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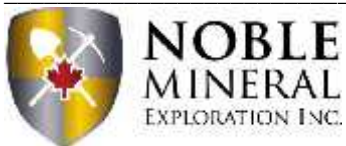
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REPORT
of the
2022 CORE DRILLING PROGRAM
on the
CALDER PROPERTY
PROJECT 81
PORCUPINE MINING DIVISION,
NORTHEASTERN ONTARIO
for
NOBLE MINERAL EXPLORATION INC.

December 1, 2022

J Kevin Montgomery, P. Geo. (ON)



Calder Property Drill Report 2022

SUMMARY

The Calder Property, held by Noble Mineral Exploration Inc., is situated 70 km north of Timmins, Ontario. It is comprised of 241 optioned claims (4,266 hectares) in Calder Township. It is road accessible 0.4 km north on Highway 11 from the Highway 11/Highway 655 junction via an all-weather gravel road (Calder Con 6/7 road), that turns east off the Highway 11.

Beginning on around July 15, 2022, Noble Mineral undertook a two month-long exploration drilling program consisting of two holes totaling 901 m, on the northeast portion of the Calder Property. This drilling tested a 3.5 km long airborne electromagnetic conductor trend coincident with a magnetic high anomaly. The holes successfully encountered semi-massive to stringer sulphide zones. Although the holes returned no significant gold or base metal values, they provided valuable information on the geology of the area.

Noble Mineral continues to evaluate the 2000 Ontario Geological Survey airborne geophysical surveys along with historical exploration on the property to outline future drill targets.

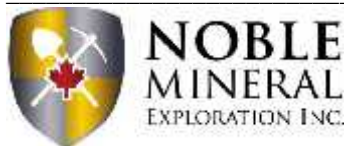


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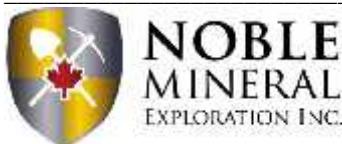
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MAPS & SECTIONS (in back pocket)

MAP 1 Calder-Lennox Property drill hole plan

SECTIONS: CALD-22-01 section and CALD-22-02 section.



INTRODUCTION

The Calder Property is part of Project 81 held by Noble Minerals Exploration Inc. The project consists of over 25,000 hectares of mining rights, northeast of the Kidd Creek Mine site.

This report describes a core drilling program that was carried out on the northeastern portion of the Calder Property from July to September 2022.

PROPERTY LOCATION AND ACCESS

The Calder Property is in Calder Township, approximately 70 km north of the City of Timmins, Ontario (Figure 1). Surface access to the project area is easily gained via Highway 11 and an all-weather gravel road that turns east off Highway 11, 0.4 km north of the Hwy 655/11 intersection. The all-weather road (Calder Concession 6/7 west road) is travelled approximately 3.5 km eastward till a secondary road is followed southward 1.2 km to a gravel operation held by Villeneuve Construction. At the north boundary of the gravel operation, one travels 250 m eastward and then 300 m southward on a drill trail to Hole Cald-22-01. Hole Cald-22-02 is located 350 m southeast of Hole Cald-22-01.

PROPERTY DESCRIPTION

The Calder Property of Noble Minerals is comprised of 241 contiguous single cell unpatented mineral claims located in Calder Township (Figure 2). The claims were optioned on March 2, 2022. It consists of approximately 4,266 hectares. A detailed list of the Calder Property claims is found in Appendix A.

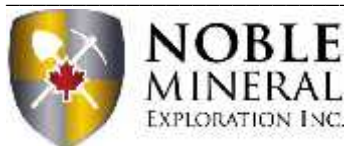




Figure 1 Location Map

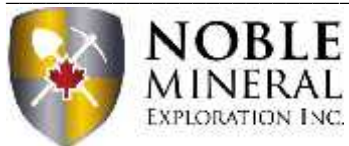




Figure 2 Property Map

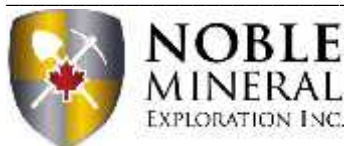
PREVIOUS EXPLORATION WORK

Assessment records at the Ontario Mines Ministry (formerly MNDM) indicate very little exploration work has been carried out by private industry or individuals on the property. Several regional government airborne geophysical surveys have been flown over the property. The most recent in 2000 were a GEOTEMIII electromagnetic survey and a cesium-vapour magnetic survey, flown by Fugro Airborne (OGS Maps 82001 and 82215).

The earliest exploration work recorded is diamond drilling by INCO in 1962. A short 85 m hole was sunk in the southeast portion of the property. The hole intersected metasediments with minor pyrrhotite/pyrite mineralization. Immediately south of the property (Figure 2), a reverse circulation hole by Kidd Creek Mine Ltd. in 1984 returned up to 4,800 ppb gold from ablation till. The latest work was completed in 2000 when M. Valliere completed trenching and drilled five short holes with a combined length of 80 m. The work was carried out in the central part of the Calder Property. The trenching and drilling encountered mafic volcanics with no sulphides observed. Quartz tourmaline veining was reported in one drill log. The most recent work reported is contiguous to the property. Villeneuve Construction in 2017 conducted a drone magnetic survey on the southeast part of their quarry property. Noble Mineral Exploration in 2018 flew a helicopter electromagnetic and magnetic survey contiguous and west of the property.

Previous mineral exploration work conducted on or near the Calder Property is summarized in the Table below.

TABLE 1 WORK HISTORY CALDER PROPERTY				
YEAR	AFRI FILE #	COMPANY	WORK TYPE	RESULTS
1962	42H03SE0102	INCO	DD	Hole 18142 (85 m) intersected metasediments with pyrrhoite. No assays reported.
1984	42H03SW0008	KIDD CREEK MINE	RC	Reverse circulation drill hole QT84-02 (39 m) returned an assay of 4,800 ppb Au from ablation till at 16.1-18.3 m.
2000	42H03SW2001	M. VALLIERE	TR, DD	Two trenches & five short drill holes (80 m total). Massive mafic volcanics exposed in trenching & drill holes. No sulphide mineralization and only one trench sample reported.
2017	20000015134	VILLENEUVE CONSTRUCTION	AMAG	Drone magnetic survey. Two small circular magnetic highs.
2018	20000018184	NOBLE MINERAL	HEM, HMAG	Helicopter time domain electromagnetic and magnetic surveys using the AirTem system. Surveyed 152.4-line Km in a NE-SW direction with 100 m line spacing.



REGIONAL GEOLOGY

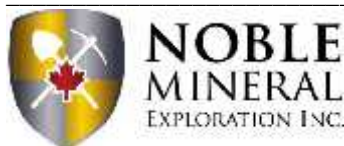
The property lies within the Superior Province of Archean basement rocks, in the Eastern Canadian Shield. It is situated in the northern part of the Abitibi Greenstone Belt ("AGB"), close to the sub-province boundary contact with the Opatoca Subprovince to the north. Seismic and lithogeochemical surveys suggest sub-province boundary contacts are major deep-seated long-lived fault conduits capable of focusing hydrothermal fluids. The economic importance of the AGB is incredible as it contains some of the most important gold and base metal mining camps in Canada, as well as numerous ultramafic extrusive komatiite-hosted Ni-Cu-(PGE) sulphide deposits.

One dominantly volcanic AGB assemblage is interpreted to underlie the Calder Property area east of the north trending Mattagami River Fault (Ayer et al, 2005). It is surrounded by metasediments of the Opatoca Subprovince. The Deloro assemblage (2730-2724 Ma) consists of mainly calc-alkaline mafic to intermediate volcanics and lesser felsic volcanics. Southeast of the property area occurs the underlying Stoughton-Roquemaure volcanic assemblage (2723-2720 Ma). The Opatoca Subprovince sediments consists of primarily wackes and paragneiss that are extremely poorly exposed. Several granodiorites to granites have intruded the volcanic-sedimentary stratigraphy in the area. The largest intrusion occurs southeast of the property, southeast of Cochrane. The Bradburn-Coulson shear zone (NW-SE trend) occurs south of the property and marks the southern extent of the Stoughton-Roquemaure assemblage.

PROPERTY GEOLOGY

The geology of the property is poorly understood due to the lack of outcrop exposure and sparse drilling. It has been interpreted by Ontario government geologists from Ontario Geological Survey airborne geophysical surveys. The following description of the geology is derived from the MRD126-Revised Bedrock 250 K digital map

An east-west band of intermediate to mafic volcanics is interpreted in the northeast portion of the property where the Noble Mineral drilling program was conducted. It is located north of Hwy 17 and south of the Calder Concession 6/7 west road. This band of volcanics stretches from the property eastward to the village of Hunta. A second band of intermediate to mafic volcanics trending northwest-southeast is interpreted to occur in the southwest corner of the property. Both bands of volcanics are interpreted to be surrounded by metasediments possibly of the Opatoca Subprovince. The



sediments are intruded by a granite-granodiorite body immediately north of the property. A second intrusion is interpreted along the southern boundary of the property, between Hwy 655 and Hwy 11. The limited historical drilling has confirmed the presence of mafic volcanics and metasediments on the property.

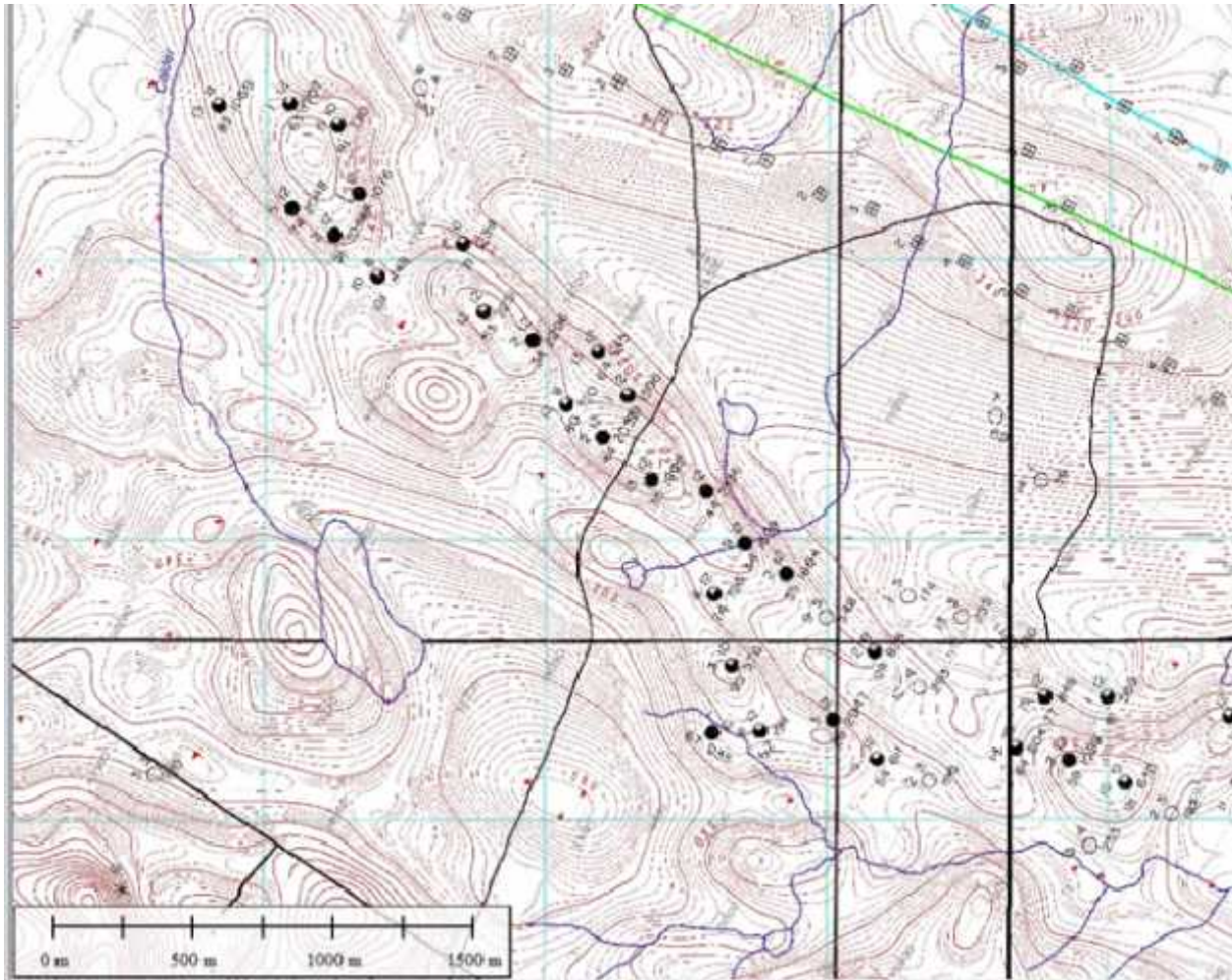


Figure 3 Electromagnetic conductors coincident with magnetic high, northeast Calder Property (OGS Map 82001)

DISCUSSION OF DIAMOND DRILLING

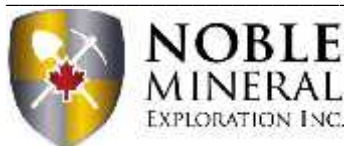
Beginning on July 15, 2022, Noble Mineral undertook an exploration drilling program consisting of two NQ holes totaling 901 m, on the northeast portion of the Calder Property. This drilling tested a 3.5 km long airborne electromagnetic conductor trend coincident with a magnetic high anomaly (Figure 3). The drilling was carried out under exploration permit PR-22-000158.

The 2022 diamond drilling program employed one diamond drill rig provided by Justin Morin Drilling of Timmins, Ontario. The program was co-ordinated and supervised by Wayne Holmstead P.Geo. (ON). Drill core logging was carried out by the author. The field technical tasks associated with the drilling program were conducted by personnel of Exsics Exploration Ltd. of Timmins, Ontario.

All diamond drill holes were set up with a handheld GPS unit and aligned with wood pickets. During drilling, no downhole surveying was conducted. Drill core (NQ size core, 47.6 mm diameter) was placed in core boxes at the drill by the drilling contractor following industry standard procedures. Small wooden tags mark the distance drilled in metres at the end of each run. On each filled core box, the drill hole number and sequential box numbers are marked by the drill helper. Once filled and identified, each core tray is covered and secured shut. Core was delivered to the north side of gravel operation by the drilling contractor as the drilling progressed and Exsics Exploration personnel transported the core to the Timmins core shack from that location. The hole casings were capped and left in the ground.

Noble Mineral rented a core shack in Timmins (3700 Highway 101 West), a driving distance of approximately 100 km from the Property core drop off point. Once the core boxes arrive at the logging facility in Timmins, the boxes were laid out on the logging table in order and/or racked inside. Core logging consisted of two major parts: geotechnical logging and geological logging. Geotechnical logging comprised of core recovery measurements, RQD analysis and core photography. Geological core logging recorded the lithology, alteration, texture, colour, sulphide mineralization, and structure of the rocks intersected by the drill hole. Any significant sulphide mineralization was selected for sampling and sample intervals marked on the core. All geotechnical and geological logging and sample data were recorded directly into a computer spreadsheet (MS Office Excel) by the author.

A brief lithological summary of the holes drilled is outlined below. Detailed drill logs for the holes are found in Appendix B.



HOLE CALD-22-01

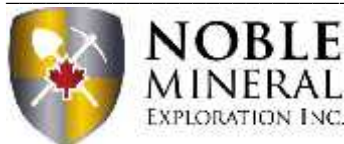
Location: 475817E/ 5399700N (GPS Nad 83 Zone 17)
 Claim: 605259 Cell Number: 42H03F268
 Dip: -50 Azimuth: 035
 Length: 419 m
 Target: An EM conductor.
 Summary: The hole intersected the following stratigraphy:

0.0	14.5	Overburden
14.5	71.75	Mafic Volcanic Flows (foliated)
71.75	74.2	Mafic Dyke
74.2	82.35	Intermediate to Felsic Volcanic (silicified & carbonate altered)
82.35	103.9	Mafic Volcanic Flows
103.9	113.9	Sheared Mafic Volcanics
113.9	136.5	Mafic Intrusive
136.5	180.5	Mafic Volcanic Flows (foliated)
180.5	185.5	Feldspar Porphyry
185.1	189.1	Mafic Volcanics (foliated)
189.1	193.5	Altered Feldspar Porphyry
193.5	199.5	Feldspar Porphyry
199.5	330.3	Mafic Volcanic Flows
330.3	334.2	Intermediate to Mafic Intrusive
334.2	335.3	Sheared Mafic Volcanics
335.3	339.7	Sulphide Zone (Semi-massive to stringer Pyrrhotite, 30%)
339.7	358	Mafic Volcanics
358	359.2	Mafic Intrusive
359.2	372.8	Mafic Volcanics
372.8	376.4	Sulphide Zone (Stringer Pyrrhotite, 10%)
376.4	377.4	Mafic Intrusive
377.4	387.9	Mafic Volcanics
387.9	419	Mafic Volcanic Flows

The EM conductor is a semi-massive pyrrhotite zone from 335.3 to 339.7 m in the hole.

HOLE CALD-22-02

Location: 476085E/ 5439477N (GPS Nad 83 Zone 17)
 Claim: 605267 Cell Number: 42H03F288
 Dip: -50 Azimuth: 035
 Length: 482 m
 Target: same as CALD-22-01 but 350 m to the southeast.



Summary: The hole intersected the following stratigraphy:

0.0	17.4	Overburden
17.4	66.4	Mafic Volcanic Flows (foliated)
66.4	112	Mafic Volcanics
112	140	Mafic Volcanic (massive intrusive textured)
140	169.6	Biotitic Mafic Volcanics (foliated)
169.6	170.7	Sulphide Zone (Semi-massive to stringer Pyrrhotite, 10%)
170.7	213.9	Mafic Volcanic Flows (foliated)
213.9	215.6	Shear Zone
215.6	395	Mafic Volcanic Flows (foliated)
395	433.1	Mafic Volcanics
433.1	447.3	Sediments (Argillite/wacke beds)
447.3	450.8	Mafic Volcanics
450.8	480	Biotitic Mafic Volcanics
480	481.75	Biotitic Felsic Intrusive (granodiorite)

The EM conductor is a semi-massive pyrrhotite zone from 169.6 to 170.7 m in the hole.

Both drill holes intersected mafic volcanic flows and massive mafic volcanics that are cut by feldspar porphyries, mafic intrusives, and mafic dykes in hole CALD-22-01. Hole CALD-22-02 intersected biotitic mafic volcanic sections, a bedded sediment unit and ended in a felsic intrusive. The mafic volcanic flows contain dark blackish green chlorite flow margins with abundant pink garnets (Figure 4). They are typically moderately foliated. The mafic volcanic units are massive to weakly foliated and non garnetiferous. Some units in hole CALD-22-02 are strongly biotitic. The garnets and biotite are indicative of lower amphibolite grade metamorphism.

Significant sulphide mineralization was encountered in both drill holes. Hole CALD-22-01 intersected a main sulphide zone from 335.3 to 339.65 m (Figure 5). It comprised of 30% overall brown magnetic pyrrhotite as stringers, wispy blebs to semi-massive sections. The semi-massive sections consisted of 75-80% very fine-grained pyrrhotite hosting mafic volcanic fragments (1-3 cm size) and 0.5% brassy very fine to fine-grained pyrite disseminations to blebs. Rare chalcopyrite was observed. A secondary sulphide zone was cut in hole CALD-22-01 from 372.8 to 376.4 m. It consisted of 10% very fine to fine-grained magnetic pyrrhotite stringers to wispy blebs. Two very fine-grained disseminated pyrrhotite sections (2 to 5 %) were cut in the hole; 231.4-242.3 m, and 339.7-358 m.



Figure 4 Hole CALD-22-02 Garnets in foliated mafic volcanic flow at 63.5 m.



Figure 5 Hole CALD-22-01 Sulphide Zone, close-up of pyrrhotite at 337 m.

Hole CALD-22-02 intersected a main sulphide zone from 169.6 to 170.65 m. It comprised of 10% overall brown magnetic pyrrhotite as stringers to semi-massive sections. Secondary sections of pyrrhotite stringer/foliation mineralization (5-10%) were encountered from 351 to 358 m, and 433.65 to 438 m in the hole. A disseminated very fine to fine-grained pyrite mineralized section hosted by a sedimentary unit was intersected from 442.5 to 447.3 m.

The volcanic stratigraphy varied structurally from massive to foliated and sheared sections were intersected. Foliation was constantly 45 to 65 degrees to core axis in both holes and in hole CALD-22-02 below 305.3 m it steepened to 60 to 75 degrees to core axis. This may not be significant as no downhole surveying was conducted in the holes and the recorded structural measurements cannot be accurately interpreted.

In general, the core recovery for the diamond drill holes on the property has been 95-100 % with little core loss due to poor drilling methods or procedures. The rock quality (RQD) of the core was excellent ranging from 70-100 and only poor in a few fracture or shear zones (30-55).

ANALYTICAL TECHNIQUES AND RESULTS

A total of 199 samples of drill core were selected for analysis by the author from the above holes. All selected NQ drill core was split in half by a core cutting saw and a half bagged with the first part of a three-part assay tag bearing a unique identifier number. The other half of the core was stored at the logging facility with the second part of the three-part assay tag bearing an identical unique identifier number placed in the core box at the beginning of the sample interval. Records of the sampled intervals and sample numbers were recorded in the computerized drill logs, and the third part of the assay tag was filed. Most of the drill core samples were 1 m in core length, and ranged from 0.3 to 1.2 m. The remaining split drill core (half not sent to the lab) is presently stored at the NPHL Drilling core shack at 3700 Highway 101 West, Timmins.

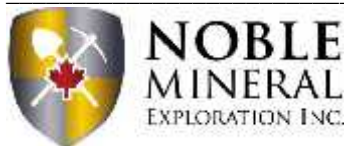
Exsics Exploration personnel were responsible for transporting the samples to the Activation Laboratories Ltd. ("Actlabs") Timmins analytical facility, a driving distance of approximately 4.5 km from the core shack. The Timmins Actlabs laboratory is individually certified to standards within ISO/IEC 17025-2005.

At the Timmins Actlabs facility, the sample is logged in the tracking system, weighed, dried and finely crushed to better than 80% passing a 2 mm screen. A split of up to 250 g is taken using a riffle splitter and pulverized (mild steel) to better than 95 % passing a 105-micron screen. Compressed air is used to clean the equipment between samples. Barren material is crushed between sample batches.

Noble Mineral requested the following analyses precious metal, and multi-element on the core samples from the 2022 drilling program:

Precious metal (1C OES Fire Assay-ICP)

The sample pulp (30 g) is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with Ag added as a collector and the mixture is placed in a fire clay crucible. The mixture is then preheated at 850°C, intermediate 950°C and finish 1060°C with the entire fusion process lasting 60 minutes. The crucibles are then removed from the



assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the Ag (doré bead) + Au, Pt and Pd.

The Ag doré bead is digested in hot (95°C) HNO₃ + HCl. After cooling for two hours the sample solution is analyzed for Au, Pt, Pd by ICP-OES. The Au lower detection limit is 2 ppb and the Pt, Pd lower detection limits are 5 ppb. The instrument is recalibrated every 45 samples. On each tray of 42 samples there are two method blanks, three sample duplicates, and two certified reference materials.

Multi-Element (1 E3 Aqua Regia-ICP)

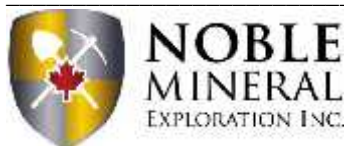
A 0.5g of sample pulp is digested with aqua regia. The sample is cooled and then diluted with deionized water. Next the sample is analyzed using an ICP instrument for the 38-element suite. Quality Control (QC) for the digestion is 15% for each sample batch. This consists of two method reagent blanks, six in-house controls, eight sample duplicates and five certified reference materials. An additional 20% QC is performed as part of the instrumental analysis to ensure quality in the areas of instrumental drift. The lower and upper detection limits of each element can be found on the Actlabs website.

The gold assay results from the drill core sampling were low ranging from <0.005 to 21 ppb Au. Base metal value were also low, the highest copper value was 469 ppm, the highest lead value was 1260 ppm, and the highest zinc value was 7170 ppm (0.7% Zn). These high base metal values correlated to the pyrrhotite mineralization intersected in the drill holes. They were isolated samples with bracket sampling. No further sampling is necessary.

All official laboratory certificates for assaying conducted on the drill core of the 2022 diamond drilling program are found in Appendix C. It should be noted that in assay certificate A22-11282 samples B604534 to B604536 are not from the drilling program.

CONCLUSION AND RECOMMENDATIONS

Beginning on or about July 15, 2022, Noble Mineral Exploration Ltd. undertook a two month-long exploration drilling program consisting of two holes totaling 901 m, on the northeast portion of the Calder Property. This drilling tested a 3.5 km long airborne electromagnetic conductor trend coincident with a magnetic high anomaly. The drilling



was successful in identifying a semi-massive to stringer sulphide zone as the cause of the airborne electromagnetic conductor in both holes. The best assay result from the drilling program was 21 ppb Au, 25 ppb Pd, 23 ppb Pt, 11.8 ppm Ag, 545 ppm Cu, Pb 1260 ppm Pb, and 7170 ppm Zn over 1 m in hole CALD-22-02. No further work is recommended at this time on the northeast portion of the Calder Property.

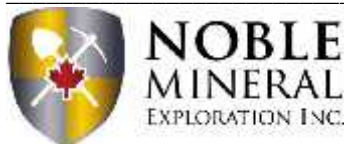
A review of the 2000 Ontario Geological Survey airborne electromagnetic survey results indicates a second EM conductor trend (approx. 2.5 km long) partially located on the property in southeast Calder Township. The northwest portion of the EM conductor trend may be a possible future drill target.

REFERENCES

Ayer, J.A., Thurston, P.C., Bateman, R., Dubé, B., Gibson, H.L., Hamilton, M.A., Hathway, B., Hocker, S.M., Houlé, M., Hudak, G.J., Ispolatov, V., Lafrance, B., Leshner, C.M., Macdonald, P.J., Péloquin, A.S., Piercey, S.J., Reed, L.E. and Thomson, P.H. 2005. Overview of results from the Greenstone Architecture Project: Discover Abitibi Initiative; Ontario Geological Survey, Open File Report 6154, 125p.

Ontario Geological Survey, 2000, Airborne magnetic and electromagnetic surveys, Cochrane area; Ontario Geological Survey map 82001, scale 1:20,000.

Ontario Geological Survey, 2001, Airborne magnetic and electromagnetic surveys, apparent conductance and electromagnetic anomalies, Cochrane area; Ontario Geological Survey map 82215, scale 1:50,000.



CERTIFICATE OF QUALIFICATIONS

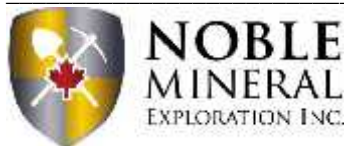
I, J. Kevin Montgomery, of the City of Timmins, Province of Ontario, do hereby certify that:

- (1) I am a professional Consulting Geologist, residing at 1190 Lozanne Crescent, Timmins Ontario, P4P 1E8.
- (2) I hold a B.Sc. Honours degree in Geological Sciences (1984) from Queen's University of Kingston, Ontario, and a M.Sc. (App.) in Mineral Exploration (1987) from McGill University at Montreal, Quebec.
- (3) I am a registered professional geoscientist with the Association of Professional Geoscientists of Ontario.
- (4) This report is based on my core logging of the two drill holes from the diamond drilling program on the Calder Property in 2022.
- (5) I have no personal interest in the property covered by this report.
- (6) Permission is granted for the use of this report, in whole or in part, for assessment and qualification requirements but not for advertising purposes.

J Kevin Montgomery

Dated at Timmins, Ontario
This 1st day of December 2022.

J. Kevin Montgomery, P.Geo., M.Sc. (App.)



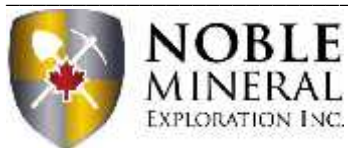
APPENDIX A CALDER PROPERTY CLAIM LIST

Unpatented Single Cell Mining Claims					
	Claim No.	Township	Reg Date	Due Date	Work Required
1	605120	Calder	2020-08-06	2023-08-06	\$800
2	605121	Calder	2020-08-06	2023-08-06	\$800
3	605122	Calder	2020-08-06	2023-08-06	\$800
4	605123	Calder	2020-08-06	2023-08-06	\$800
5	605124	Calder	2020-08-06	2023-08-06	\$800
6	605125	Calder	2020-08-06	2023-08-06	\$800
7	605126	Calder	2020-08-06	2023-08-06	\$800
8	605127	Calder	2020-08-06	2023-08-06	\$800
9	605128	Calder	2020-08-06	2023-08-06	\$800
10	605129	Calder	2020-08-06	2023-08-06	\$800
11	605130	Calder	2020-08-06	2023-08-06	\$800
12	605131	Calder	2020-08-06	2023-08-06	\$800
13	605132	Calder	2020-08-06	2023-08-06	\$800
14	605133	Calder	2020-08-06	2023-08-06	\$800
15	605134	Calder	2020-08-06	2023-08-06	\$800
16	605135	Calder	2020-08-06	2023-08-06	\$800
17	605136	Calder	2020-08-06	2023-08-06	\$800
18	605137	Calder	2020-08-06	2023-08-06	\$800
19	605138	Calder	2020-08-06	2023-08-06	\$800
20	605139	Calder	2020-08-06	2023-08-06	\$800
21	605140	Calder	2020-08-06	2023-08-06	\$800
22	605141	Calder	2020-08-06	2023-08-06	\$800
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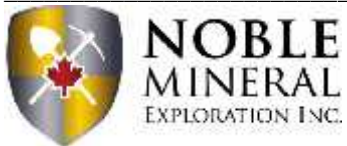
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APPENDIX B DRILL HOLE LOGS



HOLE: CALD-22-01

DIAMOND DRILL LOG

HOLE: CALD-22-01	
COMPANY: Nobel Mineral Exploration Inc.	
PROPERTY: Calder	Collar Azimuth: 035
LOCATION: Calder Twp. Ontario CLAIM: 605259	Collar Dip: -50
GRID: UTM Zone 17 NAD 83 GPS: 475817E, 5439700N	Hole Length: 419 m
OBJECTIVE: Test magnetic anomaly and coincident EM conductor.	NQ Core size
DRILLERS: Justin Morin Drilling	DRILLING DATE: July 20-August 7, 2022
COMMENTS: Successfully intersected Sulphide Zone at 335.3-339.7 m (cause of EM conductor).	
LOGGED BY: Kevin Montgomery P.Geo. on Aug 16 to 21, 2022	

Depth	Dip	Azimuth
0	-50	35

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
0	14.5	Overburden					
14.5	71.75	Mafic Volcanic Flows	Dark grey, moderately hard, VFg, foliated, mafic volcanics. They consist of a fine grained biotitic chlorite mafic matrix with 1-2% white plagioclase or clear quartz phenocrysts to specks. Local patches of 10-30% pale pink garnets(2-5 mm to locally 1 cm diameter size). Garnets subrounded (foliated areas) to ragged in shape. The patches are up to 0.8 m in core length generally 0.2-0.3 m long. They may represent flow selvages. Lower Amphibolite metamorphism. ALTERATION: local patchy silicification. STRUCTURE: moderately foliated, typically 50-55 to CA. VEINING: Minimal, locally white quartz and quartz-calcite stringers, local sections of 1-2%. MINERALIZATION: Locally trace pyrite.				
	14.00	18.00	10-15% white to greyish white silica? bands 2-8 cm wide and 45-60 to CA.				
	21.60	22.00	Ragged white quartz veinlet (2 cm), irregular orientation.				
	22.80	24.30	Brassy drill rod coating in a hard silicified section.				
	26.00	28.50	1-2% white quartz veinlets (5 mm), 30-40 to CA.	B603851	44	45	1
	32.50	34.50	1-2% white qtz veinlets/stringers(up to 1.5 cm)50 to CA.	B603852	45	45.5	0.5
	45.50	45.80	Brown strong pervasive silica-carbonate alteration halo about quartz-chlorite vein (2.5 cm wide), 60 to CA. Trace very fine pyrite.	B603853	45.5	46	0.5
				B603854	46	47	1
				B603855	47	47.8	0.8
	47.80	50.00	Brown strong patchy Vfg silica-carbonate alteration halos about 1-2% irregular quartz stringers. Trace fine pyrite.	B603856	47.8	48.9	1.1
				B603857	48.9	50	1.1
	50.00	52.00	FAULT? 2 m section of core loss indicated by drillers.	B603858	52	53	1

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
	52.00	55.50	Fractured core.				
	57.00	59.00	more brassy drill rod coating/smears.				
	59.00	59.40	two white quartz-calcite veinlets (5 mm)				
	59.75	59.90	Beige strong pervasive silica-carbonate zone no sulphides				
	70.80	70.90	MINERALIZATION: 5-7% Vfg pyrite disseminations to diffuse blebs in chlorite aphanitic band. Flow Selvage?	B603859	69	70	1
			Not the same appearance as Mafic dyke below	B603860	70	70.7	0.7
	70.90	71.75	MINERALIZATION: 0.5-1% Vfg pyrite as above.	B603861	70.7	71	0.3
			Lower Contact sharp at 35 to CA.	B603862	71	71.75	0.75
71.75	74.2	Mafic Dyke	Dark blackish green, soft,Vfg, homogeneous, massive non-magnetic mafic dyke. Fracture slips and minor gouge from 71.75-72.3 m. MINRALIZATION: trace to 0.5% Vfg disseminated pyrrhotite.	B603863	71.75	73	1.25
			Lower Contact sharp at 55 to CA.	B603864	73	74.2	1.2
74.2	82.35	Intermediate to Felsic Volcanic.	Brownish grey, very hard, Vfg, massive, homogenous, intermediate to felsic volcanicVfg to aphanitic felsic matrix with 10% fine mafics and 20% fine feldspar phenocrysts. ALTERATION: strong pervasive silicification and moderate. pervasive carbonate imparting brownish hue to unit. VEINING: 0.5-1% very fine quartz stringers/microfractures Randomly oriented and local fine carbonate halos (mm). MINERALIZATION: Nil				
			The upper portion to 76 m is cut by mafic dykelets.	B603865	74.2	75.45	1.25
	75.45	75.95	Mafic Dyke same as 71.45-74.2 m. Wavy UC 15 to CA and sharp LC 35 to CA. Nil sulphides	B603866	75.45	75.95	0.5
				B603867	75.95	77	1.05
	80.25	80.32	Beige Vfg carbonate-silica band with trace quartz-calcite stringers (1 mm). Band 35 to CA. Lower Contact gradational.				
82.35	103.85	Mafic Volcanic Flows	Dark green,moderately hard, VFg, mafic volcanics. They consist of a very fine biotitic chlorite mafic matrix with 1-2% white plagioclase or clear quartz phenocrysts to specks. Local patches of 10-30% pale pink garnets(2-5				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			mm to locally 1 cm diameter size). Garnets subrounded to ragged in shape. The patches generally 0.2-0.3 m long. Lower contact wide garnet rich zone from 101 to 103.85 m. ALTERATION: local silicification. STRUCTURE: massive with some weak foliation. VEINING: 2% white calcite-quartz stringers/veinlets.	B603868	89.5	90.5	1
			Randomly oriented and irregular.	B603869	90.5	91.25	0.75
			MINERALIZATION: Local patches of 10% Vfg brownish pyrrhotite disseminations to wispy stringers.	B603870	91.25	92	0.75
				B603871	92	93	1
	91.25	92.00	MINERALIZATION: 10% Vfg Pyrrhotite disseminations to wispy stringers.	B603872	93	93.75	0.75
				B603873	93.75	94.4	0.65
	94.40	95.00	MINERALIZATION:as above.	B603874	94.4	95	0.6
	99.55	99.81	Calcite-Quartz Breccia Zone- 25-30% angular ragged dark green mafic fragments in a white calcite- clear qtz matrix. Upper Contact 50 to CA and LC 20 to CA.	B603875	95	96	1
				B603876	96	97	1
	101.75	102.10	Light green Vfg carbonate (strong pervasive) band 55 to CA. Lower Contact marked by start of shearing 25 to CA.				
103.85	113.85	Sheared Mafic Volcanics	Dark green,banded, well sheared, VFg mafic volcanics. Same as unit above but sheared. Garnets disseminated throughout with some distinct pink Vfg-aphanitic garnet rich bands. STRUCTURE: well sheared starting at 25 to CA and steepening to 60 to CA below 110 m. Shearing weakens below 111.5 m.	B603877	105	106.2	1.2
			VEINING: 2% white calcite-quartz stringers parallel to shearing. MINERALIZATION: Trace disseminated Po	B603878	106.2	107.3	1.1
			with 2 cm wde pyrrhotite-silica band at 107.37 and a 5	B603879	107.3	107.6	0.3
			mm wide brown pyrrhotite stringer at 107.5 m.	B603880	107.6	108.5	0.9
			Lower Contact sharp 55 to CA.	B603881	108.5	109.5	1
113.85	136.5	Mafic Intrusive	Dark green, massive, nonmagnetic, homogenous Fg mafic intrusive or possibly intrusive textured flow. It does not contain garnets. It is comprised of 45% dark green chlorite laths, in a calcite matrix.	B603882	135.5	136.5	1
			VEINING: 2% white calcite stringers typically 50-60 to CA.				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			MINERALIZATION; trace finely disseminated silver sulphide. Lower Contact gradational marked by start of foliation.				
136.5	180.5	Mafic Volcanics Flows	Dark green,moderately hard, VFg, mafic volcanics. They consist of a fine grained biotitic chlorite mafic matrix with 1-2% white plagioclase or clear quartz phenocrysts to specks. Patches of 10-30% pale pink garnets(2-5 mm to locally 1 cm diameter size). Garnets subrounded (foliated areas) to ragged in shape. The patches are up to 0.8 m in core length generally 0.2-0.3 m long. From 167.5 to 177 m 20% garnets throughout the foliated section. At lower contact 179.6 to 180.5 m, 15% garnets. STRUCTURE: massive until 167.5 m then moderately foliated,65 to CA to end of unit. VEINING: Trace to 0.5% white quartz and quartz -calcite stringers, MINERALIZATION: Locally trace pyrite.	B603883	136.5	137	0.5
	136.55	137.00	strongly foliated 65 to CA. Trace pyrite disseminations	B603884	137	137.7	0.7
	137.00	138.45	Black aphanitic to Vf g amphibole rich section.	B603885	137.7	138.45	0.75
	137.00	137.70	MINERALIZATION: 1% pyrite dissem in the amphibolite.	B603886	138.45	139.2	0.75
	140.25	145.00	Fracture Zone Lower Contact sharp 25 to CA.				
180.5	185.45	Feldspar Porphyry	Pinkish light grey, massive homogenous feldspar porphyry. It consists of 10% white feldspar phenocrysts (1-5 mm) in an aphanitic felsic matrix. Harder than the mafic volcanics. ALTERATION: weak patchy pervassive Kspar. MINERALIZATION: Nil. VEINING: 2% very fine hairline quartz-calcite fractures (irregular orie) and a couple veinlets (up to 7 mm). Lower Contact sharp 40 to CA.	B603887	183.5	184.5	1
				B603888	184.5	185.45	0.95
185.45	189.1	Mafic Volcanics	Dark green,foliated,VFg, mafic volcanics intruded by . small feldspar porphyry dyklelets at 185.8-185.95&186.95-187.5 m. MINERALIZATION: brassy Fg Pyrite seam (3mm)				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			at 186.2 and 3% Fg disseminated pyrite at 187.5 m.	B603889	185.45	186.3	0.85
			VEINING:2% very fine hairline quartz-calcite fractures to irregular veinlets and blobs.	B603890	186.3	186.85	0.55
				B603891	186.85	187.3	0.45
187.30	188.70		STRUCTURE: Fracture brecciated section	B603892	187.3	188	0.7
188.70	189.10		Fault Breccia - soft aphanitic chlorite-calcite matrix with 20% angular pink feldspar porphyry and white qtz small fragments. Lower 30 cm Chlorite fault gouge at contact. Lower Contact sharp 45 to CA.	B603893	188	188.7	0.7
				B603894	188.7	189.1	0.4
189.1	193.5	Altered Feldspar Porphyry	Pinkish red, potassic altered, massive, homogenous FP. It consists of 3-5% white feldspar phenocrysts (1-5 mm) in an aphanitic potassic altered felsic matrix.. ALTERATION: weak patchy pervasive Kspar. MINERALIZATION: Nil. VEINING: 2-3% clear to white quartz and quartz-calcite veins (up to 4 cm). Irregular. Lower Contact sharp 40 to CA.	B603895	189.10	190.00	0.90
193.5	199.45	Feldspar Porphyry	same as 180.5 to 185.45 m. ALTERATION: None. MINERALIZATION: Nil. VEINING: 0.5% clear to white quartz and quartz-calcite veinlets (up to 1 cm). Irregular. Lower Contact sharp 45 to CA.				
199.45	330.3	Mafic Volcanic Flows	Dark green, weakly foliated, VFg, mafic volcanics. They consist of a fine grained biotitic chlorite mafic matrix with 1-2% white plagioclase or clear quartz phenocrysts to specks. 5-30% pale pink garnets throughout down to 233.3 m. From 218.8-220.55 & 221.8-222.3 50% fine (1-3 mm) garnets. Below 239.4 m till 260.5 m, patchy garnet (10-30%) sections up to 1m long. After 260.5 m,scattered garnets and massive flow. STRUCTURE: weakly foliated/flow banding 50-65 to CA. Below 260.5 m, massive with locally foliated sections. VEINING: 0.5% scattered clear quartz and white quartz-calcite stringers to veins and small patches.				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			MINERALIZATION: Rare local wispy Po stringers except where detailed below.	B603896	229.5	230.5	1
				B603897	230.5	231.4	0.9
231.40	232.15		MINERALIZATION:5% overall Vfg brown pyrrhotite. Disseminations, wispy blebs and small patch at 231.6 m.	B603898	231.4	232.15	0.75
			magnetic. Between two garnet rich flow selvages?	B603899	232.15	233	0.85
				B603900	233	234	1
233.30	239.40		Dark green, Vfg-Fg, massive, non magnetic, homogenous intrusive textured mafic flow with no garnets.				
239.80	240.70		MINERALIZATION:3-4% Vfg brown magnetic pyrrhotite. Disseminations, wispy blebs and local small patch.	B603901	238	239	1
				B603902	239	239.8	0.8
242.00	242.30		MINERALIZATION: 2% Vfg brown magnetic pyrrhotite. Wispy fine (1 mm) streaks parallel to foliation.	B603903	239.8	240.7	0.9
				B603904	240.7	241.4	0.7
276.75	278.00		3-4% white quartz-calcite stringers parallel to foliation & a large patch at 277.5-277.55 m.	B603905	241.4	242	0.6
				B603906	242	242.3	0.3
279.45	279.52		Clear quartz vein with minor calcite & chlorite, 55 to CA.	B603907	242.3	243	0.7
			Clear quartz veinlet (2 cm wide), 55 to CA.	B603908	243	244	1
286.15	288.70		17% clear quartz veins to veinlets with minor chlorite includes a large vein.				
288.20	288.50		Clear Vfg quartz vein, UC 65 to CA and LC 50 to CA.				
293.00	294.00		30% white quartz-calcite patches 10-15 cm long subparallel to weak foliation in section.				
			Clear quartz veinlet (1 cm), 65 to CA.	B604501	325	326	1
304.40	304.50		Clear quartz vein, 15% chlorite mafic streaks, 60 to CA.	B604502	326	327	1
313.30	313.40		Clear to white Quartz-calcite patch, 5% Chl mafic slivers	B604503	327	328	1
315.47	315.50		Clear quartz vein, 90 to CA.	B604504	328	329	1
318.30	318.45		Clear to white Quartz-calcite patch, 5% Chl mafic slivers	B604505	329	330	1
326.95	327.00		Clear quartz vein, 80 to CA.				
			Lower Contact of unit sharp but orientation undiscernable.				
330.3	334.2	Intermediate to Mafic Intrusive	Greenish grey, Vfg-Fg, massive, nonmagnetic, intrusive. It is comprised of 30-40% mafics in a felsic matrix.	B604506	330	331	1
				B604507	331	332	1
			VEINING: 1-2% white quartz-calcite stringers randomly oriented. MIN: Trace disseminated pyrite on fracture surfaces. ALTERATION: weak mauve patchy hematite.	B604508	332	333	1
				B604509	333	334	1
334.2	335.3	Mafic Volcanic	same as 199.45-330.3 m, sheared. Flows				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			Lower Contact gradational marked by silicification and presence of significant pyrrhotite mineralization.	B604510	334	335	1
335.3	339.7	SULPHIDE Zone	The zone consists of 30% overall brown metallic, Vfg-Fg, magnetic pyrrhotite in a silicified mafic volcanic.				
			Pyrrhotite ranges from disseminations, wispy stringers to semi-massive patches (20 cm wide). Highest (40%) concentration from 336.95 to 338.4m. This section has semi-massive patches that are 75-80% Vfg brown Po hosting subangular mafic volcanic fragments (1-3cm size) 0.5% brassy Vfg-Fg pyrite disseminations to blebs in the semi-massive Po. Chalcopyrite seen by Ed van Hees with a 40X binocular microscope. The host is a light grey, Vfg-Fg, very hard silicified mafic volcanic with 3-5% black chlorite stringers/fractures in the upper portion (335.3-336.5 m). ALTERATION: strong to moderate pervasive silicification. VEINING: None. Lower Contact gradational.	B604511	335	336	1
				B604512	336	337	1
				B604513	337	338	1
				B604514	338	339	1
				B604515	339	340	1
				B604516	340	341	1
				B604517	341	342	1
				B604518	342	343	1
				B604519	343	344	1
				B604520	344	345	1
339.7	358	Mafic Volcanic	Blackish green, Vfg-aphanitic, magnetic, massive, mafic volcanics. VEINING: Local quartz veins (<5 cm wide). MIN: 3-5% Vfg magnetic brown pyrrhotite disseminations to wispy stringers.	B604521	345	346	1
				B604522	346	347	1
				B604523	347	348	1
				B604524	348	349	1
	340.40	340.45	Clear Vfg quartz vein with minor calcite, 65 to CA.	B604525	349	350	1
		348.35	Clear Vfg quartz vein (2.5 cm), 75 to CA.	B604526	350	351	1
		349.00	Clear Vfg quartz veinlet (1 cm), 75 to CA.	B604527	351	352	1
	354.20	354.33	Pink soft wavy calcite patch.	B604528	352	353	1
		357.25	Clear Vfg quartz veinlet (1 cm), 90 to CA	B604529	353	354	1
			Lower Contact sharp but orientation undiscernable.	B604530	354	355	1
				B604531	355	356	1
358	359.15	Mafic Intrusive	Dark green, Fg, massive, homogenous, mafic intrusive consisting of 50% mafics interlocked with white feldspar/ quartz. VEINING: None. MIN: Trace very fine Po dissem. Lower Contact sharp 55 to CA.	B604532	356	357	1
				B604533	357	358	1

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
359.15	372.8	Mafic Volcanics	Same as 339.7-358 m. VEINING: local Qtz & Qtzcal veins	B603909	368.00	369.00	1.00
			MINERALIZATION: 0.5-1% Vfg magnetic brown Po	B603910	369.00	370.00	1.00
			disseminations to wispy stringers/foliation. No alteration.	B603911	370.00	371.00	1.00
			Below 370.5 m, pyrrhotite content increases to 2-3%.	B603912	371.00	372.00	1.00
			Lower Contact gradational.	B603913	372.00	372.80	0.80
372.8	376.4	SULPHIDE Zone	The zone consists of 10% brown metallic, Vfg-Fg, magnetic pyrrhotite stringers to wispy blebs hosted by Vfg to aphanitic massive mafic volcanic (same as above unit). Lower Contact sharp 65 to CA.	B603914	372.80	373.50	0.70
				B603915	373.50	374.50	1.00
				B603916	374.50	375.50	1.00
				B603917	375.50	376.40	0.90
376.4	377.4	Mafic Intrusive	same as 358-359.15 m. Lower Contact sharp 75 to CA.	B603918	376.40	377.40	1.00
377.4	387.9	Mafic Volcanics	Same as 339.7-358 m. VEINING: local qtz, quartz-calcite and qtz-chlorite veins. MINERALIZATION: Upper portion 2-3% Vfg brown magnetic pyrrhotite disseminations to wispy blebs/stringers (377.4-379.5 m). Then 0.5% Po disseminations and small 5 cm wide zone at bottom of unit. ALTERATION: mauve weak patchy hematization 377.4 to 379 m.	B603919	377.40	378.50	1.10
				B603920	378.50	379.50	1.00
				B603921	379.50	380.50	1.00
		362.00	Clear Vfg quartz vein (2 cm), 45 to CA.				
363.88		363.91	White quartz-calcite veinlet(1.5 cm), 35 to CA.				
		366.50	White quartz-calcite veinlet(1 cm), 35 to CA.				
		380.50	white calcite fracturing.				
		384.75	Clear Vfg quartz-chlorite vein (4 cm), 65 to CA.				
		387.60	MIN: 7% Vfg brown Po wispy foliation, 45-50 to CA.				
		387.75	Clear to white Vfg quartz-chlorite vein, 50 to CA.				
		387.85	ALTERATION: weak to moderate pervasive carbonatization. Unit is gradational into garnetiferous mafic flows.				
387.9	419	Mafic Volcanic Flows	Dark green, weakly foliated, VFg, mafic volcanics. They consist of a fine grained biotitic chlorite mafic matrix with 1-2% white plagioclase or clear quartz phenocrysts to specks. Local patches of 10-30% pale pink garnets(2-5				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			mm). Garnets subrounded in shape. Patches are 0.1-0.5 m in core length generally 0.2-0.3 m long. They may represent flow selvages. STRUCTURE: moderate foliation/flow banding 50-60 to CA VEINING:0.5% clear quartz to white quartz -calcite veins (0.5-5 cm wide) that are parallel or crosscut foliation. MINERALIZATION: Disseminated Vfg brown Po as random spots. Overall trace.				
388.55	388.65		MIN: 15% Vfg brown magnetic Po wispy streaks 65 to CA. Parallel to foliation.				
397.68	397.71		White quartz-calcite veinlet(1.5 cm), 45 to CA.				
400.02	400.05		Clear Vfg quartz-chlorite vein (2.5 cm), 70 to CA.				
401.28	401.37		MIN: 1% Vfg brown Po partially rimming deformed QV.				
402.78	402.81		Clear to pinkish white quartz veinlet (2 cm) with minor pink calcite, 45 to CA.				
	404.12		Clear Vfg quartz veinlet (0.5 cm), 55 to CA. Minor calcite and mafic volcanic slivers.				
	404.41		same as above.				
406.12	406.18		MIN:Vfg brown pyrrhotite patch with pyrite.				
	407.32		Clear Vfg quartz veinlet (1 cm), 80 to CA cross cutting foliation.				
410.38	410.40		Greyish white Vfg quartz veinlet (1 cm) with pink garnets (10%), 80 to CA.				
411.45	411.48		Clear Vfg quartz vein (3 cm), 85-90 to CA.				
417.10	417.26		Clear Vfg quartz-chlorite vein with irregular contacts. Generally 50 to CA. No alteration halos or sulphides.				
417.60	417.90		Clear to white quartz-chlorite vein running parallel to CA with wavy contacts.				
419 EOH			End of the hole. 99 core boxes				

FOLIATION/SHEARING MEASUREMENTS

DEPTH	CA	DEPTH	CA
15.5	60	271.2	55
24.5	50	277.0	50
32.0	50	285.5	55
35.4	55	387.5	60
40.0	50	390.2	50
45.3	50	393.0	50
53.2	55	399.5	55
60.2	45	405.6	45
104.0	25	410.9	55
104.2	35	415.5	60
106.0	47		
107.0	55		
110.0	60		
113.3	60		
136.7	65		
167.9	65		
171.0	65		
173.5	65		
176.0	65		
179.4	55		
186.0	40		
202.2	55		
206.7	60		
209.3	60		
214.8	65		
219.1	65		
222.4	50		
227.1	65		
231.1	55		
240.3	50		
242.4	55		
246.7	55		
250.7	60		
256.5	65		

HOLE: CALD-22-01
 COMPANY: Nobel Minerals Exploration Inc.
 PROPERTY: Calder
 LOCATION: Calder Twp. Ontario CLAIM: 605267
 GRID: UTM Zone 17 NAD 83 GPS: 476085E, 5439477N
 OBJECTIVE: Test magnetic anomaly and coincident EM conductor.
 DRILLERS: Justin Morin drilling DRILLING DATE: August 10 to September 5, 2022.
 COMMENTS: Successfully intersected Sulphide Zone at 169.6-170.65 m (cause of EM conductor).
 Collar Azimuth: 035
 Collar Dip: -50
 Hole Length: 482 m
 NQ Core size

Depth Dip Azimuth
 0 -50 35

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
0	17.4	Overburden					
17.4	66.4	Mafic Volcanic Flows	Dark green, moderately foliated, VFg, mafic volcanics. They consist of a dark green, Vfg-aphanitic, mafic matrix containing 10-15% fine chlorite wisps, local biotite, and local pinkish white garnet phenocrysts. Interflow and flow selvages are marked by Vfg-Fg, black to blackish green biotite-chlorite bands with 10-30% pale pink garnets (2-5 mm to locally 1 cm diameter size). Garnets subrounded in shape. The flow selvages/bands are 2 to 10 cm wide in the upper portion and progressively wider up to 1.15 m. Lower Amphibolite metamorphism. ALTERATION: None till below 59.3 m then patchy weak pervasive biotization imparting brownish mauve hue to unit. STRUCTURE: moderately foliated, typically 50-60 to CA. VEINING: Local clear quartz veins and white calcite veinlets. MINERALIZATION: Nil.				
	18.75	18.80	Clear Vfg Quartz vein with 10% chlorite fragments, ragged irregular vein contacts.				
		19.65	Clear Vfg Quartz vein (3 cm), 90 to CA.				
	21.10	22.45	Whitish grey bleached section.				
	22.95	23.10	Clear to white Vfg Quartz vein with 10% chlorite fragments.				
	28.70	28.78	Clear Vfg Quartz vein (6 cm) with 10% chlorite wisps/laths 40-45 to CA, ragged contacts.				
		40.80	Yellowish white aphanitic Calcite veinlet, 35 to CA.				
		40.98	White aphanitic Calcite veinlet (2 cm), 45 to CA.				
	42.25	42.33	Clear Vfg Quartz vein (5 cm), 45 to CA.				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
	43.60	43.68	Clear Vfg Quartz vein (5 cm), 55 to CA parallel to Fol.				
	47.45	47.60	Clear Vfg Quartz vein 40 to CA.				
		47.80	Clear Vfg Quartz veinlet (2 cm), 35 to CA.				
			Lower Contact gradational marked by last garnetiferous flow selvage.				
66.4	112.0	Mafic Volcanics	Dark green, massive, VFg, mafic volcanics. Same as above but without the garnetiferous flow selvages. ALTERATION: local brownish mauve, moderate pervasive biotization sections at 72.5-73.2, 76.75-77.5, 79.3-81.2, 90-95 and 108.5-110 m. STRUCTURE: massive to weakly foliated 50 to 65 to CA. VEINING: Local clear quartz veins and white calcite-quartz vein. MINERALIZATION: Nil.				
	69.15	69.25	White-cream, aphanitic wavy quartz-calcite vein 30 to CA				
	78.80	79.00	Clear Vfg Quartz vein with 15% dark green mafic volcanic selvages. Vein 60 to CA.	B603922	78.00	78.80	0.80
				B603923	78.80	79.60	0.80
	79.30	79.60	Quartz Veining Zone- 60% Vfg clear quartz veins (1-8 cm wide) at 60 to CA in biotized mafic volcanic.	B603924	79.60	80.40	0.80
				B603925	80.40	81.20	0.80
	81.20	81.50	White Vfg wavy Quartz vein with minor calcite, 15 to CA.	B603926	81.20	82.00	0.80
	88.67	88.70	White vfg Quartz-calcite vein (3 cm), 55 to CA.	B603927	82.00	83.00	1.00
		97.45	Clear Vfg Quartz veinlet (2 cm), 60 to CA.				
		97.90	Clear to white Vfg Quartz-calcite veinlet (1 cm), 60 to CA.				
		108.20	Greenish white Vfg quartz patch (5x7 cm). Lower contact gradational.				
112	140.0	Mafic Volcanic	Dark green, massive, nonmagnetic, homogenous Fg, intrusive textured mafic volcanic. It is comprised of 50% dark green mafic phenocrysts interlocked with 40% white felsics and contains 10% white leucoxene flecks coarser than groundmass. VEINING: Trace. MINERALIZATION: Nil.				
	114.20	114.45	Clear to white Vfg Quartz veinlet sub parallel CA.				
		132.20	Clear to white Vfg Quartz veinlet sub parallel CA. Lower Contact gradational with decrease in grain size and first black garnetiferous chlorite band at 140.8 m.				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
140	169.6	Biotitic Mafic Volcanic Flows	Dark green ,weakly foliated, VFg, biotitic mafic volcanics. They consist of a dark green Vfg-aphanitic mafic matrix containing 20-25% very fine biotite. Trace garnetiferous black chlorite bands at 140.8 m. STRUCTURE: weakly foliated 60 to 65 to CA and local strongly foliated section. VEINING: Local clear quartz veins and white calcite-quartz vein. MINERALIZATION: Nil till lower contact.				
	140.95	141.15	Clear Vfg Quartz vein with mafic volcanic selvages and minor calcite. Contacts undiscernable.	B603928	167.00	168.00	1.00
	163.10	166.10	STRUCTURE: strongly foliated, 65 to CA.	B603929	168.00	169.00	1.00
	169.40	169.60	MIN: 2-3% Very finely disseminated pyrrhotite. Lower Contact gradational with presence of sulphides.	B603930	169.00	169.60	0.60
169.6	170.65	SULPHIDE Zone	The zone consists of 10% brown mettalic, Vfg-Fg, magnetic pyrrhotite stringers, wispy blebs to semimassive patches (30% Po 170.3-170.65 m) hosted by a Vfg massive mafic volcanic (same as above unit). ALTERATION: patchy light grey moderate pervasive silicification. Lower Contact gradational.	B603931	169.60	170.30	0.70
				B603932	170.30	170.65	0.35
170.65	213.9	Mafic Volcanic Flows	Dark green, moderately foliated, VFg, mafic volcanics. They consist of a dark green, Vfg-aphanitic, mafic matrix containing 10-15% fine chlorite wisps, biotite, and local pinkish white garnet phenocrysts. Interflow and flow selvages are marked by Vfg-Fg black to blackish green biotite-chlorite bands with 10-30% pale pink garnets(2-5 mm to locally 1 cm diameter size). Garnets subrounded in shape. The flow selvages/bands are 0.5 to 10 cm wide with some wider sections noted below. ALTERATION: None till below 189.4 m silicification. STRUCTURE: moderately foliated, typically 65 to CA. VEINING: Local clear quartz veins and white calcite veinlets. MINERALIZATION: Locally trace pyrrhotite.	B603933	170.65	171.50	0.85
				B603934	171.50	172.50	1.00
				B603935	172.50	173.50	1.00
	174.20	177.80	Garnetiferous section 20% pink Mg irregular shaped	B603936	173.50	174.50	1.00

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			garnets disseminated throughout.	B603937	188.00	189.00	1.00
180.00	181.45		same as above.	B603938	189.00	190.00	1.00
184.70	185.00		Clear Vfg Quartz vein, no sulphides or alt halo 20 to CA.	B603939	190.00	191.00	1.00
188.30	188.35		Clear Vfg Quartz vein, irregular contacts, 70 to CA.	B603940	191.00	192.00	1.00
189.20	189.40		ALTERATION: beige moderate pervasive carbonate-silic	B603941	192.00	193.10	1.10
189.40	199.60		ALTERATION: Local greyish white silicified bands, grey	B603942	193.10	194.00	0.90
			to dark beige aphanitic carbonate-silica bands (chert	B603943	194.00	195.00	1.00
			beds? 199-199.6 m) parallel to foliation.Bands up to 20 c	B603944	195.00	195.50	0.50
			thick (197.1-197.3 m). Section also contains contorted	B603945	195.50	196.50	1.00
			quartz vein patches.	B603946	196.50	197.00	0.50
195.00	195.40		Two Vfg clear contorted Quartz veins (30-40% of section	B603947	197.00	197.50	0.50
	213.35		Contorted clear Quartz veinlet (2cm).	B603948	197.50	198.50	1.00
213.20	213.55		MIN: 10-12% Vfg brown Po disseminations to semi-	B603949	198.50	199.60	1.10
			massive at upper Quartz vein contact.	B603950	199.60	200.50	0.90
213.55	213.90		Clear Vfg Quartz vein with 10% black chloritic mafic volc.	B603951	210.50	211.50	1.00
			patches. No sulphides in vein.	B603952	211.50	212.50	1.00
			Lower contact obscured by vein.	B603953	212.50	213.20	0.70
				B603954	213.20	213.55	0.35
213.9	215.55	Shear Zone	Black, Vfg, very soft chlorite-calcite shear zone (sheared	B603955	213.55	213.90	0.35
			mafic volcanics). Mud gouge along shear slips. Shearing				
			75 to CA. No veining and nil sulphides.	B603956	213.90	214.70	0.80
			Lower contact gradational.	B603957	214.70	215.55	0.85
215.55	279.9	Mafic Volcanic Flows	Dark green, foliated, VFG to aphanitic, mafic volcanics	B603958	215.55	216.50	0.95
			with scattered garnet clumps and thin layers.	B603959	216.50	217.50	1.00
			ALTERATION: None.				
			STRUCTURE: Weakly foliated, typically 50 to CA.				
			VEINING: Local clear quartz veins and white calcite				
			veinlets.				
			MINERALIZATION: Local wispy pyrrhotite stringers (1-3				
			mm) at 219.4, 220.8, and 229.6 m.				
217.50	217.80		White highly contorted Quartz-calcite vein.				
224.20	224.25		Clear to white Vfg Quartz vein (5 cm), 35 to CA.				
225.70	225.90		White calcite-quartz stringers & clear Quartz vein 35 to C	B603960	241.00	242.00	1.00
243.70	243.80		MINERALIZATION: 3% Vfg pyrrhotite disseminations to	B603961	242.00	243.00	1.00
			wispy stringers.	B603962	243.00	244.00	1.00

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
	245.20	245.30	MIN: semi-massive Vfg brown pyrrhotite band, 60 to CA.	B603963	244.00	245.00	1.00
			65% sulphides.	B603964	245.00	245.50	0.50
	245.72	245.78	white Vfg Quartz-calcite vein wavy contacts 45 to CA.	B603965	245.50	246.50	1.00
		246.20	MIN: small patch of 10% Vfg pyrrhotite disseminations	B603966	246.50	247.50	1.00
		247.55	Pinkish white Calcite-quartz vein (3 cm), 65 to CA.	B603967	247.50	248.50	1.00
	248.70	248.74	Clear to white Vfg Quartz-calcite vein (3.5 cm), 40 to CA.				
		249.20	Clear to white Vfg Quartz-calcite veinlet (2 cm), 60 to CA.				
	251.00	251.15	Pinkish white Calcite-quartz vein, wavy contact 10 to CA.				
	252.50	272.00	Several scattered white or pinkish white quartz-calcite patches to veins (up to 5 cm wide).				
	272.23	272.28	Two merged white quartz-calcite veinlets, 55 to CA.				
	272.80	272.90	Clear to white Vfg Quartz-calcite vein (7 cm) 45 to CA with 7% chlorite material.				
	273.55	273.67	Irregular wavy pinkish white Vfg Quartz-calcite veinlet with 3% chlorite.				
	274.18	274.26	same as above, vein (4 cm), 45 to CA.				
	276.00	279.90	1-2% white Vfg calcite-quartz stringers to veinlets randomly oriented. Lower contact gradational marked by commencement of garnetiferous sections.				
279.9	303.7	Mafic Volcanic Flows	Dark green, moderately foliated, VFg, garnetiferous mafic volcanics same as 170.65-213.9 m. Garnetiferous sections contain up to 30% pinkish white subangular Mg (2-5 mm) garnets. Sections quite wide up to 3-4 m. STRUCTURE: moderately foliated, typically 55 to CA. VEINING: Local clear quartz veins and white calcite veinlets. MINERALIZATION: Locally trace pyrrhotite.				
	282.30	282.60	pinkish white Vfg Calcite-quartz vein with wavy & ragged contacts. Vein approx 20 to CA.				
	282.60	283.70	3% white Calcite-quartz veinlets (<1 cm), 30 to CA.				
		287.35	Clear to white calcite-quartz irregular patch.				
	288.38	288.42	Clear to white Calcite-quartz vein (3 cm), 75 to CA. Lower contact gradational marked by disappearance of garnets.				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
303.7	395	Mafic Volcanic Flows	Dark green, foliated, VFg to aphanitic, mafic volcanics with local garnetiferous sections (see below). Below 361.5 m, the unit becomes more garnetiferous with thin garnet-chlorite bands (5 mm to 2 cm) and wider sections. ALTERATION: Local sections of moderate to strong pervasive silicification. STRUCTURE: Weakly foliated, 70-75 to CA becoming moderately foliated below 344 m. VEINING: Local clear to white quartz veins and quartz-calcite veinlets. MINERALIZATION: Vfg brown magnetic disseminated pyrrhotite bands (up to 2 cm) and stringers/foliation scattered throughout unit. Higher concentrations see below	B603968	335.00	336.00	1.00
	303.60		MINERALIZATION: Vfg massive pyrrhotite band (5 cm?) 40 cm of lost core 302-305 in fractured section.	B603969 B603970	336.00 337.00	337.00 338.00	1.00 1.00
323.52	323.55		Light grey aphanitic Quartz vein (2.5 cm), 75 to CA.	B603971	338.00	339.00	1.00
326.55	326.90		Garnetiferous-chlorite rich section Vfg garnet bands in chlorite matrix and 30% white quartz-calcite irregular vein	B603972 B603973	339.00 340.00	340.00 341.00	1.00 1.00
328.20	328.35		Section of 30% clear VFg quartz-calcite veins to veinlets 75 to CA.	B603974 B603975	341.00 342.00	342.00 343.00	1.00 1.00
330.75	330.82		80% clear to white quartz veining.	B603976	343.00	344.00	1.00
332.90	330.05		Garnetiferous section- 15% pink Vfg-Fg garnets.	B603977	344.00	345.00	1.00
337.00	351.00		MINERALIZATION: 2% Vfg pyrrhotite disseminations to wispy foliation/stringers throughout section.	B603978 B603979	345.00 346.00	346.00 347.00	1.00 1.00
			ALTERATION: moderate to strong pervasive silicification	B603980	347.00	348.00	1.00
340.85	341.00	FAULT ZONE	Greyish white Vfg-aphanitic quartz with grt silicified mafic volcanic angular fragments (cm), 3% Vfg brassy pyrite disseminations to wisps, graphite filled microfractures. Graphite gouge seam (5 cm) at 341m.	B603981 B603982	348.00 349.00	349.00 350.00	1.00 1.00
			MINERALIZATION: 7-10% Vfg pyrrhotite wispy foliations stringers in a strongly foliated section, 70 to CA.	B603983 B603984	350.00 351.00	351.00 352.00	1.00 1.00
351.00	352.30		MINERALIZATION: same as 337-351 m.	B603985	352.00	353.00	1.00
352.30	356.70		MINERALIZATION: 10% Vfg pyrrhotite stringer network pink to white, Vfg, Calcite-quartz vein, wavy orientation.	B603986 B603987	353.00 354.00	354.00 355.00	1.00 1.00
356.70	358.00		5% clear Vfg quartz veins (2 cm) and white quartz-calcite veins in section.	B603988	355.00	356.00	1.00
360.23	360.32		same as above.	B603989	356.00	356.70	0.70
364.00	366.00			B603990	356.70	357.30	0.60
				B603991	357.30	358.00	0.70
374.90	375.45			B603992	358.00	359.00	1.00
				B603993	359.00	360.00	1.00

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
		381.05	white vfg Calcite-quartz veinlet (1.5 cm), 40 to CA.				
	383.97	384.05	clear Vfg Quartz vein with 10% green mafic volcanic selvages vein 70 to CA				
	384.80	384.90	clear Vfg Quartz vein with ragged contacts.				
		392.48	clear Vfg Quartz veinlet (2 cm), 70 to CA parallel to foliation. Lower contact gradational with disappearance of garnets and weakening of foliation.				
395	433.05	Mafic Volcanics	Dark green, weakly foliated, VFg to aphanitic, mafic volcanics alternating with Fg, massive, intrusive textured mafic volcanics sections eg 397.7-402.5 and 420.8-425.4 m. Rare garnets in the Vfg sections. Garnetiferous band at 432.1 m possible flow selvage. STRUCTURE: massive to locally weakly foliated,75 to CA. VEINING: Scattered clear or white quartz veinlets to veins. ALTERATION: Local bleached light green sections eg 409.35 to 409.85 m. MINERALIZATION: Locally trace pyrrhotite except at lower contact.				
		399.53	clear Vfg Quartz veinlet (2 cm) with ragged contacts.				
	403.40	403.45	clear to white Vfg Quartz vein (4.5 cm) with 5% green mafic volcanic selvages. Vein 65 to CA.				
	414.54	414.60	clear to white Vfg Quartz-calcite vein with minor pink calcite 85 to CA.				
	418.70	418.80	clear Vfg Quartz vein 65 to CA with minor white & pink calcite.				
	423.75	424.05	clear to white Vfg Quartz vein (4.5 cm) with 5-7% green mafic volcanic selvages & trace pink calcite. Vein lower contact 65 to CA.	B603994	431.00	432.00	1.00
	432.00	432.05	MIN: overall 1% Vfg brown pyrrhotite as scattered fine wisps along foliation, 80 to CA. Lower Contact Sharp 75 to CA.	B603995	432.00	433.05	1.05
433.05	447.3	Sediments	Dark grey to light grey, Vfg-aphanitic, bedded sedimentary unit. Fine black graphitic argillite beds interbedded with light grey wacke beds. ALTERATION: moderate to strong pervasive silicification. STRUCTURE: Bedded 75 to CA and local fault gouge. MINERALIZATION: Variable amounts of pyrite				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
			and pyrrhotite, from 0.5% to 17% see descriptions below.				
443.05	433.65		MIN: 0.5% Vfg brown pyrrhotite as local wisps parallel to bedding.	B603996	433.05	433.65	0.60
				B603997	433.65	434.50	0.85
433.65	434.50		MIN: 15-17% Vfg metallic brown magnetic pyrrhotite stringer network in a light grey aphanitic silicified sediment bed.	B603998	434.50	435.00	0.50
				B603999	435.00	436.00	1.00
				B604000	436.00	437.00	1.00
			MIN: Brassy Vfg pyrite irregular shaped blob/fracture filling.				
434.50	438.00		MIN: 1-2% Vfg brown pyrrhotite wispy stringers/foliation parallel to bedding, small brassy Vfg pyrite blob at 436.95				
438.00	438.55		MIN: 7% Vfg pyrite (locally Fg) finely disseminated parallel to bedding. 0.5% Vfg Po disseminations. Host is a light grey bedded silicified sediment with thin black argillite beds.				
438.55	438.62		Black soft Graphite gouge Fault, 75 to CA.				
438.55	448.00		STRUCTURE: strongly fractured, poor RQD				
438.60	440.70		MIN: 1% Vfg pyrite disseminations in light grey Vfg silicified sediment and black graphitic argillite.	B604551	437.00	438.00	1.00
440.70	442.50		Light green, Vfg, soft, massive, homogenous, mafic volcanic? Strongly fractured. Nil sulphides. Fault gouge a	B604552	438.00	438.55	0.55
			441.3 m. Contacts orientations undiscernable.	B604553	438.55	439.00	0.45
				B604554	439.00	440.00	1.00
442.50	443.00		MIN: 2-3% brassy Vfg pyrite disseminations along beddir	B604555	440.00	440.70	0.70
443.00	443.85		MIN: 1% Vfg pyrite disseminations, 20 cm loss core, strongly fractured.	B604556	440.70	441.50	0.80
				B604557	441.50	442.50	1.00
443.85	444.35		MIN: 15% Vfg-Fg pyrite disseminations in a grey to white Vfg Quartz vein. Vein has a ribbony sheared texture & 45	B604558	442.50	443.00	0.50
			to CA. It contains 5% blackish green Vfg soft chlorite	B604559	443.00	443.85	0.85
			blobs to patches.	B604560	443.85	444.35	0.50
				B604561	444.35	445.15	0.80
444.35	445.15		MIN: 1-2% Vfg-Fg pyrite disseminations in light grey Vfg silicified sediment.	B604562	445.15	445.60	0.45
				B604563	445.60	446.50	0.90
445.15	445.60		MIN: 8% Vfg-Fg pyrite disseminations in light grey Vfg silicified sediment and black argillite. Section has 7-10% white Vfg quartz veinlets (3-5 mm) crosscutting bedding at 60 to CA.	B604564	446.50	447.30	0.80
445.60	447.30		MIN:5% same as above but no veining and 35% core loss.				
			Lower Contact gradational.				

FROM	TO	LITHOTYPE	GEOLOGICAL DESCRIPTION	SAMPLE	FROM	TO	LENGTH
447.3	450.75	Mafic Volcanic	Light green, Vfg, soft, massive, homogenous, non-magnetic, volcanic. ALTERATION: none. VEINING: none. STRUCTURE: massive, minor chlorite coated fractures. MIN: 0.5% brassy Vfg pyrite occurring as disseminations and thin (1-2 mm) stringers. Lower Contact gradational.	B604565	447.30	448.00	0.70
				B604566	448.00	449.00	1.00
				B604567	449.00	450.00	1.00
450.75	479.55	Biotitic Mafic Volcanic	Black, Vfg-fg, homogenous, massive, biotitic mafic volcanic containing 5-7% white calcite-quartz specks (amygdules?). STRUCTURE: massive to weakly foliated 75-80 to CA. ALTERATION: strong pervasive biotization and moderate to strong calcite. MINERALIZATION: Nil. VEINING: trace to 0.5% clear Vfg quartz veinlets (0.5-2 cm) generally 70-80 to CA subparallel to weak foliation.				
	462.90	463.15	Pale light green, strongly foliated/sheared, Vfg, Chlorite-biotite zone. Foliation 80 to CA with tight isoclinal folding of the chlorite layers and biotite foliation. Fold axial planes 50 to CA.				
	472.20	472.30	same as above, no folding, Foliation and contacts 80 to CA.				
	477.35	477.42	Greyish white, Fg, granodiorite dykelet, 75 to CA. Lower Contact Sharp 80 to CA.				
479.55	481.75	Biotitic Felsic Intrusive	White, black speckled, Vfg-Fg, massive, biotitic, felsic intrusive (granodiorite?). It is comprised of 25% black biotite flecks within a Vfg-Fg felsic matrix. Trace muscovite. ALTERATION: none. VEINING: none. MINERALIZATION: Nil. STRUCTURE: massive.				
	480.00	480.10	Black, biotitic mafic volcanic (same as above), 65 to CA.				
	481.55	481.75	same as 480-480.1 m. upper contact 60 to CA.				
	481.75	EOH	End of the hole. 114 core boxes				

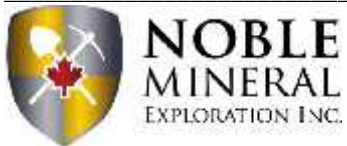
BEDDING MEASUREMENTS

DEPTH	CA
433.1	75
437.0	75
442.6	60

FOLIATION MEASUREMENTS

DEPTH	CA	DEPTH	CA	DEPTH	CA
18.3	55	197.1	65	378.1	75
22.3	60	200.9	65	382.0	75
26.3	55	203.6	60	387.3	75
29.2	60	207.5	65	390.5	75
32.5	55	212.1	65	394.0	75
35.1	55	215.1	75 shear	403.5	75
39.2	55	221.1	65	413.3	70
44.2	55	225.5	50	426.5	80
47.0	50	230.2	40	431.0	75
51.6	50	233.3	50	458.3	80
55.0	60	237.4	50	465.5	75
60.4	55	239.4	45	472.2	75
63.4	60	244.9	45		
66.3	55	249.8	50		
75.4	40	254.8	50		
77.5	50	263.3	70		
83.5	55	267.5	65		
87.5	60	275.3	60		
92.0	65	278.3	55		
95.0	60	286.5	55		
99.5	70	290.0	50		
106.8	55	296.2	55		
124.0	55	299.1	60		
142.0	70	305.3	70		
146.2	60	319.9	75		
150.6	60	326.5	75		
155.4	60	330.5	70		
159.0	65	339.5	75		
164.1	65	345.0	75		
166.5	65	348.5	65		
173.1	70	351.4	70		
178.9	65	353.2	75		
183.0	65	358.8	70		
188.1	65	363.0	75		
191.1	60	369.4			

APPENDIX C GEOCHEMICAL ANALYTICAL CERTIFICATES





Report No.: A22-11282
Report Date: 17-Aug-22
Date Submitted: 10-Aug-22
Your Reference: Calder

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

ATTN: Vance White

CERTIFICATE OF ANALYSIS

36 Rock samples were submitted for analysis.

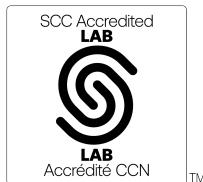
Table with 3 columns: Analytical package requested, Description, and Testing Date. Rows include 1A2-Timmins, 1C-OES-Timmins, and 1E3-Timmins.

REPORT A22-11282

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Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3.
Values which exceed the upper limit should be assayed for accurate numbers.



LabID: 709

ACTIVATION LABORATORIES LTD.
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CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Emmanuel Esemé, Ph.D.
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-11282

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	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	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
B604501	6	< 0.2	< 0.5	144	458	< 1	30	< 2	20	2.55	< 2	< 10	17	< 0.5	2	2.68	21	21	2.23	< 10	< 1	0.03	< 10
B604502	8	< 0.2	< 0.5	92	367	< 1	20	< 2	12	2.38	3	< 10	13	< 0.5	2	3.02	14	13	1.35	< 10	< 1	0.03	< 10
B604503	6	< 0.2	< 0.5	81	344	< 1	22	< 2	15	1.78	< 2	< 10	12	< 0.5	< 2	2.30	16	15	1.38	< 10	< 1	0.03	< 10
B604504	5	< 0.2	< 0.5	136	378	< 1	25	< 2	20	2.05	< 2	< 10	16	< 0.5	< 2	2.28	21	20	2.03	< 10	< 1	0.05	< 10
B604505	5	< 0.2	< 0.5	112	687	< 1	39	< 2	39	2.58	< 2	< 10	28	< 0.5	< 2	2.96	31	44	3.59	< 10	< 1	0.09	< 10
B604506	< 5	< 0.2	< 0.5	144	708	< 1	56	< 2	53	1.68	4	< 10	79	< 0.5	< 2	1.78	45	43	3.91	< 10	< 1	0.26	10
B604507	< 5	< 0.2	< 0.5	102	629	< 1	51	< 2	34	1.29	7	< 10	36	< 0.5	< 2	2.94	37	42	2.66	< 10	< 1	0.13	< 10
B604508	6	< 0.2	< 0.5	136	216	< 1	48	< 2	22	0.95	22	< 10	21	< 0.5	< 2	1.49	45	39	1.44	< 10	< 1	0.08	< 10
B604509	5	< 0.2	< 0.5	145	268	< 1	52	< 2	16	1.44	3	< 10	29	< 0.5	< 2	2.28	40	32	1.62	< 10	< 1	0.07	< 10
B604510	6	< 0.2	< 0.5	134	438	< 1	45	< 2	34	1.49	2	< 10	< 10	< 0.5	< 2	2.39	36	27	2.40	< 10	< 1	0.04	< 10
B604511	7	< 0.2	< 0.5	143	997	5	59	67	367	2.31	6	< 10	11	< 0.5	3	3.44	29	31	8.97	< 10	< 1	0.06	< 10
B604512	9	0.3	3.0	125	1440	4	56	566	1380	2.67	8	< 10	< 10	< 0.5	3	5.68	29	33	10.1	< 10	1	0.03	12
B604513	15	0.5	< 0.5	357	596	< 1	144	7	86	0.64	57	< 10	< 10	< 0.5	8	0.53	234	14	27.4	< 10	< 1	0.03	< 10
B604514	9	0.3	< 0.5	252	605	< 1	99	5	246	0.92	21	< 10	< 10	< 0.5	3	1.60	55	11	18.2	< 10	< 1	0.03	< 10
B604515	8	0.3	< 0.5	197	566	< 1	80	4	96	1.78	8	< 10	< 10	< 0.5	3	1.82	30	22	12.4	< 10	< 1	0.03	< 10
B604516	7	< 0.2	< 0.5	155	596	< 1	60	< 2	47	2.64	3	< 10	< 10	< 0.5	< 2	2.99	45	30	3.62	< 10	< 1	0.02	< 10
B604517	7	< 0.2	< 0.5	139	605	< 1	67	< 2	61	2.71	4	< 10	19	< 0.5	3	2.83	46	30	4.03	< 10	< 1	0.03	< 10
B604518	7	< 0.2	< 0.5	126	557	< 1	57	< 2	27	3.00	3	< 10	16	< 0.5	2	2.99	42	28	3.66	< 10	< 1	0.03	< 10
B604519	6	< 0.2	< 0.5	119	433	< 1	61	< 2	44	3.47	< 2	< 10	22	< 0.5	3	3.20	45	21	5.27	< 10	< 1	0.03	< 10
B604520	6	< 0.2	< 0.5	103	489	< 1	63	< 2	56	3.55	4	< 10	22	< 0.5	3	3.08	48	26	5.50	< 10	< 1	0.03	< 10
B604521	7	< 0.2	< 0.5	123	512	< 1	60	2	48	3.26	3	< 10	19	< 0.5	2	2.98	43	30	6.45	< 10	< 1	0.03	< 10
B604522	7	0.2	< 0.5	117	287	< 1	58	< 2	24	2.14	4	< 10	18	< 0.5	3	2.30	46	17	6.87	< 10	< 1	0.02	< 10
B604523	6	0.4	< 0.5	127	243	< 1	66	< 2	16	2.11	3	< 10	13	< 0.5	3	2.21	56	14	6.99	< 10	< 1	0.03	< 10
B604524	6	0.3	< 0.5	128	357	< 1	84	< 2	64	1.89	3	< 10	< 10	< 0.5	2	3.36	43	54	6.96	< 10	< 1	0.04	< 10
B604525	9	0.3	< 0.5	129	424	< 1	53	< 2	46	2.45	3	< 10	20	< 0.5	2	2.80	48	24	7.61	< 10	< 1	0.05	< 10
B604526	7	0.2	< 0.5	91	439	< 1	59	< 2	55	2.82	4	< 10	14	< 0.5	< 2	2.92	45	24	6.10	< 10	< 1	0.03	< 10
B604527	< 5	0.3	< 0.5	120	489	< 1	55	< 2	60	2.90	7	< 10	21	< 0.5	3	2.86	46	26	6.96	< 10	< 1	0.04	< 10
B604528	< 5	0.3	< 0.5	126	588	1	64	4	52	2.32	12	< 10	18	< 0.5	4	2.64	50	27	7.40	< 10	< 1	0.06	< 10
B604529	< 5	0.2	< 0.5	115	440	< 1	58	< 2	27	2.75	3	< 10	15	< 0.5	< 2	2.94	40	22	3.59	< 10	< 1	0.05	< 10
B604530	< 5	< 0.2	< 0.5	153	431	< 1	55	< 2	18	1.94	3	< 10	12	< 0.5	< 2	2.42	44	19	4.38	< 10	< 1	0.05	< 10
B604531	< 5	< 0.2	< 0.5	158	547	1	58	< 2	26	2.21	4	< 10	10	< 0.5	< 2	2.26	43	37	4.11	< 10	< 1	0.06	< 10
B604532	< 5	< 0.2	< 0.5	133	410	< 1	47	< 2	19	2.00	< 2	< 10	15	< 0.5	< 2	2.22	32	21	2.56	< 10	< 1	0.05	< 10
B604533	< 5	0.2	< 0.5	167	546	< 1	54	< 2	26	2.77	5	< 10	25	< 0.5	3	3.18	37	29	3.30	< 10	< 1	0.08	< 10
B604534	5	0.3	< 0.5	25	537	4	14	< 2	24	1.05	< 2	< 10	51	< 0.5	3	0.92	4	28	2.39	< 10	< 1	0.07	< 10
B604535	1160	24.0	59.9	4320	848	7	23	2580	> 10000	2.01	44	11	< 10	0.5	27	0.76	67	26	7.67	10	2	0.51	25
B604536	1220	23.9	59.7	4370	859	8	23	2610	> 10000	2.02	41	< 10	< 10	0.5	30	0.77	69	27	7.73	10	1	0.51	25

Results

Activation Laboratories Ltd.

Report: A22-11282

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5
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	FA-ICP	FA-ICP	FA-ICP
B604501	0.76	0.237	0.022	0.22	< 2	7	47	0.24	< 20	5	< 2	< 10	53	< 10	9	2			
B604502	0.45	0.235	0.022	0.13	< 2	5	51	0.23	< 20	1	< 2	< 10	34	< 10	8	1			
B604503	0.44	0.192	0.024	0.17	< 2	5	38	0.26	< 20	4	< 2	< 10	38	< 10	9	1			
B604504	0.63	0.229	0.024	0.29	< 2	7	43	0.27	< 20	4	< 2	< 10	53	< 10	10	2			
B604505	1.43	0.220	0.051	0.23	< 2	12	45	0.30	< 20	5	< 2	< 10	112	< 10	11	3			
B604506	1.40	0.093	0.070	0.31	< 2	13	12	0.36	< 20	2	< 2	< 10	137	< 10	9	3			
B604507	1.08	0.065	0.025	0.16	2	12	11	0.34	< 20	5	< 2	< 10	116	< 10	9	2			
B604508	0.63	0.057	0.027	0.17	< 2	8	6	0.43	< 20	5	3	< 10	118	< 10	12	3			
B604509	0.59	0.049	0.024	0.31	< 2	6	6	0.37	< 20	7	< 2	< 10	88	< 10	11	3			
B604510	0.84	0.086	0.041	0.47	< 2	8	20	0.31	< 20	2	3	< 10	77	< 10	11	3			
B604511	1.49	0.053	0.019	5.06	5	10	22	0.23	< 20	< 1	< 2	< 10	88	< 10	9	5	8	11	15
B604512	1.34	0.027	0.034	5.99	3	8	23	0.22	< 20	< 1	< 2	< 10	88	< 10	10	7	6	7	7
B604513	0.31	0.030	0.012	10.9	11	2	4	0.13	< 20	< 1	< 2	< 10	45	< 10	4	9	12	25	11
B604514	0.25	0.048	0.017	9.64	7	3	9	0.20	< 20	< 1	< 2	< 10	49	< 10	7	7	5	12	6
B604515	0.58	0.056	0.020	6.77	6	5	10	0.25	< 20	< 1	< 2	< 10	70	< 10	8	5	5	13	< 5
B604516	0.97	0.136	0.025	1.16	4	8	33	0.25	< 20	2	< 2	< 10	70	< 10	9	2			
B604517	1.09	0.164	0.025	1.27	2	9	38	0.23	< 20	< 1	< 2	< 10	75	< 10	8	2			
B604518	0.95	0.208	0.024	1.14	5	9	44	0.25	< 20	3	< 2	< 10	72	< 10	9	2			
B604519	0.73	0.223	0.026	2.58	2	6	45	0.28	< 20	2	< 2	< 10	59	< 10	9	3			
B604520	0.89	0.178	0.024	2.42	3	7	42	0.26	< 20	< 1	< 2	< 10	67	< 10	9	3			
B604521	0.97	0.122	0.024	3.00	3	8	30	0.29	< 20	4	< 2	< 10	73	< 10	10	3			
B604522	0.48	0.155	0.021	2.84	4	4	25	0.26	< 20	2	< 2	< 10	47	< 10	9	3			
B604523	0.34	0.198	0.023	3.65	4	3	32	0.28	< 20	3	< 2	< 10	44	< 10	9	4			
B604524	0.60	0.052	0.033	3.72	3	4	21	0.25	< 20	< 1	< 2	< 10	52	< 10	9	6			
B604525	0.66	0.181	0.022	3.39	4	5	31	0.27	< 20	< 1	< 2	< 10	65	< 10	10	4			
B604526	0.68	0.139	0.023	3.11	4	6	28	0.25	< 20	< 1	< 2	< 10	61	< 10	9	4			
B604527	0.84	0.163	0.022	2.74	6	6	31	0.26	< 20	< 1	< 2	< 10	63	< 10	9	3			
B604528	1.04	0.129	0.022	3.39	4	7	28	0.25	< 20	< 1	< 2	< 10	71	< 10	9	3			
B604529	0.81	0.216	0.023	1.39	4	7	66	0.24	< 20	3	2	< 10	56	< 10	10	2			
B604530	0.86	0.167	0.022	1.90	< 2	7	56	0.17	< 20	< 1	< 2	< 10	53	< 10	7	2			
B604531	1.51	0.134	0.028	0.97	3	13	29	0.22	< 20	< 1	< 2	< 10	89	< 10	8	3			
B604532	0.89	0.173	0.023	0.51	< 2	8	44	0.25	< 20	3	< 2	< 10	57	< 10	9	2			
B604533	1.21	0.245	0.023	0.69	2	12	70	0.25	< 20	< 1	< 2	< 10	79	< 10	10	2			
B604534	0.35	0.056	0.035	< 0.01	< 2	3	41	0.12	< 20	4	< 2	< 10	23	< 10	10	8			
B604535	1.52	0.044	0.023	4.43	14	3	9	0.09	< 20	< 1	< 2	< 10	30	13	12	33			
B604536	1.54	0.044	0.024	4.45	13	3	9	0.09	< 20	< 1	< 2	< 10	30	14	12	33			

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	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	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	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	560	1270				> 5000	> 10000		214						94		11.1				
OREAS 134b (AQUA REGIA) Cert		204	563	1360				133000	177000		221						110		12.25				
OREAS 133a (Aqua Regia) Meas		93.8	285	299				> 5000	> 10000		130		< 10				20		7.22				
OREAS 133a (Aqua Regia) Cert		97	297	324				48600.00	106000.00		140		59				23		7.92				
OREAS 922 (AQUA REGIA) Meas		1.3	< 0.5	2260	787	< 1	35	63	265	2.84	5		73	0.8	13	0.42	21	45	5.31	10		0.43	40
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
OREAS 923 (AQUA REGIA) Meas		1.7	< 0.5	4430	901	< 1	34	82	342	2.82	7		55	0.7	22	0.41	23	41	6.19	< 10		0.35	37
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
OREAS 907 (Aqua Regia) Meas		1.4	< 0.5	6220	357	5	5	36	153	1.22	38		215	1.1	23	0.28	47	8	8.26	20		0.31	40
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
CDN-PGMS-27 Meas																							
CDN-PGMS-27 Cert																							
Oreas 621 (Aqua Regia) Meas		75.2	297	3620	559	13	40	> 5000	> 10000	1.74	81			0.6	5	1.64	30	56	3.51	10	4	0.33	21
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
CDN-PGMS-30 Meas																							
CDN-PGMS-30 Cert																							
OREAS 239 (Fire Assay) Meas	3440																						
OREAS 239 (Fire Assay) Cert	3550																						
OREAS 239 (Fire Assay) Meas	3430																						
OREAS 239 (Fire Assay) Cert	3550																						
OREAS 263 (Aqua Regia) Meas		0.3	< 0.5	88	537	< 1	74	37	135	1.90	32		171	1.4	5	1.07	34	58	3.84	< 10	< 1	0.36	
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	
OREAS 130 (Aqua Regia) Meas		6.2	27.3	216	1570	6	31	1240	> 10000	1.19	199				5	1.64	26	22	6.83	< 10	< 1	0.49	26
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	0.500	26.4	
Oreas 623 (Aqua Regia) Meas		19.1	48.0	> 10000	526	6	14	2100	9150	1.59	73			< 0.5	14	0.98	198	16	12.0	10	3	0.15	18

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
Lower Limit	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	0.01	10
Method Code	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	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) 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
Oreas E1336 (Fire Assay) Meas	513																						
Oreas E1336 (Fire Assay) Cert	510.000																						
Oreas E1336 (Fire Assay) Meas	505																						
Oreas E1336 (Fire Assay) Cert	510.000																						
B604507 Orig		< 0.2	< 0.5	104	630	< 1	53	< 2	35	1.30	7	< 10	35	< 0.5	< 2	2.95	37	42	2.66	< 10	< 1	0.13	< 10
B604507 Dup		< 0.2	< 0.5	101	628	< 1	50	< 2	34	1.29	7	< 10	36	< 0.5	< 2	2.94	37	42	2.65	< 10	< 1	0.13	< 10
B604510 Orig	5																						
B604510 Dup	6																						
B604520 Orig	6																						
B604520 Dup	7																						
B604524 Orig		0.2	< 0.5	129	357	< 1	83	< 2	64	1.89	3	< 10	< 10	< 0.5	2	3.31	43	54	6.97	< 10	< 1	0.04	< 10
B604524 Dup		0.3	< 0.5	126	357	< 1	85	< 2	65	1.89	2	< 10	< 10	< 0.5	3	3.41	43	53	6.94	< 10	< 1	0.04	< 10
B604530 Orig	< 5																						
B604530 Dup	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 5																						
Method Blank	< 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	< 0.01	< 10
Method Blank																							
Method Blank																							

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5
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	FA-ICP	FA-ICP	FA-ICP
OREAS 134b (AQUA REGIA) Meas				16.3															
OREAS 134b (AQUA REGIA) Cert				19.31															
OREAS 133a (Aqua Regia) Meas				10.8	132														
OREAS 133a (Aqua Regia) Cert				10.7	147														
OREAS 922 (AQUA REGIA) Meas	1.30	0.025	0.061	0.37	3	4	16	< 20		< 2	< 10	32	< 10	21	14				
OREAS 922 (AQUA REGIA) Cert	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	1.40		0.059	0.69	3	3	14	< 20		< 2	< 10	31	< 10	19	24				
OREAS 923 (AQUA REGIA) Cert	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	0.22	0.085	0.022	0.06	6	2	13	0.02	< 20	< 1	< 2	< 10	6	< 10	7	6			
OREAS 907 (Aqua Regia) Cert	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																	4480	1880	1210
CDN-PGMS-27 Cert																	4800	2000	1290.00
Oreas 621 (Aqua Regia) Meas	0.43	0.141	0.034	4.82	118	2	18	< 20		< 2	< 10	11	< 10	8	74				
Oreas 621 (Aqua Regia) Cert	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																	1910	1610	212
CDN-PGMS-30 Cert																	1900	1660	223
OREAS 239 (Fire Assay) Meas																			
OREAS 239 (Fire Assay) Cert																			
OREAS 239 (Fire Assay) Meas																			
OREAS 239 (Fire Assay) Cert																			
OREAS 263 (Aqua Regia) Meas	0.60	0.076	0.041	0.12	9	4	18	< 20		2	< 2	< 10	26		13				
OREAS 263 (Aqua Regia) Cert	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	0.84		0.080	5.96	8	3	21	0.03	< 20	< 1	3	< 10	32	15	12	30			
OREAS 130 (Aqua Regia) Cert	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	0.95	0.056	0.043	8.66	23	4	13	< 20		< 1	< 2	< 10	14	< 10	8	63			

Analyte Symbol	Mg	Na	P	S	Sb	Sc	Sr	Ti	Th	Te	Tl	U	V	W	Y	Zr	Au	Pd	Pt
Unit Symbol	%	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb
Lower Limit	0.01	0.001	0.001	0.01	2	1	1	0.01	20	1	2	10	1	10	1	1	2	5	5
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	FA-ICP	FA-ICP	FA-ICP
Oreas 623 (Aqua Regia) Cert	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 E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
Oreas E1336 (Fire Assay) Meas																			
Oreas E1336 (Fire Assay) Cert																			
B604507 Orig	1.08	0.065	0.026	0.17	2	12	11	0.34	< 20	3	2	< 10	116	< 10	9	2			
B604507 Dup	1.08	0.066	0.025	0.16	2	12	11	0.35	< 20	7	< 2	< 10	117	< 10	9	2			
B604510 Orig																			
B604510 Dup																			
B604520 Orig																			
B604520 Dup																			
B604524 Orig	0.60	0.052	0.033	3.78	3	4	20	0.25	< 20	< 1	< 2	< 10	52	< 10	9	6			
B604524 Dup	0.60	0.052	0.033	3.65	3	4	21	0.25	< 20	< 1	< 2	< 10	52	< 10	9	6			
B604530 Orig																			
B604530 Dup																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank																			
Method Blank	< 0.01	0.006	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 20	< 1	< 2	< 10	< 1	< 10	< 1	< 1			
Method Blank																	5	< 5	< 5
Method Blank																	5	< 5	< 5



Report No.: A22-15750
Report Date: 17-Nov-22
Date Submitted: 27-Sep-22
Your Reference:

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

ATTN: Vance White

CERTIFICATE OF ANALYSIS

71 Rock samples were submitted for analysis.

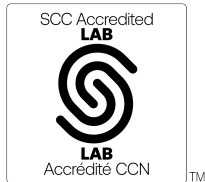
Table with 3 columns: Analytical package requested, Method, and Testing Date. Rows include 1C-OES-Timmins, 1E3-Timmins, QOP PGE-OES, and QOP AquaGeo.

REPORT A22-15750

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Notes:

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



LabID: 709

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CERTIFIED BY:

Handwritten signature of Mark Vandergeest

Mark Vandergeest
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-15750

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
B603851	6	< 5	< 5	< 0.2	< 0.5	33	514	< 1	66	< 2	45	1.95	< 2	< 10	25	< 0.5	< 2	1.22	22	128	3.00	< 10	< 1
B603852	7	< 5	< 5	< 0.2	< 0.5	147	1980	< 1	53	< 2	37	2.24	3	< 10	30	< 0.5	3	2.51	24	39	7.42	< 10	< 1
B603853	6	< 5	< 5	< 0.2	< 0.5	76	775	< 1	70	< 2	56	2.00	< 2	< 10	79	< 0.5	< 2	3.40	34	94	3.27	< 10	< 1
B603854	7	< 5	< 5	< 0.2	< 0.5	131	623	< 1	58	< 2	48	2.12	< 2	< 10	18	< 0.5	< 2	2.40	29	62	3.12	< 10	< 1
B603855	5	< 5	< 5	< 0.2	< 0.5	91	675	< 1	37	< 2	46	1.99	< 2	< 10	12	< 0.5	< 2	2.03	19	49	3.00	< 10	< 1
B603856	5	< 5	< 5	0.2	< 0.5	94	918	< 1	83	< 2	113	2.95	< 2	< 10	135	< 0.5	3	2.01	32	109	4.28	< 10	< 1
B603857	6	< 5	< 5	< 0.2	0.7	114	921	< 1	24	4	510	2.51	< 2	< 10	48	< 0.5	3	1.79	16	29	3.94	< 10	< 1
B603858	4	< 5	< 5	< 0.2	< 0.5	90	737	< 1	59	< 2	72	1.50	2	< 10	19	< 0.5	< 2	2.53	31	68	3.29	< 10	< 1
B603859	6	< 5	< 5	1.2	< 0.5	61	523	2	48	< 2	55	1.69	< 2	< 10	187	< 0.5	< 2	1.70	23	96	3.14	< 10	< 1
B603860	5	< 5	< 5	< 0.2	< 0.5	9	443	< 1	45	< 2	49	1.71	< 2	< 10	283	< 0.5	< 2	0.89	12	102	2.58	10	< 1
B603861	6	< 5	< 5	0.4	< 0.5	211	989	2	126	3	46	2.70	< 2	< 10	56	< 0.5	< 2	2.08	47	115	7.29	< 10	< 1
B603862	4	< 5	< 5	< 0.2	< 0.5	92	573	< 1	163	4	69	1.55	< 2	< 10	81	< 0.5	< 2	1.36	61	264	4.00	< 10	< 1
B603863	4	< 5	< 5	< 0.2	< 0.5	20	526	< 1	139	< 2	63	2.30	2	< 10	11	< 0.5	< 2	1.23	31	885	4.19	10	< 1
B603864	6	< 5	< 5	< 0.2	< 0.5	1	469	< 1	127	< 2	59	2.43	< 2	< 10	338	< 0.5	< 2	1.09	29	1010	3.89	10	< 1
B603865	5	< 5	< 5	< 0.2	< 0.5	85	645	1	99	5	78	2.11	3	< 10	267	< 0.5	< 2	1.32	35	320	4.41	10	< 1
B603866	4	< 5	< 5	0.8	< 0.5	3	439	< 1	107	< 2	60	2.30	2	< 10	495	< 0.5	< 2	1.08	26	849	3.60	10	< 1
B603867	5	< 5	< 5	< 0.2	< 0.5	7	451	< 1	50	3	43	1.44	< 2	< 10	76	< 0.5	< 2	1.44	16	123	2.42	< 10	< 1
B603868	6	< 5	< 5	< 0.2	< 0.5	79	1240	< 1	53	< 2	45	2.49	< 2	< 10	39	< 0.5	< 2	3.06	28	88	6.09	10	< 1
B603869	6	< 5	< 5	< 0.2	< 0.5	80	1270	< 1	15	< 2	20	2.53	< 2	< 10	18	< 0.5	2	3.18	20	24	6.88	< 10	< 1
B603870	4	< 5	< 5	< 0.2	< 0.5	233	1150	< 1	21	< 2	40	2.51	3	< 10	27	< 0.5	< 2	2.41	30	23	7.47	10	< 1
B603871	5	< 5	< 5	< 0.2	< 0.5	57	886	< 1	33	< 2	52	2.13	< 2	< 10	17	< 0.5	< 2	3.28	24	38	4.57	< 10	< 1
B603872	5	< 5	< 5	0.3	< 0.5	118	842	< 1	32	< 2	36	2.25	< 2	< 10	41	< 0.5	< 2	2.87	28	43	5.31	10	< 1
B603873	4	< 5	6	< 0.2	< 0.5	143	1120	< 1	64	< 2	35	2.06	< 2	< 10	33	< 0.5	< 2	3.18	37	75	4.81	< 10	< 1
B603874	4	< 5	< 5	< 0.2	< 0.5	106	1160	< 1	58	< 2	72	2.44	< 2	< 10	26	< 0.5	2	3.16	34	75	6.30	< 10	< 1
B603875	4	< 5	< 5	0.2	< 0.5	79	1020	< 1	43	< 2	34	1.64	< 2	< 10	17	< 0.5	< 2	3.76	25	54	3.61	< 10	< 1
B603876	4	< 5	< 5	0.3	< 0.5	27	843	< 1	50	< 2	67	1.86	< 2	< 10	31	< 0.5	< 2	2.95	29	42	4.13	< 10	< 1
B603877	4	< 5	< 5	< 0.2	< 0.5	47	986	< 1	60	< 2	44	2.72	< 2	< 10	114	< 0.5	3	3.24	22	110	4.96	< 10	< 1
B603878	4	< 5	< 5	< 0.2	< 0.5	60	1290	< 1	79	203	178	2.42	< 2	< 10	76	< 0.5	3	2.67	23	142	5.37	< 10	< 1
B603879	6	< 5	< 5	< 0.2	< 0.5	151	805	< 1	112	< 2	51	1.86	3	< 10	57	< 0.5	2	2.76	40	128	6.36	< 10	< 1
B603880	4	< 5	< 5	< 0.2	< 0.5	58	983	< 1	87	< 2	36	2.21	< 2	< 10	134	< 0.5	< 2	4.82	25	138	3.70	< 10	< 1
B603881	6	< 5	< 5	< 0.2	< 0.5	79	891	< 1	103	< 2	40	2.73	< 2	< 10	97	< 0.5	3	3.59	29	100	4.63	< 10	< 1
B603882	6	< 5	< 5	< 0.2	< 0.5	69	819	< 1	24	< 2	48	1.61	< 2	< 10	13	< 0.5	< 2	4.19	18	46	3.42	< 10	< 1
B603883	7	< 5	< 5	< 0.2	< 0.5	88	719	< 1	26	< 2	54	1.78	< 2	< 10	23	< 0.5	< 2	3.41	23	8	4.42	< 10	< 1
B603884	5	< 5	< 5	< 0.2	< 0.5	108	804	< 1	31	< 2	69	2.29	< 2	< 10	56	< 0.5	< 2	3.22	36	1	6.61	< 10	< 1
B603885	4	< 5	< 5	0.3	< 0.5	119	681	< 1	21	< 2	62	2.00	< 2	< 10	30	< 0.5	< 2	2.27	35	5	5.69	< 10	< 1
B603886	4	< 5	< 5	< 0.2	< 0.5	< 1	382	< 1	150	< 2	44	2.39	< 2	< 10	11	< 0.5	3	1.13	29	983	3.38	< 10	< 1
B603887	5	< 5	< 5	< 0.2	< 0.5	29	542	< 1	13	< 2	43	1.68	< 2	< 10	< 10	< 0.5	< 2	1.47	12	15	2.58	< 10	< 1
B603888	6	< 5	< 5	< 0.2	< 0.5	24	717	< 1	14	< 2	51	2.55	2	< 10	< 10	< 0.5	2	1.80	13	13	3.54	10	< 1
B603889	8	< 5	< 5	< 0.2	< 0.5	33	1860	< 1	15	< 2	43	3.71	< 2	< 10	< 10	< 0.5	6	2.38	21	10	8.28	10	< 1
B603890	6	< 5	< 5	< 0.2	< 0.5	32	2550	< 1	20	< 2	39	4.52	2	< 10	< 10	< 0.5	6	2.04	15	9	11.3	10	< 1
B603891	9	< 5	< 5	< 0.2	< 0.5	5	1040	< 1	17	< 2	35	3.13	< 2	25	< 10	< 0.5	2	1.63	13	10	5.42	10	< 1
B603892	7	< 5	< 5	< 0.2	< 0.5	160	1720	< 1	26	< 2	54	4.33	3	25	< 10	< 0.5	4	1.57	14	37	8.99	20	< 1
B603893	7	< 5	< 5	0.3	< 0.5	35	1150	< 1	45	< 2	41	5.39	4	39	< 10	0.8	6	3.73	21	99	6.00	20	< 1
B603894	5	< 5	< 5	< 0.2	< 0.5	25	1590	< 1	79	< 2	43	4.70	3	48	< 10	< 0.5	3	1.51	36	206	9.31	20	1
B603895	6	< 5	< 5	< 0.2	< 0.5	26	1010	< 1	31	< 2	41	3.23	< 2	24	< 10	< 0.5	3	1.19	20	57	5.52	10	< 1
B603896	6	< 5	< 5	< 0.2	< 0.5	93	988	< 1	50	< 2	79	1.82	< 2	< 10	33	< 0.5	< 2	2.79	34	67	4.27	< 10	< 1
B603897	6	< 5	< 5	0.6	< 0.5	84	1420	< 1	51	< 2	97	2.44	4	< 10	84	< 0.5	< 2	2.89	36	69	5.50	10	< 1
B603898	12	< 5	< 5	0.5	3.3	344	1420	5	58	8	2250	2.36	5	< 10	26	< 0.5	2	1.46	50	25	7.76	10	< 1
B603899	4	< 5	< 5	< 0.2	< 0.5	72	1020	< 1	43	< 2	102	2.75	2	< 10	91	< 0.5	< 2	3.10	28	50	4.59	< 10	< 1
B603900	5	< 5	< 5	0.7	< 0.5	67	620	< 1	50	3	63	1.70	< 2	< 10	50	< 0.5	< 2	2.95	27	75	3.58	< 10	< 1
B603901	9	< 5	< 5	< 0.2	< 0.5	131	374	< 1	75	< 2	37	1.87	< 2	< 10	69	< 0.5	< 2	1.70	25	98	2.27	< 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
B603902	9	< 5	< 5	0.3	< 0.5	93	877	< 1	79	< 2	136	4.01	< 2	< 10	203	< 0.5	4	4.11	30	87	4.39	10	< 1
B603903	9	< 5	< 5	0.4	1.6	99	674	2	43	6	1000	3.65	2	< 10	35	< 0.5	3	1.87	31	19	6.36	10	< 1
B603904	6	< 5	< 5	0.2	< 0.5	54	879	< 1	31	2	157	4.18	3	< 10	93	0.6	3	3.51	19	51	5.17	10	< 1
B603905	7	< 5	< 5	0.2	< 0.5	80	728	< 1	42	3	149	3.48	< 2	< 10	45	< 0.5	3	2.29	21	31	5.70	10	< 1
B603906	21	< 5	< 5	0.4	2.0	117	600	2	56	9	1060	2.35	< 2	< 10	36	0.5	2	1.81	56	26	5.76	< 10	< 1
B603907	8	< 5	< 5	< 0.2	< 0.5	47	1000	< 1	41	2	123	3.74	8	< 10	150	< 0.5	3	3.49	31	54	5.46	10	< 1
B603908	7	< 5	< 5	< 0.2	< 0.5	67	1010	< 1	41	< 2	92	2.69	< 2	< 10	62	< 0.5	< 2	3.68	30	47	4.05	10	< 1
B603909	6	18	< 5	< 0.2	< 0.5	137	429	< 1	51	< 2	20	4.23	3	< 10	46	< 0.5	4	3.65	36	22	2.82	< 10	< 1
B603910	5	19	18	< 0.2	< 0.5	81	724	3	49	9	33	2.58	< 2	< 10	25	< 0.5	3	2.91	37	34	3.62	< 10	< 1
B603911	6	19	8	< 0.2	< 0.5	158	438	< 1	56	< 2	21	3.26	3	< 10	25	< 0.5	3	3.12	44	22	3.52	< 10	< 1
B603912	5	17	20	< 0.2	< 0.5	105	339	< 1	57	6	33	1.83	4	< 10	11	< 0.5	2	1.87	45	18	5.13	< 10	< 1
B603913	3	14	15	< 0.2	< 0.5	101	323	< 1	54	< 2	20	2.68	< 2	< 10	28	< 0.5	< 2	2.82	43	14	4.08	< 10	< 1
B603914	15	17	17	0.3	< 0.5	133	319	< 1	65	< 2	28	1.56	3	< 10	< 10	< 0.5	< 2	1.89	56	14	7.78	< 10	< 1
B603915	5	16	15	0.2	< 0.5	205	324	2	70	3	55	2.19	4	< 10	13	< 0.5	2	1.55	60	18	8.84	< 10	< 1
B603916	5	17	18	< 0.2	< 0.5	174	438	2	71	4	54	2.06	3	< 10	12	< 0.5	2	1.71	60	23	8.45	< 10	< 1
B603917	5	15	15	0.2	< 0.5	182	459	< 1	70	< 2	63	1.36	2	< 10	14	< 0.5	< 2	1.30	59	33	8.51	< 10	< 1
B603918	4	7	11	< 0.2	< 0.5	87	719	3	36	5	56	2.42	3	< 10	26	0.5	< 2	3.42	29	90	4.22	< 10	< 1
B603919	4	15	19	< 0.2	< 0.5	100	621	2	66	< 2	75	1.46	3	< 10	34	< 0.5	< 2	1.77	56	43	6.96	< 10	< 1
B603920	5	10	14	< 0.2	< 0.5	97	945	< 1	42	2	80	2.78	< 2	< 10	87	< 0.5	2	2.66	37	76	5.56	< 10	< 1
B603921	8	13	17	< 0.2	< 0.5	124	788	2	50	2	75	2.61	3	< 10	74	< 0.5	< 2	3.38	40	53	4.46	< 10	< 1

Results

Activation Laboratories Ltd.

Report: A22-15750

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
B603851	0.07	< 10	1.42	0.170	0.044	0.04	2	7	14	0.16	< 20	5	< 2	< 10	61	< 10	6	5
B603852	0.16	< 10	0.76	0.138	0.034	1.78	4	10	16	0.17	< 20	5	< 2	< 10	87	< 10	8	6
B603853	0.56	< 10	1.19	0.168	0.051	0.12	2	19	17	0.31	< 20	< 1	< 2	< 10	222	< 10	13	3
B603854	0.10	< 10	1.08	0.232	0.057	0.17	< 2	15	21	0.24	< 20	3	< 2	< 10	157	< 10	12	3
B603855	0.08	< 10	1.09	0.212	0.049	0.06	< 2	12	17	0.21	< 20	4	< 2	< 10	111	< 10	11	3
B603856	0.42	< 10	1.10	0.187	0.035	0.13	3	12	29	0.22	< 20	5	< 2	< 10	130	< 10	7	3
B603857	0.24	11	0.82	0.098	0.046	0.36	3	7	25	0.20	< 20	3	< 2	< 10	70	< 10	8	7
B603858	0.07	< 10	0.90	0.169	0.050	0.15	< 2	15	12	0.23	< 20	4	< 2	< 10	151	< 10	13	3
B603859	0.51	11	1.26	0.143	0.048	0.11	< 2	12	16	0.24	< 20	6	< 2	< 10	121	< 10	9	9
B603860	0.78	17	1.21	0.119	0.046	0.02	< 2	6	20	0.21	< 20	4	< 2	< 10	59	< 10	5	19
B603861	0.48	< 10	2.13	0.173	0.054	1.46	5	11	18	0.34	< 20	4	< 2	< 10	114	< 10	8	5
B603862	0.18	< 10	1.25	0.088	0.056	0.59	2	11	20	0.45	< 20	9	< 2	< 10	123	< 10	11	4
B603863	0.03	46	3.09	0.026	0.128	0.12	6	3	22	0.28	< 20	3	< 2	< 10	84	< 10	6	8
B603864	0.96	29	3.24	0.064	0.172	< 0.01	4	3	29	0.30	< 20	8	< 2	< 10	88	< 10	6	11
B603865	0.64	14	1.98	0.147	0.081	0.28	3	11	33	0.35	< 20	6	< 2	< 10	110	< 10	9	9
B603866	1.41	32	2.86	0.092	0.164	< 0.01	5	4	31	0.30	< 20	7	3	< 10	84	< 10	7	14
B603867	0.22	16	1.05	0.133	0.065	0.02	< 2	7	17	0.26	< 20	3	< 2	< 10	70	< 10	8	13
B603868	0.21	< 10	1.34	0.306	0.064	0.27	3	15	16	0.28	< 20	7	< 2	< 10	137	< 10	16	6
B603869	0.15	10	1.29	0.361	0.067	0.28	3	16	18	0.19	< 20	6	< 2	< 10	159	< 10	21	8
B603870	0.17	10	1.42	0.326	0.071	0.97	3	16	13	0.22	< 20	1	< 2	< 10	163	< 10	21	8
B603871	0.12	< 10	1.24	0.263	0.053	0.09	2	13	18	0.33	< 20	6	< 2	< 10	119	< 10	15	4
B603872	0.20	< 10	1.44	0.267	0.063	0.21	3	16	16	0.26	< 20	2	< 2	< 10	157	< 10	17	5
B603873	0.18	< 10	1.30	0.253	0.044	0.29	< 2	14	12	0.27	< 20	7	< 2	< 10	130	< 10	11	4
B603874	0.17	< 10	1.41	0.302	0.048	0.55	4	13	17	0.21	< 20	< 1	< 2	< 10	120	< 10	10	4
B603875	0.11	< 10	1.14	0.237	0.045	0.15	< 2	12	16	0.29	< 20	5	< 2	< 10	107	< 10	13	3
B603876	0.15	< 10	1.29	0.284	0.053	0.05	2	14	12	0.29	< 20	1	< 2	< 10	121	< 10	15	3
B603877	0.93	< 10	1.04	0.252	0.047	0.22	2	13	16	0.30	< 20	3	< 2	< 10	129	< 10	9	3
B603878	0.50	< 10	0.96	0.238	0.046	0.59	2	12	15	0.21	< 20	< 1	< 2	< 10	110	< 10	9	3
B603879	0.39	< 10	0.86	0.192	0.041	1.88	5	10	13	0.17	< 20	7	< 2	< 10	93	< 10	8	4
B603880	0.70	< 10	0.85	0.222	0.048	0.23	< 2	11	18	0.24	< 20	4	< 2	< 10	105	< 10	8	3
B603881	0.58	< 10	1.00	0.271	0.042	0.67	2	8	29	0.20	< 20	8	< 2	< 10	79	< 10	7	3
B603882	0.09	< 10	1.04	0.197	0.048	0.08	< 2	12	14	0.21	< 20	7	< 2	< 10	93	< 10	13	3
B603883	0.13	< 10	1.27	0.195	0.044	0.12	2	13	16	0.22	< 20	2	< 2	< 10	173	< 10	11	3
B603884	0.25	< 10	1.51	0.263	0.045	0.27	< 2	18	22	0.28	< 20	2	< 2	< 10	319	< 10	12	4
B603885	0.12	< 10	1.31	0.309	0.071	0.32	< 2	21	19	0.23	< 20	7	< 2	< 10	260	< 10	14	5
B603886	0.04	22	3.12	0.026	0.111	< 0.01	4	2	20	0.27	< 20	7	< 2	< 10	62	< 10	3	13
B603887	0.04	10	1.00	0.076	0.049	0.02	< 2	7	11	0.23	< 20	6	< 2	< 10	89	< 10	8	6
B603888	0.05	< 10	1.32	0.059	0.047	< 0.01	< 2	7	20	0.25	< 20	1	< 2	< 10	88	< 10	8	5
B603889	0.07	< 10	2.03	0.034	0.040	0.48	4	7	31	0.21	< 20	< 1	< 2	< 10	88	< 10	7	5
B603890	0.05	< 10	2.84	0.019	0.036	0.09	4	8	24	0.20	< 20	6	< 2	< 10	93	< 10	7	6
B603891	0.07	< 10	2.13	0.037	0.043	0.03	< 2	9	27	0.25	< 20	5	< 2	< 10	84	< 10	8	6
B603892	0.07	< 10	2.42	0.020	0.050	0.17	4	9	23	0.24	< 20	3	< 2	< 10	75	< 10	8	6
B603893	0.11	< 10	2.20	0.072	0.047	0.15	4	13	46	0.28	< 20	2	< 2	< 10	131	< 10	10	7
B603894	0.13	< 10	3.31	0.036	0.046	0.22	3	17	38	0.37	< 20	7	< 2	< 10	148	< 10	9	9
B603895	0.08	< 10	1.93	0.049	0.046	0.01	3	13	21	0.28	< 20	5	< 2	< 10	117	< 10	8	6
B603896	0.10	< 10	0.93	0.198	0.060	0.25	< 2	20	10	0.29	< 20	5	< 2	< 10	194	< 10	19	4
B603897	0.15	< 10	1.07	0.214	0.062	0.37	4	21	10	0.28	< 20	6	< 2	< 10	205	< 10	19	5
B603898	0.19	15	1.00	0.100	0.037	3.22	5	7	13	0.18	< 20	8	< 2	< 10	50	< 10	13	17
B603899	0.12	< 10	0.97	0.275	0.057	0.28	< 2	16	29	0.25	< 20	8	< 2	< 10	134	< 10	16	4
B603900	0.09	13	1.14	0.192	0.071	0.20	< 2	13	19	0.20	< 20	6	< 2	< 10	109	< 10	14	4
B603901	0.10	< 10	1.25	0.268	0.025	0.04	< 2	12	14	0.17	< 20	5	< 2	< 10	103	< 10	5	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
B603902	0.54	< 10	1.09	0.147	0.034	0.49	< 2	12	41	0.26	< 20	5	< 2	< 10	107	< 10	11	5
B603903	1.00	20	1.03	0.204	0.028	2.27	3	8	33	0.19	< 20	5	< 2	< 10	43	< 10	17	26
B603904	0.47	17	1.07	0.101	0.064	1.09	2	10	60	0.27	< 20	4	< 2	< 10	65	< 10	15	6
B603905	0.70	15	1.31	0.132	0.044	1.70	4	12	35	0.25	< 20	5	2	< 10	80	< 10	12	14
B603906	0.19	14	0.71	0.075	0.064	2.78	3	6	10	0.17	< 20	3	< 2	< 10	49	< 10	16	24
B603907	0.41	< 10	1.34	0.151	0.055	0.40	2	16	33	0.25	< 20	6	< 2	< 10	144	< 10	16	6
B603908	0.15	< 10	1.27	0.228	0.065	0.21	2	16	31	0.21	< 20	3	< 2	< 10	133	< 10	17	3
B603909	0.04	< 10	0.77	0.505	0.024	0.75	< 2	9	93	0.26	< 20	9	< 2	< 10	64	< 10	9	2
B603910	0.06	< 10	1.43	0.210	0.023	0.88	< 2	14	33	0.18	< 20	5	< 2	< 10	94	< 10	7	3
B603911	0.03	< 10	0.72	0.349	0.024	1.27	3	8	74	0.25	< 20	3	< 2	< 10	64	< 10	8	3
B603912	0.03	< 10	0.66	0.122	0.026	2.62	3	6	21	0.17	< 20	6	< 2	< 10	57	< 10	6	4
B603913	0.04	< 10	0.39	0.395	0.024	2.12	< 2	5	66	0.27	< 20	7	< 2	< 10	53	< 10	10	4
B603914	0.03	< 10	0.39	0.227	0.022	3.60	3	5	30	0.26	< 20	4	< 2	< 10	55	< 10	9	5
B603915	0.04	< 10	0.59	0.240	0.021	4.73	4	7	27	0.23	< 20	6	< 2	< 10	65	< 10	8	5
B603916	0.05	< 10	0.82	0.166	0.023	3.92	3	9	21	0.25	< 20	5	< 2	< 10	82	< 10	9	5
B603917	0.06	< 10	1.02	0.054	0.022	4.72	5	8	11	0.29	< 20	14	< 2	< 10	104	< 10	9	5
B603918	0.16	18	1.88	0.142	0.154	0.70	3	12	54	0.21	< 20	7	< 2	< 10	110	< 10	10	7
B603919	0.20	< 10	1.15	0.072	0.032	3.31	4	9	15	0.29	< 20	4	< 2	< 10	118	< 10	9	5
B603920	0.28	17	2.23	0.113	0.121	1.19	3	12	34	0.28	< 20	4	< 2	< 10	149	< 10	10	5
B603921	0.18	< 10	1.65	0.213	0.068	0.93	3	14	42	0.26	< 20	6	< 2	< 10	118	< 10	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 133a (Aqua Regia) Meas				97.4	282	298				> 5000	> 10000		100		< 10				20		7.25		
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	2230	766	< 1	33	60	257	2.75	5		96	0.7	12	0.37	19	45	5.05	< 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	2270	774	< 1	35	67	279	2.91	5		96	0.7	8	0.38	20	44	5.05	< 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	4390	889	< 1	31	79	335	2.81	6		80	0.7	18	0.38	22	41	5.93	< 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	< 0.5	4250	867	< 1	32	78	361	2.82	6		75	0.6	21	0.37	24	41	5.65	< 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	6650	361	5	7	35	158	1.28	28		301	1.1	16	0.27	45	10	8.36	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				1.3	< 0.5	6370	353	5	6	37	162	1.29	34		297	1.1	26	0.27	48	10	7.94	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 621 (Aqua Regia) Meas				64.3	271	3440	513	10	23	> 5000	> 10000	1.59	52			0.5	4	1.46	27	28	3.24	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				72.4	293	3620	537	13	26	> 5000	> 10000	1.74	71			0.6	5	1.53	30	32	3.30	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	1810	1620	228																				
CDN-PGMS-30 Cert	1897.0 00	1660	223																				
CDN-PGMS-30 Meas	1800	1720	230																				
CDN-PGMS-30 Cert	1897.0 00	1660	223																				
CDN-PGMS-30 Meas	1760	1650	214																				
CDN-PGMS-30 Cert	1897.0 00	1660	223																				
OREAS 263				0.2	< 0.5	92	520	< 1	69	36	133	1.87	21		235	1.4	4	1.01	32	58	3.79	< 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
(Aqua Regia) Meas																							
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				0.3	< 0.5	90	528	< 1	73	37	144	1.94	28		232	1.4	4	1.05	33	57	3.79	< 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				6.7	27.8	223	1600	6	29	1220	> 10000	1.20	152				8	1.55	26	24	6.88	< 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				6.1	28.6	215	1600	7	32	1290	> 10000	1.23	188				6	1.64	28	23	6.60	< 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				20.0	49.7	> 10000	544	7	16	2230	9030	1.72	57			< 0.5	6	0.95	207	18	12.7	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				18.3	46.9	> 10000	511	7	12	2140	9330	1.58	67			< 0.5	15	0.95	197	12	10.7	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
B603857 Orig	5	< 5	< 5																				
B603857 Dup	6	< 5	< 5																				
B603864 Orig				< 0.2	< 0.5	1	473	< 1	127	< 2	58	2.41	< 2	< 10	337	< 0.5	< 2	1.10	29	1000	3.87	10	< 1
B603864 Dup				< 0.2	< 0.5	1	466	< 1	127	< 2	60	2.45	< 2	< 10	340	< 0.5	< 2	1.07	29	1010	3.91	10	< 1
B603867 Orig	5	< 5	< 5																				
B603867 Dup	5	< 5	< 5																				
B603878 Orig				< 0.2	< 0.5	61	1310	< 1	79	206	179	2.46	< 2	< 10	77	< 0.5	3	2.73	23	145	5.45	< 10	< 1
B603878 Dup				< 0.2	< 0.5	60	1260	< 1	78	200	176	2.38	< 2	< 10	74	< 0.5	3	2.62	23	139	5.28	< 10	< 1
B603897 Orig	6	< 5	< 5																				
B603897 Dup	7	< 5	< 5																				
B603899 Orig	4	< 5	< 5																				
B603899 Split PREP DUP	7	< 5	< 5																				
B603902 Orig				0.3	< 0.5	94	887	< 1	80	< 2	137	4.08	< 2	< 10	190	< 0.5	4	4.15	30	88	4.45	10	< 1
B603902 Dup				0.3	< 0.5	92	868	< 1	79	< 2	135	3.94	3	< 10	217	< 0.5	3	4.07	29	86	4.33	10	< 1
B603906 Orig	22	< 5	< 5																				
B603906 Dup	19	< 5	< 5																				
Method Blank	6	< 5	< 5																				
Method Blank	6	< 5	< 5																				
Method Blank	6	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	19	< 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				0.5	< 0.5	< 1	< 5	< 1	< 1	< 2	3	< 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	3	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	3	< 5	< 5																				
Method Blank	4	< 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
OREAS 133a (Aqua Regia) Meas						8.99	124											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.42	35	1.24	0.032	0.060	0.35	4	3	15		< 20		< 2	< 10	33	< 10	18	23
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	0.44	37	1.34	0.030	0.060	0.36	5	4	16		< 20		< 2	< 10	34	< 10	19	13
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	0.36	33	1.36		0.058	0.66	4	3	14		< 20		< 2	< 10	33	< 10	17	8
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	0.35	33	1.39		0.056	0.65	3	3	14		< 20		< 2	< 10	33	< 10	17	12
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	39	0.23	0.120	0.024	0.07	6	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	0.35	39	0.23	0.112	0.023	0.06	6	2	13	0.02	< 20	2	< 2	< 10	6	< 10	7	10
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 621 (Aqua Regia) Meas	0.31	18	0.39	0.167	0.028	3.98	85	2	16		< 20		3	< 10	11	< 10	7	30
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	0.43	0.176	0.032	4.41	118	2	18		< 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
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	0.38		0.60	0.104	0.042	0.12	9	4	18		< 20	< 1	< 2	< 10	28		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
(Aqua Regia) Meas																		
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	0.38		0.63	0.102	0.041	0.12	10	4	19		< 20	3	< 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	0.51	24	0.85		0.080	5.73	7	3	20	0.03	< 20	6	3	< 10	35	15	12	40
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	0.52	25	0.88		0.082	5.88	9	3	22	0.03	< 20	4	< 2	< 10	37	< 10	12	32
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	0.18	17	1.02	0.078	0.045	8.66	25	4	13		< 20	2	< 2	< 10	17	< 10	8	90
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	0.15	16	0.95	0.068	0.043	7.83	23	4	13		< 20	2	< 2	< 10	15	< 10	7	64
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
B603857 Orig																		
B603857 Dup																		
B603864 Orig	0.95	29	3.24	0.064	0.173	< 0.01	5	3	29	0.31	< 20	6	< 2	< 10	88	< 10	7	11
B603864 Dup	0.96	29	3.24	0.064	0.171	< 0.01	4	3	29	0.30	< 20	10	4	< 10	88	< 10	6	11
B603867 Orig																		
B603867 Dup																		
B603878 Orig	0.51	< 10	0.97	0.242	0.046	0.59	2	12	15	0.22	< 20	< 1	< 2	< 10	111	< 10	10	3
B603878 Dup	0.50	< 10	0.94	0.234	0.046	0.59	2	11	14	0.21	< 20	3	< 2	< 10	108	< 10	9	3
B603897 Orig																		
B603897 Dup																		
B603899 Orig																		
B603899 Split PREP DUP																		
B603902 Orig	0.54	< 10	1.11	0.148	0.034	0.50	< 2	12	42	0.27	< 20	3	3	< 10	110	< 10	11	5
B603902 Dup	0.53	< 10	1.08	0.146	0.033	0.49	3	12	40	0.26	< 20	7	< 2	< 10	105	< 10	11	5
B603906 Orig																		
B603906 Dup																		
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	0.008	< 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																		
Method Blank																		



Report No.: A22-15751
Report Date: 17-Nov-22
Date Submitted: 20-Sep-22
Your Reference: Calder

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

ATTN: Vance White

CERTIFICATE OF ANALYSIS

96 Soil samples were submitted for analysis.

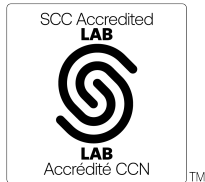
Table with 3 columns: Analytical package requested, Method, and Testing Date. Rows include 1C-OES-Timmins, 1E3-Timmins, QOP PGE-OES, and QOP AquaGeo.

REPORT A22-15751

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Notes:

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



LabID: 709

ACTIVATION LABORATORIES LTD.
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CERTIFIED BY:

Handwritten signature of Mark Vandergeest

Mark Vandergeest
Quality Control Coordinator

Results

Activation Laboratories Ltd.

Report: A22-15751

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
B603922	6	23	11	< 0.2	< 0.5	155	244	< 1	29	< 2	13	0.36	11	< 10	14	< 0.5	< 2	1.38	28	25	0.72	< 10	< 1
B603923	5	16	8	0.4	< 0.5	45	386	< 1	46	< 2	26	1.04	5	< 10	216	< 0.5	< 2	1.35	30	63	1.55	< 10	< 1
B603924	6	25	14	< 0.2	< 0.5	90	533	1	74	< 2	31	1.42	5	< 10	235	< 0.5	< 2	2.06	46	77	2.01	< 10	< 1
B603925	6	25	16	0.4	< 0.5	99	523	< 1	45	< 2	33	1.64	3	< 10	274	< 0.5	3	1.38	37	76	2.31	< 10	< 1
B603926	5	20	7	0.3	< 0.5	120	431	< 1	47	< 2	19	1.16	5	< 10	97	< 0.5	< 2	3.23	32	58	1.48	< 10	< 1
B603927	7	21	12	< 0.2	< 0.5	165	160	< 1	35	< 2	11	0.58	6	< 10	20	< 0.5	< 2	1.12	24	26	0.72	< 10	< 1
B603928	6	< 5	< 5	< 0.2	< 0.5	58	178	< 1	69	< 2	25	1.47	< 2	< 10	56	< 0.5	< 2	1.03	17	157	1.54	< 10	< 1
B603929	6	< 5	< 5	< 0.2	< 0.5	54	342	1	106	< 2	63	5.50	< 2	< 10	229	< 0.5	6	2.33	28	264	3.70	20	< 1
B603930	4	< 5	< 5	0.5	< 0.5	68	974	< 1	111	7	73	3.93	< 2	< 10	55	< 0.5	2	2.59	34	214	5.54	10	< 1
B603931	8	< 5	< 5	0.6	10.8	270	902	9	127	46	7170	1.65	8	< 10	27	< 0.5	4	1.73	114	19	8.84	< 10	< 1
B603932	5	< 5	< 5	0.9	2.5	353	1160	2	102	29	1700	1.37	5	< 10	14	< 0.5	3	3.06	50	32	13.4	< 10	< 1
B603933	4	< 5	< 5	< 0.2	< 0.5	45	553	< 1	79	< 2	72	2.56	< 2	< 10	207	< 0.5	< 2	2.04	23	159	3.42	< 10	< 1
B603934	4	< 5	5	1.1	< 0.5	49	793	< 1	87	< 2	99	1.94	< 2	< 10	238	< 0.5	< 2	2.06	24	168	3.86	< 10	< 1
B603935	7	< 5	< 5	< 0.2	< 0.5	20	946	< 1	35	2	103	2.18	< 2	< 10	163	< 0.5	< 2	2.10	19	59	4.09	10	< 1
B603936	4	< 5	< 5	< 0.2	< 0.5	24	909	< 1	13	< 2	70	2.62	< 2	< 10	178	< 0.5	< 2	1.79	15	13	3.75	10	< 1
B603937	7	< 5	< 5	0.2	< 0.5	125	1010	< 1	48	< 2	295	2.32	< 2	< 10	116	< 0.5	< 2	1.79	42	53	4.32	10	< 1
B603938	6	< 5	< 5	0.2	< 0.5	83	958	< 1	15	< 2	265	1.22	< 2	< 10	41	< 0.5	< 2	4.19	13	16	2.93	< 10	< 1
B603939	5	< 5	< 5	< 0.2	< 0.5	74	893	< 1	62	< 2	164	2.08	< 2	< 10	35	< 0.5	< 2	1.90	40	99	4.08	10	< 1
B603940	6	< 5	< 5	0.2	0.9	341	627	< 1	41	< 2	541	1.53	7	< 10	69	< 0.5	< 2	1.06	44	46	4.41	< 10	< 1
B603941	5	< 5	< 5	< 0.2	< 0.5	104	1070	< 1	83	< 2	202	3.19	< 2	< 10	109	< 0.5	< 2	2.55	47	101	5.12	10	< 1
B603942	6	< 5	< 5	< 0.2	< 0.5	92	1040	< 1	54	2	142	2.72	< 2	< 10	106	< 0.5	3	2.20	32	85	5.29	10	< 1
B603943	6	< 5	< 5	< 0.2	< 0.5	49	869	< 1	29	< 2	167	1.87	2	< 10	85	< 0.5	< 2	1.24	18	35	3.89	< 10	< 1
B603944	5	< 5	< 5	< 0.2	< 0.5	30	712	1	11	< 2	67	1.25	< 2	< 10	27	< 0.5	< 2	1.00	11	32	2.55	< 10	< 1
B603945	6	< 5	< 5	< 0.2	< 0.5	55	910	2	57	< 2	129	1.77	5	< 10	46	< 0.5	< 2	0.91	37	25	4.09	< 10	< 1
B603946	6	< 5	< 5	< 0.2	< 0.5	18	726	1	12	< 2	83	1.31	< 2	< 10	32	< 0.5	< 2	1.04	9	24	2.76	< 10	< 1
B603947	5	< 5	< 5	< 0.2	< 0.5	50	588	< 1	16	< 2	223	1.40	< 2	< 10	36	< 0.5	< 2	0.81	13	23	2.50	< 10	< 1
B603948	8	< 5	< 5	< 0.2	< 0.5	89	929	< 1	67	< 2	254	2.18	< 2	< 10	61	< 0.5	< 2	1.28	37	82	4.62	< 10	< 1
B603949	6	< 5	< 5	< 0.2	< 0.5	66	1060	< 1	44	< 2	123	1.89	2	< 10	76	< 0.5	< 2	2.39	20	76	4.68	< 10	< 1
B603950	7	< 5	< 5	< 0.2	< 0.5	50	783	< 1	59	< 2	83	2.69	< 2	< 10	85	< 0.5	< 2	1.41	21	100	4.26	< 10	< 1
B603951	5	< 5	< 5	< 0.2	< 0.5	84	1440	< 1	44	< 2	77	2.88	< 2	< 10	135	< 0.5	< 2	3.48	29	63	5.37	10	< 1
B603952	5	< 5	< 5	< 0.2	< 0.5	87	1180	< 1	43	< 2	70	1.96	< 2	< 10	59	< 0.5	< 2	2.67	28	56	4.71	< 10	< 1
B603953	7	< 5	< 5	< 0.2	< 0.5	98	1300	< 1	45	4	76	1.85	3	< 10	65	< 0.5	3	3.25	32	63	5.29	< 10	< 1
B603954	14	12	< 5	11.8	< 0.5	469	554	< 1	59	1260	37	0.80	3	< 10	46	< 0.5	76	2.46	51	56	5.52	< 10	< 1
B603955	6	< 5	< 5	1.8	< 0.5	8	219	2	51	68	27	0.84	< 2	< 10	103	0.7	< 2	1.25	10	96	1.42	< 10	< 1
B603956	4	< 5	< 5	0.8	< 0.5	10	541	< 1	270	20	64	4.88	< 2	< 10	524	2.5	5	1.94	43	356	4.60	10	< 1
B603957	5	< 5	< 5	< 0.2	< 0.5	46	602	< 1	162	8	60	3.65	3	< 10	423	1.6	< 2	3.36	40	245	4.25	10	< 1
B603958	7	12	< 5	0.3	< 0.5	115	814	< 1	91	6	53	2.03	< 2	< 10	164	< 0.5	< 2	4.02	35	173	4.61	< 10	< 1
B603959	6	12	< 5	< 0.2	< 0.5	106	682	< 1	109	< 2	56	1.78	< 2	< 10	158	< 0.5	< 2	2.73	33	129	3.75	< 10	< 1
B603960	10	19	17	< 0.2	< 0.5	116	587	< 1	34	< 2	32	3.83	4	< 10	38	< 0.5	3	3.69	23	27	2.53	< 10	< 1
B603961	9	18	14	< 0.2	< 0.5	134	783	< 1	32	< 2	37	3.03	< 2	< 10	33	< 0.5	4	3.58	23	31	3.32	< 10	< 1
B603962	15	22	14	< 0.2	< 0.5	245	669	< 1	38	< 2	33	3.41	< 2	< 10	37	< 0.5	4	3.40	29	28	3.60	< 10	< 1
B603963	9	18	20	< 0.2	< 0.5	138	665	< 1	30	< 2	31	2.74	< 2	< 10	27	< 0.5	3	2.94	22	27	2.70	< 10	< 1
B603964	6	15	8	< 0.2	< 0.5	195	591	< 1	176	< 2	40	2.27	< 2	< 10	71	< 0.5	4	2.05	38	180	4.29	< 10	< 1
B603965	8	16	7	< 0.2	< 0.5	141	581	< 1	77	< 2	22	2.31	< 2	< 10	43	< 0.5	< 2	4.38	26	75	2.48	< 10	< 1
B603966	8	21	15	< 0.2	< 0.5	138	516	< 1	52	< 2	30	2.47	< 2	< 10	52	< 0.5	3	2.80	36	34	2.58	< 10	< 1
B603967	7	21	16	< 0.2	< 0.5	159	473	< 1	50	< 2	34	1.50	< 2	< 10	82	< 0.5	4	1.84	36	41	2.27	< 10	< 1
B603968	9	21	6	< 0.2	< 0.5	149	513	< 1	42	< 2	26	3.80	< 2	< 10	26	< 0.5	3	3.60	31	25	2.19	< 10	< 1
B603969	10	21	< 5	< 0.2	< 0.5	166	474	< 1	53	< 2	20	4.05	< 2	< 10	26	< 0.5	< 2	3.77	40	20	2.57	< 10	< 1
B603970	7	14	8	< 0.2	< 0.5	139	443	< 1	60	< 2	49	2.21	2	< 10	15	< 0.5	3	2.06	50	22	5.26	< 10	< 1
B603971	9	15	< 5	< 0.2	< 0.5	138	397	< 1	56	< 2	29	2.11	5	< 10	< 10	< 0.5	3	1.96	47	18	3.47	< 10	< 1
B603972	9	18	12	0.5	< 0.5	173	677	< 1	71	3	144	2.99	18	< 10	24	< 0.5	3	3.32	52	25	5.76	< 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		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
B603973	6	7	< 5	0.3	0.7	147	964	3	110	21	694	3.16	12	16	18	0.6	5	3.03	47	80	5.58	10	< 1
B603974	7	< 5	< 5	0.5	< 0.5	189	696	26	135	31	425	2.40	2	13	19	< 0.5	5	1.61	46	89	6.94	10	< 1
B603975	7	< 5	< 5	0.2	< 0.5	135	556	< 1	123	3	116	1.85	10	< 10	16	< 0.5	4	1.68	51	78	7.27	< 10	< 1
B603976	9	< 5	< 5	< 0.2	< 0.5	127	739	< 1	145	2	114	2.52	19	< 10	29	< 0.5	3	2.43	57	92	6.06	< 10	< 1
B603977	7	< 5	< 5	< 0.2	< 0.5	124	582	< 1	172	< 2	90	3.59	26	< 10	32	< 0.5	5	2.94	58	81	4.50	< 10	< 1
B603978	8	< 5	< 5	< 0.2	< 0.5	134	697	< 1	179	< 2	87	2.51	18	174	27	< 0.5	3	2.39	58	83	5.33	< 10	< 1
B603979	8	< 5	< 5	< 0.2	< 0.5	161	760	< 1	154	< 2	84	2.65	9	14	32	< 0.5	5	2.60	60	83	5.57	< 10	< 1
B603980	10	< 5	< 5	< 0.2	< 0.5	118	925	< 1	119	< 2	88	2.71	8	13	43	< 0.5	< 2	3.19	51	102	5.38	< 10	< 1
B603981	10	< 5	< 5	< 0.2	< 0.5	136	1080	< 1	128	3	177	2.34	7	< 10	43	< 0.5	3	2.84	53	103	6.51	< 10	< 1
B603982	7	6	< 5	0.3	< 0.5	133	804	< 1	111	< 2	78	1.39	2	< 10	35	< 0.5	< 2	1.95	55	73	5.39	< 10	< 1
B603983	7	< 5	< 5	< 0.2	< 0.5	139	1080	< 1	126	< 2	83	2.55	5	< 10	50	< 0.5	4	3.25	55	106	5.58	< 10	< 1
B603984	8	10	< 5	0.3	< 0.5	195	740	1	138	3	159	2.56	< 2	< 10	20	< 0.5	5	2.31	57	102	9.95	< 10	< 1
B603985	6	12	6	0.3	< 0.5	148	405	< 1	108	< 2	67	3.06	11	< 10	16	< 0.5	4	2.28	52	32	8.00	< 10	< 1
B603986	8	12	< 5	0.5	< 0.5	134	452	< 1	127	2	105	2.70	15	< 10	20	< 0.5	5	2.06	53	69	6.84	< 10	1
B603987	6	13	< 5	0.3	< 0.5	149	494	< 1	103	2	78	2.17	2	< 10	23	< 0.5	3	1.76	54	57	6.42	< 10	< 1
B603988	8	15	< 5	< 0.2	< 0.5	158	442	< 1	103	< 2	79	2.52	3	< 10	29	< 0.5	3	2.06	50	46	5.96	< 10	< 1
B603989	8	19	14	0.2	< 0.5	133	375	< 1	72	< 2	44	2.65	< 2	< 10	46	< 0.5	3	2.43	50	23	4.05	< 10	< 1
B603990	12	16	7	0.5	< 0.5	306	399	< 1	101	3	337	1.67	6	< 10	11	< 0.5	5	1.23	71	25	14.7	< 10	< 1
B603991	7	15	9	0.3	< 0.5	286	389	< 1	67	< 2	130	1.79	< 2	< 10	17	< 0.5	2	1.87	48	19	7.34	< 10	< 1
B603992	7	20	< 5	< 0.2	< 0.5	156	641	< 1	60	< 2	75	2.30	< 2	< 10	38	< 0.5	3	2.41	43	34	3.90	< 10	< 1
B603993	7	20	9	< 0.2	< 0.5	129	601	< 1	31	< 2	34	2.93	< 2	< 10	25	< 0.5	< 2	2.75	21	21	2.12	< 10	< 1
B603994	6	25	23	< 0.2	< 0.5	129	409	< 1	48	< 2	31	3.30	< 2	< 10	18	< 0.5	3	2.71	33	23	1.83	< 10	< 1
B603995	6	< 5	< 5	< 0.2	< 0.5	121	1130	< 1	97	< 2	122	1.34	3	< 10	28	< 0.5	< 2	2.21	44	106	4.62	< 10	< 1
B603996	9	< 5	< 5	< 0.2	< 0.5	67	483	< 1	74	7	318	0.72	3	< 10	39	< 0.5	< 2	2.05	32	54	4.80	< 10	< 1
B603997	9	18	18	0.5	< 0.5	342	596	< 1	109	5	276	1.19	4	< 10	< 10	< 0.5	5	2.29	86	18	16.3	< 10	< 1
B603998	7	12	< 5	< 0.2	< 0.5	61	543	< 1	150	3	120	1.82	< 2	< 10	42	< 0.5	2	1.52	37	376	4.90	< 10	< 1
B603999	9	18	11	< 0.2	< 0.5	183	457	< 1	88	< 2	105	1.49	5	< 10	26	< 0.5	2	1.92	70	21	6.81	< 10	< 1
B604000	9	19	8	0.2	< 0.5	188	492	< 1	87	2	154	2.14	8	< 10	24	< 0.5	5	2.04	71	30	7.07	< 10	< 1
B604551	8	18	< 5	< 0.2	< 0.5	191	467	< 1	86	2	245	1.93	3	< 10	19	< 0.5	3	1.50	65	29	6.43	< 10	< 1
B604552	6	19	< 5	0.4	< 0.5	284	929	< 1	112	8	387	2.09	4	< 10	22	< 0.5	3	3.04	72	31	8.96	< 10	< 1
B604553	5	14	< 5	0.4	< 0.5	195	731	17	198	13	244	3.40	4	18	< 10	0.8	4	1.60	53	554	6.54	10	1
B604554	5	7	< 5	< 0.2	< 0.5	138	727	1	94	< 2	89	2.58	2	< 10	16	< 0.5	4	2.11	28	264	4.83	10	< 1
B604555	6	6	< 5	< 0.2	< 0.5	82	604	< 1	187	< 2	168	2.24	2	< 10	19	< 0.5	< 2	1.82	40	359	4.46	< 10	< 1
B604556	6	8	< 5	0.2	< 0.5	163	526	6	753	6	155	2.48	< 2	< 10	< 10	< 0.5	4	1.48	80	957	6.50	< 10	< 1
B604557	5	12	< 5	0.5	< 0.5	93	533	3	491	5	65	2.33	< 2	< 10	< 10	< 0.5	4	0.96	49	713	4.93	< 10	< 1
B604558	5	14	19	0.2	0.7	146	698	3	77	7	334	1.97	3	< 10	15	< 0.5	3	1.51	54	45	5.07	< 10	< 1
B604559	4	13	18	< 0.2	< 0.5	58	808	8	55	< 2	38	4.22	< 2	17	< 10	0.9	7	3.24	27	47	4.34	10	< 1
B604560	5	14	17	0.3	< 0.5	333	1030	15	91	2	27	6.46	12	14	< 10	1.8	9	5.03	85	69	8.09	20	< 1
B604561	3	16	18	< 0.2	< 0.5	259	784	2	99	5	81	2.40	6	< 10	15	0.6	5	1.69	73	51	7.18	10	< 1
B604562	5	10	11	0.4	3.7	491	470	9	225	10	2510	3.64	6	< 10	< 10	0.9	5	2.99	94	53	8.10	20	< 1
B604563	4	5	9	0.6	8.9	470	613	22	360	11	5400	2.72	6	10	11	0.5	4	1.43	135	314	6.47	20	< 1
B604564	6	8	< 5	0.4	10.0	545	774	15	277	5	5490	2.74	3	16	< 10	< 0.5	3	1.40	102	198	6.57	20	< 1
B604565	6	8	< 5	< 0.2	< 0.5	104	456	15	442	4	145	2.08	< 2	< 10	17	< 0.5	3	1.04	49	609	4.77	< 10	< 1
B604566	5	18	5	0.3	< 0.5	100	389	< 1	496	3	136	2.57	< 2	< 10	< 10	< 0.5	3	0.85	52	993	5.33	< 10	< 1
B604567	6	19	< 5	< 0.2	< 0.5	158	605	< 1	153	2	48	2.65	< 2	< 10	24	< 0.5	4	2.31	46	165	4.71	< 10	< 1

Results

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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
B603922	0.04	< 10	0.43	0.093	0.028	0.06	< 2	8	2	0.31	< 20	4	< 2	< 10	76	< 10	10	2
B603923	0.42	< 10	1.02	0.133	0.028	0.02	< 2	17	4	0.25	< 20	5	< 2	< 10	141	< 10	8	2
B603924	0.60	< 10	1.44	0.138	0.026	0.06	< 2	20	5	0.37	< 20	7	< 2	< 10	191	< 10	11	3
B603925	0.78	< 10	1.63	0.147	0.029	0.02	< 2	23	4	0.40	< 20	3	2	< 10	190	< 10	12	3
B603926	0.34	< 10	0.99	0.144	0.027	0.04	< 2	18	8	0.38	< 20	6	< 2	< 10	167	< 10	10	2
B603927	0.09	< 10	0.36	0.108	0.030	0.09	< 2	8	4	0.46	< 20	7	< 2	< 10	107	< 10	12	2
B603928	0.17	< 10	0.68	0.271	0.047	0.13	< 2	8	21	0.15	< 20	2	< 2	< 10	84	< 10	7	10
B603929	1.33	< 10	2.64	0.408	0.045	0.25	< 2	11	47	0.24	< 20	5	3	< 10	136	< 10	5	6
B603930	0.50	< 10	2.07	0.054	0.046	1.83	4	9	36	0.26	< 20	4	< 2	< 10	100	< 10	6	7
B603931	0.14	29	0.27	0.024	0.090	6.12	5	3	31	0.07	< 20	11	< 2	< 10	27	< 10	11	23
B603932	0.13	< 10	0.35	0.027	0.016	6.39	6	4	24	0.08	< 20	9	< 2	< 10	32	< 10	7	11
B603933	0.62	< 10	1.63	0.244	0.040	0.12	< 2	9	19	0.23	< 20	9	< 2	< 10	76	< 10	6	7
B603934	0.68	12	1.78	0.218	0.052	0.20	< 2	10	14	0.30	< 20	8	< 2	< 10	95	< 10	9	8
B603935	0.87	10	1.33	0.156	0.049	0.13	< 2	9	28	0.34	< 20	6	< 2	< 10	105	< 10	9	5
B603936	1.01	11	1.09	0.301	0.050	0.02	2	10	22	0.27	< 20	6	< 2	< 10	93	< 10	10	3
B603937	0.97	12	0.81	0.181	0.078	0.24	< 2	22	11	0.33	< 20	4	< 2	< 10	268	< 10	28	7
B603938	0.52	< 10	0.35	0.075	0.030	0.62	< 2	4	25	0.12	< 20	3	< 2	< 10	28	< 10	9	6
B603939	1.28	< 10	0.66	0.135	0.055	0.28	4	27	10	0.41	< 20	5	< 2	< 10	250	< 10	14	4
B603940	0.95	< 10	0.53	0.091	0.039	1.25	3	13	11	0.24	< 20	6	< 2	< 10	114	< 10	10	13
B603941	1.60	< 10	1.35	0.193	0.055	0.34	3	26	23	0.47	< 20	6	< 2	< 10	271	< 10	14	5
B603942	1.47	< 10	1.11	0.204	0.052	0.40	< 2	22	16	0.43	< 20	11	< 2	< 10	205	< 10	14	7
B603943	1.11	< 10	0.70	0.071	0.042	0.23	2	6	14	0.24	< 20	3	< 2	< 10	67	< 10	9	8
B603944	0.66	< 10	0.48	0.054	0.030	0.14	< 2	5	11	0.18	< 20	3	< 2	< 10	52	< 10	6	6
B603945	1.13	< 10	0.66	0.042	0.036	0.22	3	6	11	0.20	< 20	6	< 2	< 10	59	< 10	7	6
B603946	0.75	< 10	0.51	0.037	0.031	0.09	< 2	4	10	0.16	< 20	5	< 2	< 10	43	< 10	6	5
B603947	0.88	< 10	0.46	0.062	0.040	0.22	< 2	6	10	0.21	< 20	3	< 2	< 10	58	< 10	9	7
B603948	1.47	< 10	0.69	0.107	0.046	0.40	3	14	14	0.33	< 20	10	< 2	< 10	149	< 10	10	5
B603949	1.20	< 10	0.65	0.038	0.042	0.45	3	9	20	0.23	< 20	5	< 2	< 10	81	< 10	8	6
B603950	1.55	12	0.75	0.172	0.049	0.15	< 2	8	26	0.28	< 20	6	< 2	< 10	88	< 10	10	6
B603951	0.41	< 10	1.05	0.306	0.057	0.14	3	20	17	0.38	< 20	7	< 2	< 10	189	< 10	18	5
B603952	0.14	< 10	0.98	0.292	0.053	0.22	3	19	10	0.33	< 20	10	< 2	< 10	173	< 10	18	4
B603953	0.30	< 10	1.05	0.280	0.061	0.40	2	20	18	0.43	< 20	5	< 2	< 10	191	< 10	19	5
B603954	0.25	15	0.87	0.074	0.040	2.75	3	7	65	0.33	< 20	8	< 2	< 10	68	< 10	14	18
B603955	0.71	13	1.20	0.038	0.048	0.02	< 2	3	82	0.16	< 20	3	< 2	< 10	38	< 10	5	20
B603956	4.58	24	8.45	0.063	0.060	0.03	3	8	67	0.40	< 20	6	3	< 10	71	< 10	3	14
B603957	3.42	41	5.67	0.074	0.092	0.20	5	8	153	0.41	< 20	6	< 2	< 10	98	< 10	7	15
B603958	1.45	20	2.25	0.097	0.092	0.64	2	10	77	0.31	< 20	2	< 2	< 10	135	< 10	11	13
B603959	0.89	22	1.89	0.148	0.098	0.57	4	10	49	0.28	< 20	10	< 2	< 10	109	< 10	9	14
B603960	0.04	< 10	0.97	0.431	0.023	0.22	2	10	64	0.24	< 20	< 1	< 2	< 10	74	< 10	9	2
B603961	0.05	< 10	1.12	0.372	0.023	0.28	< 2	12	48	0.20	< 20	5	< 2	< 10	86	< 10	8	3
B603962	0.05	< 10	1.04	0.379	0.024	0.63	< 2	11	53	0.20	< 20	4	< 2	< 10	79	< 10	8	3
B603963	0.04	< 10	0.93	0.341	0.023	0.22	< 2	10	49	0.20	< 20	5	< 2	< 10	74	< 10	8	2
B603964	0.25	< 10	2.31	0.229	0.054	0.70	3	12	7	0.16	< 20	4	< 2	< 10	92	< 10	5	5
B603965	0.07	< 10	1.03	0.257	0.042	0.42	< 2	9	45	0.15	< 20	3	< 2	< 10	60	< 10	6	3
B603966	0.13	< 10	0.94	0.269	0.026	0.43	< 2	11	32	0.25	< 20	5	< 2	< 10	86	< 10	8	3
B603967	0.23	< 10	0.95	0.193	0.026	0.30	< 2	10	14	0.26	< 20	6	< 2	< 10	96	< 10	7	4
B603968	0.03	< 10	0.77	0.402	0.026	0.40	< 2	8	49	0.28	< 20	5	< 2	< 10	70	< 10	9	3
B603969	0.02	< 10	0.66	0.403	0.029	0.80	< 2	6	52	0.23	< 20	6	< 2	< 10	56	< 10	8	3
B603970	0.02	< 10	0.90	0.258	0.024	2.27	2	10	26	0.17	< 20	4	< 2	< 10	76	< 10	6	5
B603971	0.02	< 10	0.80	0.256	0.028	1.31	2	8	29	0.15	< 20	4	< 2	< 10	66	< 10	5	3
B603972	0.10	< 10	0.65	0.218	0.025	2.69	2	6	30	0.20	< 20	4	< 2	< 10	67	< 10	7	5

Results

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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
B603973	0.09	< 10	1.27	0.076	0.036	2.95	2	14	14	0.22	< 20	5	< 2	< 10	113	< 10	11	19
B603974	0.13	11	1.95	0.109	0.047	4.01	3	12	26	0.20	< 20	1	< 2	< 10	89	< 10	9	26
B603975	0.08	< 10	0.83	0.125	0.031	4.05	4	6	20	0.18	< 20	4	< 2	< 10	74	< 10	6	9
B603976	0.07	< 10	1.03	0.235	0.030	2.47	3	10	35	0.17	< 20	5	< 2	< 10	99	< 10	6	5
B603977	0.04	< 10	0.82	0.371	0.030	1.67	< 2	9	46	0.15	< 20	5	< 2	< 10	84	< 10	5	4
B603978	0.07	< 10	0.91	0.253	0.027	2.13	< 2	9	28	0.17	< 20	4	< 2	< 10	82	< 10	6	4
B603979	0.06	< 10	0.89	0.266	0.029	2.13	3	10	30	0.17	< 20	2	< 2	< 10	95	< 10	6	5
B603980	0.08	< 10	0.91	0.268	0.028	1.83	2	12	30	0.22	< 20	4	< 2	< 10	118	< 10	7	5
B603981	0.11	15	1.21	0.227	0.064	2.13	3	13	32	0.24	< 20	5	< 2	< 10	126	< 10	10	10
B603982	0.05	< 10	0.80	0.203	0.027	2.26	4	11	13	0.20	< 20	2	< 2	< 10	97	< 10	8	5
B603983	0.16	< 10	0.96	0.294	0.028	1.79	3	12	24	0.26	< 20	6	< 2	< 10	122	< 10	8	4
B603984	0.17	< 10	0.78	0.287	0.024	5.04	5	7	24	0.29	< 20	4	< 2	< 10	98	< 10	8	6
B603985	0.03	< 10	0.33	0.372	0.024	4.22	3	3	33	0.27	< 20	4	< 2	< 10	43	< 10	8	5
B603986	0.14	< 10	0.56	0.332	0.025	3.47	3	5	28	0.30	< 20	4	< 2	< 10	65	< 10	9	5
B603987	0.14	< 10	0.71	0.244	0.026	3.13	3	6	18	0.31	< 20	7	< 2	< 10	78	< 10	9	5
B603988	0.08	< 10	0.62	0.318	0.025	2.83	3	6	24	0.28	< 20	3	< 2	< 10	63	< 10	9	5
B603989	0.10	< 10	0.55	0.282	0.026	1.95	< 2	6	28	0.30	< 20	7	< 2	< 10	55	< 10	9	4
B603990	0.05	< 10	0.48	0.178	0.021	7.57	7	3	12	0.23	< 20	5	< 2	< 10	53	< 10	7	9
B603991	0.08	< 10	0.44	0.186	0.024	3.78	4	4	15	0.26	< 20	3	< 2	< 10	51	< 10	8	5
B603992	0.10	< 10	1.11	0.152	0.025	1.04	2	9	13	0.23	< 20	5	< 2	< 10	87	< 10	6	4
B603993	0.04	< 10	0.66	0.317	0.024	0.25	< 2	7	43	0.25	< 20	6	< 2	< 10	57	< 10	9	3
B603994	0.02	< 10	0.60	0.384	0.025	0.34	< 2	7	52	0.23	< 20	2	< 2	< 10	57	< 10	7	2
B603995	0.05	< 10	0.65	0.144	0.020	1.35	4	13	11	0.18	< 20	2	< 2	< 10	97	< 10	7	4
B603996	0.12	89	0.52	0.071	0.196	2.48	2	4	58	0.29	< 20	6	< 2	< 10	54	< 10	16	22
B603997	0.06	< 10	0.35	0.100	0.018	8.50	7	3	22	0.19	< 20	2	< 2	< 10	50	< 10	6	9
B603998	0.29	48	2.09	0.094	0.093	1.56	3	6	46	0.23	< 20	3	< 2	< 10	87	< 10	15	21
B603999	0.05	< 10	0.62	0.131	0.028	3.61	3	5	24	0.26	< 20	5	< 2	< 10	58	< 10	8	5
B604000	0.05	< 10	0.94	0.152	0.057	3.86	3	7	37	0.25	< 20	7	< 2	< 10	75	< 10	8	6
B604551	0.06	< 10	0.95	0.132	0.027	3.31	3	6	18	0.22	< 20	4	< 2	< 10	76	< 10	7	5
B604552	0.11	< 10	0.78	0.088	0.027	5.18	4	8	33	0.24	< 20	7	< 2	< 10	86	< 10	9	8
B604553	0.04	< 10	4.11	0.042	0.128	2.55	5	9	26	0.22	< 20	8	< 2	< 10	104	< 10	8	14
B604554	0.08	< 10	2.56	0.084	0.130	0.67	4	9	21	0.27	< 20	2	< 2	< 10	101	< 10	9	11
B604555	0.08	< 10	2.56	0.094	0.106	0.75	4	8	19	0.27	< 20	7	< 2	< 10	91	< 10	7	7
B604556	< 0.01	< 10	4.09	0.047	0.086	2.75	8	3	17	0.19	< 20	2	< 2	< 10	50	< 10	2	7
B604557	0.02	< 10	3.69	0.053	0.110	1.35	6	4	16	0.20	< 20	9	< 2	< 10	57	< 10	4	8
B604558	0.09	< 10	1.52	0.085	0.029	2.51	3	10	22	0.27	< 20	7	< 2	< 10	107	< 10	10	5
B604559	0.04	< 10	3.24	0.047	0.023	0.52	< 2	10	23	0.22	< 20	4	< 2	< 10	121	< 10	9	8
B604560	0.07	< 10	3.66	0.023	0.024	3.47	5	20	22	0.18	< 20	4	< 2	< 10	174	< 10	8	17
B604561	0.06	< 10	1.84	0.070	0.028	4.25	3	14	24	0.24	< 20	< 1	< 2	< 10	124	< 10	10	10
B604562	0.03	< 10	1.04	0.031	0.030	5.88	5	13	34	0.23	< 20	6	< 2	< 10	110	< 10	12	20
B604563	0.05	17	2.14	0.046	0.054	2.91	4	17	55	0.26	< 20	5	2	< 10	102	< 10	21	26
B604564	0.03	16	2.46	0.044	0.071	2.39	4	15	12	0.23	< 20	8	< 2	< 10	106	< 10	18	27
B604565	0.06	< 10	2.91	0.049	0.097	1.78	5	4	24	0.17	< 20	3	< 2	< 10	53	< 10	3	9
B604566	0.02	< 10	4.08	0.040	0.117	1.96	8	3	10	0.21	< 20	3	< 2	< 10	61	< 10	2	6
B604567	0.09	< 10	1.38	0.216	0.036	1.84	2	10	50	0.25	< 20	3	< 2	< 10	93	< 10	8	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 133a (Aqua Regia) Meas				97.4	282	298				> 5000	> 10000		100		< 10				20		7.25		
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	2230	766	< 1	33	60	257	2.75	5		96	0.7	12	0.37	19	45	5.05	< 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	2270	774	< 1	35	67	279	2.91	5		96	0.7	8	0.38	20	44	5.05	< 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	4390	889	< 1	31	79	335	2.81	6		80	0.7	18	0.38	22	41	5.93	< 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	< 0.5	4250	867	< 1	32	78	361	2.82	6		75	0.6	21	0.37	24	41	5.65	< 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	6650	361	5	7	35	158	1.28	28		301	1.1	16	0.27	45	10	8.36	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				1.3	< 0.5	6370	353	5	6	37	162	1.29	34		297	1.1	26	0.27	48	10	7.94	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	4680	2140	1270																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
CDN-PGMS-27 Meas	4720	2050	1210																				
CDN-PGMS-27 Cert	4800	2000	1290.00																				
Oreas 621 (Aqua Regia) Meas				64.3	271	3440	513	10	23	> 5000	> 10000	1.59	52			0.5	4	1.46	27	28	3.24	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				72.4	293	3620	537	13	26	> 5000	> 10000	1.74	71			0.6	5	1.53	30	32	3.30	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	1810	1620	228																				
CDN-PGMS-30 Cert	1897.00	1660	223																				
CDN-PGMS-30	1730	1750	223																				

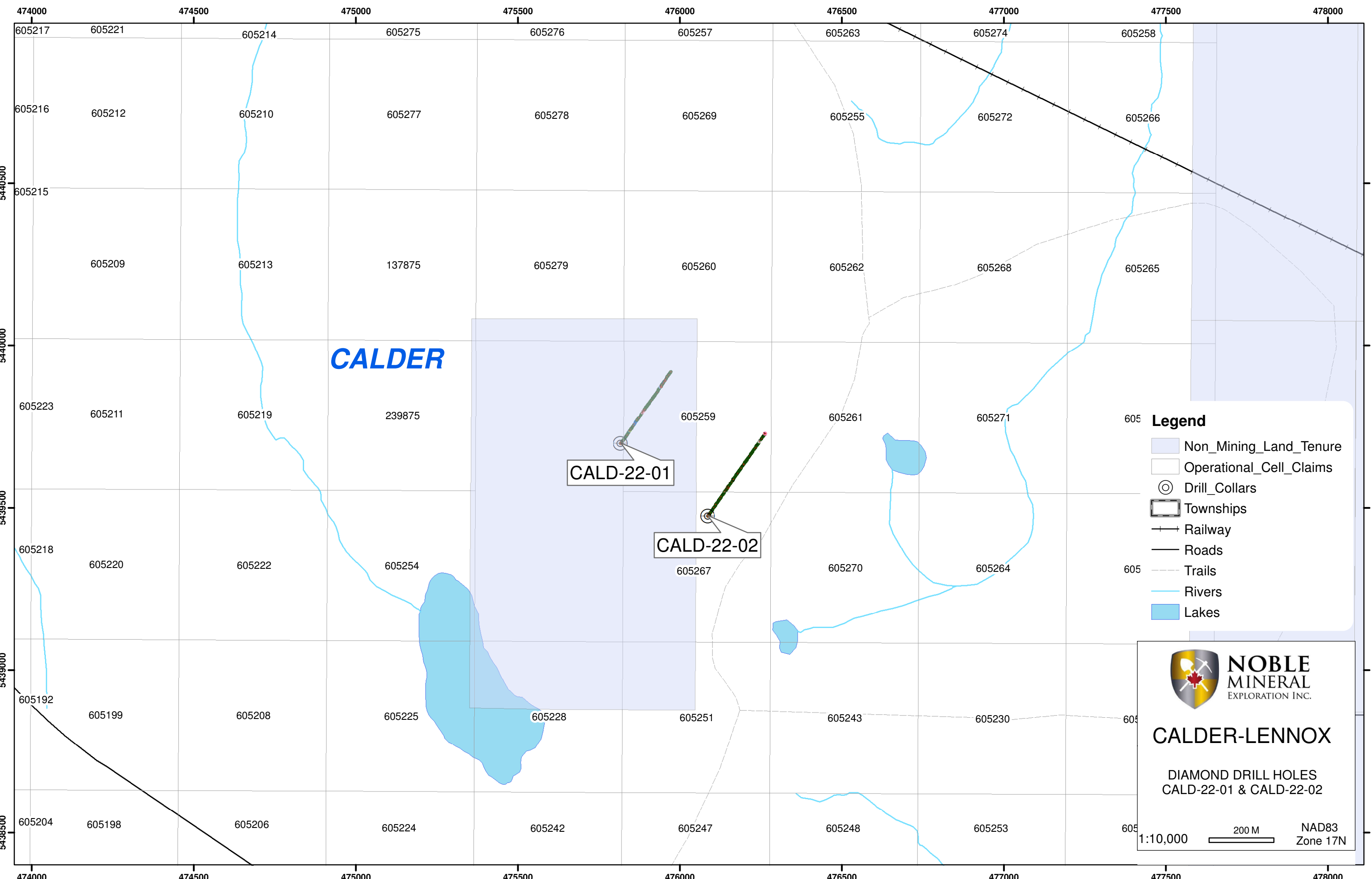
Analyte Symbol	Au	Pd	Pt	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg
Unit Symbol	ppb	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
Lower Limit	2	5	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1
Method Code	FA-ICP	FA-ICP	FA-ICP	AR-ICP	AR-ICP	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																							
CDN-PGMS-30 Cert	1897.000	1660	223																				
CDN-PGMS-30 Meas	1910	1810	213																				
CDN-PGMS-30 Cert	1897.000	1660	223																				
OREAS 263 (Aqua Regia) Meas				0.2	< 0.5	92	520	< 1	69	36	133	1.87	21		235	1.4	4	1.01	32	58	3.79	< 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				0.3	< 0.5	90	528	< 1	73	37	144	1.94	28		232	1.4	4	1.05	33	57	3.79	< 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				6.7	27.8	223	1600	6	29	1220	> 10000	1.20	152				8	1.55	26	24	6.88	< 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				6.1	28.6	215	1600	7	32	1290	> 10000	1.23	188				6	1.64	28	23	6.60	< 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				20.0	49.7	> 10000	544	7	16	2230	9030	1.72	57			< 0.5	6	0.95	207	18	12.7	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				18.3	46.9	> 10000	511	7	12	2140	9330	1.58	67			< 0.5	15	0.95	197	12	10.7	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
B603929 Orig				< 0.2	< 0.5	53	345	1	107	< 2	64	5.50	2	< 10	229	< 0.5	5	2.37	29	267	3.69	20	< 1
B603929 Dup				2.9	< 0.5	55	338	1	106	< 2	61	5.49	< 2	< 10	229	< 0.5	6	2.30	28	262	3.72	20	< 1
B603931 Orig	8	< 5	< 5																				
B603931 Dup	9	< 5	< 5																				
B603941 Orig	6	< 5	< 5																				
B603941 Dup	5	< 5	< 5																				
B603951 Orig	5	< 5	< 5																				
B603951 Dup	6	< 5	< 5																				
B603961 Orig				< 0.2	< 0.5	133	785	< 1	31	< 2	37	3.02	< 2	< 10	32	< 0.5	3	3.57	24	31	3.30	< 10	< 1
B603961 Dup				0.7	< 0.5	135	781	< 1	32	< 2	37	3.04	< 2	< 10	34	< 0.5	5	3.60	23	31	3.33	< 10	< 1
B603970 Orig	7	14	8																				
B603970 Split PREP DUP	8	16	< 5																				
B603970 Split PREP DUP	8	16	< 5																				
B603978 Orig	8	< 5	< 5																				
B603978 Dup	8	< 5	< 5																				
B603979 Orig	10	< 5	5																				
B603979 Dup	7	< 5	< 5																				
B603983 Orig				< 0.2	< 0.5	136	1080	< 1	123	< 2	82	2.52	5	< 10	49	< 0.5	5	3.18	55	104	5.49	< 10	< 1
B603983 Dup				< 0.2	< 0.5	143	1090	< 1	129	< 2	84	2.59	4	< 10	52	< 0.5	3	3.31	54	107	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
B603992 Orig	7	19	< 5																				
B603992 Dup	8	20	7																				
B603993 Orig				< 0.2	< 0.5	128	600	< 1	31	< 2	34	2.93	< 2	< 10	25	< 0.5	< 2	2.75	20	21	2.12	< 10	< 1
B603993 Dup				< 0.2	< 0.5	129	601	< 1	31	< 2	33	2.93	< 2	< 10	24	< 0.5	5	2.74	21	21	2.12	< 10	< 1
B603999 Orig				< 0.2	< 0.5	180	458	< 1	87	< 2	103	1.50	5	< 10	27	< 0.5	2	1.93	68	21	6.75	< 10	< 1
B603999 Dup				< 0.2	< 0.5	186	456	< 1	90	< 2	106	1.47	5	< 10	25	< 0.5	2	1.90	71	21	6.87	< 10	< 1
B604557 Orig	5	11	7																				
B604557 Dup	5	12	< 5																				
B604562 Orig				0.5	3.7	498	472	9	228	11	2580	3.71	6	< 10	< 10	0.9	5	3.04	96	54	8.27	20	< 1
B604562 Dup				0.4	3.6	483	468	8	222	10	2450	3.56	5	< 10	< 10	0.9	4	2.93	93	52	7.93	10	< 1
B604567 Orig	6	19	11																				
B604567 Dup	6	19	< 5																				
Method Blank	5	< 5	< 5																				
Method Blank	5	< 5	< 5																				
Method Blank				< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	19	< 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				0.5	< 0.5	< 1	< 5	< 1	< 1	< 2	3	< 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	3	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1
Method Blank	3	< 5	< 5																				
Method Blank	4	< 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
OREAS 133a (Aqua Regia) Meas						8.99	124											
OREAS 133a (Aqua Regia) Cert						10.7	147											
OREAS 922 (AQUA REGIA) Meas	0.42	35	1.24	0.032	0.060	0.35	4	3	15		< 20		< 2	< 10	33	< 10	18	23
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	0.44	37	1.34	0.030	0.060	0.36	5	4	16		< 20		< 2	< 10	34	< 10	19	13
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	0.36	33	1.36		0.058	0.66	4	3	14		< 20		< 2	< 10	33	< 10	17	8
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	0.35	33	1.39		0.056	0.65	3	3	14		< 20		< 2	< 10	33	< 10	17	12
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	39	0.23	0.120	0.024	0.07	6	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	0.35	39	0.23	0.112	0.023	0.06	6	2	13	0.02	< 20	2	< 2	< 10	6	< 10	7	10
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	0.31	18	0.39	0.167	0.028	3.98	85	2	16		< 20		3	< 10	11	< 10	7	30
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	0.43	0.176	0.032	4.41	118	2	18		< 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
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30																		

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																		
CDN-PGMS-30 Cert																		
CDN-PGMS-30 Meas																		
CDN-PGMS-30 Cert																		
OREAS 263 (Aqua Regia) Meas	0.38		0.60	0.104	0.042	0.12	9	4	18		< 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 263 (Aqua Regia) Meas	0.38		0.63	0.102	0.041	0.12	10	4	19		< 20	3	< 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	0.51	24	0.85		0.080	5.73	7	3	20	0.03	< 20	6	3	< 10	35	15	12	40
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	0.52	25	0.88		0.082	5.88	9	3	22	0.03	< 20	4	< 2	< 10	37	< 10	12	32
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	0.18	17	1.02	0.078	0.045	8.66	25	4	13		< 20	2	< 2	< 10	17	< 10	8	90
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	0.15	16	0.95	0.068	0.043	7.83	23	4	13		< 20	2	< 2	< 10	15	< 10	7	64
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
B603929 Orig	1.33	< 10	2.63	0.410	0.046	0.25	3	11	47	0.25	< 20	5	4	< 10	137	< 10	5	6
B603929 Dup	1.33	< 10	2.65	0.407	0.045	0.25	< 2	11	46	0.24	< 20	4	2	< 10	135	< 10	4	6
B603931 Orig																		
B603931 Dup																		
B603941 Orig																		
B603941 Dup																		
B603951 Orig																		
B603951 Dup																		
B603961 Orig	0.05	< 10	1.11	0.370	0.023	0.28	< 2	13	48	0.20	< 20	6	< 2	< 10	86	< 10	8	3
B603961 Dup	0.05	< 10	1.12	0.374	0.024	0.27	< 2	12	48	0.20	< 20	5	< 2	< 10	86	< 10	8	3
B603970 Orig																		
B603970 Split PREP DUP																		
B603970 Split PREP DUP																		
B603978 Orig																		
B603978 Dup																		
B603979 Orig																		
B603979 Dup																		
B603983 Orig	0.15	< 10	0.95	0.291	0.027	1.73	3	12	23	0.25	< 20	7	< 2	< 10	121	< 10	8	4
B603983 Dup	0.16	< 10	0.97	0.297	0.029	1.85	2	12	24	0.26	< 20	5	< 2	< 10	124	< 10	8	4

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
B603992 Orig																		
B603992 Dup																		
B603993 Orig	0.04	< 10	0.66	0.318	0.024	0.25	< 2	7	43	0.25	< 20	9	< 2	< 10	57	< 10	9	3
B603993 Dup	0.04	< 10	0.66	0.317	0.024	0.25	< 2	7	43	0.25	< 20	3	< 2	< 10	57	< 10	9	3
B603999 Orig	0.05	< 10	0.62	0.133	0.027	3.51	3	5	24	0.27	< 20	5	< 2	< 10	58	< 10	9	5
B603999 Dup	0.05	< 10	0.62	0.129	0.028	3.70	3	5	23	0.25	< 20	5	< 2	< 10	58	< 10	8	5
B604557 Orig																		
B604557 Dup																		
B604562 Orig	0.03	< 10	1.06	0.032	0.031	6.01	6	13	35	0.23	< 20	8	2	< 10	113	< 10	12	20
B604562 Dup	0.03	< 10	1.02	0.030	0.030	5.74	3	13	34	0.22	< 20	3	< 2	< 10	108	< 10	11	20
B604567 Orig																		
B604567 Dup																		
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	0.008	< 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																		
Method Blank																		




CALDER

CALD-22-01

CALD-22-02

Legend

- Non_Mining_Land_Tenure
- Operational_Cell_Claims
- Drill_Collars
- Townships
- Railway
- Roads
- Trails
- Rivers
- Lakes

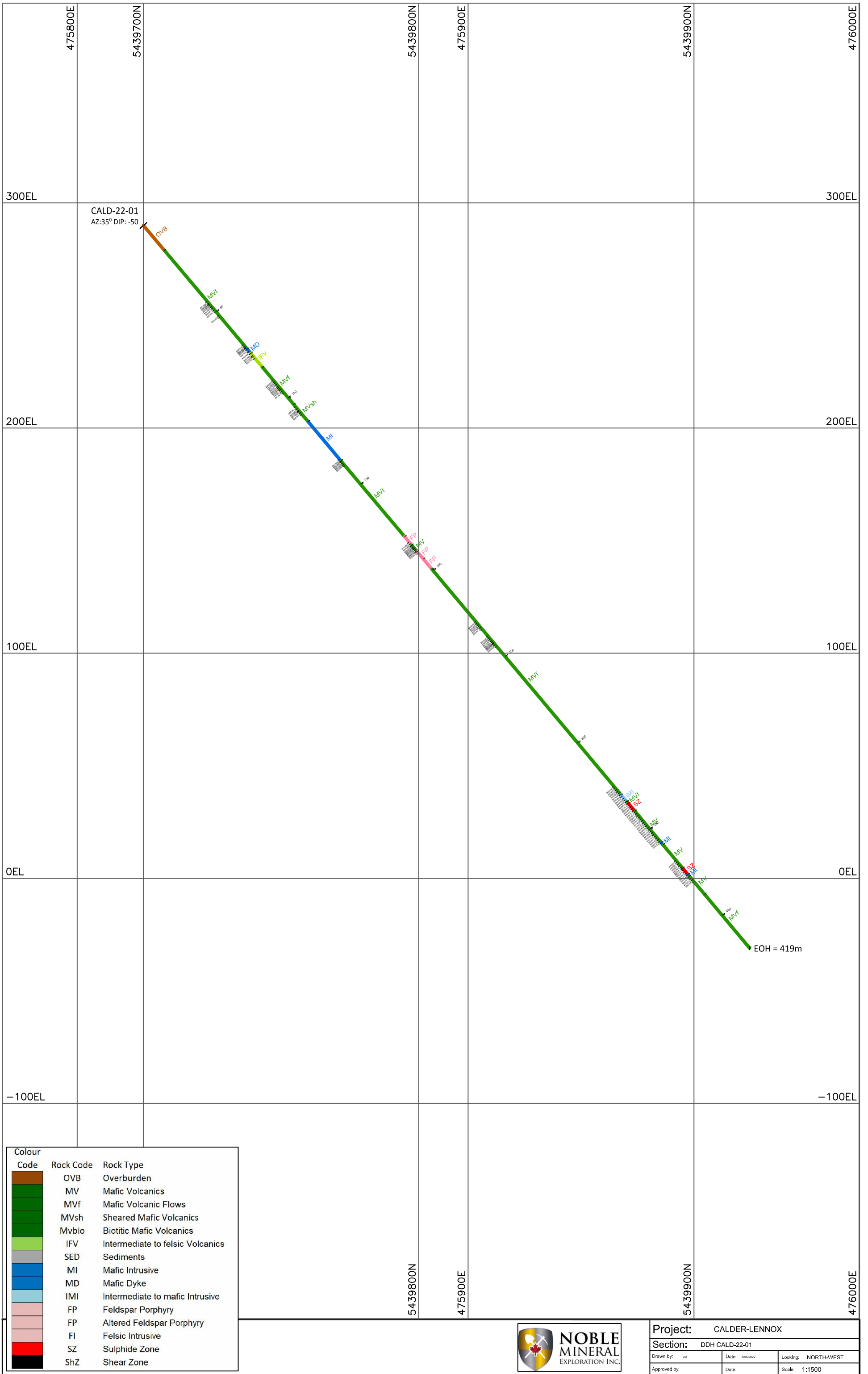


NOBLE MINERAL
EXPLORATION INC.

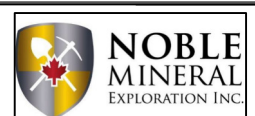
CALDER-LENNOX

DIAMOND DRILL HOLES
CALD-22-01 & CALD-22-02

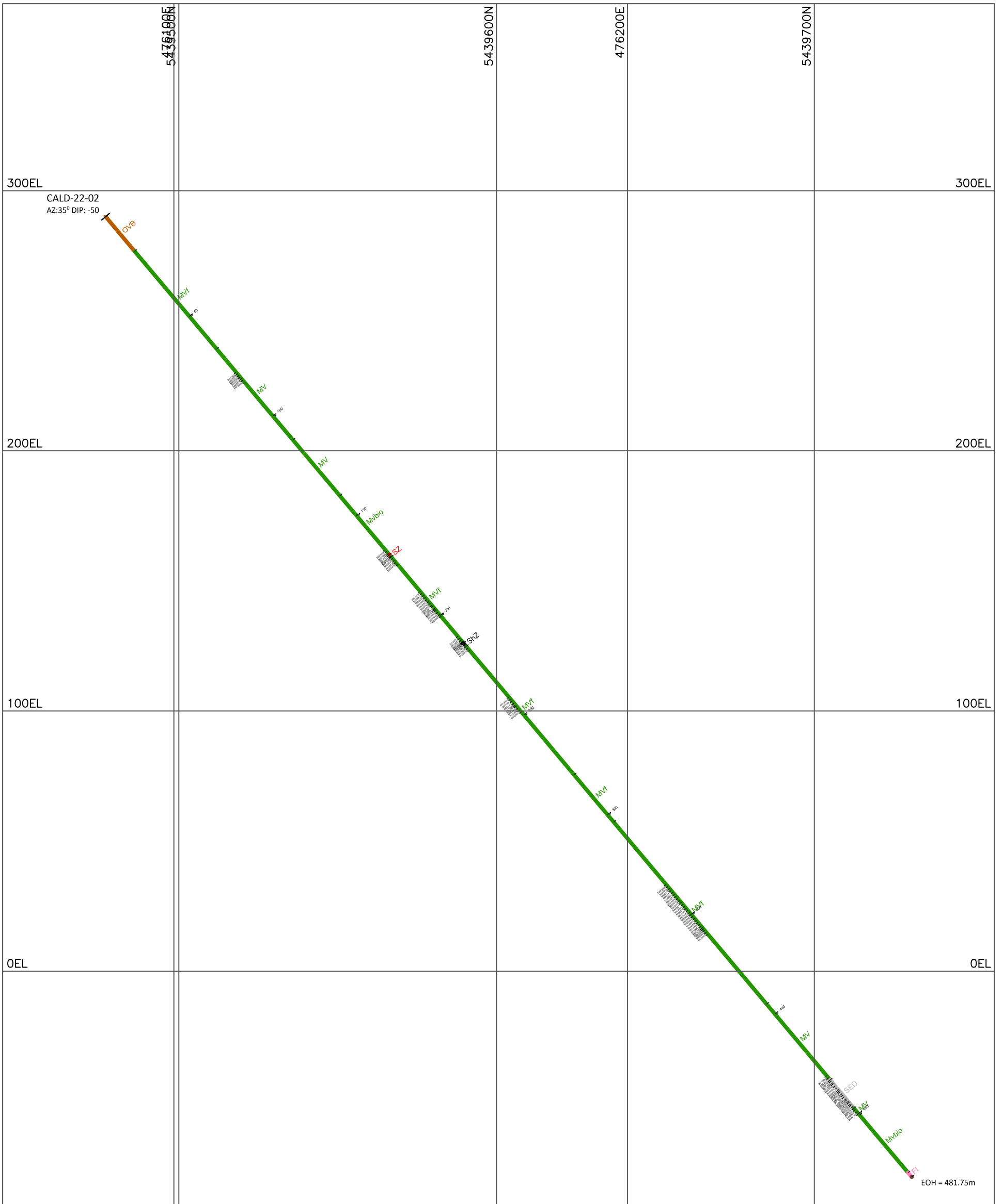
1:10,000 200 M NAD83
Zone 17N



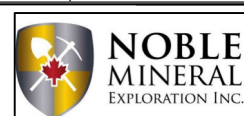
Colour Code	Rock Code	Rock Type
	OVB	Overburden
	MV	Mafic Volcanics
	MVf	Mafic Volcanic Flows
	MVsh	Sheared Mafic Volcanics
	Mvbio	Biotitic Mafic Volcanics
	IFV	Intermediate to felsic Volcanics
	SED	Sediments
	MI	Mafic Intrusive
	MD	Mafic Dyke
	IMI	Intermediate to mafic Intrusive
	FP	Feldspar Porphyry
	FP	Altered Feldspar Porphyry
	FI	Felsic Intrusive
	SZ	Sulphide Zone
	ShZ	Shear Zone



Project: CALDER-LENNOX		
Section: DDH CALD-22-01		
Drawn by: LM	Date: 12/4/2022	Looking: NORTH-WEST
Approved by:	Date:	Scale: 1:1500



Colour	Code	Rock Code	Rock Type
	OVB	OVB	Overburden
	MV	MV	Mafic Volcanics
	MVf	MVf	Mafic Volcanic Flows
	MVsh	MVsh	Sheared Mafic Volcanics
	Mvbio	Mvbio	Biotitic Mafic Volcanics
	IFV	IFV	Intermediate to felsic Volcanics
	SED	SED	Sediments
	MI	MI	Mafic Intrusive
	MD	MD	Mafic Dyke
	IMI	IMI	Intermediate to mafic Intrusive
	FP	FP	Feldspar Porphyry
	FP	FP	Altered Feldspar Porphyry
	FI	FI	Felsic Intrusive
	SZ	SZ	Sulphide Zone
	ShZ	ShZ	Shear Zone



Project: CALDER-LENNOX		
Section: DDH CALD-22-02		
Drawn by: LM	Date: 12/4/2022	Looking: NORTH-WEST
Approved by:	Date:	Scale: 1:1500