 0.5	203	733	< 1	67	< 2	20	0.86	< 2	< 10	< 10	< 0.5	< 2	3.94	35	430	3.07	< 10	< 1
697815 Orig	14	< 5	7																				
697815 Dup	14	< 5	8																				
697825 Orig	< 2	< 5	< 5																				
697825 Dup	< 2	< 5	< 5																				
697831 Orig				< 0.2	< 0.5	9	260	< 1	20	< 2	40	1.29	< 2	< 10	49	< 0.5	< 2	1.77	9	17	2.44	< 10	< 1
697831 Dup				< 0.2	< 0.5	9	261	< 1	20	< 2	40	1.32	< 2	< 10	40	< 0.5	< 2	1.77	10	17	2.48	< 10	< 1
697835 Orig	3	< 5	< 5	< 0.2	< 0.5	15	278	1	21	< 2	45	1.17	< 2	< 10	44	< 0.5	< 2	1.68	9	19	2.29	< 10	< 1
697835 Split PREP DUP	4	< 5	< 5	< 0.2	< 0.5	15	279	< 1	21	< 2	47	1.15	< 2	< 10	43	< 0.5	< 2	1.68	9	19	2.25	< 10	< 1
697835 Orig	4	< 5	< 5																				
697835 Dup	3	< 5	< 5																				
697838 Orig				< 0.2	< 0.5	29	384	< 1	18	< 2	47	0.92	2	< 10	112	< 0.5	< 2	1.79	7	20	2.22	< 10	< 1
697838 Dup				< 0.2	< 0.5	30	394	< 1	19	< 2	48	0.96	4	< 10	140	< 0.5	< 2	1.83	7	20	2.26	< 10	< 1
697844 Orig	3	< 5	< 5																				
697844 Dup	3	< 5	< 5																				
691352 Orig				0.9	36.1	158	1430	< 1	37	3	5450	3.06	66	< 10	< 10	< 0.5	< 2	2.14	68	35	12.6	< 10	< 1
691352 Dup				0.9	35.5	153	1410	< 1	36	3	5440	2.93	61	< 10	< 10	< 0.5	< 2	1.82	66	34	12.2	< 10	< 1
691364 Orig	79	< 5	< 5																				
691364 Dup	74	< 5	< 5																				
691370 Orig				< 0.2	0.9	37	3410	< 1	41	< 2	245	4.54	< 2	< 10	34	0.7	< 2	3.32	14	42	11.3	10	< 1
691370 Dup				0.2	0.8	37	3490	< 1	39	< 2	247	4.63	3	< 10	36	0.7	< 2	3.38	14	43	11.4	10	< 1
691374 Orig	5	< 5	< 5																				
691374 Dup	5	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				

Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank	< 2	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 922 (AQUA REGIA) Meas	0.45	38	1.29	0.028	0.061	0.37	3	4	16		< 20		< 2	< 10	34	< 10	19	7
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 922 (AQUA REGIA) Meas	0.49	38	1.26	0.026	0.061	0.37	4	4	16		< 20		< 2	< 10	35	< 10	20	9
OREAS 922 (AQUA REGIA) Cert	0.376	32.5	1.33	0.021	0.063	0.386	0.57	3.15	15.0		14.5		0.14	1.98	29.4	1.12	16.0	22.3
OREAS 520 (Aqua Regia) Meas	0.46	73	1.04	0.067	0.068	0.91	8	10	32	0.14	< 20	< 1	< 2	10	223	23	12	37
OREAS 520 (Aqua Regia) Cert	0.506	83.0	1.14	0.0520	0.0740	1.03	1.97	11.8	36.0	0.135	8.03	0.33	0.0900	14.9	247	29.6	14.3	28.0
OREAS 907 (Aqua Regia) Meas	0.37	40	0.22	0.101	0.023	0.07	5	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	19
OREAS 907 (Aqua Regia) Cert	0.286	36.1	0.221	0.0860	0.0240	0.0660	2.28	2.16	11.7	0.0170	8.04	0.230	0.120	2.15	5.12	0.980	6.52	43.7
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
CDN-PGMS-27 Meas																		
CDN-PGMS-27 Cert																		
Oreas 621 (Aqua Regia) Meas	0.35	21	0.41	0.200	0.034	4.64	114	2	20		< 20		< 2	< 10	12	< 10	7	64
Oreas 621 (Aqua Regia) Cert	0.333	19.4	0.436	0.160	0.0335	4.50	107	2.20	18.9		5.91		0.770	1.63	10.9	1.00	6.87	55.0
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 45f (Aqua Regia) Meas	0.11	13	0.17	0.044	0.021	0.03		30	16	0.14	< 20		< 2	< 10	203		6	22
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 45f (Aqua Regia) Meas	0.11	13	0.18	0.045	0.021	0.02		30	16	0.15	< 20		< 2	< 10	208		6	22
OREAS 45f (Aqua Regia) Cert	0.0820	10.7	0.152	0.0320	0.0220	0.0270		31.4	13.2	0.0970	7.67		0.120	1.09	217		6.74	30.0
OREAS 263 (Aqua Regia) Meas	0.42		0.60	0.099	0.043	0.12	9	4	19		< 20	2	< 2	< 10	30		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
OREAS 263 (Aqua Regia) Meas	0.40		0.59	0.094	0.043	0.13	10	4	18		< 20	1	< 2	< 10	29		12	
OREAS 263 (Aqua Regia) Cert	0.288		0.593	0.0790	0.0410	0.126	7.37	3.52	16.9		10.6	0.210	0.530	1.28	22.8		12.0	
OREAS 130 (Aqua Regia) Meas	0.55	24	0.88		0.083	6.14	7	3	20	0.03	< 20	< 1	3	< 10	37	12	11	26
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
OREAS 130 (Aqua Regia) Meas	0.55	25	0.88		0.082	5.83	6	3	20	0.03	< 20	< 1	2	< 10	37	12	12	27
OREAS 130 (Aqua Regia) Cert	0.500	26.4	0.892		0.0860	6.02	4.69	3.42	23.2	0.0270	10.3	0.170	5.92	8.36	33.1	1.40	13.0	19.0
Oreas 623 (Aqua Regia) Meas	0.17	18	1.00	0.082	0.044	8.84	23	4	14		< 20	< 1	< 2	< 10	15	10	7	55
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
Oreas 623 (Aqua Regia) Meas	0.16	18	0.99	0.081	0.043	8.65	21	4	14		< 20	< 1	< 2	< 10	15	< 10	7	53
Oreas 623 (Aqua Regia) Cert	0.175	17.9	1.11	0.0680	0.0400	8.75	20.2	4.63	14.2		4.72	0.570	0.260	1.43	15.8	2.62	7.43	50.0
697692 Orig	< 0.01	< 10	6.14	0.009	0.002	0.03	6	11	94	< 0.01	< 20	< 1	< 2	< 10	38	< 10	< 1	1
697692 Dup	< 0.01	< 10	6.33	0.008	0.002	0.04	6	11	96	< 0.01	< 20	< 1	< 2	< 10	40	< 10	< 1	1
697695 Orig																		
697695 Dup																		
697805 Orig																		
697805 Dup																		
697809 Orig	0.02	< 10	2.40	0.077	0.015	0.74	3	8	28	0.05	< 20	2	< 2	< 10	57	< 10	3	3
697809 Dup	0.02	< 10	2.44	0.077	0.016	0.71	2	8	28	0.05	< 20	2	< 2	< 10	58	< 10	3	3
697815 Orig																		
697815 Dup																		
697825 Orig																		
697825 Dup																		
697831 Orig	0.39	28	1.12	0.096	0.095	1.49	< 2	2	55	0.05	< 20	< 1	< 2	< 10	23	< 10	5	14
697831 Dup	0.40	28	1.12	0.099	0.096	1.54	< 2	2	57	0.05	< 20	2	< 2	< 10	24	< 10	5	13
697835 Orig	0.33	28	1.06	0.050	0.092	1.38	< 2	1	40	0.04	< 20	2	< 2	< 10	20	< 10	5	13
697835 Split PREP DUP	0.33	27	1.06	0.051	0.093	1.31	< 2	1	40	0.04	< 20	< 1	< 2	< 10	20	< 10	5	12
697835 Orig																		
697835 Dup																		
697838 Orig	0.37	28	1.01	0.067	0.090	0.71	< 2	2	32	0.05	< 20	4	< 2	< 10	25	< 10	5	10
697838 Dup	0.38	28	1.03	0.068	0.092	0.71	2	2	33	0.05	< 20	2	< 2	< 10	25	< 10	6	11
697844 Orig																		
697844 Dup																		
691352 Orig	0.70	< 10	1.87	0.210	0.025	9.26	5	10	35	0.15	< 20	< 1	< 2	< 10	148	< 10	7	5
691352 Dup	0.70	< 10	1.82	0.208	0.024	8.69	5	9	31	0.14	< 20	4	< 2	< 10	142	< 10	6	4
691364 Orig																		
691364 Dup																		
691370 Orig	1.18	23	2.14	0.199	0.078	1.91	5	4	101	0.08	< 20	< 1	< 2	< 10	37	< 10	8	18
691370 Dup	1.18	23	2.17	0.202	0.080	1.92	6	4	102	0.08	< 20	< 1	< 2	< 10	38	< 10	8	16
691374 Orig																		
691374 Dup																		
Method Blank																		

Analyte Symbol	K	La	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	10	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1
Method Code	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank																		
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank	< 0.01	< 10	< 0.01	0.007	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1

APPENDIX IV

Drill Logs

NOBLE MINERAL EXPLORATION INC.

Diamond Drill Log

HOLE NO.	DAR-20-01

EXPLORATION COMPANY				UTM NAD 83 ZONE 17N				TARGET DEPTH (m)
Noble Mineral Exploration				PLANNED COORDINATES		FINAL COORDINATES		~90
START DATE	COMPLETION DATE	START DATE LOGGED	END DATE LOGGED	EASTING (m)		EASTING (m)		TARGET DESCRIPTION
25-09-2020	28-09-2020	28-09-2020	29-09-2020	461314.80		461317.00		Presumed Iron Formation? As described in historic hole 25013
DRILLING COMPANY		DRILL RIG	LOGGED BY	NORTHING (m)		NORTHING (m)		
Forage M.Dion (NPLH)			Edwin Escarraga	5429470.70		5429472.00		TARGET RESULTS
TARGET NAME		AZIMUTH (°)	DIP (°)	ELEVATION (m)	TYPE	ELEVATION (m)	TYPE	Intersected a semi-massive sulphide zone at 64.25 (Po-Py-Qtz)
		215	-50	269.90	Planned	268.00	GPS	

COMMENTS

METERAGE			ROCK TYPE	ROCK CODE	DESCRIPTION
FROM_m	TO_m	LENGTH_m			
0	23	23	Overburden	OVB	Overburden
23	26	3	Mafic Intrusives	MINT	C-G Gabbro. Dark green phaneritic. Non magnetic. Strongly chloritized amphiboles and px?. Abundant carb veinlets. Locally bleached. Tr sulphides.
26	29.4	3.4	Felsic Volcanics	FVOL	Light grey, f-m-g Rhyolite. V.weakly magnetic. Bleaching near LC. Minor sulphides (less than 1% Po-Py)
29.4	49.1	19.7	Mafic Intrusives	MINT	C-G Gabbro. Dark green phaneritic. Non magnetic (only magnetic around Qtz-carb veins with Po). Strongly chloritized amphiboles and px?. Abundant carb veinlets. Locally bleached. Tr sulphides. LC is gradational to a f.g volcanic equivalent?
49.1	56.8	7.7	Mafic Volcanics	MVOL	Dark green Mafic volcanics. Non magnetic. Locally tuffaceous or coarser grained (resembling gabbro above). Fracture lines sericitized and/or bleached. Patchy sugary quartz alteration.
56.8	64.25	7.45	Felsic to Intermediate Volcani	FIVOL	Grey, medium grained tuffaceous rhyodacite. Crystal feldspar tuff. Local qtz flooding with Po-Py. Strong Bleaching patches near LC
64.25	67.3	3.05	Sulphide Zone	SULZ	Mineralized zone. Semi-massive sulphide zone with moderate qtz flooding. Minor fuchsite. Po>Py Gradationally lower sulphide content near LC. Bands are perpendicular to core axis.
67.3	73	5.7	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcano sedimentary protolith. Moderately magnetic. Strong Garnet content throughout in a black/dark grey matrix. Po/Py in Qtz amorphous patches.
73	77.1	4.1	Felsic to Intermediate Volcani	FIVOL	Grey, fine grained rhyodacite. Non magnetic. Strong bleaching near LC
77.1	86.95	9.85	Intermediate Volcanics	IVOL	Grey, medium grained tuffaceous dacite. Crystal feldspar tuff. Weak to moderately magnetic. With a lighter grey more silicified non magnetic intercalation at 83m
86.95	100	13.05	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcano sedimentary protolith. Moderately magnetic. Strong Garnet content throughout in a black/dark grey matrix. Po/Py in thin bands
100	109.5	9.5	Felsic Volcanics	FVOL	Light grey, f-m-g Rhyolite with speckled f-g biotite. V. weakly magnetic. Bleaching patches throughout. Minor sulphides (less than 1% Py)
		EOH			

NOBLE MINERAL EXPLORATION INC.

Diamond Drill Log

HOLE NO.	DAR-20-02

EXPLORATION COMPANY				UTM NAD 83 ZONE 17N				TARGET DEPTH (m)
Noble Mineral Exploration				PLANNED COORDINATES		FINAL COORDINATES		~90
START DATE	COMPLETION DATE	START DATE LOGGED	END DATE LOGGED	EASTING (m)		EASTING (m)		TARGET DESCRIPTION
30-09-2020	02-10-2020	02-10-2020	03-10-2020	461274.40		461274.00		Presumed Iron Formation? As described in historic hole K85-3
DRILLING COMPANY		DRILL RIG	LOGGED BY	NORTHING (m)		NORTHING (m)		
Forage M.Dion (NPLH)			Edwin Escarraga	5429498.80		5429497.00		TARGET RESULTS
TARGET NAME		AZIMUTH (°)	DIP (°)	ELEVATION (m)	TYPE	ELEVATION (m)	TYPE	Intersected a sulphide zone at ~71m
		215	-50	269.80	Planned	267.00	GPS	

COMMENTS

METERAGE			ROCK TYPE	ROCK CODE	DESCRIPTION
FROM_m	TO_m	LENGTH_m			
0	34.7	34.7	Overburden	OVB	Overburden
34.7	36.8	2.1	Intermediate Intrusives	IINT	m-g, c-g granodiorite. Grey phaneritic. Non magnetic. Moderate alteration and bleaching. Sharp LC with mafic intrusive. Tr
36.8	71.6	34.8	Mafic Intrusives	MINT	C-G Quartz Gabbro. Dark green phaneritic. Non magnetic. Strongly chloritized amphiboles and px?. Abundant carb veinlets and patchy carb. Locally bleached. Tr sulphides. Textural changes within it as if "digesting" host rocks. Some sections with garnet remnants (as seen on volvano sedimentary unit).
71.6	72.25	0.65	Sulphide Zone	SULZ	Mineralized zone. Semi-massive sulphide zone with moderate qtz flooding. Py>Po Sharp LC.
72.25	74.3	2.05	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcano sedimentary protolith. Moderately magnetic. Strong Garnet content throughout in a black/dark grey matrix. Po/Py in Qtz amorphous patches. Minor thin magnetite bands
74.3	84.15	9.85	Felsic to Intermediate Volcan	FIVOL	Grey, fine grained rhyodacite. Non magnetic. Strong patchy bleaching and hairline fractures. Locally silicified.
84.15	92	7.85	Breccia	BX	Grey, brecciated tuffaceous dacite?. Healed breccia. Moderately magnetic. With a lighter grey more silicified non magnetic intercalation at 85.3m. UC has strong qtz flooding and sulphide mineralization 84.15-84.8
92	99	7	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcano sedimentary protolith or a interm-mafic tuff?. Moderately magnetic due to Po. Strong Garnet content throughout in a black/dark grey matrix. Po/Py in thin stringers. Locally brecciated
99	100.5	1.5	Quartz Zone	QTZZN	Quartz flooding with strongly chloritized fragments of host rock. Minor sulphides (Py-Po)
100.5	104.9	4.4	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcano sedimentary protolith or a interm-mafic tuff?. Moderately magnetic due to Po. Strong Garnet content throughout in a black/dark grey matrix. Po/Py in thin stringers. Locally brecciated
104.9	109.7	4.8	Felsic Volcanics	FVOL	Light grey, f-m-g Rhyolite? Or felsic-interm volcanics. Non magnetic. Bleaching patches throughout with strong hairline fracturing. Locally silicified. trace sulphides
109.7	123.5	13.8	Intermediate Tuff	ITUFF	Dark grey, Dacitic crystal tuff? Locally volcano sedimentary?. Feldspar and quartz crystals peppered through in a dark matrix. Locally with abundant garnet porphyroblasts. Transitional texture, varies between f-g homogeneous to c-g tuffaceous. Predominantly non-magnetic but locally thin bands with minor magnetite
123.5	129	5.5	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcano sedimentary protolith or a interm-mafic tuff?. Moderately magnetic (thin
		EOH			

NOBLE MINERAL EXPLORATION INC.

Diamond Drill Log

HOLE NO.	DAR-20-03

EXPLORATION COMPANY				UTM NAD 83 ZONE 17N				TARGET DEPTH (m)
Noble Mineral Exploration				PLANNED COORDINATES		FINAL COORDINATES		~80
START DATE	COMPLETION DATE	START DATE LOGGED	END DATE LOGGED	EASTING (m)		EASTING (m)		TARGET DESCRIPTION
03-10-2020	04-10-2020	05-10-2020	05-10-2020	461360.00		461370.00		Presumed Iron Formation on SE Strike from 25013
DRILLING COMPANY		DRILL RIG	LOGGED BY	NORTHING (m)		NORTHING (m)		
Forage M.Dion (NPLH)			Edwin Escarraga	5429425.00		5429434.00		TARGET RESULTS
TARGET NAME		AZIMUTH (°)	DIP (°)	ELEVATION (m)	TYPE	ELEVATION (m)	TYPE	Intersected a sulphide zone at ~77m
		220	-50	269.00	Planned	270.00	GPS	

COMMENTS

METERAGE			ROCK TYPE	ROCK CODE	DESCRIPTION
FROM_m	TO_m	LENGTH_m			
0	33.4	33.4	Overburden	OVB	Overburden
33.4	45.85	12.45	Intermediate Intrusives	IINT	m-g, granodiorite?, or a dacitic volcanic equivalent. Grey phaneritic. Non magnetic. Moderate alteration and bleaching. Sharp LC with mafic intrusive. Tr sulphides.
45.85	73.6	27.75	Mafic Volcanics	MVOL	Dark green Mafic volcanics. Non magnetic. Locally coarser grained (resembling gabbro). Moderate interstitial quartz-carb, giving it a C-g appearance. Fracture lines sericitized and/or bleached. Patchy and wispy sugary quartz alteration throughout.
73.6	76.9	3.3	Felsic to Intermediate Volcan	FIVOL	Grey, medium grained tuffaceous rhyodacite. Crystal feldspar tuff?. Sharp UC and LC that have strong sulphide mineralization.
76.9	78.3	1.4	Sulphide Zone	SULZ	Mineralized zone. Semi-massive sulphide zone with moderate qtz flooding. Po>Py Gradationally lower sulphide content near LC and increasing grain size and abundance of magnetite crystals. Bands are perpendicular to core axis.
78.3	83.4	5.1	Intermediate Intrusives	IINT	Grey m-g-c-g Granodiorite? Grain size increases with depth but at the UC is fine enough to look volcanic (or just chill margin?). Non magnetic, weakly altered. Sharp LC with sulphide mineralization.
83.4	91.5	8.1	Breccia	BX	Grey, brecciated tuffaceous dacite?. Healed breccia with big >3cm lith fragments. Moderately magnetic. UC 83.4-84.3m is semi-massive sulphide and qtz flooding. Magnetite is common as m.g crystals throughout, but predominantly in bands. LC is gradational with less fragments.
91.5	95.4	3.9	Intermediate Volcanics	IVOL	Grey, medium grained dacite? Weakly magnetic. LC gradational, but sharp garnet content.
95.4	104.2	8.8	Volcaniclastic Sediments	VOLSED	Black, spotty Meta wacke?. Likely a meta volcanosedimentary protolith. Moderately magnetic. Strong Garnet content throughout in a black/dark grey matrix. Po/Py in thin bands
104.2	108	3.8	Intermediate Intrusives	IINT	Light grey, m-g qtz-feldspar porphyry? Qtz eyes texture. non magnetic. Bleaching patches throughout.
		EOH			

NOBLE MINERAL EXPLORATION INC.

Diamond Drill Log

HOLE NO.	DAR-20-04

EXPLORATION COMPANY				UTM NAD 83 ZONE 17N				TARGET DEPTH (m)
Noble Mineral Exploration				PLANNED COORDINATES		FINAL COORDINATES		~200-240
START DATE	COMPLETION DATE	START DATE LOGGED	END DATE LOGGED	EASTING (m)		EASTING (m)		TARGET DESCRIPTION
04-10-2020	08-10-2020	05-10-2020	10-10-2020	463407.00		463404.00		Structural target. Looking for Iron formation in the hinge of a fold nose
DRILLING COMPANY		DRILL RIG	LOGGED BY	NORTHING (m)		NORTHING (m)		
Forage M.Dion (NPLH)			Edwin Escarraga	5427282.80		5427276.00		TARGET RESULTS
TARGET NAME		AZIMUTH (°)	DIP (°)	ELEVATION (m)	TYPE	ELEVATION (m)	TYPE	Intersected 2 mineralized zones. One Quartz zone with strong sulphides at 229m and a second sulphide zone at 246m
		160	-50	269.80	Planned	271.00	GPS	

COMMENTS

METERAGE			ROCK TYPE	ROCK CODE	DESCRIPTION
FROM_m	TO_m	LENGTH_m			
0	67	67	Overburden	OVB	Overburden
67	84.95	17.95	Mafic Intrusives	MINT	Dark green Mafic intrusive? Qtz-gabbro?. moderately magnetic. Blue-ish qtz eyes throughout, likely metamorphic not original. minor Py-Po disseminated throughout, but in higher concentrations in Quartz altered/mineralized bands. Weak to moderate quartz stringers and veinlets.
84.95	88.05	3.1	Diabase	DIA	C-G Diorite dyke?. Dark green phaneritic. weak to moderately magnetic. Strongly chloritized amphiboles. Secondary/metamorphic pristine biotite?. Minor sulphides. Hairline fractures filled with quartz give it a brecciated texture near the LC.
88.05	94.3	6.25	Mafic Volcanics	MVOL	Dark green, f-g to m-g mafic volcanics?. Predominantly non magnetic. Minor sulphides (Py>Po) normally associated with patchy or banded quartz alteration. Common quartz veinlets and stringers.
94.3	114.35	20.05	Intermediate to Mafic Tuff	IMTUFF	Light grey, m-g Dacitic crystal tuff? Or interm-mafic volcanics. Non magnetic. Overall very homogeneous, except for the quartz veinlets with minor sulphides. Increasing in content with depth is a black f-g mineral. That appears unaltered and fresh (secondary biotite?)
114.35	122.6	8.25	Mafic Volcanics	MVOL	Dark green f-g basalt? Non magnetic, fairly homogeneous except for minor qtz and qtz-carb flooding/wisps. LC increases grain size and is gradational to an ultramafic rock
122.6	177	54.4	Ultramafic - Undifferentiated	UMF	Green, m-g to c-g serpentinized ultramafic vocanics? Very coarse (~1cm) Black, euhedral to subhedral moderately magnetic crystals that may be porphyroblasts or resulted from hydrothermal alteration? (likely garnet or chloritoid, or spinel/chromite?). The rock is strongly altered, chloritized and serpentinized. Locally with vuggy texture.
177	183	6	Intermediate Intrusives	IINT	Grey, m-g to c-g granodiorite. Locally with quartz porphyroclasts. Non magnetic. UC has low mafic mineral content, but biotite/amphibole increases with depth. Blue Qtz "eye" texture. Py disseminated Throughout, sharp contact with mafic volcanics is silicified.
183	191.3	8.3	Intermediate to Mafic Volcan	IMVOL	Light green medium grained andesite?. Up to 30% with feldspar crystals in a chloritized green matrix. Non magnetic. Moderate foliation and quartz veining (veinlets and stringers). Sharp LC with Porphyry.
191.3	225.4	34.1	Intermediate Intrusives	IINT	Light Grey, m-g to c-g Porphyritic granodiorite?. Locally with quartz and Feldspar porphyroclasts. Non magnetic. low mafic mineral content throughout, with only minor biotite/amphibole. Up to 5% Py disseminated throughout, sharp LC with mafic volcanics.
225.4	229.1	3.7	Intermediate to Mafic Volcan	IMVOL	Light green medium grained andesite?. Up to 30% with feldspar crystals in a strongly chloritized green matrix. Non magnetic. Strong foliation. Very blocky throughout, minor fault gouge bear UC?. Sharp LC with Strong quartz flooding.
229.1	231.8	2.7	Quartz Zone	QTZZN	Strong quartz flooding with sulphide mineralization in thin bands parallel to foliation of host rock. LC is gradational with mafic volcanics that are silicified and altered through the contact.
231.8	246	14.2	Mafic Volcanics	MVOL	Dark green f-g basalt? Locally very weakly magnetic, fairly homogeneous except for minor qtz and qtz-carb wisps and small veins. Sharp LC with strongly mineralized zone (Py-Po)
246	248.9	2.9	Sulphide Zone	SULZ	Semi-massive sulphide zone and quartz. Strongly magnetic. Py and Po are predominant throughout but there are bands where Magnetite is the main component. Minor garnet grains where inclusions of volcanoseds? are present.

248.9	276	27.1	Volcaniclastic Sediments	VOLSED	Light grey fine grained volcanosedimentary rock? Garnet porphyroblasts abundant throughout. UC is sharp but LC is gradational with less of a volcanic component and looking more like a metagreywacke or metasiltstone. Po only present near the UC. PY occurs throughout in agglomerations within patchy sections of secondary quartz. Py content decreases with depth.
		EOH			

NOBLE MINERAL EXPLORATION INC.

Diamond Drill Log

HOLE NO.	DAR-20-05								
EXPLORATION COMPANY				UTM NAD 83 ZONE 17N				TARGET DEPTH (m)
Noble Mineral Exploration				PLANNED COORDINATES		FINAL COORDINATES		200-240
START DATE	COMPLETION DATE	START DATE LOGGED	END DATE LOGGED	EASTING (m)		EASTING (m)		TARGET DESCRIPTION
24-10-2020	30-10-2020	29-10-2020	30-10-2020	463464.00		463464.40		Drill fold nose from limb.
DRILLING COMPANY		DRILL RIG	LOGGED BY	NORTHING (m)		NORTHING (m)		
Forage M.Dion (NPLH)			Shuda Zhou	5427264.00		5427244.00		TARGET RESULTS
TARGET NAME		AZIMUTH (°)	DIP (°)	ELEVATION (m)	TYPE	ELEVATION (m)	TYPE	0
		180	-60	270.00	Planned	270.00	GPS	

COMMENTS

METERAGE			ROCK TYPE	ROCK CODE	DESCRIPTION
FROM_m	TO_m	LENGTH_m			
0	39.7	39.7	Overburden	OVB	Overburden
39.7	118.12	78.42	Mafic Intrusives	MINT	Dark green Mafic intrusive? Qtz-gabbro?. moderately to strong magnetic (quite a lot of small grain magnetite is seen from 64.3-66.5m). Mod-strong silicification, quite some 10-50 cm qtz-ak veins and stringers. 0.5-1.5% Py disseminated throughout, but higher concentrations in Quartz-ankerite veins or the silicified areas. Minor calcopyrite. Strong foliation, foliation is at 55 degrees to core axis
118.12	118.4	0.28	Diabase	DIA	Diabase dyke?. Grey in color, phaneritic. Chill margins are visible. Weak to moderately magnetic. Secondary/metamorphic pristine biotite?. 0.5% small grain pyrite throughout. Strong foliation at 75 degrees to core axis
118.4	135.43	17.03	Mafic Volcanics	MVOL	Dark green, f-g mafic volcanics?. Predominantly non magnetic. Most mafic minerals have been altered to chlorite. Some places underwent strong silicifications. Fuchsite alteration are seen locally as well. Minor to 1% patchy sulphides (Py>Po) normally associated with quartz veins or stringers. Common quartz veinlets and stringers.
135.43	187.8	52.37	Ultramafic - Undifferentiated	UMF	Dark green, m-g to c-g serpentinized talcous ultramafics. Locally with vuggy texture. Strong magnetics. The rock is strongly altered by chloritization and serpentinization. Soapy talc is quite common throughout. Very coarse (~1cm) black, euhedral to subhedral moderately magnetic crystals that may be porphyroblasts or resulted from hydrothermal alteration? (likely garnet or chloritoid, or spinel/chromite?). 0.5% patchy sub-euhedral pyrite in the unit, locally up to 3%. 1cm wide Qtz-Albite veins are common throughout.
187.8	189.7	1.9	Intermediate Intrusives	IINT	Grey, m-g granodiorite, grain size increase a little bit downhole. Wk-mod magnetic. Some mafic minerals have been altered to chlorite. Moderate foliation at 50 degrees to core axis. Minor to 1% qtz-carb stringers. 0.5% Py disseminated throughout
189.7	203.9	14.2	Intermediate to Mafic Volcan	IMVOL	Light green almost phaneritic intermediate to mafic volcanics. Non magnetic. Matrix has been chloritized. 5% quartz-carb stringers throughout. Foliation is not obvious because of the size of the grains. 1% sm grain pyrite throughout
203.9	239.7	35.8	Intermediate Intrusives	IINT	Light Grey, m-g Porphyritic granodiorite?. Locally with quartz and Feldspar porphyroclasts. Rock is mostly silicified, blue quartz eye texture is common in the unit. Non magnetic. Moderate foliation with angle at 50 degrees to Core axis. Low mafic mineral content throughout, with only minor biotite/amphibole. Up to 5% Py disseminated throughout. 2% Qtz stringers in the unit in general, locally (213.7 to 213.9) a 20cm quartz vein with muscovite inside. LC is gradational with quartz zone below.
239.7	249.8	10.1	Quartz Zone	QTZZN	Strong quartz flooding with sulphide mineralization (Py>Po) in thin bands parallel to foliation of host rock (Sulphide percentage~20%). LC is gradational with mafic volcanics that are silicified and altered through the contact.

249.8	260.5	10.7	Intermediate Intrusives	IINT	Dark greenish grey intermediate intrusives. M-g meta-diorite? No magnetic. The rock underwent strong alteration, almost all mafic minerals have been altered to chlorite. Strong foliation 65 degrees to core axis. Minor to 5% qtz and qtz-carb veins and stringers. 0.5% s-g disseminated py
260.5	265.4	4.9	Sulphide Zone	SULZ	Semi-massive sulphide zone and quartz. Strongly magnetic. Moderate foliation at 65 degrees to core axis. Py and Po are predominant throughout but there are zones/bands where Magnetite and chalcopyrite is the main component. Minor garnet grains where inclusions of volcanoseds? are present.
265.4	285	19.6	Volcaniclastic Sediments	VOLSED	Light grey fine grained volcanosedimentary rock? Weak-moderate magnetic. Moderate-strong foliations 65 degrees to core axis. Garnet porphyroblasts abundant throughout. UC is gradational with the sulphide zone above. 5% disseminated sulphides (Py>Po>Cpy) throughout. Few magnetite seams with strong magnetic. Minor to 1% Qtz-carb veins/stringers
		EOH			

NOBLE MINERAL EXPLORATION INC.

Diamond Drill Log

HOLE NO.	DAR-20-06							
EXPLORATION COMPANY				UTM NAD 83 ZONE 17N				TARGET DEPTH (m)
Noble Mineral Exploration				PLANNED COORDINATES		FINAL COORDINATES		~280-380
START DATE	COMPLETION DATE	START DATE LOGGED	END DATE LOGGED	EASTING (m)		EASTING (m)		TARGET DESCRIPTION
19-10-2020	23-10-2020	25-10-2020	27-Oct-20	466252.00		466252.40		Looking to replicate good assay values encountered on K84-3, and test magnetic unit deeper
DRILLING COMPANY		DRILL RIG	LOGGED BY	NORTHING (m)		NORTHING (m)		
Forage M.Dion (NPLH)			Edwin Escarraga	5424554.00		5424552.80		TARGET RESULTS
TARGET NAME		AZIMUTH (°)	DIP (°)	ELEVATION (m)	TYPE	ELEVATION (m)	TYPE	
		235	-50	260.00	Planned	260.00	GPS	

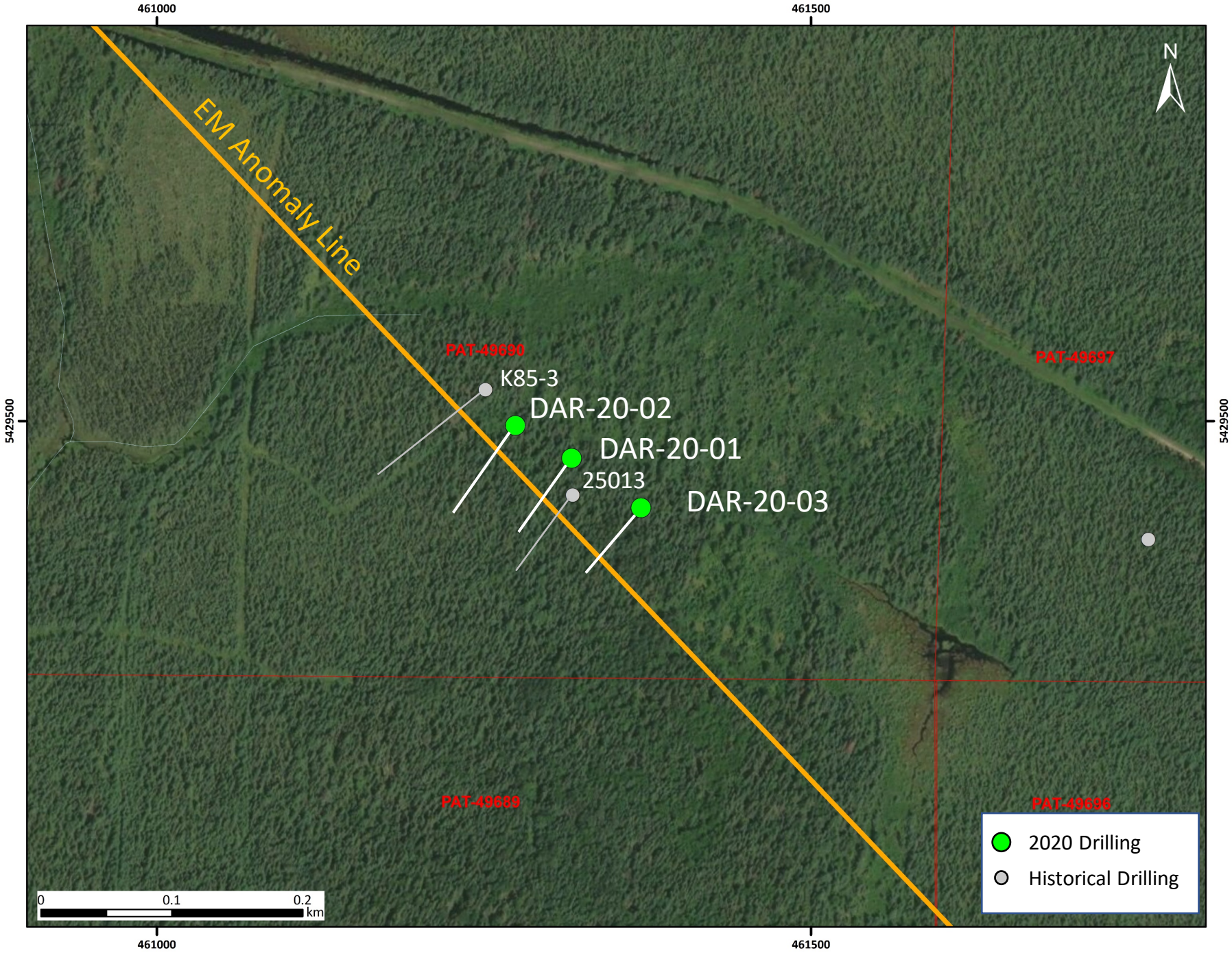
COMMENTS

METERAGE			ROCK TYPE	ROCK CODE	DESCRIPTION
FROM_m	TO_m	LENGTH_m			
0	30	30	Overburden	OVB	Overburden
30	46.7	16.7	Volcaniclastic Sediments	VOLSED	Grey and dark grey fine grained volcanosedimentary wacke or intermediated volcanics? Lighter coloured near the lower half.
46.7	52.7	6	Calcareous Mudstone	CMD	Grey / very light beige shaded, "micrite"?. Very fine grained but calcareous throughout with hairline carbonate as well. Non magnetic. Subtle brecciation and minor sulphide dissemination near the LC
52.7	59.7	7	Intermediate to Mafic Volcan	IMVOL	Light green locally foliated intermediate to mafic volcanics. Moderately magnetic throughout. Foliation now defined by secondary quartz-carb veinlets and stringers. Spotty dark brown minerals peppered through (ilmenite?). Very minor sulphides associated with the veinlets and stringers.
59.7	71	11.3	Intermediate Volcanics	IVOL	Light grey, m-g Dacite?. Non magnetic. Small patches are strongly chloritized. Potassic alteration increases with depth, changing to a light pink at the LC. Qtz eyes are frequent throughout. Minor disseminated sulphides and carb stringers throughout. LC may be faulted.
71	87.4	16.4	Intermediate to Mafic Volcan	IMVOL	Very fine grained strongly foliated green Interm to mafic volcanics. A few sections have strong qtz-carbonate veinlets and stringers parallel to foliation. Minor qtz flooding occurs in some sections. Very fg sulphides normally following chloritized laminations adjacent to veinlets. minor brecciation near LC. with an increase in disseminated sulphide content.
87.4	96	8.6	Intermediate Intrusives	IINT	Dark grey coarse grained qtz-diorite or melano-granodiorite?. Non magnetic Disseminated sulphides throughout.
96	98.6	2.6	Intermediate to Mafic Volcan	IMVOL	Very fine grained green Interm to mafic volcanics. Non magnetic. Sharp LC with ultramafic rocks. Minor qtz eyes throughout.
98.6	113.4	14.8	Ultramafic - Undifferentiated	UMF	Dark green, strongly chloritized ultramafic flow?. Moderate to strongly magnetic. Locally with talc alteration. Near the LC, the texture is "vuggy" but at very fine grained scale. Strongly foliated throughout. Fine grained dark crystals near LC (magnetite, or something else?). Minor sulphides only seen in quartz veinlets.
113.4	140	26.6	Intermediate to Mafic Volcan	IMVOL	Green to dark grey predominantly fine grained Intermediate to mafic volcanics. Weak to moderately magnetic. There are sections where feldspar crystals can be medium grained giving the look of a crystal tuff instead. Texture NOT homogeneous throughout. Py and Po occurring in "bands" or patches generally associated with quartz-carbonate veinlets/strigers.
140	151.6	11.6	Volcaniclastic Sediments	VOLSED	Predominantly grey fine grained volcanosediments or meta-arkose. Weak to non magnetic. Near the UC this unit starts with a dark section of carbonaceous laminated metasediments less than 1m but with abundant sulphide. Sulphide content decreases drastically with depth.
151.6	155.75	4.15	Quartz Zone	QTZZN	Quartz flooding in what it looks to be a tuffaceous host. Quartz flooding is white with some tourmanline. Sulphides occur in the host rocks but not in the flodding itself.
155.75	170.25	14.5	Intermediate to Mafic Tuff	IMTUFF	Green to grey medium grained intermediate crystal tuff?. Moderately magnetic. Moderate to strong quartz alteration in the form of veinlets and wisps that give the rock a "deformed/contourted" look.

170.25	173.3	3.05	Intermediate Intrusives	IINT	Grey medium to coarse grained granodiorite Quartz porphyry. Non magnetic. Sharp UC and LC. Quartz "eyes" throughout. Disseminated Py up to 3%. LC with brecciated xenolith?
173.3	179	5.7	Intermediate Tuff	ITUFF	Grey, medium grained intermediate lithic tuff. Non magnetic. Some lithic fragments up to 3 cm length, all strongly stretched along the foliation.
179	184.4	5.4	Intermediate to Mafic Volcan	IMVOL	Very fine grained strongly foliated green Interm to mafic volcanics. Moderately magnetic. Strong qtz-carbonate veinlets and stringers parallel to foliation. Minor qtz flooding occurs in some sections. Py in band agglomerates normally adjacent to veinlets. LC likely faulted.
184.4	188.8	4.4	Sediments	SED	Predominantly grey fine grained banded volcanosediments or meta-greywacke. Weak to non magnetic. UC has strong quartz veining and bleaching. Py occurs disseminated and concentrated in bands. Gradational LC to "Iron Formation".
188.8	201.2	12.4	Volcaniclastic Sediments	VOLSED	Dark grey to black Volcanosediments and / or Iron Formation. Strongly magnetic throughout. Disseminated very fine grained magnetite also in thin bands. Small sections (<50cm) of quartz porphyry and mafic tuff near the UC. Wisps and patches of qtz-carbonate increase with depth as well as sulphides in thin bands/stringers. Sharp LC.
201.2	210.8	9.6	Mafic Tuff	MTUFF	Green medium grained mafic crystal tuff?. Predominantly non magnetic, but near LC there is a section less than 2m with magnetite banding. Moderate quartz alteration in the form of veinlets and wisps. Sulphides increase in the section with magnetite bands.
210.8	215.5	4.7	Intermediate Intrusives	IINT	Grey fine to medium grained granodiorite. Non magnetic. Peppered texture due to fine-medium biotite crystals. Fairly homogeneous throughout. Euhedral Py sparsed. Sharp LC, faulted gouge?
215.5	230	14.5	Ultramafic - Undifferentiated	UMF	Dark green, medium to coarse grained strongly chloritized ultramafic rock. Moderate to strongly magnetic. strong talc alteration near UC. 3-5mm porphyroblasts, likely garnet with fine grained magnetite inclusions.
230	243	13	Sediments	SED	Predominantly grey fine grained banded volcanosediments or meta-greywacke. Weakly magnetic due to sparse dissemination of f-g magnetite crystals. LC is gradational, with magnetite content and size increasing. Fg disseminated py throughout and in some accumulations along foliation.
243	270.15	27.15	Volcaniclastic Sediments	VOLSED	Grey and "spotty" green lithic tuffaceous wacke. Moderatelly magnetic with magnetite crystals near the UC and bands increasing with depth. Strong patchy alteration with epidote, chlorite and qtz-carbonate. Minor Py occurs disseminated, but is more prominant in or near qtz-carbonate veinlets and wisps with strong alteration. Cpy at 256.3.
270.15	289	18.85	Mafic Tuff	MTUFF	Dark green very coarse grained lithic mafic tuff. Lithic fragments are more than 0.5 cm in average. Moderately magnetic. UC is gradational but this unit is much less altered.
289	292	3	Sediments	SED	Predominantly grey fine grained volcanosediments or meta-greywacke. Weakly magnetic. UC is gradational but very little lithic fragments remain. Of note a 60 cm milky quartz vein with a Cpy speck?.
292	318.7	26.7	Mafic Tuff	MTUFF	Dark green very coarse grained lithic mafic tuff. Lithic fragments are more than 0.5 cm in average. Moderately magnetic. LC is gradational. This unit has strong patchy alteration to epidote and chlorite.
318.7	330	11.3	Volcaniclastic Sediments	VOLSED	Dark grey-dark green predominantly fine grained tuffaceous wacke. UC and LC are gradational. Very similar to units above and below except for the smaller grain size, more homogeneous look and less patchy epidote/chlorite alteration.
330	375.4	45.4	Mafic Tuff	MTUFF	Dark green very coarse grained lithic mafic tuff. Lithic fragments are more than 0.5 cm in average. Moderately magnetic. UC is gradational. This unit has strong patchy alteration to epidote and chlorite. Alteration and sulphide content decreases in intensity with depth.
375.4	380	4.6	Volcaniclastic Sediments	VOLSED	Grey, fine grained homogenous volcanosediments. Tuffaceous arenite?. Non magnetic. UC and LC are gradational.
380	394.95	14.95	Mafic Tuff	MTUFF	Patchy lime green very coarse grained lithic mafic tuff. Lithic fragments are more than 0.5 cm in average. Weakly magnetic. UC is
394.95	415.2	20.25	Volcaniclastic Sediments	VOLSED	Predominantly black to dark grey fine grained volcanosediments or tuffaceous meta-greywacke. Weakly magnetic. UC is sharp with few f-g lithic fragments remaining, instead content of crystal fragments increases. LC is gradational with another mafic tuff. Dacite dykes up to 30 cm occur at 411m and 413.2m.
415.2	424.4	9.2	Mafic Tuff	MTUFF	Dark green coarse grained crystal mafic tuff. feldspar crystal fragments are homogeneous in size, giving the rock a somewhat "intrusive" appearance. Moderately magnetic. This unit has moderate patchy alteration to epidote and chlorite. Sulphide content is minor compared to similar units above.
424.4	429.2	4.8	Volcaniclastic Sediments	VOLSED	Predominantly black to dark grey medium grained volcanosediments or tuffaceous meta-greywacke. moderately magnetic. LC is sharp against a chilled margin with an ultramafic intrusion?
429.2	435	5.8	Ultramafic - Undifferentiated	UMF	Dark grey- medium to coarse grained weakly magnetic lamprophyre? Predominantly non magnetic except for a few magnetic bands near the UC. Potassic alteration is pervasive and moderate throughout this unit.
		EOH			

APPENDIX V

Drillhole Maps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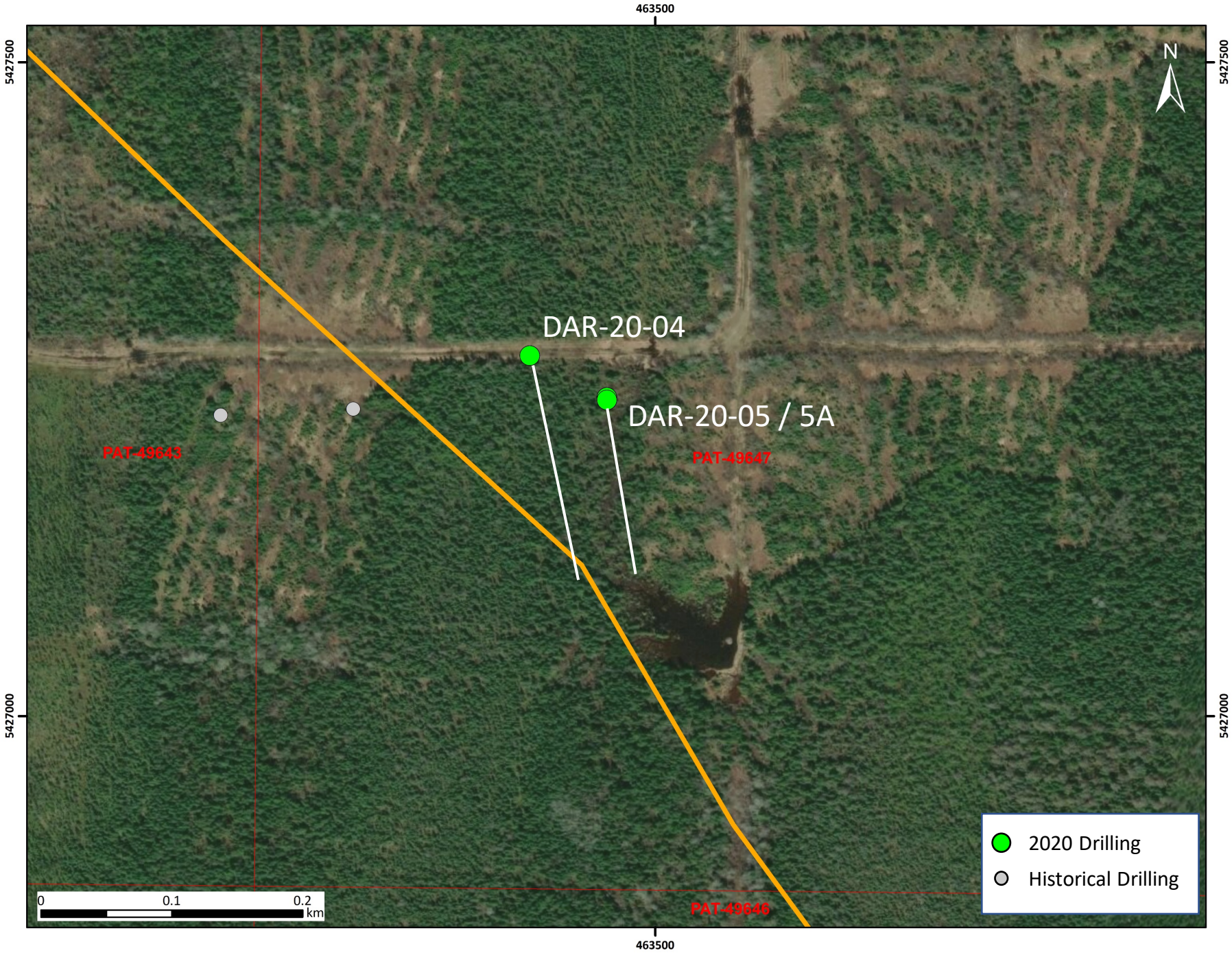
km
2020 Drilling
Historical Drilling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DAR-20-04
DAR-20-05 / 5A
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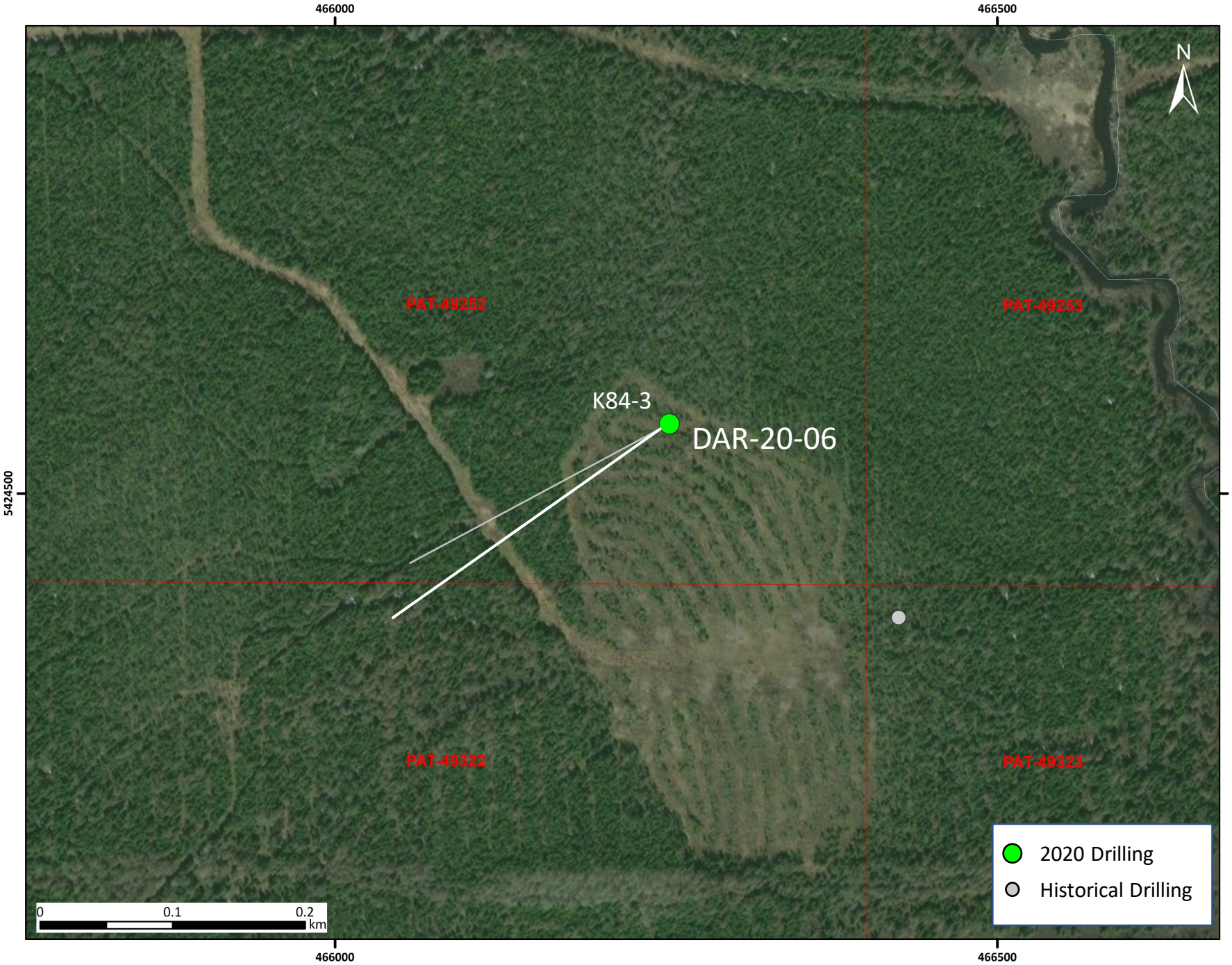
km
2020 Drilling
Historical Drilling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0.2
km
2020 Drilling
Historical Drilling
466000
466500

Type of Work	Invoices	Subtotal	Taxes	TOTAL	File Name
Consultant	Orix September	$ 21,410.00	$ 2,783.30	$ 24,193.30	2020328
Consultant	Orix October November	$ 35,170.00	$ 4,572.10	$ 39,742.10	2020372
Consultant	Edwin Escarraga Expenses October	$ 913.06		$ 913.06	Oct 24-Nov 2, 2020
Consultant	Edwin Escarraga Expenses September	$ 672.01		$ 672.01	Sept 22-27, 2020
Drilling	NPLH	$ 143,351.82	$ 22,518.84	$ 164,870.66	6344_rev
Drilling	NPLH Drilling (Core Shack Rental)	$ 3,000.00	$ 390.00	$ 3,390.00	6347
Labor	Yvan Veronneau	$ 12,249.35	$ 1,592.42	$ 13,841.77	Yvan Invoice
Labor	Scott Woollhead (Incl Mileage)	$ 1,907.50	$ 247.98	$ 3,001.48	NOB-20-02
Labor	Sara Wiglesworth	$ 4,600.00	$ 598.00	$ 5,198.00	Invoice (November 1st, 2020)_Sara Wiggleworth
Labor	Vern Singhroy			$ 5,000.00	Vern Singhroy
Consumables	Randy Singh Expenses	$ 11,486.26	$ 1,716.34	$ 13,202.60	2020-01
Consumables	Joly Fabrication - core racks	$ 3,260.22	$ 488.22	$ 3,748.44	Facture Noble 22 oct 2020 C.R
Assays	Actlabs Nov 17	$ 3,555.25	$ 462.18	$ 4,017.43	A20-12781
Assays	Actlabs Nov 20			$ 3,057.50	A20-12171
Assays	Actlabs Dec 15	$ 3,600.50	$ 468.07	$ 4,068.57	A20-13662
Assays	Actlabs Dec 04	$ 3,147.75	$ 409.21	$ 3,556.96	A20-12283
Assays	Actlabs Jan 08	$ 5,561.50	$ 723.00	$ 6,284.50	A20-13820
Assays	Actlabs Dec 01	$ 2,269.25	$ 295.00	$ 2,564.25	A20-12522
Assays	Actlabs Dec 01	$ 3,258.50	$ 423.61	$ 3,682.11	A20-12675
Assays	Actlabs Jan 19	$ 3,589.00	$ 466.57	$ 4,055.57	A20-13819
Assays	Actlabs Jan 19	$ 3,593.00	$ 467.09	$ 4,060.09	A20-13821
Assays	Actlabs Jan 08	$ 3,937.00	$ 511.81	$ 4,448.81	A20-13823

TOTAL	**$ 270,531.97**	**$ 39,133.74**	**$ 317,569.21**