

We are committed to providing [accessible customer service](#).

If you need accessible formats or communications supports, please [contact us](#).

Nous tenons à améliorer [l'accessibilité des services à la clientèle](#).

Si vous avez besoin de formats accessibles ou d'aide à la communication, veuillez [nous contacter](#).



Report on Diamond Drilling at the Gowganda Project, Capitol  
Mine Kilpatrick Prospect, Haultain Township, Ontario, Canada

2019/11/26

Prepared by:

Frank Ploeger, P.GEO  
Canadian Exploration Services Limited

With contributions from:  
Peter Doyle, FAusIMM  
Jon Edwards, B.Sc.  
Sean Hicks, B.Sc.

Prepared For:

Battery Mineral Resources Limited  
P.O. Box 219  
14579 Government Road  
Larder Lake, Ontario  
P0K 1L0 Canada

**TABLE OF CONTENTS**

**1..... OVERVIEW 4**

1.1 PROJECT NAME..... 4

1.2 SUMMARY..... 4

1.3 ACTIVITIES UNDERTAKEN ..... 5

**2..... LOCATION DETAILS 6**

2.1 PROPERTY & LOCATION ..... 6

2.2 ACCESS..... 6

2.3 MINING CLAIMS ..... 7

2.4 PROPERTY & EXPLORATION HISTORY..... 9

2.5 REGIONAL & LOCAL GEOLOGY ..... 11

2.6 MINERAL DEPOSIT TYPES..... 12

2.7 TARGET OF INTEREST ..... 12

**3..... DRILLING 13**

3.1 PERMITS..... 13

3.2 DRILLING ..... 13

3.3 INTERPRETATION ..... 13

3.4 RECOMMENDATIONS..... 17

**4..... REFERENCES CITED 18**

**5..... QUALIFICATIONS 20**

**6..... INSTRUMENT SPECIFICATIONS 22**

**7..... APPENDIX 26**

**LIST OF APPENDICES**

- APPENDIX 1: DRILL HOLE METADATA**
- APPENDIX 2: DRILL HOLE TEXT LOGS**
- APPENDIX 3: ASSAY DATA**
- APPENDIX 4: CERTIFICATES OF ANALYSES**
- APPENDIX 5: CROSS SECTION GRAPHIC LOGS AND ASSAYS**
- APPENDIX 6: PLAN MAPS**

**LIST OF FIGURES AND TABLES**

Figure 1: Location of the Gowganda Project, Capitol Mine Kilpatrick Prospect (Map

---

data ©2019 Google) .....	6
Figure 2: Drill Hole Location Plan .....	7
Figure 3: BMR's broader Gowganda project (yellow squares) and Capitol Mine Kilpatrick prospect (red squares) overlain on a satellite image. ....	8
Figure 4: Gowganda project area (yellow squares) Capitol mine Kilpatrick prospect (red squares), overlain on a satellite image.. ....	8
Table 1: Drilling and Assay Activity Details .....	5
Table 2: Mining Lands and Cells Information .....	7
Table 3: Data on diamond holes drilled by BMR in 2019.....	13
Table 4: Summary of significant assays in BMR 2019 drilling. ....	14

---

## 1. OVERVIEW

### 1.1 PROJECT NAME

This project is known as the **Gowganda Project**.

### 1.2 SUMMARY

Battery Mineral Resources Ltd. (BMR) undertook a diamond drilling campaign at the Gowganda Project, Capitol Mine Kilpatrick Prospect from March 29<sup>th</sup>, 2019 to April 4<sup>th</sup>, 2019 comprising 7 days of drilling (Table 1) and 48-man days spent by CXS Geologists. Fifteen holes totaling 960 meters were drilled to define a set of small N-S trending and steeply dipping cobalt veins (Kilpatrick Veins) exposed on surface during fall 2018 trench work. The drilling was completed by G4 Forage (G4) of Val-d'Or, Quebec, and support services were provided by Canadian Exploration Services (CXS) of Larder Lake, Ontario. Project supervision was provided by Peter Doyle, FAusIMM.

Each drill pad was cleared and leveled by CXS, and a sump was made to capture tailings from each hole and backfilled after drilling was complete. Core was packaged by G4 then transported to the Gowganda Lake Lodge by CXS for quick-logging, and then transported by CXS to its processing facility in Larder Lake. After processing, core samples were shipped by CXS to ALS labs in Sudbury, ON for assay.

The drilling program better defined the vertical and lateral extents of this previously known north-south striking and steeply dipping cobalt mineralized vein. This was completed through a series of east facing drill holes with step backs to the west along the N-S trend of the Kilpatrick vein.

Further drilling in the immediate area of this program is recommended to: test possible Cobalt bearing plunge structures speculated by Structural Geologist Consultant Dr. Erwann Lebrun from SRK Consulting Inc; test significant Geophysical anomalies located between the Kilpatrick veins and the Historic Capitol Mine Shaft; test the Unconformity between the volcanics and overlying sediments for possible ponding and deposition of Cobalt minerals; check the Volcanic package for possible fluid conduits; and, Cobalt deposition between the Diabase Sill and the overlying Sediments.

Further detailed mapping should be conducted along the Kilpatrick trench with a focus on identifying any secondary shear indicators which may assist in targeting possible Cobalt mineralized plunge structures.

Additional trenching along strike of the Kilpatrick veins to the south to expose the unconformity between the Huronian sediments and underlying Keewatin metavolcanics is recommended to discover mineralized fluid transport mechanisms and possible subcropping mineralized structures.

---

Continue modelling the adjacent historic mine workings to discover possible indicators of mineralization hosted within the Keewatin metavolcanics or associated with extensions of known structures which may have acted as fluid conduits for mineralization.

All coordinates presented in this report are in UTM NAD83 Z17N.

### 1.3 ACTIVITIES UNDERTAKEN

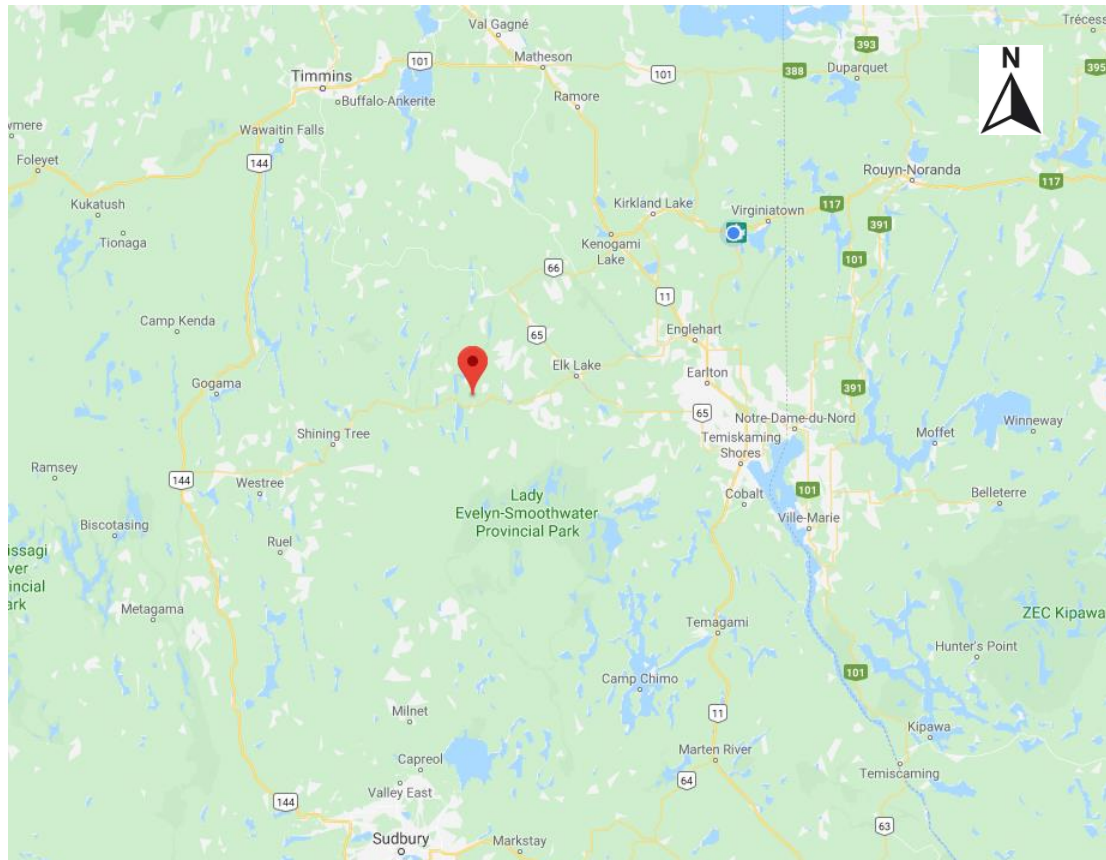
<b>Work Performed</b>	<b>Dates</b>	<b>Total Holes Drilled / Samples Taken</b>
Diamond Drilling	March 29 to April 4, 2019	15 holes
Assaying	April 10 to May 2, 2019	494 samples

**Table 1: Drilling and Assay Activity Details**

## 2. LOCATION DETAILS

### 2.1 PROPERTY & LOCATION

The Battery Mineral Resources' (BMR) Gowganda project is comprised of 1455 mining cell claims and 4 mining leases, totaling 31641.59 hectares, in Morel, Shillington, Rankin, Raymond, Knight, Van Hise, Haultain, Chown, Lawson, Nicol, Leith, Milner and Corkill townships (Figures 3 & 4) near the village of Gowganda in the District of Timiskaming. The general location of the Capitol mine property is shown in Figure 1.



**Figure 1: Location of the Gowganda Project, Capitol Mine Kilpatrick Prospect (Map data ©2019 Google)**

### 2.2 ACCESS

Access to the property can be made by taking HWY 560 west from Elk Lake, Ontario for 37.7 km to Everett Lake road. Everett Lake road can be taken for 4.2 km north-north-east to the historic Capitol Mine Shaft. A trail can then be driven or walked due south for ~100m to the Capitol Mine Kilpatrick Prospect.

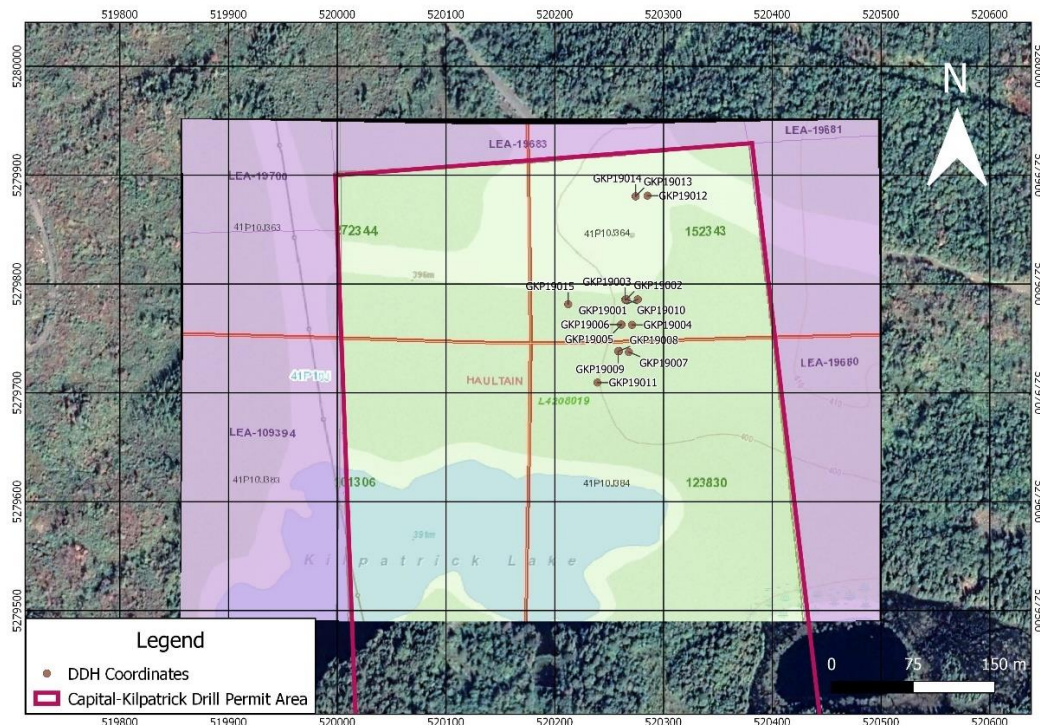
### 2.3 MINING CLAIMS

The Battery Mineral Resources' (BMR) Gowganda project is comprised of 1455 mining cell claims and 4 mining leases, totaling 31641.59 hectares, in Morel, Shillington, Rankin, Raymond, Knight, Van Hise, Haultain, Chown, Lawson, Nicol, Leith, Milner and Corkill townships (Figures 3 & 4). The BMR property consist of wholly owned staked units, leased claims, and under option from a number of individuals and companies.

The area of exploration drilling includes legacy claim numbered L4208019 which transitioned into boundary cells 272344, 152343, 101306, and 123830 (Table 2) located in the south boundary region of Haultain Township, within the Larder Lake Mining Division. Drilling was conducted on claims 152343 and 123830.

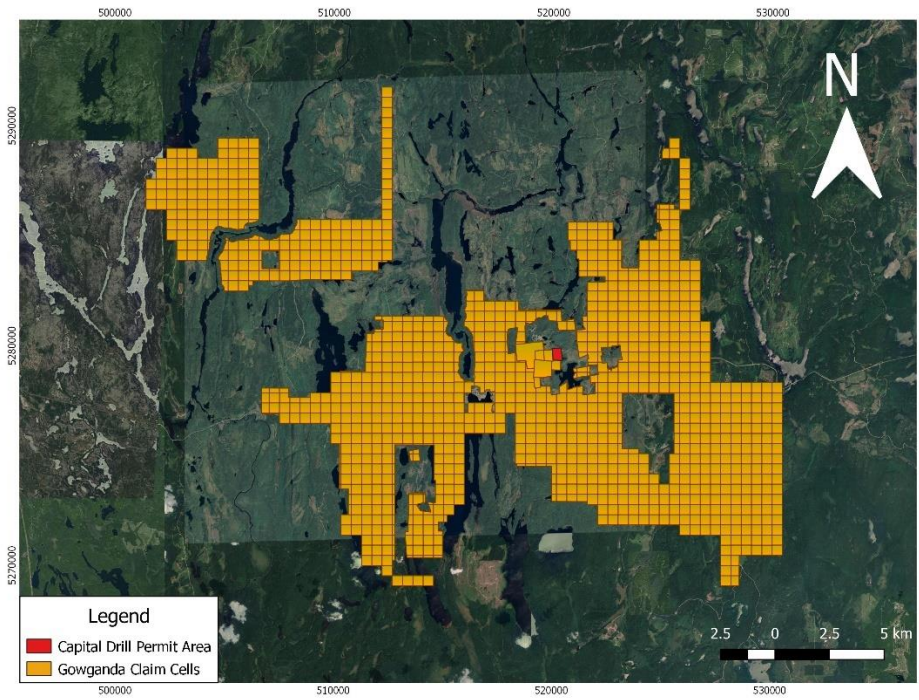
Legacy Claim Number	Claim Number	Provincial Grid Cell ID	Ownership of Land	Township
L4208019	152343	41P10J364	Battery Mineral Resources Limited	Haultain
L4208019	123830	41P10J384	Battery Mineral Resources Limited	Haultain

**Table 2: Mining Lands and Cells Information**

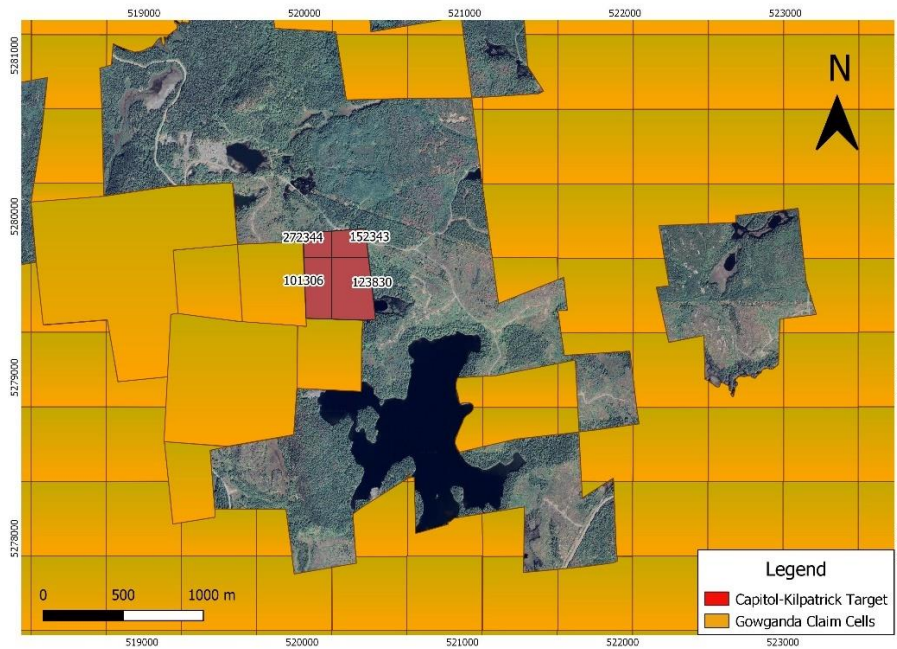


**Figure 2: Drill Hole Location Plan**





**Figure 3: BMR's broader Gowganda project (yellow squares) and Capitol Mine Kilpatrick prospect (red squares) overlain on a satellite image.**



**Figure 4: Gowganda project area (yellow squares) Capitol mine Kilpatrick prospect (red squares), overlain on a satellite image**

---

## **2.4 PROPERTY & EXPLORATION HISTORY**

There have been many historical mining and exploration projects carried out over the years within the survey area. The following list describes details of the previous geoscience work which was collected by the Mines and Minerals division and provided by OGSEarth (MNDM & OGSEarth 2018).

### **PROPERTY HISTORY**

Initial work on the property commenced in 1908 upon the discovery and evaluation of a silver-cobalt vein. In 1929 Castle-Trethewey Mines Ltd was formed through the amalgamation of Capitol Silver Mines and Trethewey Silver Cobalt Mines both of whom began major production in the area in 1920. The bulk of the production came from the Castle No. 3 Mine. Production ceased in 1931. Castle-Trethewey Mines recommenced operations in 1948 in the old Capitol Shaft area where production began again in 1949.

The Capitol Shaft property along with all other Gowganda Area properties held by Castle-Trethewey Mines were acquired by McIntyre Porcupine Mines in 1959. McIntyre Porcupine Mines continued production until 1964.

In 1967 all the Gowganda properties held by McIntyre Porcupine Mines were leased to United Siscoe Mines (Siscoe Metals). The Capitol Shaft was re-examined and operational until 1972 when Siscoe Metals relinquished the back to McIntyre Porcupine Mines.

In 1976, Milner Consolidated Silver Mines Ltd. acquired all the Gowganda properties from McIntyre.

### **EXPLORATION HISTORY**

#### **1908: Capitol Silver Mines/Trethewey Silver Cobalt Mines**

Acquired the Capitol property among other neighbouring properties in the Gowganda camp. Initial surface work was completed (stripping/trenching) and a 44-foot shaft was sunk into a north-south trending vein carrying iron-cobalt-nickel arsenides with minor silver. (File 41P10NE0016).

#### **1920-1931: Capitol Silver Mines/Trethewey Silver Cobalt Mines (Castle-Trethewey)**

Major production was conducted across all Gowganda properties with 6,461,021 ounces silver and 299,847 ounces cobalt produced. The majority coming from the Castle No. 3 Shaft. (File 41P10NE0016).

#### **1925: Capitol Silver Mines/Trethewey Silver Cobalt Mines (Castle-Trethewey)**

Sunk a second shaft, 60 ft east of the initial shaft which reached a final depth of 819

---

ft. This second shaft would be referred to as the 'Capitol Shaft'. (File 41P10NE0016).

**1951-66 and 1969-1971: Castle-Trethewey Mines Ltd./McIntyre Porcupine Mines/Siscoe Metals**

During these times and under several companies the Capitol Mine was actively mining and produced 11,437,181 ounces silver and 209,474 ounces cobalt. (File 41P10NE0016).

**1976: Milner Consolidated Silver Mines Ltd. (File 41P10NE0016)**  
***Compilation and Interpretation – Haultain and Nicol Township***

Kenneth H. Darke Consultants Limited compiled, interpreted, and concluded that vein systems and areas of potential economic interest within the properties were not sufficiently evaluated. Drilling and detailed geological evaluation was recommended to assess the potential of this area.

**1987: Canadian Lencourt Mines Ltd. (File 41P10NE0023)**  
***Geochemical Sampling – Haultain and Nicol Township***

Canadian Lencourt Mines Ltd and Sandy K. Mines conducted geochemical sampling on mine tailings on the Siscoe Metals property. It was concluded that the silver tailings at Sandy K are amenable to treatment. Recoveries were estimated to yield significant profit over a 7-year span.

**2007: Amador Gold Corp. (File 20000002177)**  
***Magnetometer Survey – Haultain Township***

Larder Geophysics Ltd. performed magnetometer survey over 3.3875 line-km of the Capitol Mine Grid. Three significantly high magnetic intensities were observed. A northwest trending magnetic high was interpreted as a geological boundary, whereas the sources of a southwest linear trend and a high anomaly observed in the lake region could not be configured.

**2008: Amador Gold Corp. (File 20000002746)**  
***Very Low Frequency EM Survey – Haultain Township***

Larder Geophysics Ltd. conducted a VLF EM survey over 3.4875 line-km of the Capitol Mine Grid. High magnetic intensities were mainly observed in the vicinity of an old mine. An intense north-northwest trending anomaly and a strong axis was observed, but their sources were undetermined.

**2009: Amador Gold Corp. (File 20000003861)**  
***HLEM Survey – Haultain Township***

Larder Geophysics Ltd. conducted a HLEM survey over 3.4875 line-km of the

---

Capitol Mine Grid. Conductive HLEM axes were observed in the survey area. Northern portion of these contributions were likely due to cultural features.

**2013-2015: Castle Silver Mines Inc (File 20000014046)**  
***Geological Mapping, Geochemical Sampling, Stripping, Channel Sampling, Rehabilitation – Haultain and Nicol Township***

Douglas Robinson of Doug Robinson Consulting conducted geological data compilation, geochemical analyses, stripping, channel sampling and grid rehabilitation on the Castle Silver Property. Additional line cutting, geophysical surveys and geological surveys were recommended for the survey area.

**2016: Battery Mineral Resources Limited (File 20000015781)**  
***Airborne Magnetometer and Airborne Radiometric Surveys – Donovan, Barber, Browning, Charters, Corkill, Donovan, Dufferin, Ermatinger, Hart, Haultain, James, Leckie, Leonard, Moncrieff, Nicol, North Williams, Ray, Speight, Unwin, Van Nostrand, Willet Townships***

Precision GeoSurveys conducted airborne magnetometer and radiometric surveys over 12,024 line-km of land for the Cobalt Project. Geophysical maps were generated with data obtained, but no solid interpretation was made. Additional geophysical surveying was recommended for accurate interpretation.

## **2.5 REGIONAL & LOCAL GEOLOGY**

The Gowganda project area lies along the eastern margin of the Proterozoic Southern province within the Cobalt Embayment bounded by Archean basement rocks of the Superior province to the north and east, and by the Grenville province to the south (Joyce, 2011).

The project area is underlain by Early Proterozoic rocks of the Huronian Supergroup deposited between 2500 to 2200 million years ago. They rest unconformably over Archean granitic, meta-volcanic and metasedimentary rocks of the Superior province's Abitibi greenstone belt (Joyce, 2011; Hanych, 1999). The rocks comprising the Huronian Supergroup in the project area consist primarily of rocks from the Gowganda and Lorrain formations of the Cobalt Group, the youngest stratigraphic section of the Huronian Supergroup (Joyce, 2011).

The Gowganda Formation is the basal unit of the Cobalt Group and is composed of laminated siltstones and argillites, sandstones and a conglomeratic unit characterized by numerous felsic granitic drop stones (Lindsey, 1969; Siemiatwoska, 1977). The Lorrain Formation consists of pebbly sandstones, conglomerates and is capped by quartzite (Siemiatwoska, 1977). Both formations display strong evidence for a fluvial origin through flame structures, graded bedding and rippled tops (Lindsey, 1969).

---

Both the underlying Archean rocks and Huronian sediments were intruded by a large mafic sill known as the Nipissing Diabase between 2220 to 2217 million years ago (Palmer et al., 2007). A number of phases define the Nipissing Diabase but compositionally it is considered an olivine tholeiite and occurs as undulating gabbroic sills with a relatively uniform thickness of 980-100 m (Jambor 1971; Joyce 2011; Siddom and James, 1999). The undulatory nature of the sill creates a series of peaks and troughs and in the project area the Nipissing acts as a bowl which underlies the volcanics at approximately 400 m.

## **2.6 MINERAL DEPOSIT TYPES**

Exploration drilling at Gowganda was focused on defining the extent of the Kilpatrick cobalt mineralized veins mapped on surface. Models of primary cobalt deposits, apart from those in the Central African Copperbelt, are not well defined in the existing literature (e.g., Hitzman et al., 2016).

Kerrich et al. (1986), Andrews et al. (1986a), and Andrews et al. (1986b) undertook detailed geological and geochemical studies of the Ag-Co veins of the historic Cobalt and Gowganda camps and concluded that saline to hypersaline basin brines transported metals to deposition sites, and that these metals were sourced from Huronian Basin aquifers. Proterozoic Ag-Co veins and Archean mineralized zones at Gowganda are hosted in the Huronian Basin and are closely linked to the basement massive sulfide deposits, it is possible that cobalt minerals at the Kilpatrick target also formed from saline basin brine circulation into structural traps.

## **2.7 TARGET OF INTEREST**

The objective of the drilling on the Gowganda project, Capitol Mine Kilpatrick prospect was to define vertical and lateral extents of the cobalt mineralized veins uncovered by recent stripping on surface. Cobalt mineralization at the Kilpatrick target may represent surface reflections of known Ag-Co mineralization and E-W and N-S structural trends that were mined at the Capitol and other local mines. Thus, the cobalt mineralizing fluid is interpreted to have exploited the same structural traps that controlled deposition of the Ag-Co mineralization mined in the proximal Capitol Mine workings, although the timing of the cobalt event remains unclear.

### 3. DRILLING

#### 3.1 PERMITS

Permit for exploration drilling at the Gowganda project, Capitol Mine Kilpatrick prospect is PR-18-000108.

#### 3.2 DRILLING

Hole planning of the drill campaign was based on the interpretation of the detailed mapping of the stripped area, thus drilling commenced on March 29th, 2019 and ended on April 4<sup>th</sup>, 2019. Fifteen holes were completed for a total of 960 meters (Table 3). The drill program was adjusted “on the fly” by P. Doyle after it was discovered that the targeted vein bottomed at the unconformity between the thin crust of sediments and the volcanic basement.

DDH	Easting (UTM NAD83 Z17N)	Northing (UTM NAD83 Z17N)	Elevation (m)	Azimuth	Dip	Depth (m)	Samples Collected	Samples Assayed
GKP19001	520276.30	5279785.81	403.43	94	-45	63	28	28
GKP19002	520265.35	5279785.42	403.00	91	-42	57	24	24
GKP19003	520264.69	5279785.56	402.65	91	-65	72	27	27
GKP19004	520271.00	5279762.46	402.78	89	-45	48	27	27
GKP19005	520261.34	5279762.69	402.41	90	-45	51	11	11
GKP19006	520260.73	5279762.67	402.22	91	-64	72	16	16
GKP19007	520268.11	5279737.50	402.86	94	-43	42	12	12
GKP19008	520259.04	5279738.42	402.50	89	-43	51	15	15
GKP19009	520258.32	5279738.30	402.57	93	-63	72	22	22
GKP19010	520265.74	5279786.03	403.04	65	-44	51	42	42
GKP19011	520239.15	5279709.40	399.50	108	-42	75	13	13
GKP19012	520285.21	5279881.13	403.44	94	-44	75	72	72
GKP19013	520274.32	5279880.53	399.39	na	90	42	40	40
GKP19014	520274.32	5279880.53	399.39	139	-44	72	69	69
GKP19015	520212.33	5279781.35	399.39	88	-54	117	23	23

***Table 3: Data on diamond holes drilled by BMR in 2019***

#### 3.3 INTERPRETATION

Following the completion of the drill program at the Gowganda project, Capitol Mine, Kilpatrick prospect a number of observations were made:

There is a thinning of the Huronian Sediments from north to south and east to west. Within the sediments, there is a dominant cobalt mineralized vein feature/ structure

---

with a parallel weak vein/ fracture approximately 5m to the west similar to that observed in the stripping.

In the drilling, it was found that mineralization may occur as veins/ stringers in both structures (GKP19002), as fracture zones in the projected position of both (GKP19004) or concentrated only along the westerly structure (GKP19010).

To the north in the vicinity of the original Capitol Cobalt Shaft, holes GKP19012 & 014 did not intersect an actual vein/ stringer zone, but rather traversed sections of 30m-40m (core length) in which numerous occurrences of Cobalt mineralization (XRF values 527ppm Co - 2597ppm Co) were noted along fractures. Vertical hole GKP19013 intersected similar Cobalt bearing fractures between 4m and 22m, indicating a fairly extensive Co-mineralized system.

In the drilling, it was found that mineralization may occur as veins/ stringers in both structures (GKP19002), as fracture zones in the projected position of both (GKP19004) or concentrated only along the westerly structure (GKP19010).

Hole GKP19004 intersected a Graphitic Fault in the underlying Volcanics which does not appear to penetrate the overlying Huronian Sediments. It may reflect the low resistivity IP anomaly and may have acted as a channel/ pathway for mineralizing fluids in the stripped area.

A better understanding of the style of mineralization, a combination of fracture filling and veins/ stringers, implies that there was fluid channeling initiated by the heat provided by intrusion of the underlying Nipissing Diabase Sill, through the intervening mafic volcanic package. The fluids may have scavenged sulphur and cobalt from the host volcanics and were subsequently trapped under the sedimentary cap, finding their way into fractured zones and any minor slips/ joints/ faults/ dilatant features within the sediments where the cobalt mineralization was deposited.

During a site visit from SRK Consulting in August 2019, the Kilpatrick veins were interpreted as either extensional, hybrid, or shear veins with possible Cobalt bearing plunge structures identified with an approximate orientation of 350/65 and found at the intersection of steeply dipping N-S and NW veins (Lebrun, 2019).

DDH	From_m	To_m	Length_m	ALS Sample	SAMPLE	Ag ppm	As ppm	Co ppm	Cu ppm	Ni ppm	As %	Co %	Cu %	Ni %
GKP19001	12.30	12.80	0.50	16606	16606	0.65	>10000	>10000		3 >10000	10.25	2.55		2.9
GKP19001	12.80	13.65	0.85	16609	16609	0.17	1160	678	8.5	393				
GKP19002	20.20	20.70	0.50	16645	16645	0.15	9870	4400	2.3	2200				
GKP19002	20.70	21.50	0.80	16648	16648	0.16	1355	859	4.8	228				
GKP19002	25.00	26.00	1.00	16653	16653	0.22	1090	787	2.9	74				
GKP19002	26.00	27.00	1.00	16654	16654	0.44	824	523	55.6	186.5				
GKP19007	15.72	16.72	1.00	16742	16742	0.61	1690	1015	15.9	944				
GKP19010	21.22	21.33	0.11	16979	16979	0.41	>10000	>10000		3.3 >10000	6.16	1.755		2.23
GKP19010	21.33	21.85	0.52	16982	16982	0.12	2830	1760	3.9	660				
GKP19010	20.56	21.22	0.66	16978	16978	0.15	2080	1225	3.1	750				
GKP19012	5.80	6.50	0.70	16752	16752	0.37	1740	1155	5.6	1050				
GKP19013	37.00	38.00	1.00	15836	15836	6.74	2910	1780	17.5	395				
GKP19014	16.77	17.72	0.95	16880	16880	0.72	2340	1530	4.7	276				
GKP19014	17.72	18.56	0.84	16881	16881	0.92	2200	1465	12.7	258				

**Table 4: Summary of significant assays in BMR 2019 drilling.**

Details of the significant assays from the BMR 2019 diamond drilling program (Table 4) are described in the holes below:

**GKP19001-** Best from 12.3m-12.8m: 0.5m at 2.55% Co & 2.9 % Ni

**GKP19002-** Peak Co Value 4400ppm Co; Anomalous Range 304ppm Co-4400ppm Co. Cobalt Anomalous Interval: 19.20m-27.00m: 7.8m at 653ppm Co including 2.8m grading 1244ppm Co. Peak Ni Value 2200ppm Ni; coincides with Peak Co Value; Anomalous Range 122ppm-2200ppm Ni. Peak Cu Value 498ppm Cu; Anomalous Range: 200ppm Cu-498ppm Cu.

**GKP19003-** A few weakly anomalous zones of Cu and Ni >200ppm.

**GKP19004-** A few weakly anomalous Copper values >200ppm Cu.

**GKP19005-** Some elevated slightly anomalous Ni values from 309ppm Ni to a peak of 711ppm Ni.

**GKP19006-** Peak Cobalt Value: 20.42m-21.42m: 1.00m at 128ppm Co within an interval 19.42m-22.42m: 3.00m at 116ppm Co. Needs Infill Sampling as >100ppm Co & Ni >1000ppm Ni values in every selective sample from 19.42m to 67.50m. Peak Silver Value: 1.00m at 0.25ppm Ag. Peak Nickel Result: 1.00m at 1540ppm Ni; Best interval: 38.50m-40.85m: 2.00m at 1,473ppm Ni. Peak Copper Value: 1.00m at 450ppm Cu within an interval of 17.42m-19.42m: 2.00m at 370ppm Cu

**GKP19007-** 1m at 1015ppm Co, 1m @ 312ppm Co (or 2m at 664ppm Co); 1m at 101ppm Co and 1m at 90ppm Co (2m at 93ppm Co). Best: 14.72m-18.72m: 3m at 476ppm Co including 1m at 1015ppm Co.

**GKP19008-** Peak Cobalt Value 1.00m at 120ppm Co within an interval of 23.00m-



---

26.00m: 3m at 114ppm Co. Peak Silver Value: 1.00m at 0.40ppm Ag. Peak Nickel Result: 1.00m at 1395ppm Ni within an interval of 23.00m-26.00m: 3m at 1346ppm Ni. Peak Copper Value: 1.00m at 961ppm Cu.

**GKP19009-** Weakly anomalous Co and Ni values; 15.82m-17.82m: 2.00m at 133ppm Co, 19.00m- 21.00m: 2.00m at 155ppm Co, 26.00m-27.00m: 1.00m at 125ppm Co, 33.50m-34.50m: 1.00m at 125ppm Co, 44.00m-45.00m: 1.00m at 106ppm Co, 53.10m-54.10m: 1.00m at 126ppm Co, 67.50m-68.50m: 1.00m at 110ppm Co.

**GKP19010-** Peak Cobalt Value: 21.22m-21.33m: 0.11m at 17,550ppm Co (1.75% Co) within an interval 19.85m-22.31m: 2.46m at 2,250ppm Co and a best interval 20.56m-21.85m: 1.29m at 2,833ppm Co. Peak Silver Value: 25.98m-26.98m: 1.00m at 1.18ppm Ag. Peak Nickel Result: 21.22m-21.33m: 0.11m at 22,300ppm Ni (2.33% Ni); within an interval 19.85m-22.31m: 2.46m at 1,497ppm Ni and a best interval: 20.56m-21.85m: 1.29m at 2,637ppm Ni. Peak Copper Value: 0.74m at 1,765ppm Cu within an interval of 23.98m-33.20m: 9.22m at 552ppm Cu and 13.00m-15.95m: 2.95m at 771ppm Cu.

**GKP19011-** No Significant Results; Peak Cobalt Value: 1.00m at 142ppm Co. Peak Silver Value: 1.00m at 0.11ppm Ag. Peak Nickel Result: 1.00m at 1180ppm Ni. Peak Copper Value: 1.00m at 184ppm Cu.

**GKP19012-** Weakly Anomalous Co and Cu Values; Peak Cobalt Value 1.00m at 1155ppm Co within an interval of 4.80m-7.50m: 2.7m at 402ppm Co. Peak Silver Value: 0.86m at 0.61ppm Ag. Peak Nickel Result: 0.70m at 1050ppm Ni. Peak Copper Value: 1.00m at 1425ppm Cu.

**GKP19013-** Weakly Anomalous Co and Cu Values; Peak Cobalt Value: 38.00m-38.75m: 0.75m at 1780ppm Co within an interval 37.00m-40.00m: 3.00m at 704ppm Co. Peak Silver Value: 1.00m at 3.19ppm Ag. Peak Nickel Result: 0.75m at 395ppm Ni. Peak Copper Value: 1.00m at 5000ppm Cu within an interval of 10.00m – 19.00m: 9.00m at 1,511ppm Cu.

**GKP19014-** No elevated Ni associated with weakly anomalous Co Zones; Upper Cobalt Interval: 14.87m-19.25m: 4.38m at 804ppm Co with Higher Grade Zone of 1.79m at 1500ppm Co. Lower Cobalt Interval: 46.40m – 49.70m: 3.3m at 106ppm Co. Peak Nickel Value: 322ppm Ni. Peak Copper Value: 718ppm Cu.

**GKP19015-** No significant results; Peak Cobalt Value: 125ppm Co. Peak Nickel Value: 438ppm Ni. Peak Copper Value: 599ppm Cu

---

### 3.4 RECOMMENDATIONS

- 1) Infill drilling in the immediate area of this program is recommended to test possible Cobalt bearing plunge structures identified by Structural Geologist Consultant Dr. Erwann Lebrun (2019) of SRK Consulting;
- 2) Drill test significant IP anomalies located between the Kilpatrick veins and the historic Capitol Mine Shaft;
- 3) test the unconformity between the volcanics and overlying Cobalt Group sediments for possible ponding and deposition of Cobalt minerals;
- 4) check the Volcanic package for possible fluid conduits and Cobalt deposition between the Diabase Sill and the overlying Sediments;
- 5) Further detailed mapping should be conducted along the Kilpatrick trench with a focus on identifying any secondary shear indicators which may assist in targeting possible Cobalt mineralized plunge structures;
- 6) Additional trenching to extend the existing stripping the south is recommended to expose the unconformity between the Huronian sediments and underlying Keewatin metavolcanics looking for any clues to the fluid transport mechanisms that mineralized the Kilpatrick veins, and more possible outcropping mineralized structures;
- 7) Extending the existing trench/ stripping to the north is also recommended to try to expose the extension of the vein to the original Capitol cobalt shaft;
- 8) Continue modelling the adjacent historic mine workings from Capitol to Bonsall Mines looking for any indicators of possible mineralization hosted in the sediments, Keewatin metavolcanics, or underlying diabase sill. The modelling may also provide insight for any structures that may have acted as fluid conduits for mineralization on adjacent properties that may apply to the Capitol.
- 9) Survey the north and eastern extents of legacy claim L4208019.

---

#### 4. REFERENCES CITED

---

- Andrews, A.J., Owsiacki, L., Kerrich, R., and Strong, D.F., 1986a, The silver deposits at Cobalt and Gowganda, Ontario. I: Geology, petrography, and whole-rock geochemistry: *Canadian Journal of Earth Sciences*, v.23 (10), p. 1480-1506.
- Andrews, A.J., Masliwec, A., Morris, W.A., Owsiacki, L., and York, D., 1986b, The silver deposits at Cobalt and Gowganda, Ontario. II: An experiment in age determinations employing radiometric and paleomagnetic measurements: *Canadian Journal of Earth Sciences*, v.23 (10), p. 1507-1518.
- Google Earth Pro. 2019. *Location of the Gowganda Project*. 47°40'16.71"N, 80°43'46.78"W, eye alt 255.46km, Viewed November 19, 2019. <<http://www.google.com/earth/index.html>>.
- Hanych, W. (1999). *Roy Lacarte Property, Geological Evaluation*. Tyrrell Township, Timiskaming District, Northeastern Ontario.
- Hendrickson, M. (2019/07/15). *Evaluation of the Kilpatrick Prospect*. Battery Mineral Resources.\* *Internal source may not be accessible to general public.*
- Hitzman, M.W., Bookstrom, A. A., Slack, J. F., and Zientek, M. L., 2016, Cobalt—Styles of Deposits and the Search for Primary Deposits: USGS Open-File Report 2017–1155, 53 p.
- Jambor, J.L. (1971). *The Nipissing Diabase*. *The Canadian Mineralogist*, 11(1):34-75.
- Joyce, J.K. (n.d.). *The Cobalt-Gowganda Silver Mining Area*. Retrieved from [https://www.davidkjoyceminerals.com/pagefiles/articles\\_cobaltgowganda.asp](https://www.davidkjoyceminerals.com/pagefiles/articles_cobaltgowganda.asp).
- Kerrich, R., Strong, D.F., Andrews, A.J., and Owsiacki, L., 1986, The silver deposits at Cobalt and Gowganda, Ontario. III: Hydrothermal regimes and source reservoirs—evidence from H, O, C, and Sr isotopes and fluid inclusions: *Canadian Journal of Earth Sciences*, v.23 (10), p. 1519-1550.
- Lebrun, E., 2019. Memo on a site visit to the Gowganda project. SRK Consulting, p. 1-5.
- Lindsey, D.A. (1969). *Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada*. *GSA Bulletin*, 80 (9): p. 1685-1702.
- Palmer, H. C.; Ernst, R. E.; Buchan, K. L. (2007). *"Magnetic Fabric Studies of the Nipissing sill province and Senneterre dykes, Canadian shield, and Implications*

---

*for Emplacement". Canadian Journal of Earth Sciences. NRC Research Press 44 (4): p. 507–528.*

Ploeger, F. (2019/04/10). *Gowganda Capitol Shaft Drilling: Preliminary Observations*. Batter Mineral Resources.\* *Internal source may not be accessible to general public.*

Siddom, James P. (1999). *Differential Uplift of the Archean Basement North of the Sudbury Basin: Petrographic Evidence from the Matachewan Dyke Swarm (submitted in conformity with the requirements for the degree of M.Sc. Graduate Department of Geology University of Toronto thesis).*

Siemiakowska, K.M. (1977). *Geology of the Wakomata Lake Area, District of Algoma*. Ontario Division of Mines: Geoscience Report 151.

## 5. QUALIFICATIONS

### CERTIFICATE OF QUALIFICATION AND CONSENT


*I, Frank Rainer Ploeger of the town of Virginiatown, Province of Ontario, do hereby certify:*

- 1) That I am a Consulting Geologist and reside at 21 Waite Avenue, Virginiatown, Ontario, P0K 1X0.
- 2) That I graduated from Queen's University at Kingston, Ontario with a Bachelor of Applied Science degree in 1973; and, that I completed 2 years of an MSc program at McMaster University in Hamilton, Ontario (1980- 1982).
- 3) That I am a **member in good standing of the Association of Geoscientists of Ontario (#479), the Association of Professional Engineers and Geoscientists of Saskatchewan (#10852, non- practicing), the Geological Association of Canada, the Prospectors and Developers Association, and the Northern Prospectors Association.** I have received a temporary permit (#2153) to practice in Quebec from the Ordre des geologues du Quebec pending acceptance by the Office quebequois de la langue francaise (OQLF).
- 4) That I have practiced my profession as a mineral exploration and mine geologist for a period of about 45 years.
- 5) This document is based on information various public documents and my personal observations during several visits to the property.

*Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.*

6) I have no interest, either directly or indirectly, in the subject property or client company.

7) *My written permission is required for the release of any summary or excerpt.*

  
Frank R. Ploeger

Virginiatown, Ontario, November 27, 2019



---

---

## CERTIFICATE OF QUALIFICATION AND CONSENT

***I, Peter James Doyle of the city of Richmond Hill, Province of Ontario, do hereby certify:***

- 1) That I am an Exploration Geologist and reside at 79 Naughton Drive, Richmond Hill Ontario, L4C8B2.
- 2) That I graduated from Laurentian University at Sudbury, Ontario with an Honours Bachelor of Science degree in 1980.
- 3) That I am a **Fellow in good standing of the Australian Institute of Mining & Metallurgy (AUSIMM # 208850) as well as a member in good standing of Geological Association of Canada (GAC F0146); Canadian Institute of Mining & Metallurgy (CIMM # 91602); Prospectors & Developers Association of Canada (PDAC # 707); Society for Geology Applied to Mineral Deposits (SGA# 1333-08) and Society of Economic Geologists (SEG # 216720).**
- 4) That I have practiced my profession in various roles as a Mineral Exploration Geologist, Exploration Manager and Vice President of Exploration for a period of about 39 years principally within Canada & Australia as well as globally in United States of America, Mexico, Indonesia, China, Mongolia, Brazil, Argentina and Guyana.
- 5) This document is based on information various public documents and my personal observations during visits to the property during the exploration program.  
*Although the information supplied to me is believed to be accurate and all reasonable care has been taken in the completion of this report, I hereby disclaim any and all liability arising out of its use and circulation. While I stand behind my interpretations, I cannot guarantee the accuracy of the source information and the use of this report or any part thereof shall be at the user's sole risk.*
- 6) I am currently employed full time as Exploration Manager – Canada for Battery Mineral Resources Limited and was directly involved in the planning and execution of the exploration program documented in this report.
- 7) *My written permission is required for the release of any summary or excerpt.*



---

Peter J. Doyle

Richmond Hill, Ontario, Nov 28, 2019

---

## 6. INSTRUMENT SPECIFICATIONS

### Trimble GeoXT<sup>1</sup>



### STANDARD FEATURES

#### System

- Windows Mobile 6.1(Classic edition)
- VGA display (480 x 640), sunlight-readable color touch screen
- Integrated Bluetooth 1.2 wireless technology
- Integrated 802.11b/g wireless LAN
- Ergonomic cable-free handheld
- Rugged and water-resistant design
- All-day internally rechargeable Li-ion battery
- Marvell 520 MHz XScale processor
- 128 MB RAM
- 1 GB non-volatile Flash data storage
- Sealed SD/SDHC card slot
- Integrated speaker and microphone

#### GPS

- Integrated high-performance GPS/SBAS1 receiver and L1 antenna
- Submeter real-time or 50 cm postprocessed accuracy

---

<sup>1</sup> Trimble instrument information available from: <https://seafloorsystems.com/support/brochures/trimble-docs/43-trimble-geoxt-handheld-gps-receiver/file>

- 
- RTCM and CMR real-time correction support
  - TSIP and NMEA protocol support
  - EVEREST multipath rejection technology

#### Standard Software

- GPS Controller for control of integrated GPS and in-field mission planning
- GPS Connector for connecting integrated GPS to external ports
- Microsoft Office Mobile
- Transcriber (handwriting recognition)

#### Standard Accessories

- Support module
- AC Power supply with International adapter kit
- USB data cable
- Stylus(x2)
- Screen protectors (2-pack)
- Quick Start Guide
- Getting Started CD
- Hand strap
- Pouch

### **OPTIONAL FEATURES**

#### Optional Software

- Terra Sync software
- Trimble GPS correct extension for ESRI ArcPad software
- GPS Pathfinder Tools Software Development Kit (SDK)
- GPS Pathfinder Office software
- Trimble GPSAnalyst™ extension for ESRI ArcGIS Desktop software
- TrimPix™ Pro system

#### Optional Accessories

- TDL 3G cellular modem accessory
- Power/serial clip (9-pin RS-232 serial connector and power input)
- Vehicle power adaptor
- Null modem cable
- Backpack kit
- Hard carry case
- Tempest™ antenna
- External patch antenna
- Pole-mountable ground plane
- Baseball cap with patch antenna pocket
- 2 meter range pole
- Range pole bracket



- Geo Beaconreceiver
- Anti-glare screen protectors (2-pack)

## TECHNICAL SPECIFICATIONS

### Physical

Size .....	21.5 cm x 9.9 cm x 7.7 cm (8.5 in x 3.9 in x 3.0 in)
Weight .....	0.80 kg (1.76 lbs) with battery
Processor .....	520 MHz Marvell PXA-270 XScale processor
Memory .....	128 MB RAM and 1 GB internal Flash storage
Battery .....	Internal 7500 mAh lithium-ion 27.8 Watt-hours, rechargeable in unit
Power usage	
Low (no GPS or backlight) .....	1.8 Watts
Normal (with GPS and backlight <sup>3</sup> ) .....	2.6 Watts
High (with GPS, backlight <sup>3</sup> , Bluetooth, and wireless LAN) <sup>4</sup> .....	3.7 Watts

### Environmental

Operating temperature .....	-20 °C to +60 °C (-4 °F to 140 °F)
Storage temperature .....	-30 °C to +70 °C (-22 °F to 158 °F)
Casing .....	Dust-proof and resistant to heavy wind-driven rain per IP 65 standard Slip-resistant grip, shock and vibration resistant
Drop .....	1.2 m (4 ft) MIL-STD-810F, Method 516.5, Procedure IV

### Input/Output

Expansion .....	SD card slot (SD or SDHC storage cards)
Display .....	8.9 cm (3.5 in) VGA (480 x 640 pixel) TFT, 16-bit (65,536) colors
Interface .....	LED back light Touch screen, 10 hardware control keys, power status LED Audio system events, warnings, and notifications Soft Input Panel (SIP) virtual keyboard and handwriting recognition software
Audio .....	Microphone and speaker, record and playback utilities
I/O .....	USB 1.1 client via support module Serial via optional 9-pin RS-232 power/serial clip adaptor
Radios <sup>5</sup> .....	Bluetooth 1.2, Wireless LAN 802.11b/g

### GPS

Channels .....	14 (12 L1 code and carrier, 2 SBAS)
Integrated real-time .....	SBAS <sup>1</sup> (dual-channel tracking)
Update rate .....	1 Hz

Time to first fix .....	30 seconds (typical)
Protocols	
Data output .....	TSIP, NMEA-0183 v3.0 (GGA, VTG, GLL, GSA, ZDA, <span style="float: right;">GSV, RMC)</span>
Real-time corrections .....	RTCM 2.x, RTCM 3.0, CMR, CMR+

Accuracy (HRMS)<sup>6</sup> after differential correction

Code postprocessed .....	50 cm
Carrier postprocessed <sup>7</sup>	
With 10 minutes tracking satellites.....	20 cm
With 20 minutes tracking satellites.....	10 cm
With 45 minutes tracking satellites .....	1 cm
Real-time (SBAS <sup>1</sup> or external correction source) .....	Submeter

- 1 SBAS (Satellite Based Augmentation System). Includes WAAS available in North America only, EGNOS available in Europe only, and MSAS available in Japan only.
- 2 Power/serial clip also required.
- 3 With backlight at default setting (50% brightness).
- 4 Power draw will vary depending on radio usage.
- 5 Bluetooth and wireless LAN type approvals are country specific. GeoExplorer 2008 series handhelds have Bluetooth and wireless LAN approval in the U.S. and in most European countries. For further information please consult your local reseller.
- 6 Horizontal Root Mean Squared accuracy, 1-sigma (68%). Except in conditions where most GPS signals are affected by trees, or buildings, or other objects. Except when using VRS corrections, accuracy varies with proximity to base station by +1 ppm for code postprocessing and real-time.
- 7 Postprocessed carrier accuracy varies with proximity to base station by +2 ppm. 45 minute carrier capability applies only to the GPS Pathfinder Office software and is limited to 10km from the base station.

---

## 7. APPENDIX

Data on accompanying disc includes:

- 1.) Drill Hole Metadata
- 2.) Drill Hole Text Logs
- 3.) Assay Data
- 4.) Certificates of Analyses
- 5.) Cross Section Graphic Logs with Assays
- 6.) Plan Maps
- 7.) M. Hendrickson Kilpatrick Evaluation

DDH	Easting (UTM NAD83 217N)	Northing (UTM NAD83 217N)	Elevation (m)	Azimuth	Dip	Depth (m)	Size	Legacy Claim Number	Cell Number	Drilling Start Date	Drilling End Date	Drilling Contractor	Storage	Overburden Thickness (m)	Casing	Cap	Abandoned	Artesian Conditions	Logging Completion Date	Log Author
GKP19001	520276.30	5279785.81	403.43	94	-45	63	NQ	L4208019	152343	29-Mar-19	29-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.80	Left in place	Metal cap and flag	No	No	March 31, 2019	Sarah Mills
GKP19002	520265.35	5279785.42	403.09	91	-42	67	NQ	L4208019	152343	29-Mar-19	30-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	2.83	Left in place	Metal cap and flag	No	No	April 1, 2019	Sean Hicks
GKP19003	520264.69	5279785.56	402.65	91	-45	72	NQ	L4208019	152343	30-Mar-19	30-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.54	Left in place	Metal cap and flag	No	No	April 1, 2019	Mercedes Rich
GKP19004	520271.00	5279762.46	402.78	89	-45	48	NQ	L4208019	152343	30-Mar-19	30-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.85	Left in place	Metal cap and flag	No	No	April 2, 2019	Sean Hicks
GKP19005	520261.34	5279762.69	402.41	90	-45	51	NQ	L4208019	152343	30-Mar-19	31-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.46	Left in place	Metal cap and flag	No	No	April 3, 2019	Seun Ajibode
GKP19006	520260.73	5279762.67	402.22	91	-64	72	NQ	L4208019	152343	31-Mar-19	31-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.36	Left in place	Metal cap and flag	No	No	April 7, 2019	Sean Hicks
GKP19007	520268.11	5279737.50	402.86	94	-43	42	NQ	L4208019	123830	31-Mar-19	31-Mar-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	4.55	Left in place	Metal cap and flag	No	No	April 6, 2019	Sean Hicks
GKP19008	520259.04	5279738.42	402.50	89	-43	51	NQ	L4208019	123830	31-Mar-19	01-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.00	Left in place	Metal cap and flag	No	No	April 5, 2019	Sean Hicks
GKP19009	520268.32	5279738.30	402.57	93	-43	72	NQ	L4208019	123830	01-Apr-19	01-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	1.63	Left in place	Metal cap and flag	No	No	April 8, 2019	Sean Hicks
GKP19010	520265.74	5279786.03	403.04	66	-44	51	NQ	L4208019	152343	01-Apr-19	01-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.85	Left in place	Metal cap and flag	No	No	April 7, 2019	Mercedes Rich
GKP19011	520239.15	5279709.40	399.50	108	-42	75	NQ	L4208019	123830	01-Apr-19	02-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	4.89	Left in place	Metal cap and flag	No	No	April 4, 2019	Sean Hicks
GKP19012	520285.21	5279881.13	403.44	94	-44	75	NQ	L4208019	152343	02-Apr-19	02-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	4.80	Left in place	Metal cap and flag	No	No	April 5, 2019	Geordie Hamilton and Mallory Metcalfe
GKP19013	520274.32	5279880.53	399.39	na	90	42	NQ	L4208019	152343	02-Apr-19	03-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.00	Pulled	None	No	No	April 9, 2019	Sean Hicks
GKP19014	520274.32	5279880.53	399.39	139	-44	72	NQ	L4208019	152343	03-Apr-19	03-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	3.71	Pulled	None	No	No	April 5, 2019	Mercedes Rich
GKP19015	520212.33	5279781.35	399.39	88	-54	117	NQ	L4208019	152343	03-Apr-19	04-Apr-19	G4 Forage	Canadian Exploration Services Ltd, 14479 Government Rd, Larder Lake, ON P0K 1L0, Canada	5.35	Left in place	Metal cap and flag	No	No	April 9, 2019	Mercedes Rich



GFP19003	17.89	23.55	6.16	Sil siltstone	D	grey black	fg	bedded/bedding general	Dark grey black siltstone with sandy (quartz and lesser feldspar) laminations to beds (fine to coarse-sand, locally gravelly), with 3 to 7% dropstones, felsic-granitic to intermediate, sub-angular to rounded, granules to pebbles (locally cobbles), more clast supported bands near bottom of interval. Minor offsets locally occur in sandy laminations. Interval is generally competent. Weak sericite alteration. Fine-grained disseminated chloropyrite and pyrite occur associated with dropstone clasts (typically within the clasts), as well as fine-grained blebs to discontinuous stringers in thin carbonates. Trace blebbly pyrite is more sandy intervals. Rare thin carbonate stringers (seemingly becoming slightly more common down interval). Rare carbonate-quartz, mm-scale veins. Lower contact arbitrary and defined by the last appearance of clasts and the start of an rubble interval.	massive		sericite alteration	v wk		chloropyrite	0.3	pyrite	0.2	carbonate vein	0.1	stringer	0.1				
GFP19003	23.55	26.99	3.44	Fault Breccia	D	grey black	fg	massive	Mafic meta-volcanic. Dark green grey black, very fine- to fine-grained, massive, equigranular. Interval is broken, blocky to rubbly with low RCD. Weak and localized sericite alteration, weak and pervasive chlorite alteration. Fracture surfaces are oxidized. Rare carbonate-chlorite, 1 to 2 mm, veinlets and carbonate-quartz, 1 to 3 mm veinlets; trace stringers to subhedral pyrite associated with veinlets. Lower contact is difficult to defined as it is in rubble.	faulted/fault		sericite alteration	wk	chlorite alteration	wk	pyrite	0.01		carbonate vein	0.1	quartz-carbonate vein	0.1				
GFP19003	26.99	27.15	0.16	Fault	M	grey black	fine	massive	Gouge	faulted/fault		chlorite alteration	wk mod	sericite alteration	wk	pyrite	0.5	carbonate vein	1	quartz vein	0.1					
GFP19003	27.15	42.34	15.19	Vm mafic volcanic	D	grey black	vfg	massive	Mafic meta-volcanic. Dark green grey black, very fine- to fine-grained, massive, equigranular. Interval is competent with few blebs that are less than 10 cm. Tension fractures with carbonate fill at 35.70 m. Weak to moderate and pervasive chlorite alteration and sericite alteration. Trace disseminate fine-grained to blebbly pyrite. Abundant thin, generally 1 to 3 mm, carbonate veinlets, occurring at moderate to high angles to core axis, locally associated with trace fine-grained disseminated pyrite, locally minor offsets of carbonate veins. Rare, cm-scale quartz-carbonate-chlorite veins. Lower contact arbitrary and defined by change in texture of mafic meta-volcanics and appearance of argillite.	massive		chlorite alteration	wk mod	sericite alteration	wk mod	pyrite	2		carbonate vein	1						
GFP19003	42.34	47.57	5.23	Vm mafic volcanic	D	grey black	vfg	bedded/bedding general	Intercalated mafic meta-volcanics and argillite (graphitic). Mafics are medium buff-green to medium grey black, very fine-grained (aphanitic) and massive with bands of black subhedral graphitic argillite. Interval is generally competent. Multiple argillite bands occur: 43.55-43.40 m, upper and lower contact at approximate 30 dta, lower contact a fracture; 43.75-43.85 m in slightly undulatory with contacts at 50 to 55 degrees; 46-40 to 45.56 m, upper contact at approximately 40 dta and lower contact is wavy to faney; 46.52 and 47.27 m has a well developed fabric, is carbonate rich and with blocky to augen quartz blebs with abundant disseminated to disseminated stringers of pyrite (shard(?)); upper contact is a fracture at 25 to 30 degrees and lower contact at 35 to 40 dta, fabric is generally 25 to 40 degrees; as well as, undulatory and/or discontinuous argillite bands ranging from 30 to 40 dta (local up to 50 degrees) down interval. Abundant fine- to medium-grained disseminated to disseminated stringers of euhedral to subhedral pyrite is common in the mafic meta-volcanic. Locally semi-massive, irregular shaped pyrite is common in the argillite. Relatively common, 1 to 3 mm, carbonate vein. Lower contact slightly arbitrary and defined by end of argillite unit.	massive		chlorite alteration	wk mod	sericite alteration	wk mod	pyrite	2		carbonate vein	1						
GFP19003	47.57	61.95	14.38	Vm mafic volcanic	M	grey	fg	massive	Altered intermediate/mafic meta-volcanics. Medium grey, fine- to medium-grained, massive to locally weakly foliated. Weak to moderate and pervasive chlorite alteration and sericite alteration (potential silica alteration(?)). Fine-grained disseminated, blebbly to euhedral, pyrite (increasingly abundant near top of interval. Thin, 1 to 4 mm carbonate veins, locally wavy and locally with small off-sets. Rare quartz vein (very minor carbonate), cm-scale (4 to 10 cm). Lower contact is arbitrary and defined by first appearance of argillite.	massive		sericite alteration	mod str	chlorite alteration	wk mod	pyrite	0.3		carbonate vein	1	quartz vein	2				
GFP19003	61.95	63.15	1.2	Vm mafic volcanic	D	green black	vfg	massive	Altered mafic meta-volcanics or seds(?) IDK	massive		chlorite alteration	wk mod	sericite alteration	wk mod	pyrite	0.2		carbonate vein	0.1						
GFP19003	63.15	72	8.85	Vm mafic volcanic	D	green	fg	massive	Intercalated mafic meta-volcanics and argillite (graphitic). Mafics are medium buff-green to medium grey black, fine-grained and weakly foliated to massive. An approximate 1 cm seam of graphitic argillite, occur at low-angle to core axis (sub-parallel) between 63.36 and 62.15; and a band of carbonate-rich intercalated argillite and lesser mafics occur between 62.14 and 62.83; a weak fabric occur at low-angle to core axis (sub-parallel) and is irregular/undulatory/deformed/shear grain(?). Interval is blocky with graphitic common on fracture surfaces. Weak to moderate and pervasive chlorite alteration of mafics and weak to moderate sericite alteration of plagioclase grains defining weak to moderate fabric. Disseminated aggregated to stringers of pyrite occur replacing mafics in the argillite band and along the edges of the band. Minor carbonate vein at the bottom-end of the argillite band in the mafics roughly parallel to the contact. Lower contact is arbitrary and define by the change in alteration.	massive		chlorite alteration	mod	sericite alteration	wk mod	pyrite	0.05		carbonate vein	1						
GFP19004	0	3.85	3.85	Oou overburden general				Overburden																		
GFP19004	3.85	8.15	4.3	Sar arenite	I	fawn cream	vfg	laminated	Quartz Arenite: fawn cream, very fine, appears massive with weak relict laminations as unit appears to have been cooked up (garnetite or quartzite?). Unit is hard and competent with few natural fractures. Alteration of laminae have made them discontinuous, mottled and a creamy white colour, minor localized pinkish orange staining likely resulting from hematite, unit is locally pitted almost vuggy. Trace very finely disseminated pyrite +/- chloropyrite often rimmed by dull black mineral (Co-mineral?), dull black Co-bearing mineral found on fracture planes and appear dendritic when associated with fracture fills/stringers. Minor sub-mm-scale quartz-carbonate stringers and fracture fills sometimes associated with pyrite and dull black mineral. Lower contact is sharp and undulatory at 15 DTCA.	massive		silica alteration	mod str	sericite alteration	wk	hematite alteration	tr	pyrite	0.1	cobaltite	0.01	chloropyrite	0.01	quartz-carbonate vein	0.01	
GFP19004	8.15	14.56	6.41	Sar arenite	m	grey	fg	bedded/bedding general	Quartz Arenite: light to medium grey, very fine to fine grained sand and laminated/bedded. Units are both hard and competent with very few natural fractures. Pervasive moderate silica alteration, localized orange red hematite staining and very minor sericitization of more feldspar rich laminations, from 14 m to lower contact weak pervasive carbonate alteration. Trace subhedral disseminated pyrite, locally up to 1% or stringers/fracture fill associated pyrite, very trace anomalous blebbly chloropyrite and dull black Co-bearing mineral found on fracture planes. Very minor sub-mm-scale quartz-carbonate fracture fills/stringers often with pyrite. Lower contact is sharp and undulatory at 15 DTCA.	massive		silica alteration	mod str	carbonate alteration	wk	hematite alteration	tr	pyrite	0.1	cobaltite	0.01	chloropyrite	0.01	quartz-carbonate vein	0.01	
GFP19004	14.56	28.39	13.83	Scg conglomerate	d	grey black	vfg	matrix supported	Conglomerate: dark grey black, very fine grained silt to sandy siltstone matrix in a poorly sorted polymictic conglomerate. Felsic to intermediate granitic clasts range from coarse sand to cobble sized and are subangular to subrounded. Unit is predominantly matrix supported with a couple sub-m-scale siltstone bands and becomes clast supported towards lower contact. Unit is hard and competent save one oxidized rubbly zone at 27.32 m. Minor pervasive chlorite alteration, localized pervasive carbonate alteration and localized red hematite staining. Trace fine grained disseminated pyrite +/- chloropyrite, anomalous medium grained blebs or associated with mm-scale quartz-carbonate stringers/veinlets. Numerous mm- to cm-scale carbonate and quartz-carbonate stringers/veinlets, locally vuggy and stained red, zones of pervasive carbonate alteration predominantly associated with siltstone bands display strobwork style carbonate veinlets. Sharp unconformable lower contact at roughly 90 DTCA.	massive		chlorite alteration	mod	carbonate alteration	wk mod	hematite alteration	tr	pyrite	0.1	chloropyrite	0.01	quartz-carbonate vein	0.1	carbonate vein	0.1	
GFP19004	28.39	31.1	2.71	Vm mafic volcanic	m	grey	vfg	foliated	Mafic Volcanics: medium grey, very fine grained, weak to moderately foliated. Unit is hard and competent with few natural fractures. Very weak pervasive chlorite alteration, moderate pervasive sericitization of feldspars which define foliation, pervasive carbonate alteration. Trace blebbly pyrite often proximal to sections of higher density carbonate stringers/veinlets. Numerous sub-mm to mm-scale carbonate stringers/veinlets cross cutting foliation sometimes with blebbly pyrite association. Lower contact is sharp at 65 DTCA.	foliated		carbonate alteration	str	sericite alteration	mod	chlorite alteration	wk	pyrite	0.1		carbonate vein	1				
GFP19004	31.1	31.78	0.68	Fault Breccia	m	grey	cg	blocky	Mafic Volcanic: Fault Breccia: medium grey, pebble sized clast supported fault breccia, clasts consist of angular or blocky mafic volcanic clasts. Unit is hard and competent with no natural fractures. Pervasive carbonate alteration even within clasts, as well as sericite and minor chlorite alteration. Trace blebbly pyrite along grain/clast boundaries. Lower contact is sharp at 25 DTCA.	brecciated		carbonate alteration	str	sericite alteration	mod	chlorite alteration	v wk	pyrite	0.01							
GFP19004	31.78	34.15	2.37	Vm mafic volcanic	m	grey	vfg	foliated	Mafic Volcanics: same as previous 28.39 to 31.1 m, a couple cm-scale veins, one carbonate and two quartz-carbonate vein one which is locally stained red, both of which cross cut and displace carbonate stringers. Lower contact is faulted and defined by rubbly zone.	foliated		carbonate alteration	str	sericite alteration	mod	chlorite alteration	v wk	pyrite	0.01							
GFP19004	34.15	34.9	0.75	Fault	m	red grey	vfg	fragmental or as fragments	Fault: medium to dark grey and oxidized fragments of previously described mafic volcanics. Lower contact is defined by red rubbly zone which is the beginning of Felsic granitic dyke.	faulted/fault		hematite alteration	mod													
GFP19004	34.9	35.58	0.68	Gpp porphyry	I	cream grey	vfg	porphyroblastic or porphyroblastic	Feldspar Porphyry Dyke: light to medium creamy grey, aphanitic with medium to coarse grained subrounded porphyroblasts, weak foliation defined by biotite. Unit is hard and competent although slightly fractured. Pervasive carbonate alteration, very weak chlorite alteration and localized pink staining associated with vuggy quartz-carbonate vein. Trace very fine grained pyrite confined to biotite foliations. Numerous quartz-carbonate and/or carbonate stringers/veinlets with several cm-scale cross cutting quartz veins. Lower contact is sharp at 50 DTCA.	weakly foliated		carbonate alteration	mod	chlorite alteration	v wk	hematite alteration	v wk	pyrite	0.01		carbonate vein	1	quartz vein	0.01		
GFP19004	35.58	37.9	2.32	Vm mafic volcanic	m	grey	vfg	foliated	Mafic Volcanics: same as previous 31.78 m to 34.15 m, higher percentage of cross cutting cm-scale carbonate and quartz-carbonate veins locally stained orangey pink and a concentrated zone from 37.10 to 37.29 m, one large brecciated quartz-carbonate, 37.68 m. Lower contact is sharp and defined by rubbly zone.	foliated		carbonate alteration	str	sericite alteration	mod	chlorite alteration	v wk	pyrite	0.1		carbonate vein	1	quartz vein	1		

GXP19004	37.9	38.04	0.15	Fault	d	black	vfg	fragmental or as fragments	Fault: top of fault is defined by a 5 cm graphitic fault gouge which is dull black, aphanitic, pitted and weakly foliated. Gouge contains 2% disseminated and foliation parallel pyrite stringers. Bottom of rubby fault zone is same as previously described mafic volcanics but with no significant veining. Unit is rubby and lower contact is defined by more competent mafic volcanics.	faulted/fault	Graphitic alteration	v str	carbonate alteration	wk	sericite alteration	wk	pyrite	2					
GXP19004	38.04	41.25	3.21	Vm mafic volcanic	m	grey	vfg	foliated	Mafic Volcanics: same as previous 28.39 m to 31.1 m, but unit is much more blocky with a rubby zone from 38.84 to 40 m. A healed graphitic chear or fault gouge at 46.46 m contains numerous carbonate stringers and is associated to a 5 cm quartz-carbonate vein both of which are at a low angle to core axis. Trace galena and sphalerite are associated with the contact between the gouge and quartz-carbonate vein. The unit remains carbonaceous but also has numerous graphitic fracture fill stringers. The lower contact appears to be brecciated. Lower contact is sharp and sub-parallel to core axis.	brecciated	carbonate alteration	str	Graphitic alteration	mod	sericite alteration	wk	pyrite	0.1	quartz vein	1 carbonate vein	0.1		
GXP19004	41.25	44.21	2.96	Fault	d	grey black	vfg	fissile	Fault: unit is a healed graphitic shear/gouge. It is silvery black to dark grey, aphanitic to very fine grained and foliated or fissile where unit is still competent. Unit is mostly blocky to rubby and has undergone intense pervasive graphitic alteration with minor pervasive carbonate and hematite alteration. Foliation parallel pyrite stringers, as well as disseminated sub- to euhedral pyrite, trace sphalerite +/- galena are more closely associated with a foliation parallel cm-scale carbonate vein. One 15 mm foliation parallel carbonate vein is also foliated and it has a minor sphalerite +/- galena association. The lower contact is sharp at sub-parallel to core axis ending at 44.21 m.	faulted/fault	Graphitic alteration	v str	carbonate alteration	mod	hematite alteration	mod	pyrite	1 sphalerite	0.01	carbonate vein	0.1		
GXP19004	44.21	48.05	3.84	Vm mafic volcanic	m	green grey	vfg	foliated	Mafic Volcanics: same as previous 28.39 m to 31.1 m, unit is rubby or broken from 44.22 m to 45.17 m. Unit displays a greener hue and the appearance of medium grained disseminated euhedral pyrite distinguish this unit from previous Vm. EDH Overburden	foliated	carbonate alteration	str	sericite alteration	mod	chlorite alteration	wk	pyrite	2	quartz vein	1 carbonate vein	0.1		
GXP19005	0	3.46	3.46	Dou overburden general																			
GXP19005	3.46	10.41	6.95	Sar arenite	m	cream grey	mg	interbedded	Cream grey quartz arenite interbedded grey siltstone. A secondary matrix supported conglomerate unit occurs from 7.58-8.72m. Fine to medium grained, massive to laminated beds of quartz arenite and siltstone. Unit is hard and competent with several fractures and sporadic vugs. Very weak iron staining of arenite laminae. Dismineralized unit cut by minor randomly oriented carbonate veinlets. Gradational lower contact to dominantly conglomerate units.	massive	hematite alteration	v wk								carbonate vein	0.01		
GXP19005	10.41	27.64	17.23	Sq conglomerate	d	grey	fg	matrix supported	Matrix supported conglomerate which transitions to clast supported intervals at the top and bottom contacts. Pebbles to cobble sized, subangular to subrounded granitic and rhyolitic clasts within a dark grey, very fine grained siltstone matrix. Unit is hard and moderately competent with several fractures and minor rubble sections i.e. at 23m and at the lower contact. Trace iron staining observed on fracture surfaces and rubble sections. Dismineralized unit cut by minor randomly oriented carbonate veinlets. Lower contact is sharp at unconsolidated oxidized rubble and approximately perpendicular to core axis.	massive	hematite alteration	v wk									carbonate vein	0.01	
GXP19005	27.64	27.69	0.06	Fault	m	grey	mg	fragmental or as fragments	Unconsolidated oxidized rubble, unconformity between Huronian sediments and mafic volcanics.	faulted/fault	hematite alteration	wk mod											
GXP19005	27.69	36.27	8.58	Vm mafic volcanic	d	grey green	mg	massive	Mafic Volcanic. Grey green, medium grained, massive to weakly foliated. Unit is hard and moderately competent with some small rubby oxidized streaks and minor carbonate veining. Weak to moderate pervasive chlorite alteration and local strong biotite alteration at bottom contact. Very trace disseminated Pyrite mostly confined to carbonate veins. Unit is moderately cut by carbonate and quartz-carbonate veins, which often have a chlorite component. Sharp lower contact at an angle approximately perpendicular to core axis.	fracture/in fractures	chlorite alteration	wk mod					pyrite	0.1	carbonate vein	3 quartz-carbonate veins	1		
GXP19005	36.27	36.35	0.08	Fault	d	black	fg	fragmental or as fragments	Fault lens from 36.27m to 36.35m. Abundant biotite in fault gouge, surrounded by strong biotite altered, black mafic volcanic. Fine to medium grained. Moderate disseminated Pyrite throughout. Sharp lower contact, perpendicular to core axis.	faulted/fault	biotite alteration	str											
GXP19005	36.35	40.32	3.97	Vm mafic volcanic	d	grey green	mg	massive	Same as unit from 27.69-36.27m, with an absence of biotite alteration and an increase in chlorite stringers.	fracture/in fractures	chlorite alteration	wk mod						pyrite	0.1	carbonate vein	3 stringer	1	
GXP19005	40.32	51	10.68	Vm mafic volcanic	d	grey green	fg	weakly foliated	Same as unit at 36.35-40.32m with an abrupt increase in medium grained sub-hedral Pyrite and pink carbonate veining, up to several cm wide. Foliation is better developed with minor micro folding. L.e at 45.1m. Small Graphitic lens at 40.32m to 40.50m and trace iron staining on fracture surfaces. Gradational loss of Pyrite from 3% to 1% beyond 46.3m. Carbonate veining is boudinaged at 47.29m. End of hole.	fracture/in fractures	chlorite alteration	wk mod	hematite alteration	v wk			pyrite	3	carbonate vein	3			
GXP19006	0	3.36	3.36	Dou overburden general																			
GXP19006	3.36	5.08	1.72	Sil siltstone	d	grey black	fg	laminated	Pebbly Siltstone: dark grey, fine grained with medium grained sandy beds, laminated/bedded. Unit is hard and competent with few natural fractures, weak pervasive chlorite alteration, weak hematite staining which is intense in some red beds/laminae. Very trace disseminated blebby to subhedral pyrite. Minor healed sub-mm-scale chlorite fracture fill/veinlets. Lower contact is gradational with appearance of pebbles and coarsening of siltstone into fine grained sand.	foliated	hematite alteration	mod	chlorite alteration	wk mod			pyrite	0.01					
GXP19006	5.08	6.88	1.8	Sar arenite	m	fawn grey	mg	sorting moderate	Arenite/Sandstone: fawn white grey, fine to medium grained, poorly sorted sand. Upper contact is gradational from sandy siltstone to arenite/sandstone. Unit is hard and competent with one significant low angle Co-bearing fracture at 6.31 m. Very minor hematite staining of fracture planes and one Co-bearing fracture found in a dull black mineral. Lower contact is sharp at 7% DTCA.	unfoliated	hematite alteration	v wk											
GXP19006	6.88	8.35	1.47	Sil siltstone	d	green grey	fg	bedded/bedding general	Pebbly Siltstone: medium to dark green grey, very fine grained to medium grained sand towards lower contact with several cm-sized clasts. Unit is hard and competent with few natural fractures. Weak to moderate chlorite alteration. Very trace disseminated pyrite and trace chloritic healed fractures/stringers. Lower contact is a 20 cm arenite/sandstone bed and is sharp at 7% DTCA.	foliated	chlorite alteration	mod	hematite alteration	wk mod			pyrite	0.01					
GXP19006	8.35	11.9	3.55	Sq conglomerate	d	grey black	fg	interbedded	Conglomerate (Gowganda): dark grey black, very fine grained silt to sandy siltstone matrix in a poorly sorted polygenic conglomerate. Felsic to intermediate granitic clasts range from coarse sand to cobble sized and are subangular to subrounded. Unit is predominantly matrix supported with a couple sub-m-scale siltstone bands. Unit is hard and competent with moderate pervasive chlorite alteration and minor hematite alteration, localized pitted zones. Trace chlorite fracture fill/veinlets. Lower contact is a fracture sub-parallel to core axis.	unfoliated	chlorite alteration	mod											
GXP19006	11.9	12.1	0.2	Gfu felsic rock (undifferentiated)	m	brown cream	vfg	foliated	Felsic Dike: possible alteration zone, medium creamy brown, very fine grained to aphanitic and foliated. Unit is hard and competent but fractured at both contacts. Minor chlorite alteration, possible sericitization. Lower contact is sharp at 7% DTCA.	foliated	chlorite alteration	mod											
GXP19006	12.1	14.04	1.94	Sq conglomerate	d	grey black	fg	matrix supported	Conglomerate (Gowganda): same as previous 8.35 m to 11.9 m, lower contact into siltstone is gradational and defined loss of clasts around 14 m.	unfoliated	chlorite alteration	mod						pyrite	0.01				
GXP19006	14.04	17.87	3.83	Sil siltstone	d	grey black	vfg	laminated	Siltstone: same as previous 6.88 m to 8.35 m, finer grained with no clasts, and laminated/bedded. Minor trace Co found in dull black mineral along a fracture plane at 15.1 m. Lower contact is sharp at DTCA.	foliated	chlorite alteration	mod	hematite alteration	wk			pyrite	0.01					
GXP19006	17.87	19.14	1.27	Sq conglomerate	d	grey black	fg	sorting poor	Conglomerate (Gowganda): same as previous 8.35 m to 11.9 m, fine to medium grained sand sized matrix, unit is fractured and broken at upper and lower contact, moderate pervasive sericitization. Lower contact is fault gouge and sharp at 15 DTCA.	unfoliated	chlorite alteration	mod	sericite alteration	mod			pyrite	0.01					
GXP19006	19.14	19.42	0.29	Fault	d	brown grey	fg	fragmental or as fragments	Fault: reddish brown grey oxidized conglomeratic rubble, fine to medium grained with cm-scale healed fault gouge at lower contact at 15 DTCA.	faulted/fault	chlorite alteration	mod	hematite alteration	wk mod									
GXP19006	19.42	72	52.58	Vm mafic volcanic	d	green grey	fg	massive	Mafic Volcanics: dark greenish grey to black, very fine grained with coarse grained alteration. Unit is moderately competent but locally broken and rubby. Areas of significant veining, minor faults display veins. Upper contact is faulted and unit is significantly fractured, many chlorite/carbonate veins appear to be healed slip surfaces and fracture the matrix. Moderate to strong pervasive chlorite alteration, chlorite spotting and locally patchy chlorite alteration/leaching with greenish white spotting; local moderate pervasive carbonate alteration. Minor disseminated and blebby vein associated pyrite. Strong to locally intense chlorite and carbonate to quartz-carbonate veining, numerous cm-scale chlorite vein/healed slip surfaces with associated carbonate veining, numerous sub-mm-scale stringers/veinlets at low angle to core axis with almost stockwork texture, several carbonate veins appear foliated layered with chlorite. EDH	massive	chlorite alteration	mod str	carbonate alteration	wk			pyrite	0.01	carbonate vein	5 veinlet	1		
GXP19007	0	4.55	4.55	Dou overburden general																			
GXP19007	4.55	15.18	10.63	Sq conglomerate	d	green grey	fg	matrix supported	Conglomerate (Gowganda): dark green grey, silt to fine grained sandy matrix in a non-foliated polygenic conglomerate. The clasts range from very coarse sand to cobbles, are subangular to rounded and are predominantly felsic to intermediate granitoids with minor mafic volcanic clasts. Unit is hard and competent with few natural fractures. Weak but pervasive chlorite alteration, trace hematite staining along fracture planes, localized background pinkish hue proximal to more alkali feldspar granitoid clasts. Trace disseminated pyrite found in both the matrix and granitic clasts. Very minor sub-mm to mm-scale stringers/veinlets carbonate with several discontinuous and brecciated quartz-carbonate veins. Lower contact is gradational around 15 m into a weakly laminated pebbly siltstone.	unfoliated	chlorite alteration	mod	hematite alteration	v wk			pyrite	0.01	carbonate vein	0.01 quartz vein	0.01		
GXP19007	15.18	17.72	2.54	Sil siltstone	d	green grey	vfg	laminated	Pebbly Siltstone: dark green grey to black, very fine grained with medium grained sand to small pebble sized clasts. Unit is hard and competent with one blocky section around 16 m, very weakly laminated at the mm- to cm-scale with some more pebbly textures. Trace fine grained pyrite. Minor mm- to cm-scale carbonate to quartz-carbonate stringers/veinlets (infill which sometimes brecciate the siltstone, one cm-scale vuggy vein with a pistachio green clay (epidote?). Lower contact is a faulted unconformity with the mafic volcanics.	foliated	chlorite alteration	wk mod					pyrite	0.01	carbonate vein	0.01 quartz-carbonate vein	0.01		
GXP19007	16.15	16.24	0.09	Vcb Carbonate vein	m	white green	vfg	vuggy	Carbonate Vein: vuggy carbonate vein with annabergite.	unfoliated								cohalite	0.1 ni	0.1			
GXP19007	17.72	17.82	0.11	Fault	d	brown grey	vfg	fragmental or as fragments	Fault: small scale fault with brown grey oxidized fragments delineating the contact between the Huronian sediments and the mafic volcanics. Lower half appears to be healed fault gouge or severely pitted mafics. Lower contact is sharp and perpendicular to core axis.	faulted/fault	hematite alteration	wk mod	chlorite alteration	v wk									

GXP19007	17.82	42	24.18	Vm mafic volcanic	m	grey	fg	foliated	Mafic Volcanics: medium to light grey in more carbonaceous sections, fine to medium grey and weakly foliated defined by chlorite, biotite or sericite. Unit is hard and competent save a couple blocky/rubby sections, one at 32.15 m has oxidized fragments. Moderate pervasive chlorite and biotite alteration, weak localized sericite alteration, pervasive localized carbonate alteration and minor hematite alteration along fracture planes. Trace disseminated pyrite which also occurs along fracture planes. Numerous mm- to cm-scale carbonate and quartz-carbonate veins which often bisect the mafics. EDH	foliated/foliation	sericite alteration	str	biotite alteration	wk mod	carbonate alteration	wk mod	pyrite	0.01	quartz-carbonate vein	0.1				
GXP19008	0	3	3	Ouv overburden general				Overburden																
GXP19008	3	14.35	11.35	Scg conglomerate	d	green grey	fg	matrix supported	Conglomerate (Gowganda): dark grey to green grey, fine to medium grained matrix with coarse sand to cobble sized clasts. Clasts are predominantly felsic to intermediate granitoids to subrounded clasts. Unit is massive, hard and competent with few natural fractures. Very weak pervasive chlorite alteration, trace disseminated pyrite found in both the granitic clasts and the matrix. Sporadic sub-mm-scale quartz-carbonate stringers/veinlets. Lower contact is defined by the gradational loss of clasts.	massive	chlorite alteration	wk				pyrite	0.1	quartz-carbonate vein	0.01					
GXP19008	14.35	20.5	6.15	Ssl siltstone	d	green grey	vfg	massive	Pebbly Siltstone: dark green grey, very fine grained with several pebble sized clasts towards upper contact, predominantly massive locally weakly laminated. Unit is hard and competent but becomes broken and blocky towards lower faulted contact. Weak pervasive chlorite alteration, minor hematite staining of fracture planes often with a carbonate association. Very trace disseminated pyrite along fracture planes. Trace quartz-carbonate stringers/veinlets some of which are vuggy approaching the lower contact which is defined by an oxidized rubbly faulted zone.	massive	chlorite alteration	wk	hematite alteration	wk			pyrite	0.01	quartz-carbonate vein	0.01				
GXP19008	20.5	20.58	0.08	Fault	d	brown grey	fg	fragmental or as fragments	Fault: fine grained, brown green grey oxidized unconsolidated fault. Weak chloritization and pervasive hematite staining. Some fragments have vugs and a cm-scale quartz carbonate vein crosscuts the fault becoming vuggy within the fault zone. Lower contact defined by end of unconsolidated/rubbly material.	faulted/fault		mod	hematite alteration	wk			quartz-carbonate vein	0.01						
GXP19008	20.58	40.81	20.23	Vm mafic volcanic	m	green grey	fg	foliated	Mafic Volcanics: dark greenish grey to black, very fine grained with coarse grained alteration, weakly foliated. Unit is moderately competent but locally broken and rubby in areas of significant veining. Upper contact is faulted and unit is significantly fractured, many chlorite/carbonate veins appear to be healed slip surfaces and fracture the mafics. Moderate to strong pervasive chlorite alteration, chlorite spotting and locally patchy chlorite alteration/leaching with greenish white spotting, local moderate pervasive carbonate alteration towards upper contact. Minor disseminated and blebby veins associated pyrite. Strong to locally intense chlorite and carbonate to quartz carbonate veining. Chlorite has a slight bluish tint, numerous cm-scale chlorite veins/bedded slip surfaces with associated carbonate veining, numerous sub-mm-scale stringers/veinlets at low angle to core axis with almost stockwork texture. Lower contact is sharp defined by rubbly fault gouge.	foliated	chlorite alteration	v str	carbonate alteration	mod			pyrite	0.01	carbonate vein	2 veinlet	1			
GXP19008	40.81	40.88	0.08	Fault	m	brown grey	fg		Fault: small rubbly healed fault gouge/slip, medium brown grey and oxidized, fine grained sand to clay. One mm-scale carbonate vein, pervasive chlorite alteration 10 cm on either side of fault.	faulted/fault		mod					carbonate vein	0.01						
GXP19008	40.88	48.32	7.44	Vm mafic volcanic	m	green grey	fg	foliated	Mafic Volcanics: same as previous 20.58 to 40.81 m, finer grained mafic to coarse grained chlorite alteration/leaching and significantly less carbonate and quartz-carbonate veining and associated fracturing. Lower contact is sharp and delineated by a fracture at 56 DTCA.	foliated	chlorite alteration	mod	carbonate alteration	tr			pyrite	0.01	quartz-carbonate vein	0.01				
GXP19008	48.32	51	2.68	Vm mafic volcanic	l	green grey	vfg	massive	Mafic Volcanics: light to medium green grey, aphanitic to very fine grained and massive. Unit is hard and competent with one broken/rubby zone at 48.10 m. Moderate pervasive chlorite and sericite alteration. Trace fine grained disseminated pyrite and blebby to subbedral pyrite associated with chlorite slip/fractures. Several chlorite stringers/fractures fills often with significant pyrite association. EDH	massive	sericite alteration	mod	chlorite alteration	mod			pyrite	0.1	veinlet	0.01				
GXP19009	0	1.63	1.63	Ouv overburden general				Overburden																
GXP19009	1.63	8.3	6.67	Scg conglomerate	d	grey black	fg	matrix supported	Conglomerate (Gowganda): dark grey black, very fine to fine grained sandy matrix in a polyimetic, matrix supported conglomerate. Clasts range from very coarse sand to cobbles (up to 15 cm in diameter), are rounded to subangular and are predominantly felsic to intermediate granitoids with minor mafic volcanic components. Unit is massive, hard and competent with few natural fractures. Minor pervasive chlorite alteration, trace localized hematite staining along fracture planes or within clasts. Trace disseminated pyrite within clasts and trace blebby chalcopyrite. Elevated Co (up to 290 ppm) found in dull black mineral along fracture planes. Trace sub-mm-scale quartz-carbonate stringers/veinlets and minor vuggy fracture fills. Lower contact is sharp at 50 DTCA.	massive	chlorite alteration	wk	hematite alteration	v wk			chalcopyrite	0.01	quartz-carbonate vein	0.01				
GXP19009	8.3	8.92	0.62	Ssl siltstone	m	grey black	fg	foliated	Sandy Siltstone: medium grey, fine to medium grained intensely foliated. Unit almost appears to be sheared, as relic pebbles are stretched and define foliation. Unit is hard and competent with few foliation parallel fractures. Minor chlorite and hematite alteration. Trace blebby pyrite, one mm-scale foliation parallel vuggy carbonate vein with minor hematite staining. Lower contact is sharp and delineated by foliation parallel fractures at 20 DTCA.	foliated	chlorite alteration	v wk	hematite alteration	v wk			pyrite	0.01	carbonate vein	0.01				
GXP19009	8.92	13.64	4.72	Ssl siltstone	d	grey black	vfg	bedded/bedding general	Pebbly Siltstone: dark greenish grey black, very fine grained but several medium grained sandy beds with small pebbles (i.e. 11.25 m to 11.45 m). Unit is laminated/bedded, hard and competent with a rubby zone at upper the contact and another broken/rubby zone from 12.85 m to 13.22 m. Minor pervasive chlorite alteration and localized hematite staining of clasts, along fracture planes or certain beds/laminae. Minor elevated Co (up to 2000 ppm) found in dull black mineral along fracture planes, trace very fine grained disseminated pyrite more common in coarser sandy beds or within quartz-carbonate veins. Minor sub-mm to mm-scale quartz-carbonate veins/veinlets, minor vuggy healed fractures. Lower contact is gradational defined by increasing percentage of coarser sandy beds.	foliated	chlorite alteration	wk	hematite alteration	wk			chalcopyrite	0.01	pyrite	0.01	quartz-carbonate vein	0.01		
GXP19009	13.64	18.76	5.12	Scg conglomerate	d	grey brown	mg	bedded/bedding general	Conglomerate (Gowganda): same as previous 1.63 to 8.3 m, top of unit is predominantly medium grained sand with very few larger clasts and large pebble to cobble sized clasts concentrated near lower contact. Clasts are subangular to subrounded, trace disseminated pyrite within sandy matrix and clasts. Minor sub-mm to mm-scale quartz-carbonate stringers/veinlets. Lower contact is rubby and appears to be delineated by orangey pink stained carbonate vein at 25 DTCA.	foliated	chlorite alteration	wk	hematite alteration	wk			pyrite	0.1	carbonate vein	0.01				
GXP19009	18.76	18.86	0.1	Fault	m	red grey	fg	fragmental or as fragments	Fault: rubby reddish brown grey oxidized, fine grained sediments. Lower contact of fault is a 3 cm orangey pink stained carbonate vein with minor disseminated pyrite at 25 DTCA. Possible causation of faulting.	faulted/fault		wk mod	hematite alteration	wk			pyrite	0.01	carbonate vein	90				
GXP19009	18.86	72	53.14	Vm mafic volcanic	m	green grey	vfg	massive	Mafic Volcanics: dark greenish grey to black, very fine grained with coarse grained alteration. Unit is moderately competent but locally broken and rubby in areas of significant veining, minor faults display veins. Upper contact is faulted and unit is significantly fractured, many chlorite/carbonate veins appear to be healed slip surfaces and fracture the mafics. Moderate to strong pervasive chlorite alteration, chlorite spotting and locally patchy chlorite alteration/leaching with greenish white spotting, local moderate pervasive carbonate alteration, zone of intense biotite alteration from 40.17 m to 40.60 m. Minor disseminated and blebby vein associated pyrite. Strong to locally intense chlorite and carbonate to quartz-carbonate veining, numerous cm-scale chlorite veins/bedded slip surfaces with associated carbonate veining, numerous sub-mm-scale stringers/veinlets at low angle to core axis with almost stockwork texture, several carbonate veins appear foliated layered with dark green black chlorite, one cm-scale felsic vein stained and orangey pink at 20.46 m, EDH	unfoliated	chlorite alteration	mod str	biotite alteration	v str	carbonate alteration	wk mod	pyrite	0.01	carbonate vein	3 quartz-carbonate vein	2			
GXP19010	0	3	3	Casing				casing to 3 m no rock in box																
GXP19010	3	3.85	0.85	Ouv overburden general																				
GXP19010	3.85	6.25	2.4	Ssl siltstone	D	grey black	vfg	bedded/bedding general	Interval is composed of silt, black, very fine grained [silt] with thin, mm-scale, laminations of buff-pink, silt to fine and medium sand, and rare granules to pebbles, sub-angular to rounded, felsic and intermediate. Pink sandy laminations become more common down interval towards bottom contact forming cm-scale bands of intercalated laminated bands. Sandy bands are weakly undulatory. Interval is blocky. Weak sericite alteration. Very fine grained disseminated arsenopyrite. Lower contact is sharp, slightly undulatory and approximately 30 dca.	massive	sericite alteration	wk					arsenopyrite	0.01						
GXP19010	6.25	7.59	1.34	Ssn sandstone	M	pink	fmg	massive	Interval is composed of fine- to medium sand, is generally massive with rare, thin undulatory and generally discontinuous seams of grey (very fine sand). An interval between 7.24 and 7.53 m is significantly less sericite altered and pitted (very fine/small) with disseminated seams, 2 to 4 mm, of mat-black mineral at lower and upper 'contact'. This mat-black mineral also occurs in localized small patches at 7.59 m. (mat-black mineral = sphalerite or cobalt?) Moderates sericite alteration. Lower contact is sharp at 35 dca	massive	sericite alteration	mod					cobaltite	0.1	sphalerite	0.1				
GXP19010	7.59	15	7.41	Ssl siltstone	D	grey black	vfg	massive	Interval is composed predominantly of silt with minor very fine- to medium-sand, mm-scale laminations; with rare granules to pebbles. Siltstone is medium to dark grey-black and sandy (silty-sand intervals/laminations) are buff-pink. Rare granules to pebbles are sub-rounded and felsic-granitic to intermediate. Thin sandy laminations between approximately 11 and 13 m are sub-parallel to core axis and are generally less than 20 degrees to core axis; while a band of laminated silt and sand between 13.95 and 14.25 m is at high angle to core axis (60 to 80 degrees). Interval is generally competent with few broken intervals. Weak sericite alteration, seemingly associated with more sandy intervals. Rare, thin carbonate veins (1 to 3 mm) occur at 13.60 m and are associated with a dull-black mat-mineral, this dull-black, mat-mineral 'the mold' is common on fracture surfaces. Trace disseminated chalcopyrite (locally 'shot-gun' chalcopyrite) and pyrite (disseminated stringers) in more sandy intervals. Very very fine grained disseminated arsenopyrite. Rare, thin, locally discontinuous, fracture fill carbonate stringers. Lower contact is arbitrary and defined by the increasing deformation of the sandy-laminations.	massive	sericite alteration	wk mod					chalcopyrite	0.1	pyrite	0.15	cobaltite	0.01	carbonate vein	0.05



GMP19010	15	16.89	1.89	Sil siltstone	M	grey	vfg	bedded/bedding general	Interval consists of laminated dark grey-black silt and buff very fine- to fine-sand. Sandy laminations are weakly wavy to linked, and irregularly oriented (soft sediment deformation/folding). Trace disseminated fine-grained pyrite. Weak to moderate sericite alteration of sandy laminations. Rare very thin, fracture fill carbonate stringers. Lower contact is slightly arbitrary and defined by the end of deformed sandy laminations.	massive	sericite alteration	wk mod		pyrite	0.1		stringer	0.01						
GMP19010	16.89	21.22	4.33	Sil siltstone	D	grey black	vfg	bedded/bedding general	Interval is composed predominantly of dark grey black silt with minor laminations of mm-scale, grey to buff, very fine- to fine-sand, and rare granules to pebbles. Sandy laminations are locally discontinuous, and wavy. Rare granules to pebbles are sub-angular to rounded, felsic-granitic to intermediate. Very thin, sub-mm, pyrite stringers/veins. Very very fine-grained disseminated arsenopyrite. Lower contact is arbitrary and defined by first appearance of mineralization.	massive				pyrite	0.1	arsenopyrite	0.01	stringer	0.05					
GMP19010	21.22	21.33	0.11	Mineralized vein	D	grey black	vfg	vuggy	Kilpatrick, hosted in siltstone. Massive, sub-cm, cobalt mineralization (cobaltite) with disseminated cobalt mineralization into the wall-rock (visible disseminated mineralization less than 1 cm). Cobaltite vein is vuggy. Multiple fractures prior to mineralization associated with thin, sub-mm cobaltite stringers (also locally vuggy), one fracture infilled with cream-beige 'clay'. Arsenopyrite and erythrite oxidation precipitate in fracture surfaces and locally in vugs. The mineralized vein seems to branch and locally have thin off-shoots stringers of mineralization. Fractures and massive mineralization tend to run between 50 and 60 degrees to core axis. Lower contact defined by end of mineralized vein.	massive				cobaltite	10	erythrite	0.01	an	0.01	mineralized vein	10			
GMP19010	21.33	29.98	8.65	Sil siltstone	D	grey black	vfg	bedded/bedding general	Interval is composed predominantly of silt (grey black, very fine grained) with rare, thin, laminations to bands of gnl, very fine to medium sand, and rare dropstones. Bands of trace sandy laminations/bands occur between approximate 22.4 - 23 m and 28.50 - 29.40 m. Drop stones range from coarse-sand to boulders (typically granules to pebbles), sub-angular to rounded, and are felsic-granitic to intermediate. One large boulder occur between 26.85 and 27.08 m. Small scale faulting/off-sets in laminations occur between 23.4 and 23.20 m. Interval is generally competent with locally blocky to rubbly. Two elongated vugs occur between 22.56 and 22.59 m, may be associated with Kilpatrick (thin fracture fill carbonate) very fine breccia and carbonate fracture fill (can be followed around drill core); the 'black mud' occurs on near by fracture surfaces. Healed breccia, angular siltstone clasts cemented with quartz and coarse blebs of chalcocopyrite occur between 26.24 and 26.30 m. Trace disseminated fine-grained pyrite and lesser chalcopyrite, very very fine-grained disseminated arsenopyrite. Thin, carbonate, fracture-fill carbonate veins and tension fracture carbonate infill (particularly between 28.5 and 29.5 m).	massive				chalcocopyrite	0.3	pyrite	0.1	cobaltite	0.01	carbonate vein	0.2	quartz vein	0.1	
GMP19010	29.98	33.32	3.34	Scg conglomerate	M	grey	cg	bedded/bedding general	Interval consists of a large felsic (to intermediate?) boulder occurs between 29.98 and 30.70 m, siltstone occurs between approximately 30.70 and 31.50 m, and clast supported conglomerate occurs between approximately 31.50 and 32.20 m. Slightly sandy laminations/bands occur within the siltstone as well as rare granules to pebbles (felsic to intermediate, angular to sub-rounded); trace, fine-grained disseminated pyrite and lesser chalcopyrite, and thin, very fine-grained, stringers of disseminated pyrite. Very thin fracture fill carbonate stringers (v. pyrite/chalcopyrite). Locally tension-fill carbonate. Clast-supported conglomerate, consists of, coarse-sand to boulders (predominantly granules to pebbles), sub-angular to rounded, felsic-granitic to intermediate clasts, with a matrix of sandy silt. Weak to moderate sericite alteration and chlorite alteration; as well as trace disseminated pyrite, generally associated with clasts. Potential breccia vein, 32.4 and 32.55 m, irregular shaped, 1 to 3 cm, angular clasts with carbonate infill; rare, very thin, fracture fill carbonate veins and rare tension fill carbonate pods. Lower contact difficult to determine due to being in faulted/rubbly zone.	massive	sericite alteration	wk mod	chlorite alteration	wk	pyrite	0.3			carbonate vein	0.75				
GMP19010	33.32	33.85	0.54	Fault Breccia	D	green grey	vfg	clastic or as clasts	Unconformity between Nuroonian sediments and Archean mafic meta-volcanics. Consists of clasts - low RQD. Clasts are predominantly mafic meta-volcanics.															
GMP19010	33.85	51	17.15	Vvm mafic volcanic	M	green	vfg	massive	Mafic meta-volcanics. Interval consists of predominantly forest green, very fine-grained (lignitic) massive mafic meta-volcanics, cross-cut by numerous carbonate veinlets which locally have small-scale offsets. Moderate and pervasive chlorite alteration. Trace very fine- to fine-grained disseminate pyrite. Interval is cross-cut by numerous mm-scale carbonate veinlets/veins, generally thick veins (0.5 to 1 cm) are associated with trace fine-grained disseminated pyrite and lesser chalcopyrite. Two intervals between 43.50 and 45.0 m and 46.40 m and 46.48 m are medium to dark forest-green, medium to coarse grained massive, and seem to consist of increase alteration (potential alkali?). The interval between 46.50 and 46.10 consists of bands of subhedral to euhedral biotite and pyroxene grains. Moderate and pervasive chlorite alteration and weak to moderate localized epidote alteration, weak to moderate and localized carbonate alteration. Localized white, carbonate pods, particularly in sections with the euhedral amphiboles/pyroxenes and/or biotite. The interval between 46.40 and 46.48 m is duller and consists of moderate to strong and pervasive chlorite alteration and weak to moderate and pervasive carbonate alteration, both of which have resulted in a spotted appearance. The lower contact consists of a 2 cm, moderately to strongly foliated band of alternating black chlorite and carbonate. Neither interval is significantly mineralized (trace disseminated pyrite) and are cross-cut by numerous thin-carbonate veinlets. Contacts for these intervals are generally low-angle to core axis (approximately 20 to 35 degrees). 5.0 to 54 m.	massive	chlorite alteration	mod	carbonate alteration	wk mod	epidote alteration	tr	pyrite	0.15	chalcopyrite	0.01	carbonate vein	3		
GMP19011	0	4.89	4.89	Oou overburden general				Overburden																
GMP19011	4.89	75	70.11	Vvm mafic volcanic	m	green grey	fg	foliated	Mafic volcanic: medium to light medium green grey (where unit is significantly sericitized and/or carbonated, fine to medium grained, moderate to intense). Unit is hard and competent with few natural fractures. Weak pervasive chlorite alteration, localized weak biotite alteration, moderate pervasive sericitization and locally intense, localized pervasive carbonate alteration, intense localized hematite staining of fracture planes. Trace disseminated, fracture fill or vein associated pyrite, anomalous disseminated chalcopyrite. Numerous mm-scale carbonate veins with minor chlorite, sub-mm-scale carbonate stringers/veinlets, several quartz veins with chlorite and pyrite along margins, one 4 cm quartz-carbonate vein at 46.17 m with red stained margins, one on-scale carbonate vein which brecciates mafic at 17.9 m. EDH	foliated	sericite alteration	mod str	chlorite alteration	wk mod	biotite alteration	wk	pyrite	0.01		carbonate vein	1	quartz vein	0.1	
GMP19012	0	4.8	4.8	Oou overburden general				Oou overburden general																
GMP19012	4.8	28.08	23.28	Sil siltstone	M	grey	vfg	laminated	Siltstone with minor pebbles (<5%), medium-dark grey, dominantly silt-sized material with sub-m sandy beds, unit is well bedded with minor massive sections, minor sub-m noddy actions occur @ 6.8-8m and between 10.32m, weak hematite occurs along fracture faces and weak, pervasive chlorite with trace carbonate, erythrite occurs along fracture faces 76-25m with minor greenish-white mineral, likely arsenopyrite and trace disseminated pyrite occurs throughout; 18% @25m - 4.3% Cu, 12.3% Ni, 26.6% As, dark grey black Co precipitate (moly appearance) occurs sporadically along fractures observed ranging from 336-295 ppm Co, faces trace quartz-carbonate veining, lower contact is gradational with underlying arenite -55 DTCA.	massive	chlorite alteration	wk	hematite alteration	wk	carbonate alteration	tr	erythrite	0.01	nc	0.01	pyrite	0.1	carbonate vein	0.1
GMP19012	28.08	32.16	4.08	Sar arenite	M	fawn	fg	bedded/bedding general	Arenite to quartzite, creamy beige to medium brown, fine-medium sand with minor sub-m silt interbeds, mostly massive with weak bedding, very hard unit with few fractures, weak sericite alteration and trace carbonate alteration, trace fracture filling dark grey-black Co precipitate (moly appearance) occurs along fractures observed @28.65m-36 ppm Co; trace disseminated pyrite, trace mm-scale quartz-carbonate veinlets, lower contact is gradational with underlying siltstone -50 DTCA.	massive	sericite alteration	wk	carbonate alteration	wk			cobaltite	0.01	pyrite	0.1	carbonate vein	0.1		
GMP19012	32.16	43.12	10.96	Sil siltstone	M	grey	vfg	laminated	Same as described from 4.80-28.08m. Trace fracture-filling dark grey-black Co precipitate (moly appearance) occurs along fractures observed @36.88m-740 ppm Co Lower contact is sharp marked by the appearance of rubbly core.	massive	chlorite alteration	wk	hematite alteration	wk	carbonate alteration	tr	cobaltite	0.01	pyrite	0.1	carbonate vein	0.1		
GMP19012	43.12	43.3	0.18	Fault Breccia	M	grey	fg	fragmental or as fragments	Potential fault breccia, rubbly core with minor mud along slip plane (~12 DTCA), weak slickenside development, trace pyrite along fracture faces, lower contact is sharp marked by the transition back into competent core.		chlorite alteration	wk	hematite alteration	wk	carbonate alteration	tr	pyrite	0.1		carbonate vein	0.1			
GMP19012	43.3	54.3	11	Sil siltstone	M	grey	vfg	laminated	Same as described from 4.80-28.08m. Unit contains large granitic boulder ~40-49.5m with disseminated chalcopyrite. Lower contact is gradational with underlying arenite -55 DTCA.	massive	chlorite alteration	wk	hematite alteration	wk	carbonate alteration	tr	chalcopyrite	0.05	pyrite	0.1	carbonate vein	0.1		
GMP19012	54.3	58.16	3.86	Sar arenite	M	fawn	fg	bedded/bedding general	Similar as described from 28.08-32.06m. Unit displays mm-scale carbonate blebs throughout 1.2%; likely weak-moderate carbonate alteration product. Lower contact is gradational with underlying siltstone -55 DTCA.	massive	sericite alteration	wk	carbonate alteration	wk			pyrite	0.1		carbonate vein	0.1			
GMP19012	58.16	64.96	6.83	Sil siltstone	M	grey	vfg	laminated	Same as described from 4.80-28.08m. Lower contact is gradational with underlying arenite -55 DTCA.	massive	chlorite alteration	wk	hematite alteration	wk	carbonate alteration	tr	pyrite	0.1		carbonate vein	0.1			
GMP19012	64.96	73.4	8.42	Sar arenite	M	fawn	fg	bedded/bedding general	Same as described from 28.08-32.06m. Unit becomes more silty toward lower contact with underlying conglomerate -40 DTCA.	massive	sericite alteration	wk	carbonate alteration	wk			pyrite	0.1		carbonate vein	0.1			
GMP19012	73.4	74.34	0.94	Scg conglomerate	D	grey	cg	matrix supported	Matrix supported conglomerate, dark grey, muddy-silty matrix with dominantly pebble-sized clastic clasts, massive, competent unit, weak pervasive chlorite and very weak, patchy carbonate alteration, trace disseminated pyrite, unit grades into coarse sandstone toward lower contact, lower contact (unconformity) is sharp -75 DTCA with underlying mafic volcanic.	massive	sericite alteration	wk	carbonate alteration	wk			pyrite	0.1		carbonate vein	0.1			
GMP19012	74.34	75	0.66	Vvm mafic volcanic	D	green grey	fg	massive	Mafic volcanic, dark green-grey, fine grained, biotite-sericite alteration gives unit a medium grained appearance, moderate-stone pervasive biotite and sericite alteration, trace vein-hosted and disseminated pyrite, trace mm-scale quartz-carbonate veinlets with chlorite selvages.	massive	biotite alteration	mod str	sericite alteration	mod			pyrite	0.1		carbonate vein	0.1			
GMP19013	0	3	3	Casite				Casite																
GMP19013	3	5.16	2.16	Sil siltstone	m	fawn grey	fg	bedded/bedding general	Siltstone: medium fawn grey to brown, very fine grained to fine grained sandy beds, unit is bedded or laminated at the mm- to cm-scale. Unit is hard and competent. Unit is bedded or laminated at the mm- to cm-scale. Unit is hard and competent. Unit is bedded or laminated at the mm- to cm-scale. Unit is broken towards lower contact. Minor pervasive sericite alteration and possible silicification. Elevated Co (up to 530 ppm) found in dull black mineral along fracture planes, highest results found in fracture sub-parallel to core axis, dendritic dull mineral associated with fractures/healed fractures (possible manganese oxide?). No significant veining, minor halot fractures. Lower contact is sharp at 60 DTCA.	foliated	sericite alteration	wk mod	silica alteration	mod			cobaltite	0.01						

GXP19013	5.16	10.88	5.72	Sar arenite	l	fawn cream	mg	bedded/bedding general	Arenite: Light to medium fawn cream, medium grained sand to very fine grained towards lower contact, bedded/laminated with some sub-m scale beds. Unit is hard and competent with few natural fractures. Minor pervasive sericite alteration and pervasive silicification of unit with some localized giffed sections. Very fine grained disseminated pyrite beginning around 10 m where unit becomes much finer grained, minor elevated Cu (up to 200 ppm) found in dull black mineral, highest values found on fracture sub-parallel to core axis, dull grey black dendritic mineral associated with fractures (possible manganese oxide?). Minor sub-m scale healed fracture fills. Lower contact is gradational and defined by fining of grain size and darkening of color.	foliated	sericite alteration	wk mod	silica alteration	wk mod		cobaltite	0.01	pyrite	0.1								
GXP19013	10.88	20.48	9.6	Sil siltstone	m	grey	vfg	laminated	Siltstone: medium to dark grey, very fine grained to fine grained with a couple sub-m scale coarser sandy cream coloured beds (i.e. 18.25 m). Unit is laminated to bedded, hard and competent with few natural fractures or broken sections. Very weak pervasive chlorite alteration, significant silicification and localized hematite staining along fracture planes or certain beds/laminae. Very fine grained disseminated chalcopyrite +/- pyrite and quartz vein/fracture fill associated chalcopyrite. One foliation parallel 10 m chalcopyrite-bearing quartz vein at 13.1 m, localized mm-scale discontinuous carbonate veins around 13 m. Lower contact is gradational and defined by coarsening grain size and return to m-scale cream coloured arenitic unit.	foliated	sericite alteration	wk mod	chlorite alteration	v wk	hematite alteration	v wk		cobaltite	0.01	chalcopyrite	0.1	pyrite	0.01	quartz vein	0.01	carbonate vein	0.01
GXP19013	20.48	36.9	16.42	Sar arenite	l	fawn cream	mg	bedded/bedding general	Arenite: same as previous 5.16 m to 10.88 m, minor sub-m scale siltstone beds. Minor localized hematite staining of fracture planes, two meter zone of pervasive carbonate and sericite alteration associated with high concentration of quartz-carbonate veining around 32 m. Trace disseminated sulphides pyrite +/- chalcopyrite, minor mm-scale quartz-carbonate stringers/veinlets. Lower contact is sharp at 40 DTCA.	foliated	sericite alteration	wk mod	chlorite alteration	v wk		cobaltite	0.01					quartz-carbonate vein	0.01				
GXP19013	36.9	38.96	2.06	Sil siltstone	d	grey black	fg	laminated	Pebbly Siltstone: dark grey black, very fine grained with coarse grained sand to pebble size clasts, unit is laminated at the mm-scale. Unit is hard and competent with few natural fractures and some broken/irregularly lower contact. Minor pervasive chlorite alteration, localized hematite staining of clasts, minor carbonate alteration resulting from stratiform carbonate veins. Trace blebbly pyrite, several cm-scale altered carbonate veins. Lower contact is rubbery and delineated by unconsolidated material. No distinct orientation.	foliated	chlorite alteration	wk mod	hematite alteration	v wk			pyrite	0.01				carbonate vein	1				
GXP19013	38.96	39	0.04	Fault	d	grey black	fg	fragmental or as fragments	Fault: dark brown grey black unconsolidated fault material. One mm-scale carbonate vein is observed on several fragments. Lower contact is defined by return to competent material.	faulted/fault	chlorite alteration	mod	hematite alteration	wk mod						carbonate vein	0.01						
GXP19013	39	42	3	Vm mafic volcanic	m	green grey	fg	massive	Mafic Volcanics: medium green grey, very fine to fine grained massive unit which is hard and competent with few natural fractures. Moderate pervasive sericite alteration save one sub-m zone which appears to have more of a higher spottiness/blebbing alteration (excludes chlorite), minor pervasive chlorite alteration, minor localized hematite staining along fractures or within carbonate veins, minor carbonate alteration a proximal to a fractured carbonate vein. Vein and fracture fill hosted pyrite and chalcopyrite, several mm- to cm-scale quartz carbonate veins with associated pyrite and chalcopyrite some of which exhibit hematite staining.	unfoliated	sericite alteration	mod	chlorite alteration	wk mod	hematite alteration	wk		pyrite	0.1	chalcopyrite	0.01		carbonate vein	1	quartz-carbonate vein	1	
GXP19-014	0	3.71	3.71	Dou overburden				general																			
GXP19-014	3.71	13.9	10.19	Sil siltstone	D	grey black	vfg	bedded/bedding general	Siltstone with sandy laminations to thin beds. Medium to dark grey black very fine grained to fine grained siltstone with thin, generally, mm-scale, rarely cm-scale, pink fine sand which between 9.46 and 10.5 m is silt to very fine sand with coarse-sand to granules of angular intermediate/mafic clasts. Pink sandy laminations to bands are generally weakly undulatory (soft sediment deformation?) and locally/rarely discontinuous. Erythrite precipitates locally occur on fracture surfaces (i.e., 4 m 30.5 to 30.70 m). Very fine-grained disseminated pyrite (and chalcopyrite(?)), typically associated with sandy-er intervals and blebbly pyrite and chalcopyrite in more silty bands. Weak to moderate, sericite alteration, generally associated with more sandy laminations. Rare, thin (hair-line), carbonate veining. Lower contact is gradational and arbitrary.	massive	sericite alteration	wk					erythrite	0.001	chalcopyrite	0.3	pyrite	0.3	stringer	0.01			
GXP19014	13.9	15.87	1.97	Sin sandstone	D	fawn grey	fmg	massive	Sandstone: Medium to dark fawn-grey, fine to medium sand, massive, siliceous/quartz-rich(?). Moderate and pervasive sericite(?) alteration, resulting in a speckled appearance of the sand. Erythrite on fracture surfaces between 14.65 and 14.70 m. Locally blebbly, shot-gun chalcopyrite (particularly visible between approximately 14 and 14.25 m) and oxidized (peacock) on fracture surfaces. Relatively common, thin, mm-scale (1 to 2 mm), carbonate veinlets. Lower contact is gradational and arbitrary.	massive	sericite alteration	mod					erythrite	0.001	chalcopyrite	0.1		carbonate vein	0.1				
GXP19014	15.87	27.7	11.83	Sil siltstone	D	grey black	vfg	bedded/bedding general	Siltstone with rare sandy laminations and rare pebbles. Dark grey-black very fine grained to fine grained siltstone with rare thin, generally mm-scale, pink fine sandy laminations. Pink sandy laminations are generally weakly undulatory (soft sediment deformation?) and locally/rarely discontinuous. Rare, sub-rounded to rounded pebbles to cobbles, granitic to intermediate. Between 17.45 and 17.70 m, multiple small-scale displacement/faulting occurs, noted in effects of silty and sandy laminations. Locally weak, sericite alteration of silty intervals. Trace, blebbly, chalcopyrite/pyrite occurs in silty intervals. Arsenopyrite is common on fracture surfaces, (especially between approximately 20 and 27 m), localized and minor galena on fracture surfaces (i.e., 20.70 m), locally very fine grained, black-mat mineral occurs on fracture surfaces. Thin, hairline - fracture-fill carbonate stringers/veinlets. Lower contact sharp and defined by the first appearance of sandstone beds.	massive	sericite alteration	wk					chalcopyrite	0.2	arsenopyrite	0.1	gf	0.01	carbonate vein	0.05			
GXP19014	27.7	32.75	5.05	Sil siltstone	M	grey black	vfg	bedded/bedding general	Interbedded siltstone and fine- to medium sand. Silty intervals are medium to dark grey black, very fine grained and massive and locally pebbly; sandstone intervals are buff, composed of fine to medium sand and massive. Thin, sandy laminations do occur in siltstone intervals, these laminations are weakly to moderately undulatory. Major sandy intervals occur between approximately: 27.70 - 28.04 m, 28.29 - 28.40 m, 28.56 - 28.61 m, 28.70 - 29.53 m, 30.36 - 30.37 m, and 31.37 - 31.80 m. Granular to pebbles, sub-rounded to rounded, granitic to intermediate, occur in silty intervals between 29.53 and 32.75 m. Contacts between sandy and silty intervals are generally sharp and generally low angle to core axis (30 to 40 degrees). Locally sandy beds are weakly to moderately sericite altered. Trace disseminated pyrite. Rare, thin, fracture fill carbonate veins. Lower contact is relatively sharp but occurs in a blocky broken section.	massive	sericite alteration	wk					pyrite	0.01				stringer	0.01				
GXP19014	32.75	37.08	4.33	Sin sandstone	M	grey black	fg	massive	Sandstone. Light- to medium grey, fine to medium sand, modeled texture; irregular-shaped, undulatory, discontinuous light-grey and medium grey sand (soft sediment deformation(?)). Weak to moderate and pervasive sericite alteration. Trace disseminated pyrite and arsenopyrite (hosted on fracture surfaces). Very rare, fracture fill carbonate veining. Lower contact is slightly arbitrary and defined by the disappearance of the modeled texture.	massive	sericite alteration	wk mod					arsenopyrite	0.01	pyrite	0.01		stringer	0.01				
GXP19014	37.08	38.93	1.85	Sil siltstone	D	grey black	vfg	bedded/bedding general	Siltstone with minor interbedded laminations of sandstone. Dark grey-black, very fine-grained siltstone with buff fine to medium-grained sandy laminations. One sandy bed occurs between 38.05 and 38.11 m. Rare angular granules. Sandy laminations are locally weakly undulatory to planar and generally about 40 DTCA. Trace blebbly pyrite. Rare fracture-fill carbonate veins. Lower contact is sharp at 47 DTCA.	massive	sericite alteration	wk					pyrite	0.1				stringer	0.01				
GXP19014	38.93	39.68	0.75	Sin sandstone	M	grey	fmg	interbedded	Interbedded sandy and silty bands. Sand dominated silty band occurs between 38.93 - 39.25 m and 39.41 - 39.88 m. Silty dominated band between 39.93 and 40.41 m. Sandy bands are fawn with grey black, composed of silt and fine to medium sand and poorly to moderately laminated. Silty beds are dark grey black composed of silt and very minor sand and appear massive. Very thin pyrite laminations occur at the upper and lower 'contact' of the silty interval between the sandy intervals. Weak to moderate sericite alteration of sandy intervals. Lower contact sharp, undulatory and at 30 to 50 degrees to core axis.	massive	sericite alteration	wk					pyrite	0.1									
GXP19014	39.68	46.38	6.7	Sin sandstone	M	grey	fmg	massive	Sandstone. Grey to slightly fawn-grey, very fine- to medium-sand, massive to locally very-weakly laminated (near upper and lower contact). Weak to moderate sericite alteration, locally giving the interval a speckled appearance. Locally disseminated or disseminated aggregated of a mm-black mineral disseminated very fine- to fine-grained pyrite. Very rare fracture fill carbonate veining. Lower contact is sharp at 30 to 40 DTCA.	massive	sericite alteration	wk					pyrite	0.2				stringer	0.01				
GXP19014	46.38	49.7	3.32	Sil siltstone	D	grey black	fg	massive	Siltstone with thin slightly more sandy laminations/bands. Dark grey-black silt with medium grey black fine- to medium-sand, weakly laminated defined by a slight increase in sand-size. Slightly more sandy laminations are undulatory and occur at low to moderate angles to core axis (approximately 30 to 40 DTCA). Arsenopyrite occurs locally along fracture surfaces, and locally a very fine grained black mineral occurs on fracture surfaces, trace disseminated fine-grained pyrite, rare fine-grained disseminated stringers of pyrite. Rare fracture fill veining. Lower contact is gradational and slightly arbitrary.	massive	sericite alteration	tr					arsenopyrite	0.1	pyrite	0.1		stringer	0.01				
GXP19014	49.7	55.56	5.86	Sar arenite	L	grey	fmg	massive	Arenite/Sandstone. Light- to medium-grey, fine to medium sand, massive. Weak and localized sericite alteration. Quartz dominated minor black lithic fragments. Light-pale pink erythrite on natural fracture surfaces, trace disseminated, very fine grained pyrite. Rare, fracture fill, carbonate veining. Lower contact is slightly gradational.	massive	sericite alteration	wk					erythrite	0.01	pyrite	0.05		stringer	0.01				
GXP19014	55.56	58.29	2.73	Sil siltstone	D	grey black	vfg	massive	Siltstone with rare pebbles. Composed predominantly of black, very fine-grained to fine grained, massive silt with rare, sub-angular to sub-rounded pebbles, predominantly felsic (very intermediate) pebbles. Trace disseminate pyrite. Rare carbonate veinlets. Lower contact is slightly arbitrary and defined by first appearance of sandy beds.	massive	sericite alteration	v wk					pyrite	0.01				carbonate vein	0.01				
GXP19014	58.29	60.7	2.41	Sil siltstone	D	grey black	fg	bedded/bedding general	Interval consists of intercalated silt and sandy-silt beds/laminations with abundant sub-angular to rounded granules and pebbles, felsic granitic to intermediate, associated with more sandy intervals; interval becomes increasingly sandy and pebbly down intervals. Sandy beds are slightly undulatory and moderate angle to core axis (30 to 50 degrees). Interval is competent with few blocks less than 10 cm. Fine-grained disseminated pyrite occurs in more sandy intervals. Rare fracture-fill carbonate stringers. Lower contact is sharp, and undulatory and at high angle to core axis (between 60 and 80 degrees) and is the uncommonity.	massive	sericite alteration	v wk					pyrite	0.1				carbonate vein	0.01				

GKP19014	60.7	69.89	9.19	Vm mafic volcanic	D	green	vfg	massive	Mafic meta-volcanic. Medium to dark forest green, very fine-grained (aphanitic) to fine-grained, massive. Weak and pervasive sericite alteration and weak to moderate chlorite alteration and very weak carbonate alteration near the bottom of the interval. Cross-cut by numerous thin, fracture fill and 2 to 4-mm carbonate and carbonate-quartz veinlets; associated with minor pyrite. Abundant cm to sub-dec-m scale quartz carbonate veins, locally irregularly shaped or with small scale off-sets; these larger veins are associated with abundant blebby chloropyrite and pyrite. Lower contact is relatively sharp and defined by the first appearance of argillite.	massive	chlorite alteration	wk mod	sericite alteration	wk	carbonate alteration	wk	chalcopyrite	0.25	pyrite	0.3	quartz-carbonate vein	3	carbonate vein	1.5		
GKP19014	69.89	70.55	0.66	Sag argillite	D	black	vfg	foliated	Argillitic chlorite. Black and very fine-grained (aphanitic). The start of the interval is highly foliated and carbonates (bivalently foliated white and black, carbonate and argillite) to massive black argillite with few thin carbonate veinlets and pods. Interval is broken blocky to rubby with one block >30 cm Graphitic, particularly noticeable on fracture surfaces. Abundant subhedral to euhedral disseminated pyrite to fine-grained stringers. Lower contact is relatively sharp, undulator and at a high degree to core axis (>70%).	sheared	carbonate alteration	wk mod					pyrite	5	gp	3	carbonate vein	0.5				
GKP19014	70.55	70.81	0.27	Vm mafic volcanic	M	grey	vfg	massive	Altered mafic meta-volcanics. Medium grey, very fine-grained (aphanitic), massive. Interval is broken to rubby. Moderate and pervasive carbonate alteration. Abundant fine-grained disseminated anhedral to euhedral pyrite. Few thin stringers of argillite alteration and rare 2 mm, white carbonate veinlets. Lower contact is sharp and at 40 DTCA.	massive	carbonate alteration	mod					pyrite	5			carbonate vein	0.5				
GKP19014	70.81	71.14	0.33	Fault Breccia	M	black	mgc	brecciated	Healed Breccia. White to black, with minor pink, angular clasts (to sub-rounded), predominantly quartz clasts with lesser green clay altered clasts and lesser intermediate clasts and pink felsic/non-stained clasts, in a black matrix (locally carbonate matrix), mm to cm-clasts. Strong carbonate alteration. Disseminated pyrite, as well as, pyrite replacing clasts. Thin carbonate vein at lower contact, lower contact sharp and at 40 DTCA.	massive	carbonate alteration	mod str	faulted/fault				pyrite	2			carbonate vein	0.01				
GKP19014	71.14	72	0.86	Vm mafic volcanic	M	grey green	vfg	massive	Altered mafic meta-volcanics. Medium green-grey, fine-grained, massive. Interval is generally competent. A breccia pod occurs at 71.25 (similar to above breccia vein). Weak to moderate and pervasive chlorite alteration, weak to moderate sericite alteration and localized weak carbonate alteration. Trace disseminated subhedral to euhedral pyrite, particularly near upper contact. Rare, thin, discontinuous carbonate stringers. E.O.H 72 m.	massive	chlorite alteration	wk mod	sericite alteration	wk mod	carbonate alteration	wk	pyrite	0.1			stringer	0.1				
GKP19015	0	4.5	4.5	Caine					Caine: some rubble in box																	
GKP19015	4.5	5.35	0.85	Dou overburden general					no ore																	
GKP19015	5.35	38.35	33	Vm mafic volcanic	M	green	vfg	massive	Mafic meta-volcanic. Medium to dark forest green, very fine-grained (aphanitic), massive (locally a weak fabric is defined by the sericite alteration). Interval is broken and blocky. Weak to moderate and pervasive chlorite alteration and sericite alteration, weak and localized carbonate alteration. Trace fine-grained pyrite in mafic meta-volcanics. Interval is cross cut by numerous thin, fracture fill stringers to mm-scale (rarely cm-scale) carbonate (v.f. lesser quartz) veinlets; larger (thicker) veinlets are locally slightly more irregularly shaped and associated with chlorite and trace pyrite and/or chalcopyrite. Locally small off-sets of carbonate veinlets and locally tension fracture fill carbonate. Lower contact is sharp at 70 dtca.	massive	chlorite alteration	wk mod	sericite alteration	wk mod	carbonate alteration	v wk	pyrite	0.2	chalcopyrite	0.1			carbonate vein	3		
GKP19015	38.35	39.69	1.34	Vm mafic volcanic	M	green grey	fmg	massive	Mafic meta-volcanic, medium green-grey, fine to medium grained, massive. Interval is composed of fine grained mafic volcanics with fine to medium grained blocky (chlorite altered) amphibole(?). Interval is broken and blocky. Moderate to strong and pervasive chlorite alteration, weak to moderate and pervasive sericite alteration and weak and pervasive carbonate alteration. Trace disseminated pyrite. Thin, fracture-fill to mm scale carbonate veins. Upper and lower contact are 1 to 2 cm quartz-carbonate-chlorite veins. Lower contact is sharp, 50 dtca.	massive	chlorite alteration	mod str	sericite alteration	wk mod	carbonate alteration	wk	pyrite	0.01			carbonate vein	1				
GKP19015	39.69	41.2	1.52	Vm mafic volcanic	M	green	vfg	massive	Pyrite rich mafic meta-volcanics. Interval is composed of medium forest green, aphanitic to very fine-grained and massive mafic meta-volcanics with abundant subhedral to euhedral fine to medium-grained disseminated pyrite. Moderate to strong and pervasive chlorite alteration, weak to moderate sericite alteration. Carbonate veining, fracture-fill to mm-scale, stringers to veinlets, thin stringers are locally undulatory and discontinuous. Lower contact is sharp at 35 dtca.	massive	chlorite alteration	mod str	sericite alteration	wk mod			pyrite	3			carbonate vein	1				
GKP19015	41.2	42.65	1.45	Sag argillite	D	green black	vfg	foliated	Interval is composed of foliated/sheared, weakly undulatory, black argillite and forest-green mafic meta-volcanic. Abundant pyrite, euhedral to blebby, disseminated to disseminated stringers of pyrite generally foliation parallel. Interval is broken to rubby (generally parallel to fabric). Weak to moderate chlorite alteration. Thin, sub-mm, discontinuous white carbonate veinlets/seams (tension-fracture fill?) cross-cutting the fabric; as well as, rare foliation parallel carbonate veins. Lower contact is sharp and undulatory at 20 dtca.	sheared	argillite alteration	mod str	chlorite alteration	mod			pyrite	5			carbonate vein	0.5				
GKP19015	42.65	44.72	2.07	Vm mafic volcanic	M	grey green	fg	massive	Mafic meta-volcanic. Medium grey green, very fine to fine grained, massive; a weakly to moderately foliated interval between 42.57 and 42.83 m (localized and increase argillite, sericite, carbonate alteration) (Weak shearing?) Weak to moderate and pervasive chlorite and sericite alteration. Trace disseminated pyrite. Thin, fracture fill to mm-scale carbonate stringers/veinlets, locally wavy, locally truncated with small effects. Lower contact is gradual.	massive	chlorite alteration	wk mod	sericite alteration	wk			pyrite	0.01			carbonate vein	0.1				
GKP19015	44.72	117	72.28	Vm mafic volcanic	D	black	fmg	massive	Mafic meta-volcanic. Dark grey-green black to black with a brown-purple hue, very fine- to fine-grained, with medium grained alteration, massive. Interval is competent with few rubby zone. Moderate to strong chlorite alteration, locally resulting in a spotted appearance (chlorite spotting). Abundant mm-scale to cm-scale commonly pale-green carbonate (calc?) commonly associated with black chlorite, and lesser white carbonate stringers/veins. Common, very thin, sub-mm fracture fill carbonate stringers, locally undulatory. Locally carbonate string and veins have small scale off-sets. Trace disseminated pyrite in mafic meta-volcanic and locally trace disseminated pyrite with stringers and veins. EOH 117 m	massive	chlorite alteration	mod str					pyrite	0.05			carbonate vein	5				







GPPI015	89.00	50.00	1.00	15792	15792	0.04	2.9	54.6	-10	0.17	0.02	4.22	0.09	0.06	107	2160	0.85	82	0.01	8.96	0.07	0.8	0.036	0.01	2.6	5.2	14.15	1380	1.66	0.01	1.5	1165	180	1.7	11	0.002	0.19	0.3	22.7	1	0.2	25	0.09	-0.05	0.21	0.274	0.08	0.1	111	0.2	8.1	109	82.4
GPPI015	51.50	50.50	1.00	15793	15793	0.03	2.38	47.5	10	0.18	0.01	5.4	0.07	0.11	99.4	2180	0.83	19.3	1.88	0.06	0.1	0.021	0.02	1.8	4	15.1	1380	0.05	0.01	1.1	1200	120	1.6	14	-0.002	0.04	0.17	18.7	1	0.1	30.4	0.06	-0.05	0.19	0.251	0.03	-0.1	111	0.5	9	82	8.8	
GPPI015	63.85	64.85	1.00	15794	15794	0.04	2.68	55.1	10	0.16	0.01	5.87	0.06	1.06	94.8	2180	0.7	12.2	7.6	0.08	0.06	0.5	0.026	0.02	1.8	4.2	15.1	1420	-0.05	0.02	1.4	1170	180	1.7	17	-0.002	0.05	0.32	17.9	1	0.2	48.9	0.09	-0.05	0.21	0.277	0.03	-0.1	109	0.5	7.6	80	14
GPPI015	78.20	75.20	1.00	15795	15795	0.04	1.88	57.4	-10	0.13	0.01	5.38	0.08	4.36	111.5	2220	0.46	18.8	8.00	0.05	0.4	0.021	0.01	1.2	3.1	14.26	1340	-0.05	0.01	0.9	1200	120	1.3	13	-0.002	0.05	0.5	15.3	1	0.1	50.7	0.06	-0.05	0.13	0.176	0.03	-0.1	88	0.6	5.4	81	15	
GPPI015	85.00	85.00	1.00	15796	15796	0.05	1.81	4.5	-10	0.13	0.02	2.19	0.08	2.23	223	1610	0.45	40.5	8.06	0.05	0.2	0.021	0.01	1.2	3.1	17.75	1240	-0.05	0.01	0.9	1370	130	1.9	11	-0.002	0.04	0.46	15	1	0.2	24.2	0.06	-0.05	0.16	0.188	-0.02	-0.1	91	0.5	4.7	96	7.5	
GPPI015	89.00	86.00	1.00	15797	15797	0.04	1.70	4.1	-10	0.07	0.02	4.4	0.11	1.42	116.5	2170	0.3	11.7	1.9	0.05	0.4	0.021	-0.01	1.3	3.6	14.46	1400	-0.07	0.01	0.7	1470	100	1.2	10	-0.002	0.03	0.21	14	1	0.1	59.4	0.05	-0.05	0.13	0.153	-0.02	-0.1	81	0.2	4.8	88	9.7	
GPPI015	99.00	100.00	1.00	15798	15798	0.03	1.74	1.6	10	0.16	0.01	2.75	0.03	1.74	223	3070	0.38	18.5	8.03	0.09	0.05	0.1	0.021	0.01	1.4	2.7	18.15	1320	-0.05	0.01	0.9	1800	110	1	11	-0.002	0.03	0.4	14.5	-1	0.2	35.6	0.05	-0.05	0.11	0.163	-0.02	-0.1	85	0.1	5.2	83	2.7
GPPI015	105.00	105.00	1.00	15799	15799	0.06	1.46	8.3	10	0.11	0.02	4.06	0.09	1.68	111.5	2020	0.46	18.4	8.06	0.05	0.2	0.021	0.01	1.3	3.5	16.76	1300	-0.05	0.01	0.9	1500	120	1.1	10	-0.002	0.04	0.3	11.6	1	0.1	61.2	0.06	-0.05	0.13	0.176	-0.02	-0.1	79	0.3	4.8	89	4.4	
GPPI015	111.00	114.00	1.00	15800	15800	0.1	1.53	11.8	-10	0.2	0.03	2.69	0.09	1.36	125	3050	0.33	17.2	8.47	0.43	0.06	0.1	0.02	-0.01	1.2	1.8	17.6	1300	-0.05	-0.01	0.8	1805	110	1.1	0.7	-0.002	0.08	0.17	13.8	-1	0.2	46.1	0.05	-0.05	0.12	0.147	0.02	-0.1	79	0.4	4.7	116	3.5



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-APR-2019  
 This copy reported on  
 24-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19077563**

Project: Gowganda

This report is for 33 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 1-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON CLYDE SMITH	FRANK PLOEGER
----------------------------	---------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Co-OG62	Ore Grade Co - Four Acid	
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
As-OG62	Ore Grade As - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19077563**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16601		2.29	0.08	7.35	22.7	400	1.72	0.29	0.30	<0.02	74.8	43.4	84	1.41	11.1	3.31
16602		2.23	0.04	7.09	28.2	360	1.50	0.22	0.30	0.02	47.6	15.7	74	1.18	75.9	2.20
16603		2.18	0.09	7.04	131.0	340	1.51	1.62	0.32	<0.02	55.5	101.0	81	1.13	16.3	2.14
16604		2.07	0.13	7.29	583	380	1.65	2.89	0.29	<0.02	75.7	366	79	1.32	3.3	3.04
16605		2.04	0.11	7.04	716	360	1.59	4.24	0.27	<0.02	65.4	405	71	1.19	2.3	2.83
16606		1.21	0.65	6.26	>10000	310	1.44	402	0.24	0.03	70.7	>10000	66	1.08	3.0	2.98
16607		0.58	0.01	0.36	167.5	60	0.40	0.63	32.2	0.02	1.53	44.3	3	0.14	1.7	0.11
16608		0.17	0.77	5.66	7.5	200	0.95	0.11	4.51	1.91	32.1	>10000	141	0.57	4430	5.66
16609		0.99	0.17	7.37	1160	360	1.79	5.02	0.38	<0.02	79.4	678	80	1.22	8.5	3.07
16610		0.93	0.16	7.20	1070	360	1.77	4.73	0.41	<0.02	73.4	592	81	1.21	6.5	2.95
16611		2.05	0.23	7.20	576	350	1.77	4.39	0.37	<0.02	92.7	382	75	1.24	98.2	2.93
16612		2.26	0.05	6.46	84.4	280	1.30	0.40	0.52	<0.02	35.8	69.2	59	0.88	107.5	1.46
16613		2.13	0.04	7.41	12.9	360	1.28	0.15	0.25	<0.02	48.2	16.8	69	1.06	12.6	2.09
16614		1.80	0.19	7.71	24.4	330	1.23	0.15	0.25	0.02	71.9	48.8	77	0.94	210	2.79
16615		2.19	0.86	5.95	4.6	160	0.72	0.18	1.67	0.05	16.75	7.8	52	0.57	1435	0.81
16616		2.10	0.09	7.59	4.9	290	1.31	0.43	0.24	0.06	73.9	14.2	93	0.94	5.8	3.06
16617		2.24	0.07	6.93	11.9	260	1.18	0.32	0.48	<0.02	46.5	11.5	78	0.85	5.1	1.99
16618		2.22	0.17	6.93	12.6	320	1.42	0.30	0.56	0.04	55.2	15.8	87	1.17	88.5	3.45
16619		1.90	0.14	6.23	51.9	50	1.94	0.17	7.55	0.10	28.9	60.3	387	1.00	95.8	8.30
16620		2.39	0.11	5.68	34.2	40	2.84	0.08	8.53	0.04	15.20	62.9	395	2.04	173.0	10.15
16621		2.74	0.11	6.01	10.5	40	0.67	0.03	7.72	0.11	15.15	81.1	246	0.32	205	11.10
16622		2.20	0.06	5.62	12.7	30	0.59	0.02	7.21	0.09	13.45	69.8	271	0.11	167.5	10.75
16623		1.99	0.04	5.75	15.3	40	0.51	0.02	6.97	0.05	12.25	65.4	267	0.15	125.5	10.65
16624		2.33	0.03	5.70	17.5	40	0.59	0.02	7.31	0.04	13.80	71.5	295	0.14	116.0	10.80
16625		0.61	0.01	0.07	0.6	20	0.06	0.02	35.3	0.02	0.83	0.8	4	<0.05	1.7	0.14
16626		2.10	0.08	5.99	14.2	40	0.52	0.03	6.98	0.05	14.50	63.3	243	0.16	174.0	10.65
16627		2.59	0.04	5.68	23.3	30	0.46	0.02	8.10	0.08	11.60	62.4	247	0.07	117.0	10.10
16628		2.55	0.06	6.13	5.3	60	0.48	0.03	7.84	0.04	15.60	63.0	215	0.05	189.0	10.95
16629		2.48	0.26	5.93	12.7	70	0.46	0.11	7.16	0.33	14.40	63.2	170	0.17	344	10.50
16630		2.49	0.04	5.80	10.2	60	0.54	0.03	7.35	0.06	13.05	64.3	231	0.10	161.0	10.95
16631		2.36	0.07	5.54	12.7	70	0.43	0.04	8.08	0.06	14.40	54.0	164	0.40	186.5	9.88
16632		2.34	0.11	5.86	10.3	70	0.49	0.05	7.21	0.10	14.85	60.0	161	0.41	192.5	10.80
16633		0.17	3.91	5.53	13.2	120	0.56	0.81	3.54	2.24	15.10	968	268	0.74	>10000	18.25



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19077563**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
16601		21.7	0.10	3.3	0.025	1.93	34.3	25.9	1.76	285	2.07	3.51	5.6	87.1	660	11.4
16602		17.80	0.09	3.0	0.024	1.90	22.5	16.4	1.14	202	1.89	3.85	4.3	43.0	570	11.0
16603		16.55	0.09	3.1	0.020	1.78	26.4	13.5	1.11	205	9.32	3.92	4.2	72.7	600	9.9
16604		20.7	0.10	3.1	0.030	1.84	35.8	23.7	1.64	261	2.94	3.50	5.4	152.5	640	9.1
16605		19.45	0.10	2.9	0.021	1.74	30.3	21.8	1.53	254	5.60	3.54	4.7	359	590	8.5
16606		19.15	0.22	2.6	0.076	1.50	34.7	24.8	1.58	244	110.0	2.88	4.1	>10000	530	10.4
16607		1.23	<0.05	0.1	<0.005	0.16	1.3	2.2	1.70	107	0.44	0.13	0.7	44.6	80	0.7
16608		15.20	0.25	2.5	0.049	0.54	16.0	6.0	2.86	759	2.65	1.75	18.5	>10000	1200	17.2
16609		21.1	0.11	3.1	0.032	1.81	37.8	21.6	1.66	270	10.65	3.61	5.4	393	660	9.2
16610		21.3	0.09	3.2	0.031	1.83	34.6	21.8	1.60	261	9.76	3.64	5.3	328	630	9.3
16611		20.8	0.10	3.2	0.034	1.79	43.5	21.3	1.57	271	14.40	3.62	5.1	165.5	650	11.5
16612		12.95	0.08	2.4	0.015	1.61	17.0	7.8	0.71	167	1.78	3.86	3.3	35.0	490	8.6
16613		17.70	0.10	3.2	0.011	1.89	22.9	11.0	1.10	183	1.65	4.07	4.1	30.8	590	8.2
16614		20.1	0.12	4.2	0.025	1.73	34.0	19.4	1.46	229	1.40	4.19	4.8	89.2	700	9.8
16615		9.33	0.10	2.0	0.070	1.21	7.6	3.3	0.27	251	1.98	4.00	2.2	12.4	330	9.2
16616		20.1	0.12	6.2	0.023	1.65	35.6	16.8	1.57	255	2.10	4.02	5.4	39.4	700	15.0
16617		15.20	0.11	4.7	0.011	1.58	22.4	8.9	0.99	202	1.71	4.03	4.4	30.2	620	11.3
16618		18.00	0.10	4.1	0.022	1.65	25.9	20.2	1.90	387	1.80	3.18	4.7	37.0	580	16.7
16619		19.75	0.12	1.9	0.098	0.15	11.8	42.5	4.48	1540	0.40	1.59	4.4	174.5	430	15.2
16620		17.10	0.08	1.3	0.106	0.11	6.2	45.2	5.99	1870	0.33	1.16	3.9	203	390	10.3
16621		17.50	0.09	1.5	0.078	0.10	5.4	15.4	5.83	1620	0.49	1.88	4.3	169.0	430	19.4
16622		16.25	0.08	1.2	0.073	0.10	4.8	11.1	5.62	1620	0.34	2.00	4.0	157.0	390	11.4
16623		16.25	0.09	1.4	0.080	0.09	4.3	14.6	5.44	1550	0.52	2.30	4.0	149.5	410	3.5
16624		16.60	0.08	1.3	0.069	0.10	4.8	13.3	5.68	1580	0.23	2.13	4.2	161.5	400	5.8
16625		0.21	<0.05	<0.1	<0.005	0.01	1.0	1.3	2.09	116	0.07	0.03	0.1	0.8	50	0.5
16626		17.20	0.07	1.6	0.074	0.12	5.2	16.8	5.21	1480	0.39	2.24	4.2	136.5	430	3.2
16627		16.00	0.07	1.3	0.067	0.08	4.1	19.2	5.03	1480	0.19	2.33	3.8	140.5	410	2.5
16628		17.55	0.07	1.1	0.079	0.14	5.5	11.7	5.18	1550	0.44	1.99	4.4	123.5	440	2.2
16629		16.05	0.08	1.2	0.080	0.13	5.1	15.1	4.41	1580	1.66	2.42	4.3	102.0	420	8.9
16630		17.05	0.07	1.4	0.074	0.14	4.5	14.8	5.33	1490	0.24	2.03	4.1	139.0	420	1.9
16631		16.00	0.07	1.0	0.076	0.11	5.2	17.1	4.17	1420	0.76	1.64	3.8	100.5	400	1.9
16632		17.85	0.08	1.7	0.077	0.11	5.4	18.2	4.36	1510	1.18	1.96	4.3	103.5	440	4.0
16633		12.50	0.27	1.1	0.129	0.32	6.5	9.1	3.99	971	4.58	1.19	4.8	>10000	460	12.5



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19077563**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16601		71.4	0.002	0.04	0.58	11.1	1	1.6	188.5	0.48	<0.05	8.48	0.208	0.40	3.4	74
16602		74.8	<0.002	0.03	0.52	7.3	<1	0.8	169.5	0.41	<0.05	7.02	0.158	0.35	2.5	51
16603		71.3	0.004	0.05	0.40	7.1	<1	0.7	166.5	0.38	<0.05	7.22	0.166	0.39	2.9	56
16604		77.4	<0.002	0.07	0.87	9.6	<1	1.1	185.5	0.48	<0.05	8.86	0.202	0.36	2.9	67
16605		68.1	<0.002	0.04	1.86	7.9	<1	1.0	174.0	0.44	<0.05	7.98	0.181	0.38	2.8	61
16606		59.8	0.006	1.58	355	7.5	1	1.0	149.5	0.39	<0.05	7.59	0.153	0.35	3.4	64
16607		4.7	<0.002	0.01	0.50	0.3	1	0.2	83.5	0.16	<0.05	0.50	0.006	0.05	0.4	1
16608		16.3	<0.002	6.17	0.54	16.5	1	1.1	329	0.89	<0.05	2.00	0.799	0.13	0.5	116
16609		72.4	0.003	0.08	2.35	8.9	1	1.2	180.5	0.48	<0.05	9.34	0.203	0.37	3.1	66
16610		71.8	0.003	0.06	2.12	8.8	<1	1.1	177.5	0.48	<0.05	8.90	0.192	0.36	3.0	64
16611		72.1	0.050	0.06	1.29	10.2	<1	1.1	173.0	0.46	<0.05	8.70	0.188	0.39	3.0	68
16612		62.0	<0.002	0.06	0.37	5.0	1	0.4	130.5	0.30	<0.05	6.42	0.127	0.35	2.4	35
16613		70.3	<0.002	0.04	0.38	6.5	1	0.7	167.5	0.39	<0.05	7.40	0.166	0.40	2.7	52
16614		64.6	<0.002	0.06	0.56	7.9	<1	1.1	152.0	0.42	<0.05	9.02	0.198	0.37	2.6	73
16615		42.7	<0.002	0.23	0.18	4.9	1	0.4	79.1	0.19	<0.05	4.16	0.090	0.26	1.6	14
16616		63.3	<0.002	0.15	0.25	8.6	1	0.9	126.5	0.52	0.06	13.40	0.218	0.38	4.7	72
16617		58.1	0.002	0.10	0.25	6.5	<1	0.7	116.5	0.41	<0.05	10.50	0.182	0.33	3.9	48
16618		65.6	<0.002	0.11	0.21	8.0	<1	1.0	152.0	0.44	<0.05	9.83	0.195	0.37	4.1	61
16619		5.5	<0.002	0.03	0.63	41.5	1	0.9	111.5	0.29	<0.05	0.96	0.746	0.04	0.8	275
16620		5.3	0.002	0.03	0.44	46.2	<1	0.8	115.0	0.25	<0.05	0.65	0.722	0.06	0.2	282
16621		1.6	<0.002	0.05	0.27	42.2	<1	0.8	163.0	0.26	<0.05	0.46	0.761	0.06	0.1	276
16622		1.1	0.002	0.03	0.19	40.5	<1	0.8	109.5	0.24	<0.05	0.42	0.715	0.06	0.1	261
16623		0.9	<0.002	0.04	0.20	38.9	<1	0.7	89.7	0.25	<0.05	0.43	0.718	0.04	0.2	258
16624		1.1	<0.002	0.01	0.15	40.0	<1	0.6	110.5	0.24	<0.05	0.44	0.725	0.05	0.1	268
16625		0.2	<0.002	<0.01	0.06	0.3	1	<0.2	80.8	<0.05	<0.05	0.05	0.007	<0.02	0.1	2
16626		1.4	<0.002	0.20	0.19	36.5	<1	0.6	114.5	0.25	<0.05	0.44	0.750	0.08	0.1	265
16627		0.8	<0.002	0.08	0.10	35.5	1	0.6	118.0	0.22	<0.05	0.38	0.663	0.04	0.1	249
16628		1.0	<0.002	0.10	0.15	35.0	1	0.8	194.0	0.26	<0.05	0.46	0.765	0.04	0.1	265
16629		1.2	0.002	0.58	0.20	28.9	1	0.8	126.5	0.26	0.14	0.68	0.742	0.08	0.2	246
16630		1.3	<0.002	0.06	0.12	40.0	1	0.7	114.0	0.25	<0.05	0.42	0.749	0.03	0.1	275
16631		1.9	<0.002	0.28	0.23	28.3	1	0.9	173.5	0.24	<0.05	0.44	0.692	0.06	0.1	238
16632		1.8	<0.002	0.43	0.30	32.0	1	1.1	125.5	0.25	0.07	0.59	0.742	0.06	0.2	249
16633		10.2	0.048	8.42	3.18	8.3	21	2.8	188.0	0.27	4.39	1.00	0.530	0.17	0.3	79



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 10-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19077563**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	As %	Co %	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	0.001	0.0005	0.001	0.001	0.01	0.01
16601		0.5	9.8	27	127.5					89.3	96.4
16602		0.4	8.1	19	110.5						95.2
16603		0.3	8.1	18	120.0						
16604		0.5	9.0	24	120.5						
16605		0.5	8.2	23	108.0						
16606		0.4	10.3	23	98.7	10.25	2.55		2.90		
16607		0.1	2.7	4	4.5						
16608		3.0	18.0	134	111.0		5.08		5.57		
16609		0.5	10.6	25	119.5						
16610		0.5	10.4	24	120.0						
16611		0.4	11.3	24	121.0						
16612		0.3	7.5	12	95.8						
16613		0.3	6.3	18	119.0						
16614		0.4	10.9	24	154.0						
16615		0.2	6.7	12	68.3						
16616		0.4	10.8	27	227						
16617		0.4	8.5	19	175.5						
16618		0.4	8.6	34	156.5						
16619		1.6	28.6	87	56.6						
16620		0.3	21.9	101	45.7						
16621		0.4	24.2	127	54.7						
16622		0.3	22.0	108	37.1						
16623		0.3	22.1	100	42.8						
16624		0.3	21.7	88	47.3						
16625		<0.1	2.0	4	1.4						
16626		0.5	22.9	89	47.3						
16627		0.4	20.7	90	49.4						
16628		0.3	24.3	100	34.9						
16629		0.7	23.0	133	38.7						
16630		0.4	22.9	102	39.2						
16631		1.7	22.1	107	33.7						
16632		0.7	23.4	123	62.5						
16633		2.1	9.0	138	49.8			1.600	4.54		



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 10-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19077563</b>
---

	<b>CERTIFICATE COMMENTS</b>
--	-----------------------------

	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	<p>REE's may not be totally soluble in this method.          ME-MS61</p>								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">As-OG62</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> </tr> <tr> <td>ME-OG62</td> <td>Ni-OG62</td> <td></td> <td></td> </tr> </table>	As-OG62	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62		
As-OG62	Co-OG62	Cu-OG62	ME-MS61						
ME-OG62	Ni-OG62								



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 This copy reported on  
 24-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19081757**

Project: Gowganda

This report is for 30 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 5-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON CLYDE SMITH	FRANK PLOEGER
----------------------------	---------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Co-OG62	Ore Grade Co - Four Acid	
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081757**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16634		1.95	0.06	6.88	17.3	280	1.22	0.20	0.19	<0.02	56.0	32.9	69	0.79	4.8	1.94
16635		2.01	0.13	7.40	30.7	360	1.48	0.26	0.27	0.06	71.1	48.8	76	1.17	307	3.16
16636		0.54	0.01	0.08	<0.2	20	0.06	0.02	34.4	0.03	1.21	0.9	3	<0.05	1.7	0.12
16637		0.06	>100	4.44	705	180	0.79	64.4	0.66	26.2	32.5	10.0	36	2.41	5240	2.22
16638		1.90	0.20	7.12	13.3	350	1.34	0.29	0.43	0.03	69.0	20.3	76	1.09	156.5	3.11
16639		0.90	0.14	6.98	23.8	280	0.99	0.35	0.48	0.06	44.3	39.0	73	0.79	186.0	1.43
16640		0.75	0.12	6.86	22.5	280	0.91	0.28	0.30	0.03	38.1	29.8	67	0.76	229	1.37
16641		0.08	4.37	5.57	13.0	120	0.61	0.86	3.58	2.12	17.90	981	274	0.69	>10000	18.30
16642		1.82	0.07	5.60	15.2	150	0.69	0.19	2.71	0.04	29.9	31.9	45	0.58	117.0	0.74
16643		1.80	0.10	5.36	55.3	160	0.62	0.48	2.64	<0.02	21.3	37.3	48	0.55	157.0	0.79
16644		1.93	0.21	5.40	688	140	0.86	1.65	2.40	<0.02	14.65	477	41	0.56	12.8	0.71
16645		0.81	0.15	5.16	9870	140	0.77	69.4	2.55	<0.02	14.70	4400	40	0.55	2.3	0.87
16646		0.48	0.01	0.06	12.2	10	0.08	0.11	33.7	<0.02	0.92	5.7	4	<0.05	1.3	0.12
16647		0.07	0.78	5.94	6.3	200	0.76	0.11	4.67	1.80	33.5	>10000	145	0.55	4610	6.05
16648		1.46	0.16	5.43	1355	150	0.59	2.87	2.76	<0.02	16.75	859	43	0.55	4.8	0.67
16649		0.82	0.13	4.94	377	150	0.52	1.56	2.69	<0.02	16.65	236	43	0.70	2.5	0.59
16650		1.80	0.14	5.62	140.5	170	0.63	1.51	2.18	<0.02	17.70	105.0	44	0.75	3.8	0.63
16651		1.90	0.99	5.61	74.4	160	0.51	1.30	2.06	<0.02	20.1	76.6	41	0.70	7.7	0.60
16652		1.72	0.69	5.80	130.5	170	0.63	1.37	1.39	<0.02	28.7	117.5	46	0.60	3.3	0.70
16653		1.76	0.22	5.23	1090	140	0.56	2.92	2.18	<0.02	13.10	787	41	0.51	2.9	0.49
16654		1.78	0.44	7.37	824	300	1.61	2.73	0.59	0.02	62.0	523	76	0.96	55.6	2.49
16655		1.92	0.37	6.64	20.9	270	1.55	0.32	1.19	0.03	50.0	34.1	67	0.94	498	3.20
16656		1.36	0.14	7.16	55.7	100	1.83	0.23	2.21	0.11	33.1	304	273	0.79	199.5	8.10
16657		1.98	0.14	5.81	17.9	50	0.90	0.10	7.15	0.08	19.85	66.6	176	0.42	216	10.05
16658		1.44	0.10	5.35	14.5	50	0.50	0.03	7.63	0.16	14.80	69.2	232	0.13	129.5	9.69
16659		1.85	0.10	5.06	6.2	40	0.51	0.02	7.39	0.05	14.50	68.0	274	0.16	141.5	10.05
16660		2.26	0.03	4.81	3.7	40	0.45	0.03	8.14	0.05	12.65	68.3	256	0.17	181.0	10.20
16661		2.24	0.10	5.94	3.4	60	0.48	0.02	7.03	0.06	17.10	63.0	171	0.08	228	10.60
16662		1.75	0.18	6.10	15.1	50	0.39	0.08	6.63	0.05	16.80	63.7	222	0.18	185.5	10.25
16663		2.22	0.08	7.03	3.7	90	0.59	0.03	5.50	0.04	20.4	60.2	78	0.12	203	10.85



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081757**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16634		15.10	0.13	3.7	0.015	1.69	27.2	12.6	0.99	185	1.22	4.02	4.1	58.8	600	11.5
16635		21.6	0.15	3.5	0.033	1.81	33.5	21.3	1.68	273	2.03	3.52	4.7	95.5	610	11.3
16636		0.32	0.15	0.1	<0.005	0.02	1.2	1.1	1.80	109	0.13	0.04	0.1	1.0	70	0.6
16637		21.8	0.19	2.4	5.74	0.69	16.2	18.9	0.19	237	4.51	0.44	8.2	63.8	580	1070
16638		20.3	0.17	4.0	0.033	1.73	32.1	19.1	1.71	264	1.64	3.43	4.8	56.3	610	14.1
16639		13.15	0.17	4.3	0.029	1.75	21.9	7.1	0.71	158	1.97	4.16	4.6	63.9	620	12.1
16640		12.50	0.16	3.6	0.027	1.73	18.6	6.8	0.66	140	1.55	4.11	4.0	51.0	560	11.5
16641		11.25	0.46	1.2	0.133	0.31	8.4	9.3	4.02	1000	4.26	1.20	4.7	>10000	470	13.2
16642		8.80	0.12	1.3	0.044	1.17	14.0	3.6	0.31	467	2.31	3.74	1.9	73.7	220	7.3
16643		9.20	0.13	1.9	0.048	1.21	9.6	3.8	0.34	408	2.55	3.77	2.7	24.3	310	9.5
16644		8.83	0.14	1.5	0.035	1.10	6.3	3.7	0.31	432	4.79	3.73	2.0	199.5	270	4.6
16645		9.12	0.12	1.3	0.044	1.00	6.8	5.1	0.39	459	8.95	3.64	1.8	2200	270	5.4
16646		0.27	0.14	<0.1	<0.005	0.01	1.0	1.3	1.41	97	0.29	0.03	0.1	4.1	70	0.6
16647		14.35	0.35	2.3	0.051	0.56	16.5	5.4	3.01	798	2.45	1.82	18.2	>10000	1240	16.9
16648		8.67	0.12	1.7	0.034	1.21	7.7	3.2	0.30	405	7.51	3.72	2.3	228	300	4.8
16649		10.20	0.18	1.8	0.037	1.23	7.4	3.4	0.25	384	2.86	3.64	3.0	63.3	290	5.5
16650		10.95	0.16	1.9	0.032	1.33	7.9	3.7	0.27	326	2.27	3.86	3.3	61.3	320	5.8
16651		10.45	0.18	1.8	0.026	1.32	9.2	3.6	0.25	332	1.79	3.84	3.2	72.6	300	6.5
16652		9.38	0.16	2.3	0.017	1.39	11.2	3.7	0.31	216	2.45	3.80	3.0	30.1	360	5.8
16653		7.33	0.11	1.3	0.023	1.20	4.6	2.8	0.20	320	6.59	3.62	1.6	74.0	230	6.6
16654		16.70	0.17	4.0	0.028	1.73	27.6	15.1	1.35	272	8.51	3.84	4.1	186.5	600	13.5
16655		14.70	0.14	3.5	0.059	1.40	22.3	18.9	1.76	440	1.28	3.10	4.0	70.8	530	21.2
16656		20.2	0.12	2.4	0.088	0.44	15.6	58.4	4.76	1160	0.68	2.09	4.2	459	590	87.7
16657		15.10	0.11	1.6	0.076	0.11	7.6	16.1	4.57	1660	1.06	1.98	4.0	126.0	440	3.2
16658		13.30	0.10	1.3	0.070	0.10	4.4	9.0	5.28	1480	0.24	1.89	3.7	155.5	360	7.0
16659		12.85	0.08	1.2	0.066	0.09	4.3	11.4	5.66	1440	0.42	1.80	3.4	164.5	360	1.0
16660		11.95	0.09	1.2	0.070	0.11	3.7	10.4	5.82	1780	0.22	1.54	3.1	178.5	340	1.6
16661		14.40	0.09	1.7	0.067	0.13	6.0	11.7	4.49	1780	0.30	2.38	3.9	122.0	410	6.4
16662		14.35	0.09	1.6	0.070	0.10	6.2	20.5	4.81	1530	1.07	2.64	4.1	135.0	430	3.9
16663		19.50	0.10	1.3	0.075	0.18	7.3	16.7	3.55	1480	0.47	2.94	5.0	70.2	540	2.6





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081757**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16634		62.3	<0.002	0.06	0.28	6.1	<1	0.6	112.5	0.41	<0.05	9.52	0.171	0.31	2.8	51
16635		68.4	<0.002	0.10	0.48	9.9	<1	1.2	171.0	0.47	<0.05	10.25	0.202	0.35	3.6	64
16636		0.6	<0.002	<0.01	0.05	0.2	<1	<0.2	83.8	<0.05	<0.05	0.12	0.005	<0.02	0.1	1
16637		28.1	<0.002	2.17	92.8	3.9	38	5.7	471	0.55	45.6	6.59	0.225	1.58	2.5	34
16638		63.7	<0.002	0.09	0.40	9.8	<1	1.2	162.5	0.48	0.06	10.70	0.210	0.32	4.0	66
16639		63.4	<0.002	0.13	0.54	5.3	<1	0.6	115.0	0.47	<0.05	11.90	0.188	0.33	3.9	45
16640		61.8	<0.002	0.13	0.43	4.6	<1	0.5	109.0	0.42	<0.05	9.21	0.166	0.32	3.3	43
16641		10.8	0.048	8.34	3.04	8.6	24	2.5	190.0	0.31	5.21	1.03	0.548	0.15	0.4	81
16642		41.8	<0.002	0.06	0.25	6.6	<1	0.3	86.1	0.21	<0.05	3.76	0.082	0.24	1.4	23
16643		39.7	<0.002	0.10	0.36	5.7	<1	0.3	87.4	0.28	<0.05	4.15	0.106	0.24	1.6	28
16644		36.0	<0.002	0.05	0.96	4.4	<1	0.2	86.7	0.20	<0.05	3.29	0.081	0.22	1.2	23
16645		32.0	0.006	0.31	45.9	3.5	<1	0.3	88.8	0.19	<0.05	2.88	0.077	0.22	1.1	24
16646		0.2	<0.002	<0.01	0.11	0.2	1	<0.2	81.3	<0.05	<0.05	0.07	0.005	<0.02	0.1	1
16647		17.6	<0.002	6.28	0.55	17.5	1	1.2	348	0.84	<0.05	1.90	0.858	0.12	0.5	123
16648		38.6	<0.002	0.10	2.34	3.9	<1	0.3	88.1	0.24	<0.05	3.31	0.096	0.23	1.3	23
16649		38.2	<0.002	0.06	0.84	4.5	<1	0.3	86.6	0.30	<0.05	3.76	0.099	0.29	1.1	23
16650		45.8	<0.002	0.04	0.47	4.6	<1	0.3	88.2	0.32	<0.05	4.41	0.107	0.30	1.2	25
16651		45.0	<0.002	0.03	0.39	4.7	<1	0.2	84.3	0.30	<0.05	4.36	0.104	0.30	1.1	23
16652		50.3	<0.002	0.06	0.34	4.0	<1	0.2	87.2	0.31	<0.05	4.76	0.123	0.25	1.5	27
16653		38.8	<0.002	0.06	1.47	4.1	<1	0.2	79.2	0.16	<0.05	2.50	0.072	0.23	1.1	16
16654		64.1	0.003	0.08	3.45	7.0	<1	0.8	149.0	0.42	<0.05	10.40	0.183	0.33	3.6	58
16655		52.6	<0.002	0.14	0.38	8.2	1	0.7	159.0	0.40	<0.05	9.81	0.172	0.29	3.1	54
16656		18.9	<0.002	0.11	0.86	37.1	<1	1.1	83.5	0.32	<0.05	2.08	0.635	0.13	1.2	227
16657		2.3	<0.002	0.14	0.43	37.1	1	0.8	175.0	0.27	<0.05	0.54	0.730	0.07	0.2	258
16658		1.1	<0.002	0.02	0.28	39.4	1	0.7	171.5	0.24	<0.05	0.40	0.688	0.05	0.1	249
16659		0.8	0.002	0.02	0.16	40.7	<1	0.7	112.5	0.23	<0.05	0.34	0.669	0.02	0.1	253
16660		0.9	<0.002	0.06	0.16	42.5	<1	0.6	129.0	0.20	<0.05	0.33	0.672	0.03	0.1	266
16661		1.1	<0.002	0.08	0.11	35.3	<1	0.8	136.0	0.26	<0.05	0.41	0.752	0.04	0.1	260
16662		1.2	<0.002	0.54	0.14	38.6	1	0.7	108.0	0.26	0.08	1.55	0.760	0.04	0.3	253
16663		2.1	0.003	0.11	0.12	27.9	1	0.6	181.5	0.34	<0.05	0.53	0.859	0.06	0.2	257



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19081757</b>
---

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	Co-OG62 Co % 0.0005	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
16634		0.4	8.7	17	147.0					87.7	98.1
16635		0.5	9.8	34	139.5						97.5
16636		<0.1	1.9	6	2.0						
16637		12.2	6.6	4210	90.8	124					
16638		0.5	10.4	30	162.5						
16639		0.4	9.2	19	176.0						
16640		0.3	7.8	16	147.5						
16641		2.1	10.6	141	54.8			1.620	4.69		
16642		0.3	8.1	8	54.6						
16643		0.2	7.5	7	78.8						
16644		0.2	8.9	6	62.1						
16645		0.3	8.0	5	53.1						
16646		<0.1	2.6	3	1.2						
16647		2.9	17.4	141	122.0		5.13		5.57		
16648		0.3	8.1	5	66.6						
16649		0.3	8.7	4	62.1						
16650		0.4	9.9	5	69.0						
16651		2.4	10.5	5	66.1						
16652		4.9	13.9	5	88.9						
16653		0.8	7.5	4	47.6						
16654		1.8	12.9	22	147.5						
16655		0.4	11.9	31	127.5						
16656		0.9	21.3	231	86.0						
16657		0.4	26.0	115	48.2						
16658		0.5	22.8	136	36.0						
16659		0.6	20.9	98	37.7						
16660		0.3	19.9	106	37.3						
16661		0.5	23.8	127	49.7						
16662		0.6	25.8	124	64.8						
16663		0.5	28.6	105	49.4						





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 This copy reported on  
 24-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19081761**

Project: Gowganda

This report is for 30 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 5-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON CLYDE SMITH	FRANK PLOEGER
----------------------------	---------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLW

Project: Gowganda

CERTIFICATE OF ANALYSIS SD19081761
------------------------------------

Sample Description	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	LOD
16664	1.91	0.03	7.61	9.8	350	1.36	0.17	0.26	<0.02	80.4	29.1	77	1.18	2.4	3.23	
16665	1.89	0.09	7.35	33.9	300	1.13	0.24	0.22	0.02	44.4	33.0	63	0.88	196.0	1.92	
16666	1.51	0.11	6.06	19.3	180	0.68	0.17	1.12	0.02	22.0	34.1	44	0.66	115.5	0.87	
16667	1.65	0.14	6.00	20.0	190	0.56	0.16	0.75	0.02	18.90	46.9	40	0.65	116.0	0.72	
16668	1.88	0.45	5.91	27.4	210	0.60	0.17	0.25	<0.02	32.5	78.1	37	0.68	66.5	0.70	
16669	1.67	0.15	5.94	25.4	220	0.66	0.14	0.40	<0.02	83.7	54.5	38	0.75	75.6	0.84	
16670	1.37	0.08	6.06	5.0	210	0.65	0.14	0.92	<0.02	22.1	14.4	41	0.72	32.2	0.89	
16671	1.40	0.14	6.32	12.0	210	0.63	0.17	0.45	<0.02	32.7	24.5	45	0.63	23.2	0.96	
16672	1.44	0.09	6.41	6.5	200	0.69	0.19	0.71	<0.02	13.30	14.0	48	0.63	17.3	1.05	
16673	1.76	0.14	7.65	21.4	350	1.49	0.22	0.26	0.04	81.2	34.2	79	1.07	7.4	3.30	
16674	1.88	0.81	7.24	21.1	220	1.91	0.34	1.99	0.03	43.1	28.6	125	1.19	1290	5.88	
16675	0.48	<0.01	0.09	<0.2	10	0.06	0.01	33.2	<0.02	1.21	1.0	4	<0.05	6.3	0.14	
16676	1.44	0.18	7.98	34.9	100	1.55	0.06	4.45	0.11	29.8	62.7	7	0.74	224	11.40	
16677	1.29	0.08	7.48	16.4	270	1.00	0.04	5.12	0.05	30.5	56.2	102	0.69	138.5	10.45	
16678	1.64	0.07	7.67	6.8	220	0.79	0.02	5.02	0.06	21.0	58.3	9	0.84	229	11.60	
16679	1.06	0.12	7.30	5.0	60	0.61	0.03	4.47	0.64	20.8	59.7	6	0.62	182.5	11.45	
16680	0.86	0.12	7.17	5.9	50	0.59	0.03	3.83	0.14	20.6	58.1	5	0.67	177.5	11.30	
16681	0.07	4.55	5.40	12.4	110	0.50	0.74	3.40	2.01	17.55	943	266	0.65	>10000	17.75	
16682	2.04	0.19	4.26	23.9	30	0.52	0.04	8.57	0.20	16.25	64.8	246	0.81	242	9.02	
16683	2.06	0.34	4.21	17.5	10	0.35	0.17	7.58	0.32	17.00	62.2	236	0.17	264	9.47	
16684	1.99	0.45	5.12	31.2	10	0.35	0.29	6.80	0.73	19.95	67.3	254	0.20	265	9.77	
16685	2.03	1.33	3.57	203	180	0.63	1.12	7.49	6.13	23.6	95.2	433	0.32	441	7.83	
16686	1.23	1.71	4.76	157.5	100	0.42	1.28	8.25	15.45	35.0	68.1	171	0.13	227	4.88	
16687	2.02	0.45	3.97	123.0	170	0.55	0.27	7.88	0.80	11.25	72.7	1020	0.60	317	7.85	
16688	2.05	0.64	5.37	34.7	60	0.61	0.16	5.50	19.65	14.80	45.8	122	0.35	206	9.17	
16689	1.96	0.49	4.94	28.0	20	0.40	0.12	6.25	7.86	12.70	53.7	175	0.31	232	8.88	
16690	1.80	1.28	6.28	23.5	40	0.53	0.27	5.69	29.7	19.50	61.7	32	0.25	522	8.00	
16691	2.08	0.48	5.32	98.4	80	0.64	0.22	7.33	13.10	23.2	72.5	574	0.55	264	7.26	
16692	2.04	0.26	5.24	18.4	110	0.53	0.04	7.38	2.02	13.90	58.4	229	2.70	216	9.76	
16693	2.14	0.13	5.48	17.2	30	0.52	0.03	7.75	0.31	14.55	60.6	228	0.40	172.0	10.45	



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081761**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16664		22.5	0.15	3.7	0.021	1.83	36.2	20.6	1.72	263	1.41	3.64	4.4	55.3	620	8.5
16665		15.30	0.12	3.4	0.015	1.81	20.2	13.3	1.00	162	1.25	4.08	3.7	76.2	570	19.1
16666		10.00	0.10	2.0	0.023	1.33	10.4	5.0	0.43	216	1.41	3.80	2.1	86.2	310	8.2
16667		9.36	0.09	1.8	0.015	1.55	8.6	4.1	0.34	147	1.23	3.77	2.3	93.8	270	18.2
16668		9.59	0.11	1.6	0.010	1.71	15.4	4.3	0.34	115	1.10	3.70	2.1	160.5	280	18.5
16669		10.20	0.16	1.4	0.014	1.80	39.2	5.3	0.42	134	0.98	3.54	2.1	139.5	260	11.4
16670		9.91	0.12	1.4	0.011	1.65	9.9	5.2	0.45	168	1.34	3.59	2.3	20.9	250	9.8
16671		10.45	0.13	2.0	0.007	1.56	14.1	5.4	0.50	124	1.31	3.94	2.9	59.8	390	9.1
16672		10.45	0.13	2.3	0.012	1.47	5.4	5.8	0.52	159	1.13	3.94	3.2	20.6	410	10.2
16673		23.6	0.17	4.1	0.017	1.86	35.4	22.8	1.89	289	1.45	3.56	4.8	84.2	670	23.7
16674		20.8	0.16	2.5	0.188	0.96	19.4	32.0	3.46	966	1.48	2.65	4.7	84.0	540	17.1
16675		0.34	0.13	<0.1	<0.005	0.01	1.2	1.1	1.00	86	0.16	0.03	0.1	1.9	50	<0.5
16676		22.3	0.11	1.6	0.100	0.16	12.4	18.5	3.19	1650	0.46	3.12	5.2	60.3	560	5.4
16677		18.50	0.10	2.1	0.066	0.34	11.8	15.2	3.49	1410	0.28	2.97	5.0	73.7	850	8.6
16678		21.1	0.09	1.6	0.075	0.30	7.7	17.1	2.98	1680	0.52	3.03	5.5	39.3	550	7.0
16679		19.85	0.09	2.1	0.070	0.08	7.4	21.8	3.11	1400	0.46	2.69	5.5	35.2	570	29.4
16680		18.05	0.11	1.9	0.067	0.08	7.3	23.3	3.14	1320	0.43	2.54	5.2	34.0	560	27.0
16681		10.80	0.39	1.3	0.112	0.31	7.6	8.1	3.83	972	4.07	1.17	4.3	>10000	460	12.0
16682		10.80	0.08	1.1	0.070	0.09	5.8	11.4	4.60	1500	0.37	0.47	3.3	173.5	330	7.5
16683		10.35	0.08	1.1	0.068	0.01	6.3	17.7	4.45	1500	0.33	0.15	2.6	163.0	340	29.9
16684		14.40	0.08	1.4	0.074	0.03	7.4	21.8	4.51	1180	2.18	0.48	2.8	155.5	370	85.4
16685		10.70	0.10	1.5	0.447	0.66	10.0	8.5	3.13	1280	3.76	1.31	2.6	301	180	169.0
16686		8.32	0.07	2.1	0.769	0.32	14.7	4.6	2.34	1260	8.48	3.16	2.2	204	870	247
16687		12.15	0.07	1.0	0.056	0.98	3.6	18.5	5.99	1920	0.49	0.19	1.2	510	250	291
16688		13.70	0.09	0.9	0.305	0.26	5.4	33.7	4.12	1430	1.64	0.95	3.5	99.8	400	1535
16689		12.60	0.08	0.9	0.102	0.11	4.9	19.7	4.04	1440	2.53	1.16	2.9	106.5	340	752
16690		14.40	0.10	1.4	0.305	0.11	7.1	19.1	2.94	1150	1.99	2.87	4.9	77.3	500	2210
16691		14.05	0.07	1.3	0.263	0.36	8.9	25.1	3.19	1240	8.27	1.69	2.2	244	420	520
16692		13.20	<0.05	1.0	0.099	0.33	5.1	15.5	4.47	1340	0.76	1.34	3.9	131.0	390	30.0
16693		15.30	0.09	1.2	0.087	0.07	5.4	16.7	4.93	1500	0.46	1.79	4.2	127.0	390	8.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081761**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16664		69.7	<0.002	0.06	0.22	10.2	<1	1.1	167.0	0.43	<0.05	9.84	0.202	0.35	3.3	72
16665		68.2	<0.002	0.09	0.37	5.9	<1	0.7	129.5	0.37	<0.05	8.86	0.165	0.34	2.6	49
16666		48.9	<0.002	0.03	0.28	4.7	<1	0.4	86.6	0.21	<0.05	3.95	0.096	0.25	1.5	24
16667		54.8	<0.002	0.04	0.24	4.1	<1	0.3	77.8	0.23	<0.05	4.16	0.101	0.28	1.3	21
16668		59.3	<0.002	0.01	0.41	3.5	<1	0.2	75.9	0.22	<0.05	3.67	0.094	0.30	1.0	22
16669		62.0	<0.002	0.01	0.56	3.9	<1	0.3	84.3	0.21	<0.05	3.52	0.098	0.34	0.9	26
16670		58.0	<0.002	0.06	0.20	4.2	<1	0.3	85.2	0.23	<0.05	3.31	0.106	0.30	1.2	27
16671		54.1	<0.002	0.04	0.23	4.2	<1	0.4	82.1	0.27	<0.05	3.90	0.124	0.26	1.5	29
16672		50.9	<0.002	0.06	0.29	5.1	<1	0.5	86.0	0.31	<0.05	4.48	0.138	0.25	2.1	29
16673		66.2	<0.002	0.06	0.33	9.6	<1	1.1	159.0	0.48	<0.05	9.69	0.215	0.34	3.2	76
16674		31.6	<0.002	0.16	0.52	19.0	1	1.0	147.5	0.39	<0.05	4.91	0.389	0.16	2.1	140
16675		0.2	<0.002	<0.01	<0.05	0.4	<1	<0.2	88.7	<0.05	<0.05	0.07	0.008	<0.02	0.1	3
16676		3.3	<0.002	0.04	0.68	23.3	<1	1.1	207	0.34	<0.05	0.61	0.982	0.06	0.3	283
16677		15.7	<0.002	0.11	0.26	21.3	1	0.8	312	0.33	<0.05	1.26	0.844	0.18	0.3	240
16678		8.7	0.002	0.12	0.13	23.7	1	0.7	251	0.34	<0.05	0.53	0.932	0.22	0.2	268
16679		2.0	0.002	0.27	0.19	21.4	1	0.7	134.5	0.34	<0.05	0.53	0.888	0.04	0.2	249
16680		2.0	<0.002	0.22	0.14	20.6	1	0.7	125.5	0.34	<0.05	0.54	0.894	0.05	0.2	252
16681		11.5	0.046	7.96	2.80	8.3	22	2.3	185.0	0.28	4.12	0.90	0.524	0.15	0.3	78
16682		4.7	0.002	0.36	0.23	30.2	1	0.8	154.5	0.23	<0.05	0.34	0.633	0.12	0.1	217
16683		0.4	<0.002	1.25	0.51	26.4	2	0.8	115.0	0.19	0.14	0.33	0.483	0.04	0.1	206
16684		0.5	0.003	1.41	0.49	32.6	2	1.6	145.0	0.19	0.35	0.64	0.470	0.02	0.2	226
16685		16.7	0.005	4.48	1.50	25.0	6	8.0	211	0.18	1.25	0.97	0.360	0.21	0.4	161
16686		6.0	0.012	2.27	1.37	14.0	4	3.8	229	0.21	1.02	2.51	0.154	0.08	0.7	58
16687		23.8	<0.002	2.52	0.74	27.1	3	2.6	139.0	0.09	0.17	0.30	0.290	0.32	0.1	175
16688		4.9	0.002	1.24	0.89	25.2	2	1.1	100.5	0.22	0.07	0.41	0.555	0.10	0.2	211
16689		1.8	<0.002	1.32	1.01	28.2	2	1.1	171.5	0.20	0.11	0.34	0.538	0.07	0.1	214
16690		1.7	<0.002	3.02	2.56	22.1	4	2.2	162.0	0.32	0.10	0.49	0.762	0.07	0.2	216
16691		8.2	0.006	1.46	0.63	24.5	2	1.9	172.0	0.16	0.12	1.11	0.347	0.14	0.4	177
16692		20.1	<0.002	0.30	0.26	34.6	1	1.1	154.5	0.26	<0.05	0.38	0.693	0.67	0.1	246
16693		1.0	<0.002	0.38	0.18	35.3	1	1.0	126.5	0.29	<0.05	0.42	0.707	0.04	0.1	250



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081761**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	0.001	0.001	0.01	0.01
16664		0.5	10.4	26	136.5			86.9	94.6
16665		0.4	9.2	17	127.5				93.9
16666		0.2	7.4	12	74.0				
16667		0.1	7.8	7	71.7				
16668		0.1	7.6	6	58.2				
16669		0.1	10.0	7	52.1				
16670		0.1	5.7	7	53.6				
16671		0.1	8.0	8	78.4				95.2
16672		0.1	8.2	8	87.7				96.8
16673		0.5	10.1	32	151.5				
16674		0.8	16.1	59	94.9				
16675		<0.1	2.0	3	1.5				
16676		0.7	32.3	134	58.1				
16677		0.6	26.7	113	81.9				
16678		0.5	28.1	132	54.6				
16679		1.5	29.6	243	68.9				
16680		0.9	28.1	155	58.5				
16681		2.1	10.1	134	52.4	1.640	4.70		
16682		0.5	15.7	138	38.0				
16683		0.3	9.6	233	35.7				
16684		0.5	10.5	407	49.0				
16685		1.1	12.8	2310	58.1				
16686		0.6	13.9	5960	85.8				
16687		0.2	11.3	357	38.2				
16688		0.8	11.6	5960	34.0				
16689		0.5	12.2	2490	33.5				
16690		1.1	16.5	9160	45.3				
16691		0.6	13.1	4280	50.9				
16692		0.4	18.8	702	31.1				
16693		0.3	23.4	157	31.9				





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19081761</b>
---

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 15%;">Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62				
Cu-OG62	ME-MS61	ME-OG62	Ni-OG62						



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 18-APR-2019  
 This copy reported on  
 24-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19081765**

Project: Gowganda

This report is for 29 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 5-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON CLYDE SMITH	FRANK PLOEGER
----------------------------	---------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 18-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081765**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16694		1.96	0.02	6.27	21.3	210	0.61	0.17	0.28	0.02	26.7	22.9	60	0.73	10.9	0.90
16695		1.91	0.04	6.08	12.4	200	0.55	0.16	0.48	0.02	30.1	17.5	62	0.70	9.5	0.93
16696		1.92	0.40	5.99	41.3	190	1.01	0.22	0.47	0.03	27.8	20.6	61	0.67	264	0.92
16697		1.88	0.41	5.99	24.9	190	0.60	0.18	0.69	<0.02	26.7	25.4	65	0.67	330	0.91
16698		1.91	0.61	6.35	33.1	230	0.81	0.23	0.21	0.04	42.6	21.9	66	0.78	1560	1.40
16699		1.72	0.15	7.20	11.1	280	1.01	0.29	0.20	0.07	60.7	19.5	77	0.84	275	2.08
16700		1.91	0.24	6.23	13.7	210	1.01	0.14	1.45	<0.02	24.4	12.0	64	0.87	278	0.99
16701		0.50	0.01	0.11	<0.2	20	0.09	0.02	33.1	0.03	1.09	0.7	4	0.05	3.3	0.13
16702		0.06	>100	4.50	714	130	0.73	60.3	0.67	27.4	31.6	9.7	33	2.71	5240	2.25
16703		1.89	0.26	6.77	13.1	290	1.01	0.32	0.61	0.03	36.0	17.1	70	0.95	11.1	1.66
16704		1.89	0.16	5.93	6.4	200	0.81	0.14	1.90	0.02	12.25	14.2	57	0.71	6.0	0.88
16705		1.97	0.12	7.11	34.1	360	1.30	0.23	0.27	<0.02	71.0	52.5	78	1.25	3.5	2.65
16706		1.88	0.34	6.49	28.0	280	1.20	0.34	1.21	0.02	31.4	32.4	68	0.95	76.5	1.58
16707		1.87	0.63	6.82	12.5	290	1.29	0.85	1.44	0.04	36.7	25.1	78	0.86	363	2.14
16708		1.71	0.30	6.48	12.6	270	1.14	0.46	0.76	0.03	36.8	34.1	71	0.75	186.0	2.07
16709		1.98	0.62	6.64	17.5	130	2.30	0.37	3.44	0.05	24.1	30.5	182	1.97	695	7.75
16710		1.99	0.12	5.41	14.4	90	1.14	0.06	7.31	0.05	14.65	55.1	178	2.77	233	9.45
16711		1.29	0.18	5.24	29.7	80	0.84	0.11	6.97	0.03	17.15	51.2	197	1.61	171.5	8.58
16712		1.58	0.14	5.07	49.6	260	0.75	0.11	7.85	0.15	13.20	76.6	301	1.71	78.2	8.48
16713		1.52	0.09	6.61	18.7	250	0.77	0.04	3.18	0.02	19.40	8.0	32	0.16	17.7	1.59
16714		1.97	0.08	4.47	73.4	30	0.79	0.05	11.15	0.04	13.15	49.9	246	0.50	134.5	8.07
16715		1.96	0.15	4.59	85.0	30	0.76	0.06	11.40	0.79	16.25	49.1	236	0.66	128.5	9.20
16716		2.08	0.56	4.88	123.0	60	0.85	0.27	10.70	3.62	18.70	51.8	265	0.75	216	7.84
16717		1.86	0.52	4.11	117.0	20	0.64	0.35	9.60	1.44	21.7	61.6	293	0.56	214	8.50
16718		1.63	0.61	3.32	91.5	50	0.71	0.70	10.40	0.56	18.30	45.7	286	0.76	121.0	6.31
16719		1.94	2.10	3.53	115.5	40	0.79	2.82	10.60	0.63	25.4	38.2	132	0.85	332	7.22
16720		0.99	7.34	5.47	247	80	1.29	13.10	5.90	1.19	29.8	90.5	132	1.15	973	14.75
16721		1.90	4.37	3.71	369	130	0.79	7.60	11.30	1.66	20.3	144.0	228	0.77	1085	7.53
16722		2.24	0.88	5.10	93.9	50	0.61	0.90	8.58	1.36	19.85	44.5	194	0.67	195.0	5.55



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 18-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081765**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16694		10.30	0.06	2.1	0.011	1.56	11.6	5.4	0.39	108	2.04	4.08	3.2	38.0	390	9.6
16695		10.30	0.07	2.2	0.011	1.51	14.8	5.4	0.40	129	2.13	3.93	3.2	29.7	370	9.0
16696		10.05	0.08	2.2	0.017	1.43	13.9	5.3	0.39	124	2.08	3.88	3.0	38.6	370	12.8
16697		10.10	0.08	2.0	0.019	1.40	11.9	5.2	0.38	152	2.20	3.89	3.0	41.0	370	11.0
16698		12.55	0.10	2.5	0.059	1.51	20.9	7.5	0.59	124	1.93	3.97	3.3	31.4	460	8.4
16699		15.95	0.11	4.0	0.025	1.69	30.2	12.8	1.04	186	1.96	4.09	4.5	35.2	620	9.8
16700		10.45	0.08	1.9	0.029	1.35	10.4	5.7	0.44	292	2.61	3.98	2.5	16.5	330	7.7
16701		0.42	0.19	0.1	<0.005	0.02	1.1	1.4	2.28	105	0.19	0.06	0.1	0.7	60	0.8
16702		20.8	0.20	2.5	5.55	0.70	16.0	21.8	0.19	238	4.41	0.45	7.6	60.5	600	1075
16703		13.85	0.17	2.9	0.017	1.63	17.2	10.4	0.85	207	2.71	3.94	3.6	24.8	500	10.3
16704		8.94	0.18	1.9	0.022	1.32	5.4	4.2	0.39	290	2.35	3.84	2.4	15.7	370	5.9
16705		18.10	0.14	3.4	0.015	1.79	33.1	15.4	1.47	260	2.46	3.50	4.6	52.8	610	10.1
16706		12.50	0.11	2.5	0.020	1.57	14.5	9.0	0.82	279	2.32	3.71	3.5	35.7	480	8.8
16707		13.25	0.13	4.5	0.043	1.60	17.2	10.4	1.15	308	4.96	3.63	4.9	39.9	560	26.7
16708		12.60	0.10	4.0	0.026	1.52	17.8	9.5	1.12	242	1.36	3.43	4.3	35.0	520	11.2
16709		14.90	0.08	1.6	0.111	0.60	10.2	44.6	3.68	970	7.70	1.80	3.6	98.5	410	737
16710		14.40	0.06	0.9	0.078	0.20	5.7	20.9	3.88	1530	1.05	1.20	4.2	105.0	400	23.8
16711		13.40	0.07	1.1	0.065	0.24	6.2	23.1	3.64	1360	1.21	1.25	3.3	105.5	410	115.5
16712		13.90	0.06	1.0	0.061	0.18	5.4	25.3	3.55	1290	0.77	1.25	3.2	151.0	340	53.8
16713		17.75	0.08	2.1	0.022	0.41	7.7	5.6	0.34	400	0.87	4.97	1.6	14.2	400	35.9
16714		12.25	0.06	0.9	0.055	0.14	5.4	37.0	2.63	1190	0.32	0.82	3.1	128.5	280	142.0
16715		13.50	0.06	1.0	0.099	0.16	6.0	35.4	2.75	1270	0.39	0.51	2.5	118.0	310	181.5
16716		13.10	0.07	1.3	0.147	0.53	7.4	30.9	2.51	1380	1.88	0.99	2.7	138.0	270	718
16717		12.70	<0.05	1.1	0.117	0.22	8.1	33.0	3.12	1120	2.07	0.15	3.1	171.0	310	300
16718		9.92	0.06	1.3	0.044	0.33	7.0	27.4	2.00	999	3.87	0.21	2.9	127.0	250	859
16719		9.14	0.08	1.4	0.061	0.33	10.0	35.5	1.44	1030	9.36	0.44	2.2	89.7	260	2840
16720		16.85	0.09	3.0	0.161	0.48	11.8	80.3	2.30	905	17.80	0.24	3.1	189.0	160	4970
16721		9.82	0.06	1.4	0.183	0.90	7.9	17.8	1.02	976	32.6	0.59	1.7	182.5	290	2380
16722		12.15	0.06	1.8	0.100	0.63	7.6	15.2	1.60	826	14.15	1.69	3.1	106.5	340	293



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 18-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081765**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16694		55.5	<0.002	0.01	0.23	4.3	<1	0.3	81.5	0.30	<0.05	4.56	0.125	0.36	1.5	24
16695		53.3	<0.002	0.04	0.18	4.5	<1	0.3	78.0	0.31	<0.05	4.48	0.127	0.30	1.3	25
16696		50.4	<0.002	0.06	0.26	4.7	1	0.4	75.6	0.30	<0.05	4.61	0.116	0.32	1.4	23
16697		49.3	<0.002	0.08	0.22	5.0	1	0.4	79.5	0.30	<0.05	4.23	0.114	0.32	1.7	22
16698		54.8	<0.002	0.22	0.32	4.6	1	0.6	96.8	0.31	<0.05	5.51	0.129	0.29	2.0	32
16699		60.7	<0.002	0.11	0.34	6.6	1	0.8	117.5	0.45	<0.05	8.96	0.181	0.39	3.0	54
16700		53.2	<0.002	0.07	0.27	5.9	1	0.4	103.5	0.24	<0.05	4.49	0.106	0.31	1.6	25
16701		0.7	<0.002	<0.01	0.08	0.2	<1	<0.2	78.6	<0.05	<0.05	0.09	0.006	<0.02	0.1	1
16702		29.1	0.002	2.20	88.1	4.1	33	5.9	484	0.59	43.2	6.33	0.227	1.85	2.4	34
16703		60.0	<0.002	0.07	0.43	5.8	<1	0.7	128.5	0.34	0.05	6.40	0.147	0.35	2.2	46
16704		44.4	<0.002	0.04	0.33	5.8	1	0.3	98.8	0.24	<0.05	3.90	0.099	0.28	1.5	22
16705		67.5	<0.002	0.04	0.86	7.7	<1	0.9	161.0	0.44	<0.05	8.30	0.185	0.38	2.5	69
16706		57.1	<0.002	0.06	0.49	6.1	1	0.6	130.5	0.32	<0.05	5.54	0.138	0.36	2.4	40
16707		55.2	0.025	0.13	0.53	8.5	1	0.8	133.5	0.47	<0.05	8.48	0.216	0.34	3.8	57
16708		52.6	<0.002	0.10	0.33	7.7	<1	0.7	117.0	0.40	<0.05	7.98	0.189	0.32	3.3	55
16709		23.4	<0.002	0.17	0.70	28.4	<1	0.9	98.0	0.28	<0.05	2.78	0.454	0.17	1.0	194
16710		13.1	<0.002	0.20	0.35	32.5	1	0.8	147.0	0.27	<0.05	0.56	0.675	0.26	0.2	233
16711		9.2	0.002	0.39	0.63	29.0	1	0.8	112.5	0.22	0.08	0.88	0.548	0.13	0.3	202
16712		8.5	<0.002	0.08	0.65	33.7	1	0.6	142.0	0.21	<0.05	0.48	0.604	0.13	0.2	224
16713		5.0	<0.002	0.20	0.42	4.1	1	0.5	279	0.11	<0.05	1.49	0.168	0.06	0.4	37
16714		2.1	0.002	0.22	1.09	34.9	1	0.7	118.0	0.20	0.05	0.31	0.576	0.02	0.1	217
16715		2.6	<0.002	0.17	1.55	31.4	1	0.9	91.3	0.18	<0.05	0.35	0.483	0.02	0.1	217
16716		11.6	<0.002	0.91	2.78	27.9	2	1.2	109.0	0.19	0.12	0.74	0.450	0.16	0.3	195
16717		6.3	0.002	0.84	3.88	29.1	1	0.7	71.4	0.23	0.08	0.46	0.536	0.31	0.2	218
16718		10.3	<0.002	0.81	2.09	19.0	1	0.8	74.8	0.21	0.11	1.11	0.365	0.18	0.3	148
16719		9.7	0.002	1.65	4.66	14.1	2	0.8	66.3	0.16	0.23	1.41	0.203	0.26	0.5	93
16720		12.4	0.008	4.77	7.83	15.6	5	3.7	67.8	0.24	1.36	3.55	0.148	0.47	1.1	110
16721		19.6	0.004	4.66	6.35	20.4	3	1.2	124.0	0.13	0.87	0.97	0.258	0.24	0.4	146
16722		12.8	0.002	1.49	2.31	20.0	2	1.5	124.0	0.24	0.31	1.24	0.384	0.17	0.3	152



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 18-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081765**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Pass2mm % 0.01	Pass75um % 0.01
16694		0.2	9.2	13	75.3		78.1	94.0
16695		0.1	10.5	12	78.2			96.4
16696		1.6	12.0	10	76.6			
16697		1.9	7.1	7	70.6			
16698		2.2	6.2	16	95.0			
16699		0.6	8.5	32	147.0			
16700		0.5	8.6	11	69.6			
16701		<0.1	2.0	8	2.0			
16702		12.1	6.4	4340	84.7	121		
16703		0.4	8.5	19	105.0			
16704		0.5	8.0	10	67.4			
16705		0.4	8.4	23	122.0			
16706		0.3	8.6	17	91.4			
16707		0.5	14.1	24	165.5			
16708		0.5	12.4	20	147.0			
16709		0.9	15.5	82	76.5			
16710		0.5	19.7	99	28.9			
16711		0.9	17.8	96	37.9			
16712		2.2	15.9	93	33.7			
16713		2.0	4.6	17	75.0			
16714		6.1	14.8	93	30.7			
16715		1.6	12.4	449	33.4			
16716		1.5	12.6	1580	43.2			
16717		1.5	11.2	690	38.6			
16718		1.3	10.8	257	48.3			
16719		1.5	16.1	291	52.1			
16720		2.6	21.3	659	119.0			
16721		2.1	16.3	698	50.5			
16722		1.0	11.3	625	75.2			



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
THE PACIFIC BUILDING  
SUITE 400, 744 WEST HASTINGS STREET  
VANCOUVER BC V6C 1A5

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 18-APR-2019  
Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081765**

	<b>CERTIFICATE COMMENTS</b>								
	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Applies to Method: REE's may not be totally soluble in this method. ME-MS61</p>								
	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table><tr><td>CRU-31</td><td>CRU-QC</td><td>LOG-22</td><td>LOG-24</td></tr><tr><td>PUL-31</td><td>PUL-QC</td><td>SPL-21</td><td>WEI-21</td></tr></table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
	<p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table><tr><td>Ag-OG62</td><td>ME-MS61</td><td>ME-OG62</td></tr></table>	Ag-OG62	ME-MS61	ME-OG62					
Ag-OG62	ME-MS61	ME-OG62							



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 This copy reported on  
 24-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19081769**

Project: Gowganda

This report is for 12 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 5-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON CLYDE SMITH	FRANK PLOEGER
----------------------------	---------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081769**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16723		1.95	0.05	6.47	13.5	260	1.15	0.18	0.57	<0.02	32.6	12.4	63	0.89	7.8	1.34
16724		1.87	0.09	6.76	11.6	300	1.38	0.31	0.24	<0.02	54.2	30.9	98	1.13	10.5	2.80
16725		0.48	<0.01	0.07	<0.2	20	0.07	0.01	31.5	<0.02	1.04	1.0	5	<0.05	1.6	0.10
16726		2.16	0.76	6.49	15.7	90	2.48	1.06	3.69	0.08	26.3	42.0	281	2.12	1085	7.28
16727		2.14	0.07	4.16	22.1	10	0.66	0.04	6.70	0.12	10.10	86.7	1420	0.34	89.9	8.91
16728		2.07	0.04	4.00	18.6	10	0.54	0.02	6.16	0.12	9.69	69.0	1310	0.71	8.3	7.55
16729		1.04	0.15	5.99	1.7	410	1.20	0.07	3.15	0.03	61.4	39.9	589	6.22	21.2	7.94
16730		2.08	0.11	4.20	38.9	50	0.72	0.04	5.22	0.18	12.25	81.3	1260	2.57	91.3	8.34
16731		1.92	0.24	3.80	52.4	10	0.63	0.03	8.81	2.57	14.65	73.8	1250	1.30	58.3	6.84
16732		2.11	0.74	5.11	41.1	10	0.69	0.07	5.83	3.28	21.3	67.4	674	1.32	228	8.44
16733		1.76	0.57	4.97	67.3	10	0.59	0.11	7.63	3.72	17.50	66.8	710	0.90	203	9.02
16734		2.11	0.11	5.24	14.0	40	0.55	0.05	6.80	0.12	14.50	57.2	238	2.26	131.0	9.31



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19081769</b>
---

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
16723		12.05	0.08	2.4	0.011	1.59	15.8	7.7	0.66	194	2.15	3.88	3.0	25.4	450	13.9
16724		16.30	0.16	4.6	0.021	1.52	25.9	18.4	1.60	265	1.20	3.20	4.8	64.1	500	16.6
16725		0.28	0.14	<0.1	<0.005	0.01	1.2	1.4	1.04	68	0.26	0.03	0.1	<0.2	60	<0.5
16726		16.85	0.08	1.9	0.163	0.43	12.9	55.5	4.92	1280	1.08	1.55	3.8	149.5	430	23.2
16727		11.00	0.06	1.2	0.062	0.04	4.1	10.8	10.40	1580	0.27	0.21	2.0	711	240	8.7
16728		11.50	0.05	1.2	0.072	0.07	3.6	23.9	11.20	1330	0.24	0.26	2.2	677	180	1.6
16729		15.80	0.14	3.0	0.049	1.25	26.2	73.2	9.91	864	1.83	0.83	4.2	194.5	2330	5.6
16730		11.90	0.06	1.2	0.075	0.26	5.2	42.3	10.70	1180	0.90	0.15	2.3	613	260	3.7
16731		10.35	0.05	1.2	0.166	0.03	6.9	33.9	8.22	1590	0.55	0.06	2.1	630	210	141.5
16732		14.20	0.07	1.7	0.282	0.02	8.6	44.5	5.14	1120	2.39	0.81	3.7	323	340	477
16733		15.15	0.06	1.6	0.339	0.01	7.0	38.0	5.00	1260	1.38	0.38	3.3	309	330	751
16734		14.80	0.07	1.1	0.079	0.18	5.4	20.4	5.17	1270	0.93	1.36	4.3	127.0	350	8.4



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081769**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16723		59.5	<0.002	0.02	0.20	5.7	<1	0.5	110.5	0.28	<0.05	5.22	0.122	0.30	1.9	35
16724		56.5	0.002	0.09	0.30	9.7	1	0.8	134.0	0.47	<0.05	9.51	0.203	0.33	3.2	62
16725		0.3	<0.002	<0.01	<0.05	0.2	2	<0.2	80.0	<0.05	<0.05	0.09	0.005	<0.02	0.1	1
16726		20.7	0.002	0.27	0.80	31.1	<1	0.9	86.5	0.27	0.05	2.55	0.487	0.14	0.8	209
16727		1.0	<0.002	0.02	0.44	26.6	1	0.5	38.4	0.14	<0.05	0.36	0.374	0.02	0.1	171
16728		2.2	<0.002	<0.01	0.30	26.1	<1	0.4	25.7	0.15	<0.05	0.38	0.376	0.04	0.1	173
16729		77.8	<0.002	0.01	0.26	24.8	<1	1.1	158.0	0.27	<0.05	5.53	0.411	0.58	1.6	156
16730		12.6	0.002	0.01	0.38	28.2	<1	0.6	25.0	0.16	<0.05	0.43	0.401	0.26	0.1	180
16731		2.1	0.002	0.07	0.41	25.1	1	0.8	43.5	0.15	0.08	0.40	0.351	0.03	0.1	157
16732		1.3	0.006	1.73	1.21	27.5	6	1.1	58.5	0.25	0.17	0.84	0.517	0.05	0.3	191
16733		0.9	<0.002	1.86	2.16	27.3	5	1.3	77.3	0.23	0.15	0.77	0.478	0.04	0.2	190
16734		11.0	<0.002	0.34	0.26	33.7	1	1.0	95.6	0.29	0.06	0.44	0.641	0.19	0.1	235



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081769**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
16723		0.3	9.0	12	86.8	74.9	94.5
16724		0.7	9.6	26	152.5		99.3
16725		<0.1	2.0	2	1.5		
16726		1.3	19.9	87	62.2		
16727		0.2	12.5	154	40.4		
16728		0.2	12.7	150	37.3	85.3	
16729		0.8	17.7	102	105.5		
16730		0.2	13.0	169	38.6		
16731		0.1	13.1	1080	38.2		
16732		0.2	19.7	1340	56.8		
16733		0.7	16.2	1600	52.7		
16734		0.3	21.1	171	34.1		



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
THE PACIFIC BUILDING  
SUITE 400, 744 WEST HASTINGS STREET  
VANCOUVER BC V6C 1A5

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 17-APR-2019  
Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081769**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
CRU-31 CRU-QC LOG-22 PUL-31  
PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
ME-MS61



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16-APR-2019  
 This copy reported on  
 24-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19081775**

Project: Gowganda

This report is for 16 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 5-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON CLYDE SMITH	FRANK PLOEGER
----------------------------	---------------------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Co-OG62	Ore Grade Co - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081775**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16735		1.88	0.04	7.02	5.1	310	1.43	0.18	0.44	<0.02	56.7	22.2	92	1.42	129.0	3.42
16736		1.90	0.08	6.94	6.8	320	1.53	0.30	0.36	0.04	61.6	33.9	87	1.53	108.5	3.38
16737		1.80	0.13	6.73	8.2	280	1.05	0.40	0.68	0.03	45.0	16.4	94	1.09	167.5	2.65
16738		1.49	0.15	7.30	17.0	350	2.08	0.58	0.62	0.02	55.7	33.8	85	1.56	180.0	3.45
16739		1.07	0.25	7.46	395	360	1.63	3.33	0.46	0.02	70.9	317	88	1.62	5.1	3.58
16740		0.87	0.24	7.54	419	360	1.84	3.28	0.79	0.03	66.2	307	88	1.57	3.9	3.58
16741		0.06	>100	4.34	654	310	0.86	57.4	0.61	25.1	30.6	11.0	34	2.93	4800	2.08
16742		1.54	0.61	7.28	1690	350	1.89	13.40	0.88	0.05	69.6	1015	87	1.43	15.9	3.64
16743		0.46	0.03	0.08	5.8	20	0.05	0.08	30.3	<0.02	1.28	4.9	5	<0.05	2.2	0.12
16744		0.07	0.79	6.96	2.9	240	1.03	0.07	5.39	0.79	37.7	>10000	173	0.78	1775	6.76
16745		1.87	0.12	6.69	37.6	270	1.44	0.79	1.25	0.04	59.0	46.6	78	1.26	450	3.64
16746		1.90	0.05	3.89	34.0	10	0.66	0.13	5.97	0.09	11.90	100.5	1830	0.24	113.0	8.26
16747		2.15	0.12	4.33	37.2	290	0.52	0.02	6.90	0.33	11.15	90.2	1360	0.79	197.5	8.51
16748		1.95	0.04	6.97	2.6	210	0.69	0.02	5.54	0.12	19.90	56.0	29	0.32	81.6	10.65
16749		2.40	0.11	5.80	3.8	60	0.52	0.02	7.17	0.20	18.65	61.6	255	0.16	141.5	10.30
16750		2.35	0.15	5.68	14.6	50	0.51	0.03	6.25	0.98	16.10	64.6	228	0.14	250	10.70



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081775**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.1	In ppm 0.005	K % 0.01	La ppm 0.5	Li ppm 0.2	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.1	Ni ppm 0.2	P ppm 10	Pb ppm 0.5
16735		18.25	0.14	4.0	0.035	1.52	26.7	23.2	1.98	352	2.06	3.13	5.3	53.8	490	7.6
16736		18.05	0.17	4.3	0.030	1.59	29.4	25.2	2.02	360	1.21	2.96	6.6	85.8	550	11.2
16737		14.30	0.12	3.7	0.026	1.43	21.7	16.9	1.50	336	3.00	3.23	4.8	52.4	500	9.0
16738		19.75	0.15	3.8	0.032	1.65	25.9	27.7	1.97	400	2.97	3.14	7.0	71.6	570	12.8
16739		20.0	0.13	4.0	0.033	1.69	33.4	26.9	2.06	415	6.21	3.20	7.9	154.0	640	11.2
16740		20.3	0.16	3.9	0.041	1.69	31.9	29.6	2.04	450	6.70	3.23	7.6	161.5	630	10.2
16741		22.0	0.19	2.7	5.25	0.64	15.3	22.1	0.18	218	4.55	0.43	8.2	61.5	540	978
16742		19.50	0.15	4.1	0.052	1.56	33.5	30.2	2.18	532	16.95	3.04	7.6	944	570	17.7
16743		0.35	0.15	<0.1	<0.005	0.01	1.3	1.9	1.30	76	0.35	0.03	0.1	2.9	50	<0.5
16744		19.10	0.16	3.5	0.063	0.63	18.4	7.0	3.52	918	2.77	2.07	21.2	>10000	1400	17.9
16745		16.40	0.14	4.4	0.074	1.25	28.3	20.8	2.45	607	1.21	2.85	7.2	129.5	550	12.2
16746		11.05	0.05	1.4	0.076	0.04	5.0	6.1	11.05	1620	0.35	0.17	2.1	893	230	2.4
16747		14.10	0.07	1.1	0.103	0.31	4.1	27.1	9.70	1280	0.96	0.32	2.4	678	220	58.8
16748		19.40	0.11	2.4	0.160	0.26	7.9	15.9	3.45	971	0.69	2.73	6.1	61.7	510	2.8
16749		17.10	0.10	1.5	0.105	0.17	7.7	5.1	4.56	1080	0.74	2.01	4.9	126.0	400	6.7
16750		16.25	0.10	1.7	0.077	0.15	6.3	12.4	4.46	1400	0.56	2.21	4.6	121.5	370	4.0





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081775**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16735		59.4	<0.002	0.11	0.27	12.2	1	1.0	151.0	0.51	<0.05	9.13	0.225	0.34	3.4	80
16736		63.6	<0.002	0.07	0.55	10.7	1	1.1	146.0	0.62	<0.05	11.85	0.232	0.36	3.8	74
16737		51.4	<0.002	0.10	0.38	9.0	1	0.9	145.0	0.45	<0.05	8.87	0.215	0.30	3.5	64
16738		66.5	<0.002	0.06	0.36	12.5	<1	1.1	157.0	0.62	<0.05	10.60	0.250	0.40	3.5	75
16739		64.5	0.002	0.06	0.78	11.3	1	1.2	158.0	0.70	<0.05	11.65	0.274	0.38	4.1	76
16740		64.5	<0.002	0.05	0.76	12.1	1	1.0	162.0	0.69	<0.05	11.00	0.267	0.38	4.0	76
16741		28.7	<0.002	2.00	83.4	4.5	32	5.5	424	0.63	39.8	6.95	0.205	1.80	2.4	32
16742		59.9	0.003	0.09	4.59	11.7	<1	0.9	158.0	0.66	0.07	10.35	0.267	0.36	4.7	78
16743		0.4	<0.002	<0.01	0.07	0.2	1	<0.2	75.3	<0.05	<0.05	0.11	0.005	<0.02	0.2	1
16744		21.4	<0.002	2.53	1.89	18.5	1	1.3	378	1.34	<0.05	2.81	0.963	0.09	0.6	139
16745		49.1	<0.002	0.14	0.59	11.4	1	1.1	140.0	0.64	<0.05	9.34	0.246	0.28	3.5	64
16746		1.3	0.002	0.02	0.78	25.7	<1	0.4	27.7	0.14	<0.05	0.62	0.336	0.03	0.2	158
16747		9.2	<0.002	0.02	0.51	28.6	1	0.4	24.2	0.16	<0.05	0.48	0.419	0.17	0.1	185
16748		3.6	<0.002	0.08	0.15	28.7	1	1.4	161.5	0.40	<0.05	0.63	0.835	0.06	0.2	260
16749		1.6	0.002	0.46	0.28	36.3	1	1.5	134.0	0.32	<0.05	0.52	0.716	0.08	0.2	251
16750		1.4	0.003	0.20	0.13	34.4	1	1.0	90.2	0.30	<0.05	0.47	0.690	0.04	0.1	245



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 16-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081775**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	Co-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	Co %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.0005	0.001	0.01	0.01
16735		0.5	9.7	33	126.0				86.9	91.8
16736		0.6	9.4	36	136.5					95.1
16737		0.5	7.9	31	122.0					
16738		0.8	12.3	36	122.0					
16739		0.7	9.1	37	128.5					
16740		0.7	10.3	39	123.5					
16741		12.6	6.6	3950	81.8	116				
16742		0.7	12.2	45	137.5					
16743		<0.1	1.9	4	1.5					
16744		1.7	20.5	119	126.5		2.06	2.22		
16745		0.6	11.9	44	144.0					
16746		0.4	13.1	115	46.2					
16747		0.2	14.9	287	38.7					
16748		0.2	28.6	160	105.5					
16749		0.1	23.7	203	57.7					
16750		0.3	22.2	457	50.3					

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 16-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19081775**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	<p>REE's may not be totally soluble in this method.            ME-MS61</p>								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 33%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> </tr> <tr> <td>Ni-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	Ag-OG62	Co-OG62	ME-MS61	ME-OG62	Ni-OG62			
Ag-OG62	Co-OG62	ME-MS61	ME-OG62						
Ni-OG62									



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19091130**

Project: Gowganda

This report is for 25 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
15753		1.85	0.06	7.01	4.2	290	1.36	0.16	0.75	<0.02	44.5	24.7	161	1.35	8.2	4.07
15754		1.86	0.06	5.99	4.9	210	1.34	0.13	2.68	<0.02	46.7	30.5	592	0.89	75.1	4.35
15755		1.78	0.05	6.60	5.6	250	1.08	0.14	1.84	<0.02	43.4	25.9	319	1.04	66.1	3.85
15756		1.84	0.03	7.08	21.5	150	1.56	0.07	1.06	<0.02	27.8	50.2	73	0.95	223	7.40
15757		1.73	0.06	6.80	15.9	340	1.55	0.17	0.29	<0.02	40.2	29.6	79	1.27	102.0	3.38
15758		1.82	0.06	7.64	7.6	370	1.52	0.20	0.37	<0.02	58.4	20.9	88	1.48	62.4	4.02
15759		0.89	0.06	8.07	11.1	420	2.12	0.18	0.38	0.02	55.1	23.5	96	1.83	38.1	4.37
15760		0.78	0.06	7.89	9.5	430	2.20	0.34	0.39	<0.02	41.5	23.5	101	1.87	28.8	4.53
15761		0.06	>100	4.36	688	240	0.82	60.3	0.64	24.9	32.1	10.2	33	2.67	5220	2.19
15762		1.47	0.16	7.30	19.7	400	1.88	0.18	0.37	0.03	37.6	30.9	85	1.39	48.2	3.87
15763		1.96	0.09	7.60	10.5	410	1.80	0.20	0.38	0.04	56.4	31.2	79	1.46	127.0	4.01
15764		2.00	0.08	7.42	2.0	380	2.09	0.17	0.57	0.05	45.2	20.5	84	1.76	89.4	4.31
15765		2.67	0.10	5.63	5.8	190	1.54	0.25	3.60	<0.02	26.7	39.0	492	1.17	228	5.16
15766		2.04	0.06	1.50	1.6	60	1.07	0.09	5.17	0.02	2.75	131.0	3030	0.36	199.5	8.40
15767		1.95	0.05	1.44	3.7	<10	0.19	0.04	3.61	<0.02	2.75	134.5	3210	0.40	50.3	8.70
15768		2.33	0.05	1.59	3.1	<10	0.05	0.01	3.97	0.03	2.41	115.0	2760	0.48	13.9	7.74
15769		2.19	0.04	1.74	12.2	10	0.06	0.02	4.83	0.05	2.83	115.5	3060	0.46	23.7	8.29
15770		2.28	0.06	1.70	2.0	<10	0.13	0.01	2.86	0.07	3.54	125.0	2740	0.38	38.3	8.73
15771		2.33	0.06	1.73	1.2	<10	0.10	0.01	4.00	0.06	3.30	125.0	2600	0.35	52.3	8.42
15772		2.36	0.06	4.53	5.3	160	0.94	0.02	5.14	0.05	38.2	82.2	1340	1.97	65.2	7.98
15773		2.01	0.07	2.30	4.6	10	0.15	0.02	7.50	0.12	4.11	106.0	1960	0.35	64.4	7.47
15774		1.61	0.07	2.16	38.7	10	0.14	0.01	2.65	0.08	4.07	126.0	2570	0.59	87.5	9.43
15775		0.57	0.02	0.05	3.2	10	0.05	0.01	35.5	<0.02	0.75	1.2	16	<0.05	1.9	0.11
15776		2.49	0.10	2.06	41.1	10	0.16	0.01	6.84	0.10	3.73	96.7	1990	0.47	32.1	7.43
15777		2.53	0.04	2.78	54.1	<10	0.19	0.01	4.73	0.12	6.25	110.0	1980	0.72	42.5	8.79



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
15753		16.85	0.10	3.2	0.043	1.44	21.7	24.0	2.52	536	1.28	2.88	4.4	87.5	570	7.2
15754		14.70	0.11	3.1	0.091	1.10	22.6	19.7	2.87	1140	1.51	2.46	4.1	206	430	5.4
15755		15.90	0.11	3.6	0.065	1.34	21.9	21.3	2.43	818	1.41	2.88	4.3	127.0	560	6.2
15756		18.15	0.08	2.2	0.051	1.02	12.6	40.6	2.95	920	0.51	2.08	4.6	74.1	590	4.0
15757		17.30	0.10	3.3	0.033	1.70	19.2	21.6	1.81	333	1.00	3.07	5.3	65.5	570	9.6
15758		19.15	0.15	3.6	0.033	1.84	28.2	27.1	2.18	386	1.03	3.19	6.2	55.0	640	8.3
15759		20.5	0.17	2.8	0.037	1.93	26.7	32.3	2.48	421	1.48	3.16	6.4	62.9	530	13.8
15760		20.7	0.13	2.9	0.045	1.96	18.3	33.6	2.54	436	1.48	3.16	6.9	63.6	540	12.1
15761		21.9	0.18	2.4	5.43	0.70	16.4	22.0	0.19	227	4.77	0.44	7.4	61.7	580	1040
15762		16.70	0.13	2.9	0.035	1.85	16.6	25.7	2.19	373	1.13	3.08	6.4	67.9	570	15.2
15763		18.00	0.15	3.4	0.049	1.89	26.8	29.0	2.33	409	1.24	3.03	6.3	65.8	580	11.2
15764		18.30	0.11	2.6	0.045	1.69	21.1	30.9	2.73	494	1.94	2.80	6.3	80.6	520	11.1
15765		13.60	0.09	1.8	0.083	0.92	11.9	26.9	4.37	1100	0.98	1.88	3.9	381	380	5.4
15766		4.66	0.06	0.2	0.055	0.01	1.3	5.0	16.10	1420	0.38	0.01	0.6	1695	30	1.7
15767		4.29	<0.05	0.1	0.020	0.01	1.1	3.2	16.95	1160	0.43	0.01	0.6	1735	40	1.0
15768		4.53	<0.05	0.2	0.020	<0.01	1.0	3.3	16.05	1280	0.06	0.01	0.6	1595	<10	1.6
15769		4.62	<0.05	0.2	0.023	<0.01	1.1	3.1	15.35	1180	0.08	0.01	0.7	1545	50	1.4
15770		4.78	<0.05	0.1	0.025	0.01	1.3	2.0	17.45	1260	0.05	0.01	0.8	1610	110	3.3
15771		4.73	0.05	0.2	0.025	0.01	1.3	2.2	16.85	1300	0.05	0.01	0.8	1530	100	16.7
15772		10.75	0.10	1.9	0.044	0.54	16.2	26.8	12.95	1340	0.05	0.03	2.9	779	1640	2.8
15773		5.35	0.06	0.3	0.026	0.01	1.7	3.4	15.00	1430	<0.05	0.01	1.2	1250	160	3.8
15774		5.84	<0.05	0.3	0.033	0.02	1.6	2.9	17.05	1390	0.07	0.02	1.0	1505	120	3.1
15775		0.18	0.05	<0.1	0.006	0.01	1.0	1.0	0.95	92	0.07	0.02	0.1	8.1	50	0.9
15776		5.71	<0.05	0.3	0.026	0.01	1.3	2.9	14.35	1320	<0.05	0.04	0.9	1235	30	4.1
15777		7.81	0.06	0.7	0.034	0.02	2.3	2.6	14.70	1390	0.09	0.09	1.6	1155	170	5.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
15753		52.1	<0.002	0.11	0.24	13.1	<1	0.9	155.5	0.41	<0.05	7.16	0.266	0.27	2.4	101
15754		38.8	<0.002	0.20	0.24	13.0	<1	0.8	126.5	0.38	<0.05	6.11	0.253	0.23	2.4	88
15755		46.0	<0.002	0.11	0.24	12.3	1	0.9	149.0	0.41	<0.05	7.22	0.262	0.29	2.7	81
15756		43.6	<0.002	0.07	0.37	29.8	<1	1.0	77.2	0.30	<0.05	2.43	0.471	0.16	0.8	214
15757		55.1	<0.002	0.05	0.20	9.0	<1	1.1	143.0	0.50	<0.05	7.46	0.217	0.37	3.0	69
15758		63.3	<0.002	0.08	0.25	10.9	<1	1.3	162.0	0.56	<0.05	9.83	0.258	0.38	3.9	80
15759		63.3	<0.002	0.05	0.36	12.2	<1	1.5	178.5	0.56	0.05	8.93	0.265	0.35	3.1	85
15760		46.0	0.003	0.06	0.37	12.1	1	1.6	178.5	0.58	0.05	7.22	0.277	0.40	3.1	89
15761		28.5	<0.002	2.13	86.8	4.2	35	6.1	465	0.57	41.6	6.79	0.216	1.70	2.3	33
15762		41.7	<0.002	0.05	0.37	9.6	1	1.2	158.5	0.53	<0.05	5.86	0.265	0.31	3.0	77
15763		61.1	<0.002	0.09	0.31	11.3	<1	1.2	175.5	0.54	<0.05	8.06	0.278	0.39	3.3	80
15764		53.7	<0.002	0.06	0.29	10.1	<1	1.2	173.0	0.55	<0.05	8.49	0.242	0.33	2.9	75
15765		35.3	0.002	0.20	0.34	11.2	<1	0.8	112.5	0.34	<0.05	5.41	0.233	0.20	1.9	84
15766		0.6	<0.002	0.05	0.25	12.0	1	0.2	28.5	<0.05	<0.05	0.18	0.129	<0.02	<0.1	79
15767		0.6	<0.002	0.11	0.29	12.1	<1	0.2	24.1	<0.05	<0.05	0.15	0.143	<0.02	<0.1	76
15768		0.6	<0.002	0.03	0.21	11.4	<1	<0.2	34.2	<0.05	<0.05	0.12	0.140	<0.02	<0.1	80
15769		0.5	<0.002	0.04	0.24	11.2	<1	<0.2	43.0	0.05	<0.05	0.11	0.153	<0.02	0.1	86
15770		0.5	<0.002	0.04	0.35	13.1	<1	0.2	17.4	0.06	<0.05	0.15	0.172	<0.02	<0.1	86
15771		1.3	<0.002	0.04	0.35	12.8	<1	0.2	39.2	0.05	<0.05	0.15	0.164	<0.02	<0.1	83
15772		26.9	<0.002	0.01	0.26	22.0	<1	0.8	183.0	0.19	<0.05	3.01	0.356	0.20	1.0	143
15773		1.3	<0.002	0.06	0.34	14.3	1	0.2	130.5	0.08	<0.05	0.19	0.272	0.03	<0.1	92
15774		1.5	<0.002	0.05	0.56	15.9	<1	0.3	14.9	0.07	<0.05	0.18	0.206	0.03	0.1	104
15775		0.3	<0.002	<0.01	0.41	0.2	<1	<0.2	94.5	<0.05	<0.05	0.07	0.005	<0.02	0.2	1
15776		0.9	<0.002	0.06	0.46	14.7	<1	0.2	45.8	0.06	<0.05	0.13	0.199	0.03	<0.1	94
15777		1.3	<0.002	0.04	0.38	21.7	<1	0.3	22.5	0.10	<0.05	0.26	0.282	0.02	0.1	124



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19091130</b>
---

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
15753		0.5	8.5	43	124.5		86.6	96.8
15754		0.7	13.7	56	120.0			97.0
15755		0.7	10.5	46	138.5			
15756		1.7	17.8	83	87.9		74.8	
15757		0.6	7.3	34	123.5			
15758		0.6	7.5	38	136.0			
15759		1.0	7.9	44	106.0			
15760		1.1	6.8	46	104.0			
15761		12.8	6.0	4160	88.6	116		
15762		0.9	9.4	44	116.0			
15763		0.9	10.3	47	130.0			
15764		0.5	6.6	54	94.6			
15765		0.7	8.7	54	75.2			
15766		0.2	3.5	105	5.0			
15767		0.3	3.3	94	5.2			
15768		0.2	3.6	74	8.6			
15769		0.6	3.7	82	8.7			
15770		0.3	4.8	90	2.2			
15771		0.3	4.3	88	4.2			
15772		0.7	13.2	84	76.4			
15773		0.5	5.4	78	10.1			
15774		0.4	5.7	108	8.2			
15775		<0.1	1.8	3	1.1			
15776		1.0	6.2	90	10.9			
15777		0.4	9.2	110	24.9			







ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 This copy reported on  
 10-MAY-2019  
 Account: BMRPLLW

**CERTIFICATE SD19091115**

Project: Gowganda

This report is for 17 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091115**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16848		1.72	0.04	6.51	2.5	240	1.17	0.14	0.68	<0.02	42.3	14.7	95	0.97	73.2	2.84
16849		1.80	0.04	6.59	2.5	260	1.19	0.13	1.28	<0.02	48.5	24.3	114	1.12	11.5	3.69
16850		1.76	0.06	7.40	5.7	410	2.24	0.19	0.38	<0.02	42.6	22.9	92	1.71	32.4	4.29
16851		1.85	0.10	6.97	24.5	380	1.95	0.21	0.43	0.03	34.0	41.8	80	1.50	58.0	4.55
16852		0.23	0.40	3.78	81.4	40	3.63	0.15	9.27	0.05	44.0	109.0	4280	0.57	961	10.85
16853		2.85	0.10	2.21	8.9	10	1.06	0.08	10.80	<0.02	7.39	97.4	2640	0.39	284	7.87
16854		2.16	0.08	2.12	23.0	<10	0.13	0.02	7.15	0.04	4.17	105.0	2160	0.36	104.5	7.69
16855		2.42	0.07	2.17	32.5	<10	0.14	0.02	4.01	0.05	4.11	116.0	2300	0.51	58.6	8.97
16856		2.37	0.07	2.21	32.7	<10	0.13	0.02	5.27	0.04	3.75	119.5	2410	0.55	29.8	8.91
16857		2.59	0.06	2.33	23.2	<10	0.17	0.02	4.60	0.08	4.70	105.0	2180	0.62	43.6	8.59
16858		2.27	0.07	2.36	34.2	<10	0.19	0.01	4.07	0.08	4.83	118.0	2210	0.80	65.8	8.86
16859		0.97	0.06	2.62	36.6	<10	0.22	0.01	3.77	0.10	5.45	124.5	2470	0.84	68.3	9.64
16860		1.23	0.06	2.39	21.1	<10	0.17	0.01	3.79	0.09	4.98	106.5	2240	0.76	66.6	9.00
16861		0.07	>100	4.40	685	390	0.79	60.1	0.64	25.0	32.5	10.0	34	2.63	5230	2.20
16862		2.02	0.18	3.14	13.1	10	0.13	0.04	4.47	0.09	5.23	85.0	1530	0.23	33.3	8.69
16863		1.90	0.10	4.24	4.5	400	0.28	0.02	5.53	0.28	6.90	89.6	1070	5.38	214	9.46
16864		1.95	0.15	5.87	7.6	170	1.57	0.06	5.33	0.09	41.8	94.4	396	0.74	245	7.40



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091115**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16848		13.65	0.08	2.6	0.030	1.33	20.4	15.5	1.59	356	1.21	3.27	3.5	43.6	420	5.8
16849		14.90	0.11	3.3	0.050	1.30	23.6	20.5	2.28	552	1.11	2.92	4.3	83.5	480	5.9
16850		19.15	0.10	3.0	0.052	1.81	18.1	28.4	2.48	430	1.33	2.98	7.4	67.2	580	11.2
16851		17.25	0.12	2.9	0.050	1.51	14.9	28.9	2.87	590	1.06	2.67	6.1	182.0	540	10.2
16852		13.65	0.11	0.7	0.328	0.11	23.4	22.2	6.76	2860	0.34	0.11	1.9	1270	100	3.1
16853		6.11	0.05	0.4	0.102	0.01	3.8	7.5	11.15	2370	0.45	0.01	0.8	1330	120	2.7
16854		5.61	0.05	0.2	0.024	0.01	1.7	4.8	14.35	1440	0.20	0.01	1.0	1255	90	1.6
16855		6.17	0.05	0.3	0.028	0.01	1.6	4.9	15.45	1340	0.09	0.01	1.0	1390	120	2.3
16856		6.01	<0.05	0.2	0.030	0.01	1.4	4.5	14.70	1400	0.10	0.01	1.0	1395	120	4.5
16857		6.10	0.05	0.3	0.031	0.01	1.9	4.4	15.50	1320	<0.05	0.02	1.0	1265	130	2.0
16858		6.67	<0.05	0.4	0.034	0.01	1.9	4.8	15.40	1360	0.10	0.02	1.1	1270	140	1.7
16859		6.89	0.06	0.4	0.032	0.02	2.1	4.7	15.65	1440	0.07	0.03	1.2	1350	200	1.8
16860		6.50	<0.05	0.4	0.031	0.01	2.0	4.7	15.20	1360	0.09	0.03	1.2	1240	160	1.4
16861		21.9	0.14	2.4	5.31	0.69	16.1	20.2	0.20	227	4.98	0.44	7.4	61.6	560	1040
16862		8.40	0.05	0.6	0.045	0.01	2.1	2.5	13.80	1290	0.23	0.05	1.2	903	150	1.9
16863		11.60	0.07	1.2	0.073	1.93	2.7	36.2	10.05	1440	0.69	0.16	2.1	628	260	3.5
16864		14.95	0.11	2.4	0.169	0.28	17.2	16.7	6.27	949	0.69	2.90	4.4	270	1430	8.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091115**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16848		51.7	<0.002	0.09	0.21	9.4	<1	0.7	139.0	0.30	<0.05	6.47	0.192	0.27	2.3	67
16849		47.1	<0.002	0.09	0.22	11.9	<1	0.8	135.5	0.39	<0.05	7.02	0.258	0.25	2.8	84
16850		49.7	<0.002	0.05	0.41	11.9	1	1.4	170.0	0.59	<0.05	7.16	0.278	0.35	3.1	82
16851		35.5	<0.002	0.05	0.44	10.2	<1	1.1	159.0	0.50	<0.05	6.68	0.250	0.34	2.4	74
16852		4.8	<0.002	0.03	0.69	24.6	<1	0.6	86.2	0.14	<0.05	1.07	0.271	0.05	0.7	142
16853		0.8	0.002	0.04	0.45	15.1	<1	<0.2	73.3	0.07	<0.05	0.17	0.194	<0.02	0.1	97
16854		0.6	<0.002	0.05	0.32	13.9	<1	0.2	47.8	0.07	<0.05	0.15	0.206	0.02	0.1	90
16855		1.1	<0.002	0.07	0.43	16.5	1	0.3	22.8	0.07	<0.05	0.16	0.200	<0.02	0.1	103
16856		1.1	<0.002	0.09	0.44	16.6	<1	0.3	30.9	0.07	0.05	0.16	0.211	0.02	<0.1	106
16857		0.9	<0.002	0.09	0.38	16.1	<1	0.3	24.9	0.07	<0.05	0.18	0.212	0.02	<0.1	106
16858		1.1	<0.002	0.07	0.39	17.6	<1	0.3	15.9	0.07	<0.05	0.19	0.225	0.02	0.1	109
16859		1.2	<0.002	0.06	0.40	18.4	1	0.3	12.0	0.08	<0.05	0.20	0.257	<0.02	0.1	125
16860		1.0	<0.002	0.04	0.36	17.8	<1	0.3	11.5	0.08	<0.05	0.18	0.245	0.02	0.1	115
16861		28.7	0.002	2.14	84.4	4.2	37	6.1	468	0.58	41.6	6.72	0.215	1.71	2.3	33
16862		0.3	<0.002	0.17	0.30	20.8	<1	0.2	13.2	0.09	<0.05	0.21	0.282	<0.02	0.1	133
16863		82.4	<0.002	0.02	0.22	30.5	1	1.0	16.4	0.14	<0.05	0.37	0.394	1.65	0.2	181
16864		11.8	0.008	1.24	0.27	28.5	3	0.9	286	0.30	0.08	3.26	0.489	0.12	1.0	192



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091115**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Pass2mm % 0.01	Pass75um % 0.01
16848		0.4	8.3	25	97.5		81.1	93.4
16849		0.5	8.3	35	126.0			89.3
16850		0.8	9.4	45	117.5			
16851		0.6	8.2	48	115.0			
16852		1.4	39.1	139	27.2			
16853		0.4	7.9	102	12.7			
16854		0.3	5.1	92	7.3			
16855		0.2	5.9	107	7.3			
16856		0.3	5.8	109	5.7			
16857		0.3	5.6	111	7.8			
16858		0.2	6.3	115	14.2			
16859		0.3	7.0	117	13.4			
16860		0.2	6.4	110	13.0			
16861		12.8	6.0	4140	88.9	121		
16862		0.3	5.9	109	17.1			
16863		0.2	12.5	240	46.8			
16864		0.3	23.9	130	96.6			

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
THE PACIFIC BUILDING  
SUITE 400, 744 WEST HASTINGS STREET  
VANCOUVER BC V6C 1A5

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 2-MAY-2019  
Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091115**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
ME-MS61

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
CRU-31 CRU-QC LOG-22 LOG-24  
PUL-31 PUL-QC SPL-21 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Ag-OG62 ME-MS61 ME-OG62



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: **BATTERY MINERAL RESOURCES LTD.**  
**THE PACIFIC BUILDING**  
**SUITE 400, 744 WEST HASTINGS STREET**  
**VANCOUVER BC V6C 1A5**

**Page: 1**  
**Total # Pages: 2 (A - D)**  
**Plus Appendix Pages**  
**Finalized Date: 30-APR-2019**  
**Account: BMRPLLBW**

**CERTIFICATE SD19091130**

Project: Gowganda

This report is for 25 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
15753		1.85	0.06	7.01	4.2	290	1.36	0.16	0.75	<0.02	44.5	24.7	161	1.35	8.2	4.07
15754		1.86	0.06	5.99	4.9	210	1.34	0.13	2.68	<0.02	46.7	30.5	592	0.89	75.1	4.35
15755		1.78	0.05	6.60	5.6	250	1.08	0.14	1.84	<0.02	43.4	25.9	319	1.04	66.1	3.85
15756		1.84	0.03	7.08	21.5	150	1.56	0.07	1.06	<0.02	27.8	50.2	73	0.95	223	7.40
15757		1.73	0.06	6.80	15.9	340	1.55	0.17	0.29	<0.02	40.2	29.6	79	1.27	102.0	3.38
15758		1.82	0.06	7.64	7.6	370	1.52	0.20	0.37	<0.02	58.4	20.9	88	1.48	62.4	4.02
15759		0.89	0.06	8.07	11.1	420	2.12	0.18	0.38	0.02	55.1	23.5	96	1.83	38.1	4.37
15760		0.78	0.06	7.89	9.5	430	2.20	0.34	0.39	<0.02	41.5	23.5	101	1.87	28.8	4.53
15761		0.06	>100	4.36	688	240	0.82	60.3	0.64	24.9	32.1	10.2	33	2.67	5220	2.19
15762		1.47	0.16	7.30	19.7	400	1.88	0.18	0.37	0.03	37.6	30.9	85	1.39	48.2	3.87
15763		1.96	0.09	7.60	10.5	410	1.80	0.20	0.38	0.04	56.4	31.2	79	1.46	127.0	4.01
15764		2.00	0.08	7.42	2.0	380	2.09	0.17	0.57	0.05	45.2	20.5	84	1.76	89.4	4.31
15765		2.67	0.10	5.63	5.8	190	1.54	0.25	3.60	<0.02	26.7	39.0	492	1.17	228	5.16
15766		2.04	0.06	1.50	1.6	60	1.07	0.09	5.17	0.02	2.75	131.0	3030	0.36	199.5	8.40
15767		1.95	0.05	1.44	3.7	<10	0.19	0.04	3.61	<0.02	2.75	134.5	3210	0.40	50.3	8.70
15768		2.33	0.05	1.59	3.1	<10	0.05	0.01	3.97	0.03	2.41	115.0	2760	0.48	13.9	7.74
15769		2.19	0.04	1.74	12.2	10	0.06	0.02	4.83	0.05	2.83	115.5	3060	0.46	23.7	8.29
15770		2.28	0.06	1.70	2.0	<10	0.13	0.01	2.86	0.07	3.54	125.0	2740	0.38	38.3	8.73
15771		2.33	0.06	1.73	1.2	<10	0.10	0.01	4.00	0.06	3.30	125.0	2600	0.35	52.3	8.42
15772		2.36	0.06	4.53	5.3	160	0.94	0.02	5.14	0.05	38.2	82.2	1340	1.97	65.2	7.98
15773		2.01	0.07	2.30	4.6	10	0.15	0.02	7.50	0.12	4.11	106.0	1960	0.35	64.4	7.47
15774		1.61	0.07	2.16	38.7	10	0.14	0.01	2.65	0.08	4.07	126.0	2570	0.59	87.5	9.43
15775		0.57	0.02	0.05	3.2	10	0.05	0.01	35.5	<0.02	0.75	1.2	16	<0.05	1.9	0.11
15776		2.49	0.10	2.06	41.1	10	0.16	0.01	6.84	0.10	3.73	96.7	1990	0.47	32.1	7.43
15777		2.53	0.04	2.78	54.1	<10	0.19	0.01	4.73	0.12	6.25	110.0	1980	0.72	42.5	8.79



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
15753		16.85	0.10	3.2	0.043	1.44	21.7	24.0	2.52	536	1.28	2.88	4.4	87.5	570	7.2
15754		14.70	0.11	3.1	0.091	1.10	22.6	19.7	2.87	1140	1.51	2.46	4.1	206	430	5.4
15755		15.90	0.11	3.6	0.065	1.34	21.9	21.3	2.43	818	1.41	2.88	4.3	127.0	560	6.2
15756		18.15	0.08	2.2	0.051	1.02	12.6	40.6	2.95	920	0.51	2.08	4.6	74.1	590	4.0
15757		17.30	0.10	3.3	0.033	1.70	19.2	21.6	1.81	333	1.00	3.07	5.3	65.5	570	9.6
15758		19.15	0.15	3.6	0.033	1.84	28.2	27.1	2.18	386	1.03	3.19	6.2	55.0	640	8.3
15759		20.5	0.17	2.8	0.037	1.93	26.7	32.3	2.48	421	1.48	3.16	6.4	62.9	530	13.8
15760		20.7	0.13	2.9	0.045	1.96	18.3	33.6	2.54	436	1.48	3.16	6.9	63.6	540	12.1
15761		21.9	0.18	2.4	5.43	0.70	16.4	22.0	0.19	227	4.77	0.44	7.4	61.7	580	1040
15762		16.70	0.13	2.9	0.035	1.85	16.6	25.7	2.19	373	1.13	3.08	6.4	67.9	570	15.2
15763		18.00	0.15	3.4	0.049	1.89	26.8	29.0	2.33	409	1.24	3.03	6.3	65.8	580	11.2
15764		18.30	0.11	2.6	0.045	1.69	21.1	30.9	2.73	494	1.94	2.80	6.3	80.6	520	11.1
15765		13.60	0.09	1.8	0.083	0.92	11.9	26.9	4.37	1100	0.98	1.88	3.9	381	380	5.4
15766		4.66	0.06	0.2	0.055	0.01	1.3	5.0	16.10	1420	0.38	0.01	0.6	1695	30	1.7
15767		4.29	<0.05	0.1	0.020	0.01	1.1	3.2	16.95	1160	0.43	0.01	0.6	1735	40	1.0
15768		4.53	<0.05	0.2	0.020	<0.01	1.0	3.3	16.05	1280	0.06	0.01	0.6	1595	<10	1.6
15769		4.62	<0.05	0.2	0.023	<0.01	1.1	3.1	15.35	1180	0.08	0.01	0.7	1545	50	1.4
15770		4.78	<0.05	0.1	0.025	0.01	1.3	2.0	17.45	1260	0.05	0.01	0.8	1610	110	3.3
15771		4.73	0.05	0.2	0.025	0.01	1.3	2.2	16.85	1300	0.05	0.01	0.8	1530	100	16.7
15772		10.75	0.10	1.9	0.044	0.54	16.2	26.8	12.95	1340	0.05	0.03	2.9	779	1640	2.8
15773		5.35	0.06	0.3	0.026	0.01	1.7	3.4	15.00	1430	<0.05	0.01	1.2	1250	160	3.8
15774		5.84	<0.05	0.3	0.033	0.02	1.6	2.9	17.05	1390	0.07	0.02	1.0	1505	120	3.1
15775		0.18	0.05	<0.1	0.006	0.01	1.0	1.0	0.95	92	0.07	0.02	0.1	8.1	50	0.9
15776		5.71	<0.05	0.3	0.026	0.01	1.3	2.9	14.35	1320	<0.05	0.04	0.9	1235	30	4.1
15777		7.81	0.06	0.7	0.034	0.02	2.3	2.6	14.70	1390	0.09	0.09	1.6	1155	170	5.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
15753		52.1	<0.002	0.11	0.24	13.1	<1	0.9	155.5	0.41	<0.05	7.16	0.266	0.27	2.4	101
15754		38.8	<0.002	0.20	0.24	13.0	<1	0.8	126.5	0.38	<0.05	6.11	0.253	0.23	2.4	88
15755		46.0	<0.002	0.11	0.24	12.3	1	0.9	149.0	0.41	<0.05	7.22	0.262	0.29	2.7	81
15756		43.6	<0.002	0.07	0.37	29.8	<1	1.0	77.2	0.30	<0.05	2.43	0.471	0.16	0.8	214
15757		55.1	<0.002	0.05	0.20	9.0	<1	1.1	143.0	0.50	<0.05	7.46	0.217	0.37	3.0	69
15758		63.3	<0.002	0.08	0.25	10.9	<1	1.3	162.0	0.56	<0.05	9.83	0.258	0.38	3.9	80
15759		63.3	<0.002	0.05	0.36	12.2	<1	1.5	178.5	0.56	0.05	8.93	0.265	0.35	3.1	85
15760		46.0	0.003	0.06	0.37	12.1	1	1.6	178.5	0.58	0.05	7.22	0.277	0.40	3.1	89
15761		28.5	<0.002	2.13	86.8	4.2	35	6.1	465	0.57	41.6	6.79	0.216	1.70	2.3	33
15762		41.7	<0.002	0.05	0.37	9.6	1	1.2	158.5	0.53	<0.05	5.86	0.265	0.31	3.0	77
15763		61.1	<0.002	0.09	0.31	11.3	<1	1.2	175.5	0.54	<0.05	8.06	0.278	0.39	3.3	80
15764		53.7	<0.002	0.06	0.29	10.1	<1	1.2	173.0	0.55	<0.05	8.49	0.242	0.33	2.9	75
15765		35.3	0.002	0.20	0.34	11.2	<1	0.8	112.5	0.34	<0.05	5.41	0.233	0.20	1.9	84
15766		0.6	<0.002	0.05	0.25	12.0	1	0.2	28.5	<0.05	<0.05	0.18	0.129	<0.02	<0.1	79
15767		0.6	<0.002	0.11	0.29	12.1	<1	0.2	24.1	<0.05	<0.05	0.15	0.143	<0.02	<0.1	76
15768		0.6	<0.002	0.03	0.21	11.4	<1	<0.2	34.2	<0.05	<0.05	0.12	0.140	<0.02	<0.1	80
15769		0.5	<0.002	0.04	0.24	11.2	<1	<0.2	43.0	0.05	<0.05	0.11	0.153	<0.02	0.1	86
15770		0.5	<0.002	0.04	0.35	13.1	<1	0.2	17.4	0.06	<0.05	0.15	0.172	<0.02	<0.1	86
15771		1.3	<0.002	0.04	0.35	12.8	<1	0.2	39.2	0.05	<0.05	0.15	0.164	<0.02	<0.1	83
15772		26.9	<0.002	0.01	0.26	22.0	<1	0.8	183.0	0.19	<0.05	3.01	0.356	0.20	1.0	143
15773		1.3	<0.002	0.06	0.34	14.3	1	0.2	130.5	0.08	<0.05	0.19	0.272	0.03	<0.1	92
15774		1.5	<0.002	0.05	0.56	15.9	<1	0.3	14.9	0.07	<0.05	0.18	0.206	0.03	0.1	104
15775		0.3	<0.002	<0.01	0.41	0.2	<1	<0.2	94.5	<0.05	<0.05	0.07	0.005	<0.02	0.2	1
15776		0.9	<0.002	0.06	0.46	14.7	<1	0.2	45.8	0.06	<0.05	0.13	0.199	0.03	<0.1	94
15777		1.3	<0.002	0.04	0.38	21.7	<1	0.3	22.5	0.10	<0.05	0.26	0.282	0.02	0.1	124



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
15753		0.5	8.5	43	124.5		86.6	96.8
15754		0.7	13.7	56	120.0			97.0
15755		0.7	10.5	46	138.5			
15756		1.7	17.8	83	87.9		74.8	
15757		0.6	7.3	34	123.5			
15758		0.6	7.5	38	136.0			
15759		1.0	7.9	44	106.0			
15760		1.1	6.8	46	104.0			
15761		12.8	6.0	4160	88.6	116		
15762		0.9	9.4	44	116.0			
15763		0.9	10.3	47	130.0			
15764		0.5	6.6	54	94.6			
15765		0.7	8.7	54	75.2			
15766		0.2	3.5	105	5.0			
15767		0.3	3.3	94	5.2			
15768		0.2	3.6	74	8.6			
15769		0.6	3.7	82	8.7			
15770		0.3	4.8	90	2.2			
15771		0.3	4.3	88	4.2			
15772		0.7	13.2	84	76.4			
15773		0.5	5.4	78	10.1			
15774		0.4	5.7	108	8.2			
15775		<0.1	1.8	3	1.1			
15776		1.0	6.2	90	10.9			
15777		0.4	9.2	110	24.9			



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091130**

	<b>CERTIFICATE COMMENTS</b>												
	<b>ANALYTICAL COMMENTS</b>												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	<b>LABORATORY ADDRESSES</b>												
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>LOG-24</td> </tr> <tr> <td></td> <td></td> <td></td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-31	PUL-QC	SPL-21	LOG-24				WEI-21
CRU-31	CRU-QC	LOG-22											
PUL-31	PUL-QC	SPL-21	LOG-24										
			WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 15%;"></td> </tr> </table>	Ag-OG62	ME-MS61	ME-OG62									
Ag-OG62	ME-MS61	ME-OG62											



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 This copy reported on  
 10-MAY-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19091132**

Project: Gowganda

This report is for 47 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Co-OG62	Ore Grade Co - Four Acid	
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
As-OG62	Ore Grade As - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16956		1.45	0.06	7.10	7.1	330	1.49	0.21	0.26	0.02	60.9	25.7	77	1.51	2.1	3.13
16957		1.56	0.05	6.75	16.6	310	1.35	0.27	0.22	0.02	69.0	52.3	74	1.30	6.5	3.00
16958		1.23	0.05	6.29	24.0	220	1.14	0.28	0.32	0.02	46.1	28.5	66	0.92	4.9	1.49
16959		0.83	0.03	4.79	2.6	120	0.63	0.06	3.01	0.02	19.80	5.8	35	0.67	2.2	0.68
16960		0.57	0.03	4.45	1.7	120	0.64	0.07	2.86	0.02	17.90	5.8	33	0.65	2.5	0.64
16961		0.07	>100	3.98	1860	140	0.76	152.5	0.33	58.0	26.1	17.2	33	1.93	10000	2.81
16962		0.74	0.08	5.70	25.2	130	0.73	0.45	0.74	<0.02	30.7	132.0	38	0.63	18.4	0.77
16963		0.92	0.12	7.03	7.6	290	1.25	0.21	0.33	<0.02	69.0	31.8	73	1.19	3.9	2.59
16964		1.58	0.10	6.92	2.9	280	1.19	0.23	0.19	<0.02	53.8	12.9	63	1.08	2.9	1.94
16965		1.82	0.11	6.74	3.0	280	1.34	0.28	0.20	<0.02	49.2	14.7	61	1.11	4.0	1.84
16966		1.89	0.12	7.00	6.6	290	1.35	0.26	0.20	0.02	52.1	23.2	62	1.12	90.9	2.07
16967		1.82	0.09	7.21	17.6	310	1.29	0.24	0.21	0.02	55.6	36.7	70	1.21	63.9	2.69
16968		1.80	0.14	6.82	23.7	280	1.14	0.26	0.21	<0.02	49.8	31.0	62	1.08	185.0	1.91
16969		1.79	0.23	6.63	22.5	240	1.35	0.29	0.45	0.02	45.8	33.0	61	0.96	379	1.76
16970		1.78	0.59	6.66	4.9	240	1.38	0.29	0.25	0.03	43.0	17.7	61	0.98	1550	1.89
16971		1.54	0.20	6.23	53.3	220	1.09	0.22	0.76	0.04	36.6	35.9	54	0.83	362	1.25
16972		1.86	0.12	6.28	6.2	230	1.39	0.22	1.13	0.02	38.7	9.6	57	0.89	32.7	1.34
16973		2.03	0.08	6.91	11.6	350	1.52	0.24	0.25	<0.02	66.0	15.1	65	1.44	3.8	2.65
16974		2.28	0.11	7.17	25.9	340	1.44	0.36	0.26	0.02	63.3	30.8	77	1.38	5.9	2.59
16975		0.53	0.02	0.07	<0.2	10	0.07	0.01	33.1	0.02	1.90	0.7	2	<0.05	0.9	0.11
16976		2.32	0.07	7.05	18.0	360	1.40	0.30	0.29	0.06	66.5	18.1	77	1.48	2.5	3.26
16977		1.57	0.14	7.02	592	360	1.54	2.49	0.33	0.02	76.6	409	73	1.51	4.4	3.00
16978		1.15	0.15	7.11	2080	350	1.63	8.22	0.27	<0.02	75.4	1225	71	1.51	3.1	3.43
16979		0.43	0.41	6.17	>10000	300	1.57	538	0.25	<0.02	77.2	>10000	62	1.28	3.3	3.02
16980		0.53	0.03	0.09	78.3	10	0.09	0.82	31.1	<0.02	1.32	22.8	2	<0.05	1.8	0.12
16981		0.07	>100	5.22	1655	230	0.65	17.55	0.28	13.60	21.8	89.7	31	1.71	>10000	3.56
16982		0.85	0.12	7.08	2830	350	1.66	8.58	0.60	<0.02	77.1	1760	73	1.26	3.9	2.96
16983		1.28	0.63	7.23	793	340	1.61	15.20	1.61	0.03	85.4	490	70	1.28	8.9	3.41
16984		1.76	0.18	6.54	129.0	330	1.30	1.45	0.30	0.07	51.6	88.2	67	1.32	4.3	2.33
16985		2.17	0.11	6.74	28.2	330	1.24	0.45	0.26	0.05	46.3	25.8	112	1.33	4.5	2.33
16986		2.10	0.21	6.67	23.6	320	1.43	0.40	0.24	0.05	45.5	22.1	328	1.32	482	3.07
16987		2.29	0.14	6.71	33.7	340	1.38	0.34	0.25	0.07	55.4	30.5	70	1.32	12.0	2.44
16988		2.05	1.18	7.33	46.8	330	1.64	0.45	0.26	0.09	43.7	34.0	86	1.80	1330	4.28
16989		2.20	0.26	7.27	30.6	370	1.61	0.40	0.28	0.03	54.9	29.5	82	1.64	398	4.09
16990		2.22	0.45	6.39	11.8	310	1.67	0.21	0.73	0.04	34.8	16.9	57	1.28	526	2.29
16991		2.15	0.43	6.83	44.0	340	1.96	0.34	0.54	0.04	56.9	39.7	69	1.31	456	3.03
16992		1.37	1.09	7.95	22.0	70	2.07	0.19	0.53	0.03	18.85	29.8	80	1.93	1765	7.19
16993		1.31	0.23	6.78	12.9	310	1.71	0.32	0.36	<0.02	61.6	29.7	71	1.39	180.5	3.96
16994		1.64	0.23	6.85	13.4	190	1.86	0.30	1.94	0.06	48.5	32.1	293	1.55	305	5.12
16995		1.54	0.12	6.77	12.4	200	1.95	0.21	2.00	0.05	41.0	35.6	108	1.59	206	6.11



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16956		22.4	0.15	3.6	0.020	1.75	28.4	23.7	1.70	261	1.49	3.46	5.4	54.4	580	11.0
16957		21.5	0.12	4.2	0.024	1.65	31.3	22.3	1.59	251	1.36	3.49	5.9	87.0	590	9.6
16958		13.95	0.12	4.6	0.012	1.41	21.7	9.7	0.71	155	1.56	3.85	4.6	42.7	500	10.3
16959		8.78	0.12	1.4	0.029	1.00	9.2	4.4	0.23	477	1.23	3.61	2.0	11.8	210	6.4
16960		8.76	0.13	1.3	0.030	0.99	8.2	4.2	0.22	455	1.22	3.52	2.1	11.7	200	6.3
16961		24.8	0.22	2.8	12.05	0.61	12.6	21.5	0.08	138	6.71	0.42	8.4	114.5	520	1995
16962		8.83	0.10	1.2	0.041	1.00	15.2	4.0	0.28	284	1.33	3.87	1.6	199.0	210	7.5
16963		19.90	0.12	4.3	0.017	1.71	32.6	18.3	1.35	244	1.31	3.78	5.2	60.2	580	12.3
16964		16.90	0.12	4.1	0.013	1.70	25.9	12.8	0.96	171	1.42	3.95	4.8	26.8	550	12.8
16965		16.05	0.12	3.7	0.013	1.70	23.2	12.4	0.93	162	1.27	3.91	4.4	26.2	540	13.3
16966		16.95	0.12	4.1	0.012	1.74	24.7	13.6	1.03	175	1.38	3.97	4.7	39.9	560	10.0
16967		19.75	0.12	4.5	0.019	1.76	25.8	21.2	1.42	227	1.24	3.80	5.3	89.9	580	10.5
16968		16.20	0.12	3.7	0.018	1.71	23.8	12.2	0.95	170	1.54	3.94	4.7	58.8	540	16.3
16969		15.35	0.11	3.6	0.023	1.55	21.2	10.4	0.87	181	1.40	3.89	4.3	58.3	530	16.1
16970		15.50	0.11	3.0	0.065	1.47	20.0	11.6	0.86	162	1.71	3.93	4.7	25.6	500	18.2
16971		12.65	0.09	3.2	0.033	1.41	17.3	7.4	0.61	185	1.60	3.99	3.9	108.5	480	16.1
16972		13.10	0.11	3.0	0.019	1.44	18.0	7.8	0.67	238	1.98	3.92	4.0	18.4	460	13.5
16973		20.4	0.13	3.5	0.014	1.88	30.8	18.8	1.46	224	1.66	3.46	5.4	35.8	560	10.0
16974		20.0	0.13	5.9	0.016	1.96	28.8	20.0	1.40	220	1.71	3.66	6.3	63.5	650	10.2
16975		0.29	0.09	<0.1	<0.005	0.01	1.6	1.6	1.21	88	0.08	0.03	0.1	<0.2	40	0.5
16976		22.2	0.16	4.3	0.026	1.84	28.7	23.9	1.79	286	1.94	3.50	6.3	45.5	620	11.9
16977		22.0	0.15	4.0	0.023	1.75	35.0	22.6	1.68	264	3.08	3.37	5.8	213	580	12.3
16978		23.4	0.15	4.1	0.033	1.71	34.0	28.3	1.94	299	6.07	3.27	6.3	750	600	9.6
16979		19.95	0.22	3.4	0.120	1.51	36.5	23.1	1.69	375	21.7	2.80	4.8	>10000	520	10.2
16980		0.29	<0.05	0.1	<0.005	0.01	1.3	1.6	1.70	86	0.17	0.04	0.1	32.2	60	<0.5
16981		32.2	0.29	2.8	4.11	0.98	9.4	21.3	0.04	87	5.21	0.55	7.4	1485	480	1360
16982		19.20	0.13	3.7	0.040	1.70	35.3	19.5	1.68	323	6.92	3.37	4.7	660	590	8.6
16983		20.1	0.17	3.8	0.099	1.66	39.6	21.6	2.02	882	66.6	3.34	5.2	281	610	17.7
16984		17.90	0.11	4.3	0.023	1.77	24.1	16.1	1.26	227	5.08	3.43	5.5	65.8	570	15.8
16985		19.85	0.10	5.0	0.014	1.85	21.3	14.9	1.28	221	1.75	3.52	5.8	80.4	580	13.6
16986		19.60	0.10	3.7	0.058	1.63	20.4	20.9	1.72	269	1.98	3.22	5.1	61.7	560	13.6
16987		18.45	0.12	3.9	0.013	1.74	26.4	15.7	1.30	223	1.59	3.44	5.8	59.9	570	14.4
16988		22.3	0.13	4.3	0.112	1.67	19.3	32.8	2.39	371	1.22	3.17	6.5	71.0	600	31.9
16989		22.3	0.15	4.0	0.049	1.74	24.6	32.9	2.28	363	1.20	3.14	6.9	64.9	610	37.2
16990		15.25	0.11	3.2	0.044	1.62	16.3	15.9	1.21	273	0.99	3.20	4.6	31.6	500	16.7
16991		18.80	0.16	3.5	0.050	1.74	26.1	22.1	1.71	320	3.07	3.38	5.1	93.0	610	16.9
16992		27.6	0.14	5.0	0.159	0.55	7.3	54.6	4.10	718	0.98	3.59	9.8	71.2	1050	10.0
16993		20.1	0.17	4.1	0.039	1.53	28.2	27.8	2.41	415	1.18	3.04	5.5	44.8	560	19.9
16994		19.45	0.17	3.4	0.082	0.91	23.2	34.6	3.23	803	1.12	2.89	6.0	85.1	570	23.5
16995		18.50	0.14	2.9	0.080	0.89	19.1	32.3	3.43	855	1.41	2.40	5.3	68.9	600	19.8





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16956		68.9	<0.002	0.05	0.25	10.5	<1	1.3	164.5	0.46	<0.05	9.21	0.184	0.40	3.6	68
16957		60.4	<0.002	0.06	0.25	9.8	<1	1.2	148.5	0.50	<0.05	9.30	0.195	0.38	3.7	69
16958		55.2	<0.002	0.07	0.26	6.2	<1	0.6	98.8	0.44	<0.05	10.90	0.151	0.31	4.2	37
16959		32.1	<0.002	0.03	0.07	6.8	<1	0.2	73.4	0.19	<0.05	2.84	0.070	0.22	1.3	16
16960		30.8	<0.002	0.03	0.10	6.2	<1	0.2	73.9	0.19	<0.05	2.62	0.069	0.23	1.2	16
16961		26.4	<0.002	3.67	217	4.7	63	12.9	461	0.57	62.3	5.46	0.196	4.55	2.9	31
16962		42.0	<0.002	<0.01	0.27	6.7	<1	0.2	75.5	0.16	<0.05	3.19	0.070	0.23	1.4	17
16963		67.0	<0.002	0.07	0.22	9.2	<1	0.8	130.5	0.43	<0.05	10.35	0.176	0.41	3.2	67
16964		65.9	<0.002	0.08	0.20	7.0	<1	0.7	121.5	0.42	<0.05	8.85	0.157	0.38	3.6	45
16965		65.9	<0.002	0.09	0.19	7.0	<1	0.7	118.0	0.39	<0.05	9.23	0.150	0.36	3.7	44
16966		66.3	<0.002	0.10	0.20	7.3	<1	0.6	123.5	0.42	<0.05	9.03	0.160	0.37	3.7	47
16967		69.3	<0.002	0.09	0.31	9.0	1	0.9	135.5	0.49	<0.05	10.00	0.178	0.39	3.8	62
16968		64.2	<0.002	0.10	0.30	7.1	<1	0.7	121.5	0.41	<0.05	8.80	0.155	0.39	3.5	45
16969		59.3	<0.002	0.11	0.27	7.1	<1	0.8	111.5	0.38	<0.05	8.68	0.148	0.33	3.4	40
16970		58.3	<0.002	0.24	0.24	7.3	<1	0.7	110.5	0.38	<0.05	7.39	0.155	0.32	3.0	40
16971		52.2	<0.002	0.08	0.41	6.5	<1	0.5	98.2	0.32	<0.05	7.21	0.133	0.30	2.9	32
16972		53.8	0.002	0.05	0.26	7.6	<1	0.5	109.5	0.37	<0.05	6.46	0.143	0.33	2.9	34
16973		71.1	<0.002	0.06	0.25	9.6	<1	1.1	166.5	0.45	<0.05	8.79	0.177	0.41	3.6	62
16974		69.6	<0.002	0.08	0.37	9.5	<1	1.1	160.5	0.58	<0.05	11.40	0.210	0.41	4.6	62
16975		0.3	<0.002	<0.01	<0.05	0.2	1	<0.2	83.1	<0.05	<0.05	0.09	<0.005	<0.02	0.2	1
16976		55.3	<0.002	0.06	0.28	9.6	<1	1.4	166.5	0.56	<0.05	8.69	0.219	0.43	4.3	69
16977		67.1	<0.002	0.09	0.75	9.2	<1	1.1	172.0	0.50	<0.05	9.49	0.198	0.39	4.2	62
16978		64.7	0.003	0.14	3.12	9.8	<1	1.2	173.0	0.56	<0.05	10.65	0.209	0.40	4.8	65
16979		59.0	0.008	1.51	93.6	9.1	1	0.9	150.5	0.40	<0.05	8.98	0.159	0.38	4.7	67
16980		0.5	<0.002	<0.01	0.16	0.2	1	<0.2	77.7	<0.05	<0.05	0.11	0.005	<0.02	0.2	1
16981		30.5	<0.002	8.13	293	5.1	77	2.8	332	0.52	35.0	4.48	0.171	15.85	2.9	38
16982		68.2	0.003	0.13	2.31	7.4	<1	0.9	179.0	0.45	<0.05	8.71	0.195	0.38	4.0	61
16983		64.5	0.033	0.09	1.49	10.5	1	1.0	179.0	0.50	<0.05	9.13	0.211	0.38	3.9	80
16984		66.5	0.003	0.09	0.46	8.2	<1	0.8	157.5	0.48	<0.05	9.72	0.180	0.41	4.2	53
16985		66.9	0.002	0.07	0.61	7.8	<1	0.8	156.0	0.54	<0.05	11.80	0.196	0.41	4.5	50
16986		59.4	<0.002	0.12	0.41	12.1	<1	0.8	153.5	0.42	<0.05	8.41	0.188	0.34	4.0	64
16987		67.4	<0.002	0.05	0.61	8.7	<1	0.8	166.0	0.48	<0.05	9.65	0.193	0.36	3.7	55
16988		53.9	<0.002	0.21	0.63	19.8	<1	1.2	145.5	0.55	<0.05	8.00	0.349	0.36	3.7	127
16989		57.3	<0.002	0.13	0.56	14.8	<1	1.5	154.0	0.57	<0.05	9.01	0.289	0.36	4.1	91
16990		62.7	<0.002	0.09	0.26	8.0	<1	0.7	149.5	0.40	<0.05	7.93	0.155	0.37	3.2	44
16991		65.7	0.004	0.07	0.70	9.3	<1	0.9	159.5	0.45	<0.05	8.56	0.205	0.38	2.7	70
16992		8.3	0.002	0.18	1.02	42.9	1	1.8	52.0	0.58	<0.05	2.45	1.170	0.11	1.7	490
16993		57.0	<0.002	0.10	0.33	9.9	<1	1.1	150.0	0.48	<0.05	9.83	0.198	0.32	3.5	72
16994		34.4	0.002	0.17	0.57	22.0	1	1.0	138.5	0.47	<0.05	4.65	0.442	0.22	1.9	150
16995		34.9	0.003	0.19	0.59	22.8	1	0.9	148.0	0.42	0.05	4.90	0.417	0.24	1.8	155



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Ag ppm	As %	Co %	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	1	0.001	0.0005	0.001	0.001	0.01	0.01
16956		0.6	9.5	26	124.5						70.6	97.5
16957		0.5	9.2	23	144.0							98.9
16958		0.4	9.8	16	160.0							
16959		0.2	8.5	7	45.0							
16960		0.2	7.9	7	46.6							
16961		16.5	6.3	9030	88.9	283			0.970			
16962		0.2	8.2	8	45.1							
16963		0.5	8.4	22	149.5							
16964		0.3	8.3	16	141.0							
16965		0.4	8.1	17	128.0							
16966		0.3	8.5	18	139.5							
16967		0.4	9.9	23	152.5							
16968		0.3	8.1	16	129.0							
16969		0.3	10.2	16	124.0							
16970		0.3	9.3	17	106.5							
16971		0.3	9.9	14	106.5							
16972		0.3	12.2	15	101.0							
16973		0.5	8.7	23	124.5							
16974		0.6	10.5	22	197.5							
16975		0.1	2.3	4	1.7							
16976		0.7	9.0	31	143.5							
16977		0.7	10.3	25	140.5							
16978		0.8	11.3	28	143.0							
16979		0.5	13.1	24	118.0		6.16	1.755		2.23		
16980		<0.1	2.1	4	2.6							
16981		27.7	4.6	2070	91.1	981			5.00			
16982		0.6	11.6	23	134.0							
16983		0.6	15.8	30	141.5							
16984		0.6	9.9	28	146.5							
16985		0.5	9.7	23	169.0							
16986		0.5	7.7	35	127.0							
16987		0.5	9.1	29	135.5							
16988		0.9	12.3	44	142.0							
16989		0.9	11.6	38	131.0							
16990		0.4	10.6	26	106.5							
16991		0.5	12.7	33	116.0							
16992		1.8	27.2	65	179.0							
16993		0.5	11.3	41	141.0							
16994		0.9	18.5	64	117.5							
16995		0.8	17.9	70	98.5						76.1	95.2



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16996		1.42	0.07	5.21	44.9	40	0.85	0.04	7.53	0.10	15.00	102.5	344	0.41	193.0	10.25
16997		1.92	0.04	5.03	7.3	40	0.49	0.02	8.13	0.06	13.95	61.9	343	0.14	160.0	9.79
16998		3.09	0.05	4.92	7.0	40	0.49	0.03	8.45	0.06	18.90	63.3	347	0.08	143.0	9.83
16999		3.17	0.03	4.92	5.7	50	0.56	0.03	8.24	0.06	16.85	64.0	355	0.16	157.0	10.05
17000		2.12	0.07	4.58	0.7	530	2.20	0.02	9.23	0.05	45.7	53.1	664	4.71	203	7.62
15751		2.18	0.05	5.13	1.1	410	2.40	0.02	9.23	0.06	49.9	51.2	669	4.06	146.0	8.06
15752		2.60	0.03	5.05	0.8	380	2.47	0.04	8.11	0.06	60.2	53.8	458	5.92	110.5	7.68



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19091132</b>
---

Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
					ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
					0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
16996					15.90	0.13	1.2	0.077	0.09	5.5	21.0	5.86	1440	0.58	1.41	4.4	232	380	29.4
16997					14.45	0.11	1.1	0.066	0.09	4.9	10.5	5.39	1510	0.56	1.49	3.9	151.0	350	1.6
16998					14.70	0.12	1.2	0.067	0.08	7.4	14.5	5.40	1520	0.47	1.61	4.2	152.0	340	1.6
16999					14.70	0.10	1.1	0.069	0.10	6.7	14.9	5.61	1560	0.34	1.60	4.2	156.5	360	1.4
17000					12.25	0.14	2.3	0.057	1.75	19.4	19.1	8.52	1260	0.05	1.15	7.3	245	1310	3.7
15751					12.90	0.14	2.4	0.063	1.34	20.7	16.2	6.85	1310	0.08	1.98	8.0	165.5	1600	3.9
15752					14.05	0.16	1.8	0.044	1.20	25.9	30.9	8.31	1400	<0.05	1.22	8.8	294	1720	2.0

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16996		2.1	<0.002	0.07	0.63	43.1	1	0.7	124.0	0.27	<0.05	0.44	0.683	0.05	0.2	254
16997		1.0	<0.002	0.09	0.21	38.2	1	0.7	146.0	0.24	<0.05	0.39	0.634	0.03	0.1	238
16998		0.7	<0.002	0.09	0.14	40.1	1	0.7	174.5	0.24	<0.05	0.46	0.645	0.02	0.1	240
16999		1.2	<0.002	0.12	0.15	39.9	1	0.7	161.5	0.25	<0.05	0.47	0.642	0.03	0.1	241
17000		78.4	<0.002	0.02	0.23	36.2	1	0.6	512	0.24	<0.05	0.65	0.469	0.90	0.1	171
15751		59.5	<0.002	0.02	0.33	36.5	1	0.7	697	0.32	<0.05	0.75	0.490	0.77	0.1	203
15752		59.2	<0.002	0.03	0.15	22.3	1	0.6	736	0.40	<0.05	0.91	0.403	0.77	0.1	184



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19091132</b>
---

Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	As-OG62	Co-OG62	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
					W	Y	Zn	Zr	Ag	As	Co	Cu	Ni	Pass2mm	Pass75um
					ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%
					0.1	0.1	2	0.5	1	0.001	0.0005	0.001	0.001	0.01	0.01
16996					0.4	21.2	118	30.8							
16997					0.3	20.8	108	30.8							
16998					0.3	21.5	112	46.2							
16999					0.3	20.8	114	35.8							
17000					0.1	12.4	90	70.8							
15751					0.1	14.1	96	77.8							
15752					0.1	14.6	99	69.0							



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091132**

	<b>CERTIFICATE COMMENTS</b>								
	<b>ANALYTICAL COMMENTS</b>								
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61								
	<b>LABORATORY ADDRESSES</b>								
Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 17%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22	LOG-24	PUL-31	PUL-QC	SPL-21	WEI-21
CRU-31	CRU-QC	LOG-22	LOG-24						
PUL-31	PUL-QC	SPL-21	WEI-21						
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">As-OG62</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 17%;">Cu-OG62</td> </tr> <tr> <td>ME-MS61</td> <td>ME-OG62</td> <td>Ni-OG62</td> <td></td> </tr> </table>	Ag-OG62	As-OG62	Co-OG62	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62	
Ag-OG62	As-OG62	Co-OG62	Cu-OG62						
ME-MS61	ME-OG62	Ni-OG62							



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 This copy reported on  
 10-MAY-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19091134**

Project: Gowganda

This report is for 15 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091134**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16833		1.94	0.02	6.76	3.2	100	0.71	0.01	4.77	0.06	28.6	54.2	5	0.79	79.8	11.80
16834		2.02	0.09	5.96	2.9	420	0.56	0.09	6.29	0.03	25.0	43.1	2	4.01	105.0	10.80
16835		1.97	0.02	6.12	1.0	370	0.63	0.01	3.96	0.04	29.9	42.2	3	4.94	10.1	10.90
16836		2.43	0.02	6.48	0.8	220	0.78	0.01	4.47	0.06	33.2	42.6	4	2.29	11.6	11.30
16837		2.39	0.04	6.32	2.4	70	0.60	0.05	6.07	0.06	20.8	58.8	2	2.09	28.7	11.65
16838		2.59	0.02	6.71	2.9	510	0.69	0.01	4.78	0.05	29.1	51.5	3	1.43	34.0	11.45
16839		1.05	0.11	6.93	1.3	100	0.30	0.03	5.82	0.09	16.25	47.3	4	0.10	149.0	8.77
16840		0.82	0.17	6.47	1.7	90	0.34	0.03	5.64	0.05	16.70	47.2	6	0.10	173.5	8.48
16841		0.08	4.11	5.37	14.1	110	0.53	0.77	3.52	1.94	16.80	951	261	0.77	>10000	17.95
16842		2.09	0.09	7.14	0.6	230	0.29	0.04	7.59	0.04	10.25	48.5	33	0.11	183.5	7.33
16843		1.85	0.06	6.92	1.0	120	0.36	0.03	7.00	0.05	10.25	44.1	31	0.15	125.5	6.70
16844		1.86	0.05	6.99	2.0	160	0.33	0.03	7.03	0.05	10.15	42.1	29	0.19	68.3	6.67
16845		2.31	0.08	5.62	5.3	330	1.69	0.05	6.95	0.09	42.3	46.8	290	1.78	116.0	6.55
16846		2.28	0.08	1.50	95.1	<10	0.15	0.05	2.18	0.04	3.37	141.5	526	0.36	35.2	10.20
16847		2.40	0.05	2.51	<0.2	80	0.13	0.01	10.30	0.10	5.14	56.4	880	0.06	42.2	6.88



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19091134</b>
---

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
16833		22.7	0.13	2.3	0.097	0.28	11.8	12.3	2.04	1580	0.86	2.69	6.2	16.4	690	1.8
16834		17.00	0.11	2.6	0.090	0.64	10.4	12.7	1.39	1660	6.57	2.80	7.1	1.5	770	8.6
16835		20.7	0.11	2.2	0.094	0.83	12.0	9.3	1.40	1710	0.80	2.61	6.5	0.7	740	6.9
16836		23.2	0.14	2.3	0.097	0.42	14.5	7.9	1.50	1740	1.44	2.64	7.3	<0.2	830	3.6
16837		20.8	0.11	1.6	0.083	0.30	8.8	12.7	2.41	1710	4.32	2.53	4.6	4.8	490	9.8
16838		23.1	0.11	1.9	0.094	0.39	11.7	11.9	2.22	1870	0.45	2.39	6.1	10.1	680	3.3
16839		17.90	0.09	1.0	0.062	0.37	6.4	19.7	3.05	1340	0.84	2.28	3.6	34.9	450	32.4
16840		17.30	0.10	1.6	0.058	0.32	6.3	20.3	2.90	1300	0.88	2.05	3.7	33.0	450	10.1
16841		12.25	0.28	1.2	0.120	0.31	7.5	9.3	3.97	956	4.97	1.19	5.2	>10000	460	13.5
16842		15.95	0.09	0.8	0.049	0.34	3.8	18.2	4.31	1200	0.48	2.57	2.2	108.0	250	2.8
16843		15.00	0.09	0.9	0.043	0.20	3.7	15.8	4.04	1140	0.68	3.36	2.1	86.7	250	2.4
16844		15.90	0.08	0.9	0.043	0.19	3.7	17.2	3.88	1160	1.52	3.64	2.1	81.2	250	2.2
16845		15.10	0.13	2.2	0.051	0.71	19.0	18.1	5.66	1220	0.25	2.43	3.4	144.5	1420	7.1
16846		4.51	0.07	0.1	0.020	0.01	1.3	1.7	15.45	1440	0.06	0.01	0.8	1180	110	0.9
16847		6.75	0.06	0.7	0.039	0.17	1.9	2.7	9.11	1470	0.24	0.92	1.1	220	140	3.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091134**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16833		3.7	0.002	0.16	0.08	28.8	1	0.6	170.0	0.38	<0.05	1.05	0.920	0.04	0.3	298
16834		15.0	0.003	1.32	0.09	22.9	2	1.1	155.5	0.42	0.06	1.17	0.867	0.08	0.3	161
16835		20.3	0.002	0.09	0.07	23.2	1	0.7	159.5	0.39	<0.05	1.08	0.889	0.11	0.3	156
16836		7.1	0.002	0.04	0.06	25.6	1	1.0	179.5	0.43	<0.05	1.29	0.893	0.03	0.4	95
16837		6.6	0.003	0.21	0.09	32.7	1	0.6	139.5	0.30	<0.05	0.76	0.974	0.04	0.2	326
16838		6.2	<0.002	0.03	0.10	28.5	1	0.6	173.5	0.38	<0.05	1.07	0.820	0.03	0.3	267
16839		5.6	<0.002	0.33	0.13	27.4	1	0.8	135.0	0.23	<0.05	0.66	0.536	0.05	0.2	205
16840		4.8	<0.002	0.31	0.12	27.6	2	0.8	122.5	0.24	<0.05	0.72	0.543	0.05	0.2	210
16841		11.0	0.050	8.06	3.09	9.0	24	2.6	183.5	0.30	4.27	1.01	0.525	0.17	0.3	77
16842		5.8	<0.002	0.05	0.14	36.5	1	0.5	209	0.14	<0.05	0.36	0.408	0.04	0.1	198
16843		3.1	<0.002	0.11	0.08	32.7	1	0.5	175.0	0.13	<0.05	0.38	0.387	0.03	0.1	182
16844		3.1	0.002	0.12	0.07	30.5	1	0.5	172.0	0.13	<0.05	0.36	0.413	0.03	0.1	184
16845		34.0	<0.002	0.03	0.11	32.5	1	0.8	321	0.20	<0.05	2.96	0.399	0.26	1.4	178
16846		0.7	<0.002	0.37	0.16	17.8	1	0.2	23.5	0.06	0.06	0.14	0.154	0.06	<0.1	77
16847		1.7	<0.002	0.01	0.37	51.8	<1	0.3	55.0	0.07	<0.05	0.17	0.286	0.02	<0.1	199



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091134**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Ni %	Pass2mm %	Pass75um %
16833		0.1	31.2	117	76.5			83.3	90.8
16834		0.9	32.0	114	87.7				96.8
16835		0.2	30.8	142	62.2				
16836		0.1	34.8	128	85.3				
16837		0.4	23.9	144	44.6				
16838		0.2	30.4	129	61.1				
16839		0.2	18.8	119	31.7				
16840		0.2	19.6	112	34.6				
16841		2.4	9.8	134	44.6	1.620	4.51		
16842		0.3	13.8	77	24.9				
16843		0.2	13.1	73	28.0				
16844		0.3	13.6	75	27.5				
16845		0.3	18.1	88	77.5				
16846		0.2	4.7	81	3.5				
16847		0.4	9.8	67	25.2				

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091134**

**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: REE's may not be totally soluble in this method.  
 ME-MS61

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.			
	CRU-31	CRU-QC	LOG-22	LOG-24
	PUL-31	PUL-QC	SPL-21	WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Cu-OG62	ME-MS61	ME-OG62	Ni-OG62



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 This copy reported on  
 10-MAY-2019  
 Account: BMRPLLW

**CERTIFICATE SD19091136**

Project: Gowganda

This report is for 82 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16751		1.82	0.09	5.99	165.5	260	1.10	1.46	1.09	<0.02	49.2	116.5	69	0.97	5.6	1.39
16752		0.60	0.37	6.84	1740	310	1.48	84.6	0.79	0.03	95.4	1155	97	1.25	5.6	2.50
16753		2.20	0.11	6.90	211	350	1.25	1.84	0.27	<0.02	62.3	161.5	84	1.17	51.7	2.25
16754		1.78	0.10	6.83	65.4	350	1.52	0.45	0.34	0.03	55.5	78.7	81	1.23	11.4	2.31
16755		1.77	0.08	6.26	8.9	280	1.33	0.23	0.87	0.02	53.9	20.3	70	0.98	15.9	1.56
16756		1.63	0.17	7.73	39.0	430	1.96	0.24	0.31	0.02	72.1	94.6	94	1.83	141.5	4.02
16757		1.79	0.17	7.63	27.2	400	1.86	0.20	0.30	0.02	79.0	39.3	93	1.69	124.0	3.90
16758		1.84	0.49	6.87	11.9	330	1.24	0.28	0.24	0.02	46.7	25.9	69	1.17	1425	2.33
16759		0.83	0.47	6.77	9.9	310	1.18	0.39	0.32	0.06	47.6	21.3	71	1.08	1245	2.01
16760		0.78	0.55	7.27	10.3	350	1.22	0.40	0.27	0.05	50.5	22.7	68	1.04	1365	2.19
16761		0.06	>100	4.38	680	260	0.75	62.2	0.63	25.1	33.4	10.0	32	2.47	5020	2.19
16762		1.71	0.21	6.91	8.1	310	1.10	0.34	0.39	0.03	64.8	20.3	61	0.94	26.9	1.86
16763		1.78	0.10	6.79	5.5	290	1.04	0.27	0.54	0.02	57.0	13.5	60	0.91	132.5	1.72
16764		1.75	0.07	6.92	9.3	320	1.38	0.27	0.23	0.02	59.3	20.7	63	1.01	75.7	2.20
16765		1.89	0.04	7.03	1.9	330	1.40	0.23	0.23	<0.02	61.0	12.4	65	1.07	2.2	2.13
16766		1.83	0.02	7.12	1.4	340	1.37	0.19	0.23	<0.02	66.2	11.0	66	1.15	1.9	2.41
16767		2.01	0.04	6.73	1.0	280	1.19	0.18	0.33	<0.02	59.1	7.2	62	0.93	1.9	1.67
16768		2.00	0.03	6.92	4.1	290	1.29	0.18	0.31	<0.02	64.8	7.7	64	0.96	2.2	1.85
16769		2.14	0.03	7.18	1.9	340	1.33	0.19	0.25	<0.02	69.7	11.5	69	1.13	1.5	2.61
16770		2.06	0.03	7.11	6.2	330	1.27	0.19	0.22	<0.02	64.2	28.0	68	1.09	2.2	2.50
16771		2.05	0.03	7.12	3.2	330	1.22	0.20	0.22	<0.02	54.6	10.2	64	1.06	1.1	2.32
16772		2.08	0.05	7.06	5.1	340	1.23	0.18	0.23	<0.02	55.6	10.8	64	1.09	1.5	2.35
16773		1.94	0.04	6.92	3.8	300	1.25	0.17	0.30	0.02	62.9	13.1	63	0.98	1.3	2.08
16774		2.11	0.04	6.78	8.1	270	1.04	0.14	0.26	0.02	51.7	20.7	59	0.85	1.8	1.84
16775		0.48	<0.01	0.20	<0.2	20	0.09	0.01	33.0	<0.02	1.47	0.6	2	0.06	0.7	0.13
16776		1.40	0.03	7.24	8.5	280	1.20	0.13	0.27	<0.02	56.3	20.6	73	0.90	1.2	2.77
16777		1.94	0.03	6.94	8.0	270	0.99	0.13	0.58	<0.02	35.3	9.9	60	0.84	1.0	2.34
16778		1.99	0.03	6.12	9.1	180	0.54	0.13	0.70	<0.02	39.5	12.4	45	0.65	2.4	0.96
16779		0.87	0.02	5.89	1.0	190	0.51	0.09	0.87	0.02	33.7	3.9	37	0.68	1.3	0.86
16780		0.69	0.03	5.92	1.1	190	0.53	0.10	0.79	0.02	32.6	4.2	38	0.71	1.8	0.96
16781		0.06	>100	4.32	683	220	0.73	62.5	0.63	27.5	33.6	10.6	28	2.49	5050	2.18
16782		1.74	0.22	6.42	3.8	230	0.73	0.19	0.49	0.04	18.90	6.6	48	0.73	8.0	1.59
16783		1.68	0.09	6.13	1.6	200	0.58	0.11	0.82	0.02	32.9	4.5	45	0.64	2.7	1.15
16784		1.85	0.08	7.07	9.0	320	1.15	0.14	0.23	<0.02	59.5	26.3	62	0.92	2.3	2.55
16785		1.78	0.07	7.37	7.6	310	1.22	0.15	0.23	0.02	48.1	18.5	65	0.95	2.5	2.79
16786		1.78	0.05	6.73	6.8	250	0.93	0.13	0.61	<0.02	34.9	10.6	55	0.77	1.7	1.77
16787		1.82	0.04	6.06	7.3	210	0.77	0.10	0.94	<0.02	32.6	13.1	51	0.71	3.3	1.38
16788		1.78	0.05	6.38	9.3	250	0.89	0.12	0.30	<0.02	28.9	19.2	51	0.78	3.7	1.49
16789		1.91	0.04	6.80	3.7	310	1.13	0.16	0.21	0.02	40.0	10.8	60	0.90	1.8	2.09
16790		1.72	0.06	7.46	4.1	370	1.32	0.17	0.26	<0.02	75.5	13.2	70	1.19	3.0	3.16



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16751		14.35	0.11	3.5	0.021	1.54	22.8	8.4	0.69	274	2.51	3.86	4.6	123.0	470	8.6
16752		20.7	0.17	4.7	0.030	1.71	44.1	18.0	1.33	332	36.4	3.73	6.7	1050	600	9.1
16753		18.00	0.16	4.1	0.022	1.90	29.4	15.4	1.16	203	8.12	3.71	5.5	107.0	560	9.9
16754		20.1	0.15	4.2	0.021	1.89	25.8	17.8	1.20	224	2.36	3.76	6.1	112.0	580	14.2
16755		14.75	0.14	3.6	0.021	1.66	25.8	10.1	0.79	232	2.09	3.94	4.9	26.2	540	11.8
16756		27.0	0.19	3.4	0.042	2.21	32.7	32.1	2.16	347	1.99	3.29	8.5	125.0	650	15.2
16757		25.9	0.19	3.5	0.036	2.03	36.9	30.1	2.07	332	2.15	3.33	8.2	68.4	640	12.6
16758		17.70	0.14	3.5	0.065	1.87	21.9	16.2	1.13	185	1.32	3.78	5.5	35.8	560	12.3
16759		15.90	0.15	3.6	0.063	1.81	22.5	12.0	0.92	173	1.85	3.91	5.0	25.9	560	14.0
16760		15.20	0.09	3.3	0.064	1.87	23.1	12.5	1.02	185	1.74	4.14	5.0	26.0	620	12.6
16761		22.6	0.15	2.4	5.35	0.67	15.8	19.4	0.19	229	4.54	0.45	8.5	58.2	580	1025
16762		14.15	0.08	3.2	0.018	1.71	29.6	11.0	0.90	185	1.46	4.00	4.6	24.0	570	9.9
16763		13.70	0.10	3.3	0.020	1.63	25.7	10.8	0.83	187	1.30	4.06	4.4	20.4	550	8.0
16764		15.75	0.10	3.2	0.020	1.71	27.0	13.3	1.09	190	1.17	3.86	4.6	32.2	600	7.8
16765		15.80	0.10	3.4	0.016	1.75	27.7	13.4	1.06	185	1.45	3.93	4.7	25.8	580	8.1
16766		17.70	0.11	3.4	0.020	1.79	30.3	15.8	1.22	198	1.21	3.85	4.8	29.0	600	7.1
16767		13.90	0.10	3.3	0.012	1.62	26.8	10.2	0.81	164	1.37	4.03	4.1	20.2	540	6.8
16768		14.95	0.10	3.3	0.013	1.66	29.4	11.2	0.89	175	1.40	4.07	4.3	22.6	560	6.9
16769		18.85	0.11	3.7	0.019	1.77	32.2	17.3	1.36	210	1.25	3.83	4.8	30.8	610	7.4
16770		17.65	0.11	3.6	0.016	1.70	29.0	15.9	1.27	202	1.28	3.83	5.0	43.5	590	7.3
16771		17.70	0.09	3.5	0.015	1.79	24.5	14.6	1.20	188	1.26	3.92	4.4	26.3	590	7.4
16772		18.25	0.10	3.4	0.012	1.80	25.3	15.3	1.19	193	1.22	3.86	4.5	27.3	590	8.7
16773		17.25	0.09	3.4	0.015	1.70	28.7	14.2	1.07	188	1.28	4.00	4.3	26.4	570	8.3
16774		14.80	0.08	3.1	0.012	1.56	23.5	12.4	0.91	161	1.29	4.02	4.3	30.1	540	7.3
16775		0.58	<0.05	0.1	<0.005	0.08	1.2	1.3	1.32	87	0.30	0.10	0.2	0.8	50	<0.5
16776		20.8	0.09	3.8	0.016	1.61	25.2	21.0	1.47	233	1.25	3.97	5.5	41.7	630	6.1
16777		18.35	0.08	3.2	0.017	1.52	15.7	16.2	1.26	229	1.10	3.94	4.1	26.2	610	5.6
16778		11.05	0.08	2.2	0.011	1.34	17.7	5.9	0.43	143	1.25	4.03	3.5	16.3	410	6.3
16779		10.25	0.07	1.6	0.008	1.43	14.8	5.7	0.40	146	1.23	3.81	2.8	9.7	300	6.2
16780		10.60	0.07	1.7	0.009	1.45	14.3	6.0	0.41	148	1.10	3.86	3.1	10.8	310	6.5
16781		21.5	0.13	2.5	5.68	0.66	15.6	19.7	0.19	224	4.60	0.44	8.3	57.7	570	1025
16782		13.80	0.06	2.5	0.017	1.46	8.6	11.2	0.81	173	1.12	3.88	3.4	18.2	450	8.0
16783		10.95	0.06	2.1	0.011	1.40	14.7	6.9	0.53	169	1.45	3.86	3.2	12.3	380	8.0
16784		18.55	0.09	3.3	0.017	1.73	27.0	19.4	1.36	211	1.25	3.76	4.4	44.1	600	10.3
16785		21.0	0.08	3.9	0.016	1.71	21.5	21.3	1.47	230	1.25	3.83	5.0	36.5	630	10.9
16786		14.30	0.08	3.0	0.014	1.51	16.4	12.3	0.90	209	1.10	4.03	3.9	21.1	510	8.0
16787		11.95	0.07	2.2	0.013	1.34	14.9	8.9	0.66	224	1.41	3.86	3.3	22.0	380	5.9
16788		12.50	0.06	2.5	0.009	1.54	12.9	10.4	0.75	143	1.28	3.81	3.4	28.7	450	6.4
16789		14.75	0.07	3.2	0.012	1.64	18.1	14.5	1.08	164	1.12	3.91	4.2	23.9	550	9.1
16790		20.7	0.11	3.0	0.022	1.83	34.0	23.8	1.76	241	1.10	3.59	4.8	35.8	620	9.4





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
16751		59.7	<0.002	0.07	0.91	7.3	<1	0.5	126.0	0.44	<0.05	8.73	0.161	0.34	3.5	40
16752		68.9	0.212	0.11	5.09	9.3	1	1.1	152.0	0.64	<0.05	12.75	0.227	0.39	5.6	75
16753		69.8	0.039	0.09	2.72	7.2	1	0.9	154.0	0.52	<0.05	11.05	0.197	0.38	4.3	59
16754		75.6	<0.002	0.06	0.73	8.3	<1	1.1	156.5	0.54	<0.05	11.00	0.202	0.41	3.9	60
16755		62.4	<0.002	0.07	0.47	7.1	<1	0.6	131.0	0.45	<0.05	8.78	0.174	0.34	3.5	44
16756		79.9	<0.002	0.04	0.74	13.4	<1	2.1	166.5	0.68	<0.05	11.70	0.279	0.46	4.0	82
16757		77.6	0.002	0.05	0.58	12.6	<1	1.9	169.5	0.67	<0.05	12.10	0.267	0.42	4.0	80
16758		72.2	<0.002	0.25	0.55	7.4	1	1.2	145.0	0.49	<0.05	9.66	0.191	0.39	3.6	52
16759		67.9	<0.002	0.24	0.48	6.7	1	0.9	135.0	0.45	<0.05	9.14	0.179	0.37	3.0	45
16760		69.6	<0.002	0.26	0.50	6.4	<1	0.8	140.5	0.47	<0.05	9.83	0.189	0.35	3.3	50
16761		28.2	<0.002	2.14	86.5	4.0	34	5.5	465	0.56	41.8	6.96	0.216	1.56	2.4	33
16762		63.8	<0.002	0.10	0.43	6.6	<1	0.7	131.5	0.43	0.06	9.14	0.174	0.33	2.9	46
16763		59.0	<0.002	0.11	0.33	6.3	1	0.6	119.5	0.41	<0.05	9.05	0.169	0.29	3.1	42
16764		65.1	<0.002	0.08	0.24	7.0	<1	0.8	135.5	0.43	<0.05	8.81	0.175	0.34	3.3	51
16765		66.5	<0.002	0.08	0.21	6.9	<1	0.8	137.0	0.43	<0.05	9.60	0.174	0.34	3.4	50
16766		71.2	<0.002	0.07	0.18	7.7	<1	0.9	143.5	0.43	<0.05	9.43	0.177	0.34	3.0	58
16767		62.2	<0.002	0.07	0.16	5.9	<1	0.6	116.5	0.38	<0.05	8.43	0.153	0.30	3.1	41
16768		63.6	<0.002	0.07	0.16	6.1	<1	0.7	120.5	0.39	<0.05	8.96	0.158	0.30	3.1	44
16769		67.1	<0.002	0.07	0.18	7.6	<1	1.0	144.5	0.44	<0.05	10.10	0.181	0.37	3.2	62
16770		66.6	0.002	0.07	0.21	7.3	<1	1.0	139.5	0.45	<0.05	9.97	0.184	0.35	3.2	58
16771		65.3	<0.002	0.07	0.20	6.7	<1	0.7	137.5	0.41	<0.05	9.52	0.171	0.33	3.4	54
16772		66.1	<0.002	0.07	0.18	6.9	<1	0.7	139.0	0.42	<0.05	9.51	0.170	0.33	3.2	54
16773		64.1	<0.002	0.07	0.16	6.9	<1	0.7	125.0	0.39	<0.05	9.15	0.162	0.33	3.0	50
16774		59.5	<0.002	0.05	0.15	6.1	<1	0.7	110.5	0.39	<0.05	8.28	0.156	0.29	2.7	45
16775		1.9	<0.002	<0.01	0.08	0.2	1	<0.2	78.8	<0.05	<0.05	0.18	<0.005	0.02	0.2	1
16776		58.1	<0.002	0.04	0.15	7.7	<1	0.9	113.5	0.47	<0.05	9.81	0.204	0.30	2.9	71
16777		56.3	<0.002	0.05	0.13	6.5	<1	0.7	117.0	0.38	<0.05	7.68	0.158	0.29	2.4	57
16778		50.1	<0.002	0.04	0.12	5.1	1	0.4	75.6	0.33	<0.05	4.95	0.128	0.25	1.5	25
16779		51.5	<0.002	0.06	0.08	4.0	1	0.3	75.6	0.27	<0.05	3.93	0.105	0.24	1.2	23
16780		52.0	<0.002	0.06	0.09	4.1	<1	0.4	77.7	0.29	<0.05	4.13	0.110	0.26	1.3	23
16781		28.6	<0.002	2.13	88.5	4.2	35	5.6	458	0.57	41.7	7.35	0.215	1.54	2.4	33
16782		54.3	<0.002	0.07	0.22	4.9	1	0.5	96.6	0.31	0.08	5.64	0.127	0.27	1.9	40
16783		48.8	<0.002	0.06	0.12	5.0	1	0.4	81.2	0.29	<0.05	4.64	0.121	0.24	1.6	28
16784		63.9	<0.002	0.06	0.15	6.7	<1	0.8	130.0	0.41	<0.05	9.06	0.167	0.31	2.8	55
16785		65.7	<0.002	0.05	0.26	7.6	<1	1.0	128.5	0.45	<0.05	9.78	0.187	0.34	3.0	61
16786		58.1	<0.002	0.06	0.14	6.5	<1	0.6	104.5	0.36	<0.05	7.59	0.146	0.27	2.5	41
16787		50.3	<0.002	0.06	0.11	6.1	<1	0.5	91.4	0.32	<0.05	5.21	0.120	0.26	1.9	34
16788		56.5	<0.002	0.05	0.15	5.2	<1	0.5	97.6	0.30	<0.05	6.60	0.126	0.29	1.9	36
16789		59.3	<0.002	0.06	0.15	6.3	<1	0.7	121.5	0.37	<0.05	7.76	0.161	0.30	2.7	47
16790		67.6	<0.002	0.05	0.16	9.7	<1	1.2	158.0	0.43	<0.05	8.73	0.190	0.35	2.7	67



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Pass2mm % 0.01	Pass75um % 0.01
16751		0.4	9.3	13	119.0		81.0	95.3
16752		0.7	14.4	24	159.5			94.5
16753		0.5	10.0	19	134.5			
16754		0.5	10.9	21	145.5			
16755		0.3	11.0	15	122.0			
16756		1.2	12.2	33	114.0			
16757		1.0	12.6	31	115.0			
16758		0.9	9.4	19	124.0		70.4	
16759		0.8	8.8	18	123.0			
16760		0.8	8.9	18	134.0			
16761		11.7	6.6	4150	90.2	118		
16762		0.6	8.3	16	121.5			
16763		0.4	8.7	14	131.0			
16764		0.3	9.9	18	133.0			
16765		0.3	9.5	15	132.5			
16766		0.3	8.8	17	136.0			
16767		0.3	8.8	14	133.0			
16768		0.3	9.4	13	133.0			
16769		0.4	8.9	19	140.5			
16770		0.4	8.8	17	144.0			
16771		0.3	7.8	16	140.5			
16772		0.3	8.3	17	132.0			
16773		0.3	9.5	16	132.5			
16774		0.3	9.0	13	123.0			
16775		<0.1	2.3	3	2.3			
16776		0.3	9.7	21	153.0			
16777		0.3	7.0	17	124.0			
16778		0.1	11.7	7	88.2			
16779		0.1	9.3	6	63.4			
16780		0.1	9.5	6	69.0			
16781		12.2	6.8	4130	90.9	113		
16782		0.3	6.4	15	103.0			
16783		0.2	8.0	9	86.4			
16784		0.4	8.0	18	129.0			
16785		0.4	7.9	20	155.0			
16786		0.3	6.9	12	119.5			
16787		0.3	8.0	9	86.1			
16788		0.3	7.0	9	103.0			
16789		0.4	7.5	16	125.5			
16790		0.5	8.6	23	116.5		78.4	97.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - A  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
Units		kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
LOD		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16791		1.74	0.09	7.17	1.5	310	1.23	0.14	0.22	<0.02	42.2	9.2	61	0.98	2.5	2.38
16792		1.73	0.06	6.57	1.4	280	1.34	0.18	0.21	<0.02	26.7	8.6	54	0.84	1.7	1.83
16793		1.98	0.05	6.07	1.2	230	1.47	0.15	0.16	<0.02	11.85	6.9	50	0.70	4.4	1.13
16794		1.68	0.08	6.67	7.3	270	1.18	0.14	0.19	<0.02	19.95	18.9	58	0.80	10.6	1.77
16795		1.01	0.23	7.64	33.2	370	1.59	0.41	0.27	0.05	71.3	71.4	88	1.05	44.5	4.20
16796		1.90	0.08	7.46	3.8	340	1.34	0.21	0.28	0.07	66.8	17.0	76	1.23	22.8	3.04
16797		1.93	0.06	7.69	2.4	320	1.54	0.20	0.26	0.03	54.8	14.0	67	1.04	29.3	2.69
16798		1.87	0.10	6.85	1.3	290	1.49	0.28	0.22	0.02	45.8	10.5	63	0.92	139.0	1.94
16799		0.98	0.06	7.24	2.7	320	1.37	0.20	0.24	0.05	76.6	12.3	70	1.18	29.1	2.57
16800		0.87	0.05	7.30	2.3	320	1.36	0.20	0.24	0.05	72.7	11.7	70	1.13	21.0	2.62
16801		0.06	>100	4.44	694	220	0.82	58.7	0.64	24.8	30.6	9.4	31	2.59	5190	2.22
16802		1.98	0.13	6.42	3.7	270	1.01	0.18	0.18	0.05	30.7	8.1	51	0.92	19.9	1.29
16803		2.18	0.30	6.06	4.8	190	0.77	0.14	0.51	0.03	26.9	7.2	48	0.76	772	1.33
16804		2.17	0.44	6.46	12.8	250	1.01	0.24	0.18	0.03	22.3	19.9	58	0.85	1140	1.47
16805		1.95	0.20	7.03	5.5	300	1.12	0.22	0.23	0.04	54.1	18.0	65	1.05	806	2.51
16806		2.32	0.19	7.13	2.2	320	2.72	0.20	0.25	<0.02	74.3	15.2	67	1.09	619	2.63
16807		1.75	0.16	7.38	3.3	320	1.46	0.18	0.25	0.02	80.9	13.9	65	1.12	535	2.57
16808		1.50	0.11	6.93	1.3	300	1.11	0.17	0.22	<0.02	44.7	12.8	64	0.99	148.5	1.98
16809		1.70	0.23	6.72	2.9	250	1.18	0.16	0.30	0.06	16.40	9.2	56	0.79	330	1.67
16810		1.74	0.48	5.99	3.6	170	1.19	0.16	0.33	<0.02	20.7	6.6	45	0.61	1020	0.93
16811		1.75	0.44	6.39	7.4	230	2.22	0.26	0.18	0.02	22.7	11.8	54	0.75	993	1.66
16812		1.61	0.61	6.28	3.7	200	1.03	0.19	0.27	<0.02	24.3	7.4	46	0.73	1365	1.17
16813		1.94	0.15	7.10	4.3	310	1.25	0.19	0.24	0.04	55.6	14.4	66	1.05	234	2.75
16814		2.24	0.19	7.11	1.1	320	1.44	0.16	0.24	0.02	51.1	12.8	70	1.01	490	2.62
16815		1.88	0.10	7.42	2.7	350	1.39	0.15	0.28	0.05	76.1	16.6	77	1.22	166.0	3.18
16816		1.97	0.20	7.28	2.8	350	1.42	0.23	0.28	0.03	58.8	19.2	72	1.18	524	3.14
16817		1.88	0.16	6.95	2.1	340	1.44	0.26	0.26	0.02	57.7	19.0	73	1.09	467	2.79
16818		1.55	0.10	7.18	4.5	350	1.23	0.25	0.26	0.04	53.1	17.7	63	1.12	161.5	2.49
16819		1.04	0.08	6.77	2.5	330	1.15	0.29	0.22	0.02	55.4	20.3	62	1.06	7.7	2.14
16820		0.89	0.09	6.79	2.6	330	1.08	0.31	0.22	0.02	58.8	20.8	62	1.08	6.3	2.18
16821		0.06	>100	4.41	695	220	0.82	61.2	0.64	25.5	30.9	10.3	30	2.65	5170	2.21
16822		1.83	0.21	6.48	2.5	290	1.01	0.27	0.24	0.07	39.2	13.1	50	0.90	21.9	1.35
16823		1.94	0.10	6.11	1.7	220	0.93	0.20	1.50	0.03	33.4	12.0	45	0.85	41.3	1.14
16824		1.90	0.22	6.09	4.8	230	0.69	0.57	1.10	0.10	60.4	37.9	66	0.85	87.1	1.86
16825		0.44	<0.01	0.06	0.2	10	<0.05	0.02	32.7	<0.02	0.75	0.6	3	<0.05	0.9	0.10
16826		1.90	0.13	6.00	2.3	250	0.73	0.33	0.93	0.06	44.0	18.4	51	0.90	55.0	1.45
16827		1.99	0.13	6.04	2.5	240	0.84	0.30	0.73	0.02	38.1	16.9	47	0.84	82.5	1.40
16828		1.93	0.11	6.18	3.7	250	1.27	0.29	0.55	0.02	32.5	16.5	50	0.83	44.1	1.67
16829		2.12	0.09	6.14	6.7	250	1.13	0.30	0.80	<0.02	37.9	18.0	46	0.84	17.9	1.76
16830		2.14	0.08	6.12	16.7	250	1.29	0.31	1.16	<0.02	27.6	24.6	48	0.96	7.1	2.12



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - B  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16791		16.00	0.07	2.5	0.014	1.59	18.8	18.0	1.27	194	1.35	3.95	4.4	27.4	560	6.9
16792		14.10	0.06	2.4	0.008	1.58	12.2	11.5	0.98	160	1.24	3.82	4.0	23.0	570	6.1
16793		10.90	0.05	2.1	0.006	1.43	5.5	6.9	0.57	103	1.58	4.02	3.5	14.7	490	9.3
16794		13.45	0.06	2.2	0.010	1.54	9.4	11.5	0.92	152	1.14	3.91	4.1	34.8	540	8.4
16795		25.8	0.11	6.1	0.028	1.81	29.4	35.7	2.38	345	1.18	3.50	7.6	127.5	730	23.9
16796		19.90	0.12	3.5	0.020	1.77	32.1	21.8	1.66	245	1.81	3.69	5.0	40.5	620	16.8
16797		18.70	0.14	3.5	0.018	1.73	26.2	18.2	1.48	215	1.27	4.19	5.3	34.2	670	9.1
16798		14.15	0.11	3.4	0.017	1.61	21.6	11.2	1.00	160	4.76	3.94	4.2	22.7	560	7.9
16799		19.80	0.14	3.5	0.016	1.77	36.7	18.3	1.42	208	2.22	3.88	5.0	33.6	590	8.0
16800		18.45	0.14	3.4	0.018	1.76	34.3	18.2	1.42	212	2.06	3.81	5.0	33.2	590	7.7
16801		20.9	0.17	2.6	5.28	0.68	15.0	20.4	0.19	230	4.54	0.45	8.3	57.0	590	1040
16802		12.35	0.10	2.5	0.010	1.66	14.9	8.1	0.65	113	1.41	4.04	3.4	16.6	440	9.4
16803		11.15	0.10	1.8	0.031	1.33	13.6	8.0	0.61	161	1.56	3.83	2.8	15.2	310	7.1
16804		12.75	0.10	3.5	0.039	1.59	11.0	8.3	0.68	115	1.60	4.13	4.0	18.8	490	16.3
16805		18.70	0.14	4.0	0.032	1.67	25.8	16.5	1.29	191	1.32	3.88	4.9	30.7	560	11.7
16806		18.05	0.15	3.5	0.032	1.71	35.7	16.7	1.41	204	1.35	3.77	4.9	31.4	610	9.9
16807		18.85	0.17	3.7	0.030	1.74	39.1	16.0	1.37	205	1.09	3.93	5.3	30.8	630	8.5
16808		15.05	0.11	3.7	0.015	1.72	21.8	11.9	1.06	162	1.28	4.00	4.6	23.6	590	10.6
16809		13.60	0.12	2.9	0.021	1.55	7.4	9.4	0.86	148	1.08	4.16	4.6	20.8	600	9.2
16810		9.40	0.10	2.3	0.036	1.27	9.8	4.7	0.39	89	1.19	4.08	3.3	10.4	420	19.1
16811		13.20	0.11	3.4	0.040	1.49	10.3	9.6	0.81	132	1.08	4.08	4.2	20.5	560	17.6
16812		10.75	0.10	2.5	0.046	1.43	11.5	6.2	0.51	100	1.46	4.15	3.5	13.0	410	28.6
16813		17.95	0.13	3.3	0.023	1.74	26.4	19.0	1.50	223	1.22	3.63	5.0	32.1	580	11.6
16814		15.95	0.14	3.4	0.027	1.73	23.9	16.7	1.43	202	1.34	3.64	4.6	27.9	580	10.0
16815		19.90	0.17	3.8	0.026	1.77	35.6	23.1	1.76	255	1.22	3.59	5.5	37.4	620	9.0
16816		19.50	0.15	4.6	0.034	1.80	27.5	22.4	1.71	236	1.31	3.60	5.7	36.5	640	11.3
16817		17.05	0.16	4.9	0.026	1.79	27.3	18.4	1.49	219	1.42	3.48	5.5	31.6	610	9.2
16818		15.70	0.13	4.2	0.019	1.93	24.9	15.5	1.34	201	1.07	3.68	4.6	27.7	610	11.0
16819		14.85	0.13	4.0	0.013	1.86	26.5	13.3	1.12	176	1.51	3.61	4.7	24.8	560	10.7
16820		15.25	0.15	4.4	0.013	1.88	27.7	14.0	1.17	176	1.32	3.60	4.7	26.0	580	10.3
16821		21.7	0.16	2.7	5.62	0.68	15.3	21.0	0.19	231	4.62	0.45	8.3	59.3	580	1050
16822		11.40	0.12	2.3	0.017	1.87	18.9	7.4	0.68	124	1.25	3.82	3.4	15.9	420	11.0
16823		10.55	0.12	2.0	0.019	1.57	16.0	6.2	0.56	238	1.38	3.70	3.2	13.8	330	18.1
16824		12.25	0.15	3.5	0.020	1.54	27.6	8.3	0.86	226	1.08	3.44	6.8	22.7	450	42.5
16825		0.23	0.13	<0.1	<0.005	0.01	0.9	1.1	0.87	90	0.17	0.03	0.1	0.2	50	<0.5
16826		11.65	0.18	2.7	0.018	1.70	20.4	7.5	0.76	195	1.14	3.41	4.3	18.0	370	24.0
16827		11.45	0.18	2.3	0.018	1.55	17.4	6.8	0.73	178	1.23	3.55	3.8	17.1	380	19.5
16828		12.55	0.16	2.7	0.016	1.59	14.8	8.0	0.90	175	1.15	3.53	4.1	20.2	450	13.5
16829		12.20	0.17	2.4	0.014	1.55	17.1	7.6	0.94	200	1.42	3.40	3.6	19.4	390	14.7
16830		14.10	0.13	2.4	0.020	1.54	13.0	9.6	1.19	288	1.35	3.17	3.3	25.7	360	11.9



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - C  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
16791		61.5	<0.002	0.04	0.13	7.5	<1	1.0	131.5	0.38	<0.05	6.56	0.167	0.29	2.2	50
16792		59.3	<0.002	0.04	0.10	6.1	<1	0.5	123.0	0.35	<0.05	5.50	0.152	0.29	2.7	43
16793		52.1	<0.002	0.04	0.10	4.2	<1	0.5	91.7	0.29	<0.05	4.78	0.131	0.25	2.1	26
16794		57.8	<0.002	0.03	0.14	5.9	<1	0.7	109.0	0.35	<0.05	5.78	0.157	0.29	2.2	39
16795		47.1	0.002	0.05	0.53	12.7	<1	1.4	143.0	0.67	<0.05	11.20	0.261	0.37	3.9	89
16796		65.5	<0.002	0.08	0.43	9.0	<1	1.0	160.5	0.48	<0.05	9.17	0.201	0.38	5.1	65
16797		62.4	<0.002	0.06	0.19	8.0	1	0.9	140.5	0.49	<0.05	9.44	0.199	0.34	4.8	62
16798		57.7	0.014	0.09	0.19	5.9	<1	0.6	124.0	0.41	<0.05	8.21	0.173	0.33	3.6	46
16799		66.8	0.006	0.08	0.21	7.9	<1	0.9	147.5	0.47	<0.05	9.27	0.188	0.37	3.7	64
16800		63.9	0.006	0.07	0.21	7.9	<1	1.0	145.5	0.49	<0.05	9.09	0.192	0.36	3.5	64
16801		27.4	<0.002	2.15	86.2	4.0	35	5.6	470	0.59	40.3	6.44	0.223	1.65	2.3	34
16802		61.0	<0.002	0.06	0.16	4.2	<1	0.5	109.5	0.32	<0.05	5.78	0.131	0.34	2.6	34
16803		46.8	<0.002	0.14	0.13	5.4	1	0.6	89.2	0.27	<0.05	4.58	0.109	0.27	1.7	31
16804		56.4	<0.002	0.22	0.19	4.2	1	0.8	103.0	0.38	<0.05	8.05	0.148	0.32	3.1	34
16805		61.1	<0.002	0.19	0.14	6.7	<1	0.7	138.0	0.45	<0.05	9.68	0.178	0.36	3.2	58
16806		64.0	<0.002	0.13	0.14	7.6	<1	0.9	146.5	0.45	<0.05	8.77	0.191	0.35	3.1	59
16807		65.6	<0.002	0.11	0.16	7.9	1	1.0	146.5	0.48	<0.05	9.52	0.193	0.36	3.4	60
16808		63.6	<0.002	0.09	0.18	6.4	<1	0.9	139.5	0.44	<0.05	8.76	0.180	0.35	3.5	49
16809		55.7	<0.002	0.07	0.23	5.5	<1	0.7	103.0	0.39	<0.05	6.26	0.170	0.31	2.8	40
16810		44.4	<0.002	0.16	0.16	4.5	<1	0.9	71.5	0.31	<0.05	4.43	0.127	0.24	2.0	20
16811		56.0	<0.002	0.18	0.19	4.9	1	0.7	95.6	0.39	<0.05	7.44	0.155	0.32	2.6	39
16812		51.7	<0.002	0.20	0.15	4.9	1	0.9	85.1	0.32	<0.05	4.57	0.124	0.28	1.9	25
16813		64.4	<0.002	0.08	0.14	7.9	<1	0.8	141.5	0.46	<0.05	8.62	0.193	0.36	2.9	61
16814		61.3	<0.002	0.11	0.16	7.4	<1	0.8	138.5	0.42	<0.05	8.54	0.180	0.35	3.1	57
16815		68.1	<0.002	0.07	0.17	9.5	<1	1.2	154.0	0.51	<0.05	9.73	0.212	0.37	3.9	66
16816		65.2	<0.002	0.13	0.17	8.8	<1	1.1	156.5	0.53	<0.05	10.95	0.208	0.36	4.0	62
16817		65.7	<0.002	0.14	0.16	7.6	1	1.0	143.5	0.53	<0.05	10.70	0.205	0.36	4.3	56
16818		67.3	<0.002	0.10	0.15	6.7	<1	0.8	147.0	0.46	<0.05	9.85	0.181	0.38	4.0	53
16819		67.8	<0.002	0.11	0.13	5.9	<1	0.7	130.5	0.45	<0.05	9.55	0.174	0.38	3.6	48
16820		68.0	<0.002	0.12	0.14	6.1	<1	0.7	130.5	0.45	<0.05	9.89	0.177	0.39	3.8	50
16821		27.3	<0.002	2.14	87.0	4.1	37	5.8	464	0.61	41.3	7.16	0.220	1.75	2.5	34
16822		65.0	<0.002	0.08	0.25	3.7	<1	0.5	103.5	0.34	0.07	5.31	0.129	0.37	2.2	33
16823		56.4	<0.002	0.09	0.15	5.1	<1	0.4	95.1	0.32	<0.05	4.66	0.120	0.30	1.7	30
16824		55.9	<0.002	0.35	0.26	6.0	<1	0.5	97.6	0.75	<0.05	9.42	0.216	0.33	3.0	47
16825		0.2	<0.002	<0.01	<0.05	0.1	1	<0.2	85.0	<0.05	<0.05	0.07	<0.005	<0.02	0.2	1
16826		61.2	<0.002	0.14	0.24	4.6	<1	0.5	102.0	0.45	<0.05	6.56	0.156	0.34	2.3	37
16827		56.0	<0.002	0.11	0.18	4.2	1	0.4	95.5	0.40	<0.05	5.32	0.139	0.32	2.0	32
16828		57.4	<0.002	0.09	0.29	4.3	<1	0.5	95.8	0.39	<0.05	6.07	0.150	0.34	2.3	35
16829		55.7	<0.002	0.10	0.21	4.2	<1	0.4	93.8	0.37	<0.05	5.03	0.134	0.32	1.9	34
16830		59.4	<0.002	0.10	0.18	5.4	<1	0.4	107.5	0.32	<0.05	5.49	0.119	0.32	2.3	36



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - D  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Pass2mm % 0.01	Pass75um % 0.01
16791		0.5	8.6	18	99.7			
16792		0.3	9.6	13	94.3			
16793		0.3	10.0	8	83.0			
16794		0.4	8.3	12	87.9			
16795		0.6	12.0	34	230			
16796		0.5	8.6	33	129.0			
16797		0.5	8.0	26	131.0			
16798		0.4	8.1	17	127.5			
16799		0.5	6.5	27	130.5			
16800		0.5	6.3	28	126.0			
16801		12.5	6.5	4200	90.2	122		
16802		0.4	5.1	17	93.5			
16803		0.3	5.3	14	63.8			
16804		0.4	7.1	14	131.5			
16805		0.5	4.9	20	147.0			
16806		0.4	12.9	20	132.0			
16807		0.4	6.2	24	135.5			
16808		0.4	5.6	16	136.0			
16809		0.4	7.9	19	110.0			
16810		0.2	8.7	7	85.1			
16811		0.4	14.4	13	129.5			
16812		0.2	7.6	10	92.1			
16813		0.4	6.8	25	125.0			
16814		0.4	7.9	23	126.0			
16815		0.6	8.5	29	135.5			
16816		0.6	10.0	25	169.5			
16817		0.6	9.1	23	176.0			
16818		0.5	7.6	22	159.0			
16819		0.5	6.0	18	151.0			
16820		0.5	6.1	19	160.0			
16821		13.1	6.5	4190	91.0	121		
16822		0.5	6.1	22	86.4			
16823		0.4	9.6	13	73.2			
16824		0.5	17.5	19	130.0			
16825		<0.1	1.7	2	1.3			
16826		0.5	12.3	17	97.3			95.1
16827		0.4	10.5	13	84.3			96.3
16828		0.4	12.9	14	102.5			
16829		0.3	11.7	13	87.1			
16830		0.5	8.9	16	91.6		75.6	93.6



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 4 - A  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16831		2.14	0.06	6.83	9.5	300	1.62	0.35	0.40	<0.02	56.1	22.8	82	1.31	15.4	3.76
16832		2.27	0.53	7.24	24.6	100	3.30	0.52	1.61	0.05	26.4	44.0	83	2.17	888	7.04



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 4 - B  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
16831		18.05	0.15	2.9	0.030	1.55	26.9	22.9	2.30	345	1.41	2.85	4.3	52.9	500	13.0
16832		20.3	0.08	2.7	0.141	0.60	12.2	53.1	4.82	865	0.66	2.70	5.1	77.2	570	15.7





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 4 - C  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
16831		60.6	<0.002	0.09	0.22	7.9	<1	0.7	139.0	0.40	<0.05	6.39	0.204	0.34	2.1	62
16832		14.1	0.003	0.17	0.63	30.2	1	0.9	79.5	0.35	<0.05	1.81	0.684	0.14	0.8	278



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 4 - D  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
16831		0.9	7.8	32	106.5			
16832		0.7	23.7	65	106.5			



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091136**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>LOG-24</td> </tr> <tr> <td></td> <td></td> <td></td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-31	PUL-QC	SPL-21	LOG-24				WEI-21
CRU-31	CRU-QC	LOG-22											
PUL-31	PUL-QC	SPL-21	LOG-24										
			WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td></td> </tr> </table>	Ag-OG62	ME-MS61	ME-OG62									
Ag-OG62	ME-MS61	ME-OG62											



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: **BATTERY MINERAL RESOURCES LTD.**  
**THE PACIFIC BUILDING**  
**SUITE 400, 744 WEST HASTINGS STREET**  
**VANCOUVER BC V6C 1A5**

**Page: 1**  
**Total # Pages: 3 (A - D)**  
**Plus Appendix Pages**  
**Finalized Date: 2-MAY-2019**  
**This copy reported on**  
**10-MAY-2019**  
**Account: BMRPLLBW**

**CERTIFICATE SD19091138**

Project: Gowganda

This report is for 44 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091138**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
15801		1.76	0.05	6.11	6.6	240	0.97	0.15	0.47	<0.02	46.5	8.1	58	0.83	4.3	1.28
15802		1.72	0.26	6.85	20.6	280	1.06	0.32	0.27	0.02	57.1	16.6	65	0.92	451	1.83
15803		1.43	0.12	5.78	84.9	220	0.77	0.19	0.19	0.02	48.0	60.7	47	0.84	28.4	1.00
15804		1.78	0.12	6.15	36.3	230	0.81	0.19	0.49	<0.02	36.9	51.2	52	0.86	9.9	1.21
15805		1.69	0.08	5.73	36.9	200	0.63	0.14	0.93	<0.02	45.8	50.5	42	0.76	26.7	0.93
15806		1.97	0.09	5.80	4.0	190	0.54	0.13	1.03	<0.02	49.6	10.9	44	0.67	48.0	0.78
15807		1.58	0.11	6.10	14.8	190	0.56	0.15	0.88	<0.02	44.9	16.5	46	0.69	54.5	0.88
15808		1.77	0.43	6.55	19.0	250	0.74	0.23	0.42	<0.02	44.7	15.8	57	0.77	1265	1.45
15809		1.77	0.68	7.08	11.0	300	1.14	0.36	0.23	<0.02	69.4	22.0	69	0.96	1870	2.25
15810		1.66	0.89	7.22	15.0	330	1.22	0.25	0.24	0.03	69.3	24.1	65	1.10	1255	2.40
15811		1.70	1.32	7.14	5.9	310	1.36	0.39	0.23	0.05	61.7	19.4	70	1.04	1995	2.32
15812		1.74	0.50	7.03	7.6	320	1.20	0.42	0.24	0.02	72.2	14.0	68	1.05	763	2.44
15813		1.67	0.26	7.06	37.3	380	1.48	0.29	0.25	0.10	64.9	35.8	69	1.26	377	2.81
15814		2.04	0.14	6.67	26.1	330	1.21	0.34	0.30	0.03	43.7	23.5	57	1.08	107.5	2.03
15844		2.12	0.18	6.61	20.9	280	1.16	0.38	0.28	0.06	43.4	30.0	60	0.90	293	1.79
15815		0.06	>100	4.31	678	400	0.68	57.4	0.62	24.7	29.6	10.3	32	2.56	5000	2.16
15816		1.89	0.31	5.61	17.0	190	0.84	0.21	0.64	0.04	11.90	10.4	41	0.61	583	0.88
15817		2.13	0.12	6.64	10.3	310	1.05	0.26	0.35	0.02	42.0	12.5	63	0.95	54.4	1.82
15818		2.08	0.09	6.17	8.4	250	0.72	0.22	0.28	0.02	22.8	6.9	48	0.80	10.9	1.15
15819		2.00	0.15	5.93	13.0	230	0.59	0.40	0.39	<0.02	9.28	20.6	46	0.79	3.4	1.02
15820		2.02	0.27	5.62	26.0	230	0.57	0.63	0.33	<0.02	11.15	25.8	35	0.86	4.0	0.82
15821		2.06	0.35	5.76	27.5	220	0.59	1.14	0.79	<0.02	12.00	33.3	36	0.89	4.2	0.93
15822		1.90	0.34	5.81	29.1	240	0.57	1.91	0.74	<0.02	14.25	46.0	36	0.90	6.3	0.90
15823		1.87	0.51	5.65	23.8	230	0.54	2.17	0.81	<0.02	16.15	31.7	37	0.86	4.6	0.89
15824		2.14	0.52	5.59	28.1	230	0.50	3.12	0.77	<0.02	17.15	24.5	33	0.82	2.6	0.76
15825		0.51	0.01	0.10	0.3	20	0.05	0.02	32.2	<0.02	0.86	0.6	4	<0.05	1.1	0.10
15826		2.19	0.11	5.55	23.1	230	0.57	0.48	0.55	<0.02	18.50	35.5	37	0.82	4.5	0.90
15827		1.71	0.07	5.63	11.9	240	0.54	0.37	0.76	<0.02	29.6	22.5	38	0.84	2.9	1.05
15828		1.68	0.15	6.15	21.9	250	0.78	0.86	0.22	<0.02	59.5	50.0	63	0.82	6.9	1.54
15829		1.71	0.37	6.01	10.6	230	0.56	2.26	0.44	<0.02	25.7	22.8	45	0.68	2.8	1.13
15830		1.77	2.10	6.64	12.6	200	0.72	16.65	1.80	<0.02	17.30	24.3	36	0.76	6.9	1.38
15831		1.88	3.19	6.36	14.8	160	0.72	53.3	3.24	<0.02	22.1	36.7	38	0.57	14.9	1.62
15832		1.66	2.86	7.42	17.4	150	0.72	89.5	1.28	0.83	18.25	32.7	43	0.59	93.6	1.26
15833		1.81	1.07	6.24	50.1	220	0.71	2.51	0.41	0.04	19.05	58.2	54	0.74	340	1.45
15834		1.71	0.42	5.98	124.0	210	0.74	1.88	0.87	0.21	16.50	81.3	47	0.82	676	1.35
15835		1.64	0.59	5.70	643	200	0.95	5.99	1.69	<0.02	22.1	411	46	0.96	14.4	1.65
15836		1.90	6.74	9.36	2910	320	3.21	92.2	0.86	<0.02	41.8	1780	90	1.41	17.5	4.09
15837		1.53	1.32	8.10	600	210	2.23	14.90	4.26	0.03	37.1	363	67	1.08	44.5	3.98
15838		1.33	1.96	7.57	375	350	3.12	5.53	3.16	0.10	19.10	246	130	1.43	1630	8.05
15839		1.36	0.28	4.93	75.2	500	1.48	0.20	7.47	0.04	28.7	59.0	527	0.71	335	6.50



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091138**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
15801		12.20	0.09	3.5	0.011	1.40	22.0	9.3	0.64	146	1.45	3.85	4.5	20.2	500	6.7
15802		14.85	0.10	4.2	0.030	1.64	27.4	12.1	0.90	190	1.40	4.03	5.4	26.0	580	9.5
15803		11.15	0.08	2.8	0.015	1.46	22.4	6.7	0.47	135	1.16	3.69	3.7	73.4	390	10.5
15804		12.55	0.08	3.3	0.014	1.53	17.7	7.8	0.59	192	1.12	3.83	4.3	66.2	460	17.2
15805		10.95	0.10	2.5	0.013	1.38	21.9	6.2	0.43	206	1.17	3.64	3.4	60.2	340	10.1
15806		10.20	0.08	2.3	0.013	1.40	23.4	5.1	0.37	173	1.22	3.79	3.4	12.0	380	7.4
15807		11.05	0.09	2.3	0.011	1.38	21.3	5.4	0.41	165	1.17	4.02	3.7	18.4	420	6.5
15808		13.75	0.09	3.0	0.063	1.57	20.7	8.5	0.71	156	1.43	4.15	4.3	22.6	520	7.5
15809		19.35	0.11	4.5	0.087	1.68	33.0	12.9	1.12	196	1.26	4.09	5.4	32.3	660	13.2
15810		19.40	0.11	3.5	0.072	1.78	32.5	15.8	1.27	202	1.31	3.91	4.8	41.2	600	16.7
15811		18.50	0.10	4.8	0.129	1.67	29.7	14.2	1.13	183	1.41	4.07	5.7	37.7	620	11.0
15812		20.3	0.11	4.8	0.058	1.66	34.8	14.4	1.32	197	1.52	3.85	5.8	33.9	640	9.4
15813		22.0	0.11	3.9	0.043	1.89	30.8	19.3	1.55	234	1.21	3.55	6.0	74.1	600	18.4
15814		16.45	0.08	2.9	0.030	1.79	20.9	12.3	1.08	198	1.19	3.73	4.2	49.6	500	9.9
15844		15.25	0.10	2.4	0.037	1.55	20.9	11.6	0.97	167	1.26	3.90	4.0	55.1	590	9.5
15815		22.3	0.17	2.5	5.53	0.66	14.8	18.6	0.19	228	4.43	0.44	8.0	57.3	560	1020
15816		10.15	0.05	1.8	0.063	1.28	5.4	5.6	0.42	136	1.04	3.77	2.9	17.6	400	9.7
15817		16.50	0.08	3.2	0.019	1.68	19.4	11.5	0.99	179	1.76	3.85	4.9	26.0	580	13.2
15818		12.75	0.08	2.2	0.012	1.55	11.2	7.2	0.60	118	1.99	3.77	3.4	17.2	410	8.7
15819		11.30	0.06	2.1	0.010	1.60	3.6	5.1	0.49	121	2.92	3.68	3.2	31.1	340	8.7
15820		11.20	0.07	1.5	0.015	1.68	4.3	4.8	0.40	124	1.30	3.49	2.7	47.2	240	5.9
15821		11.00	0.08	1.4	0.018	1.62	4.7	4.9	0.43	184	6.75	3.50	2.6	43.0	230	6.4
15822		11.35	0.07	1.4	0.013	1.71	6.0	5.0	0.44	158	7.57	3.49	2.7	99.2	250	7.5
15823		10.65	0.09	1.4	0.011	1.65	7.0	4.8	0.40	159	15.15	3.40	2.5	27.9	230	6.7
15824		10.20	0.07	1.3	0.009	1.69	7.3	4.2	0.37	139	31.1	3.42	2.2	18.2	230	6.8
15825		0.28	0.09	0.1	<0.005	0.03	1.0	0.9	1.07	84	0.36	0.05	0.2	0.7	50	<0.5
15826		10.65	0.12	1.5	0.009	1.68	8.3	4.9	0.44	120	1.28	3.34	2.8	31.7	260	5.5
15827		10.80	0.07	1.5	0.009	1.70	13.4	5.1	0.50	135	1.58	3.31	2.8	16.7	270	6.3
15828		14.30	0.10	4.4	0.011	1.58	28.6	7.8	0.78	127	2.13	3.61	4.9	36.4	540	15.7
15829		11.15	0.07	2.1	0.010	1.60	12.0	5.3	0.56	131	10.95	3.74	3.1	16.0	400	13.3
15830		13.45	0.08	1.7	0.019	1.52	7.7	8.9	0.72	279	116.0	4.17	2.7	22.0	300	23.9
15831		17.00	0.08	2.4	0.033	1.27	8.9	8.7	0.80	475	177.5	4.95	3.9	27.0	470	64.7
15832		15.65	0.07	2.6	0.067	1.29	7.9	6.9	0.65	220	104.5	5.51	4.2	23.0	500	118.5
15833		12.95	0.07	4.1	0.051	1.52	9.3	7.1	0.76	141	36.5	3.76	4.3	25.9	470	21.4
15834		12.90	0.07	2.7	0.093	1.49	7.5	7.1	0.65	195	12.15	3.59	3.6	38.5	380	26.1
15835		14.45	0.10	2.2	0.027	1.41	9.9	13.2	0.90	318	30.9	3.22	3.5	82.9	320	21.2
15836		28.9	0.12	7.0	0.058	1.87	16.7	37.5	2.47	446	602	5.41	8.1	395	920	196.5
15837		23.5	0.11	5.4	0.108	1.26	15.0	35.4	2.32	1180	97.8	5.01	7.0	124.0	730	48.7
15838		23.1	0.09	1.7	0.253	0.82	8.8	79.3	4.48	1120	11.90	2.43	2.8	127.0	380	986
15839		12.30	0.11	1.1	0.075	0.41	13.3	41.4	7.47	1340	0.81	0.88	1.6	182.5	740	195.0



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

CERTIFICATE OF ANALYSIS SD19091138
------------------------------------

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units LOD	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
15801		55.8	<0.002	0.07	0.20	4.6	<1	0.7	101.5	0.43	<0.05	8.87	0.166	0.29	3.2	35
15802		63.1	<0.002	0.15	0.33	5.8	<1	0.9	113.5	0.52	<0.05	10.45	0.201	0.33	3.2	48
15803		56.1	<0.002	0.02	0.45	4.6	<1	0.5	89.0	0.37	<0.05	7.02	0.137	0.29	2.0	32
15804		58.6	<0.002	0.05	0.36	4.7	<1	0.7	96.5	0.42	<0.05	8.20	0.158	0.29	2.5	40
15805		53.1	<0.002	0.06	0.27	4.7	<1	0.6	86.1	0.33	<0.05	5.23	0.122	0.28	1.6	31
15806		49.0	<0.002	0.08	0.13	4.7	<1	0.4	79.7	0.33	<0.05	4.49	0.128	0.26	1.2	27
15807		50.6	<0.002	0.07	0.16	5.4	<1	0.5	81.2	0.34	<0.05	4.90	0.137	0.25	1.4	30
15808		56.3	0.002	0.22	0.21	5.1	<1	0.7	97.1	0.40	<0.05	7.59	0.164	0.31	2.0	41
15809		63.4	<0.002	0.32	0.25	6.8	1	0.9	124.5	0.51	<0.05	10.20	0.206	0.33	3.6	57
15810		67.3	<0.002	0.23	0.29	7.1	<1	1.1	138.0	0.48	<0.05	9.36	0.186	0.37	3.2	55
15811		65.9	<0.002	0.33	0.32	7.1	1	1.0	133.0	0.53	<0.05	12.30	0.208	0.36	4.8	56
15812		64.0	<0.002	0.21	0.26	7.4	<1	0.8	134.5	0.54	<0.05	11.80	0.215	0.33	4.7	63
15813		70.5	<0.002	0.14	0.41	8.5	<1	1.3	155.0	0.53	<0.05	10.35	0.215	0.36	3.6	63
15814		65.0	<0.002	0.14	0.28	6.9	<1	0.9	132.5	0.38	<0.05	7.77	0.178	0.34	2.5	52
15844		60.2	<0.002	0.08	0.27	6.2	<1	0.6	120.0	0.35	<0.05	5.72	0.158	0.31	2.1	44
15815		28.8	0.002	2.11	87.5	3.9	34	5.5	448	0.58	42.4	5.72	0.214	1.56	2.4	33
15816		46.9	<0.002	0.08	0.28	4.2	<1	0.4	82.1	0.25	<0.05	3.58	0.111	0.24	0.9	23
15817		65.0	<0.002	0.06	0.19	6.6	<1	0.8	127.5	0.46	<0.05	8.59	0.187	0.35	2.2	51
15818		58.7	<0.002	0.04	0.13	4.2	<1	0.4	102.0	0.32	<0.05	5.21	0.127	0.31	1.8	35
15819		58.2	0.002	0.05	0.17	3.7	<1	0.3	87.2	0.32	<0.05	4.78	0.121	0.31	1.6	31
15820		65.1	<0.002	<0.01	0.22	4.0	<1	0.3	87.8	0.27	<0.05	3.80	0.098	0.34	1.1	26
15821		62.5	<0.002	0.03	0.20	4.3	<1	0.3	93.8	0.26	<0.05	3.55	0.096	0.34	1.2	27
15822		66.0	0.002	0.04	0.31	3.8	<1	0.2	97.0	0.27	<0.05	3.73	0.101	0.35	1.0	27
15823		62.8	0.002	0.04	0.14	3.5	<1	0.2	88.5	0.24	<0.05	3.28	0.093	0.35	1.0	25
15824		61.3	0.003	0.04	0.12	3.0	<1	0.2	85.4	0.22	<0.05	3.35	0.088	0.33	1.0	23
15825		0.9	<0.002	<0.01	<0.05	0.2	<1	<0.2	84.6	<0.05	<0.05	0.08	0.005	<0.02	0.1	1
15826		62.8	<0.002	0.04	0.14	3.2	1	0.3	86.6	0.28	<0.05	3.78	0.107	0.32	1.0	26
15827		60.7	<0.002	0.07	0.13	3.3	<1	0.3	89.2	0.29	<0.05	3.71	0.107	0.31	0.9	29
15828		62.4	<0.002	0.15	0.34	4.3	<1	0.5	101.0	0.50	<0.05	10.05	0.171	0.32	3.4	45
15829		55.3	0.005	0.06	0.24	3.4	<1	0.3	84.9	0.31	<0.05	4.56	0.124	0.30	1.7	32
15830		53.5	0.153	0.07	0.22	6.7	<1	0.3	99.8	0.27	<0.05	3.61	0.101	0.38	2.7	38
15831		28.5	0.331	0.10	0.33	6.7	<1	0.4	103.0	0.36	<0.05	2.90	0.140	0.38	3.1	44
15832		43.5	0.264	0.09	0.45	5.6	<1	0.5	97.0	0.39	<0.05	4.79	0.152	0.32	4.4	38
15833		55.8	0.108	0.17	0.46	3.8	<1	0.5	94.7	0.43	<0.05	9.70	0.157	0.35	4.7	41
15834		52.6	0.032	0.13	0.33	4.5	<1	0.5	91.5	0.38	<0.05	6.12	0.120	0.31	2.7	32
15835		48.3	0.103	0.08	1.06	6.0	<1	0.5	101.0	0.35	<0.05	5.41	0.118	0.36	2.8	40
15836		42.8	3.52	0.21	6.36	12.5	1	1.3	162.5	0.81	<0.05	10.55	0.267	1.12	11.9	103
15837		27.0	0.671	0.21	1.42	16.6	<1	0.9	159.0	0.76	<0.05	7.64	0.228	0.46	8.8	81
15838		15.0	0.004	0.60	1.46	38.1	2	0.7	91.7	0.23	<0.05	1.94	0.429	0.46	1.1	251
15839		12.1	0.004	0.07	0.41	37.9	<1	0.5	158.5	0.09	<0.05	1.80	0.324	0.17	0.4	183



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091138**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Ag-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Ag ppm 1	Pass2mm % 0.01	Pass75um % 0.01
15801		0.4	8.6	11	133.0		78.6	93.9
15802		0.5	7.8	16	163.5			94.5
15803		0.4	8.7	9	108.5			
15804		0.5	8.8	8	125.5			
15805		0.4	9.7	6	95.7			
15806		0.2	11.1	8	88.3			96.4
15807		0.2	12.1	7	89.8			95.2
15808		0.3	9.8	11	116.0			
15809		0.4	8.8	17	169.0			
15810		0.4	8.6	19	129.0			
15811		0.4	10.1	21	182.5			
15812		0.4	8.0	19	185.0			
15813		0.5	10.7	31	141.5			
15814		0.5	9.6	19	111.5			
15844		0.3	8.8	21	91.9			
15815		12.5	6.7	4100	88.9	113		
15816		0.2	6.9	12	67.3			
15817		0.4	8.6	16	122.0			
15818		0.3	5.5	9	87.6			
15819		0.2	7.6	7	78.8			
15820		0.1	7.9	6	56.2			
15821		0.1	8.1	6	52.3			
15822		0.1	7.4	6	53.6			
15823		0.1	6.9	6	50.8			
15824		0.1	6.8	5	49.2			
15825		<0.1	2.0	4	1.7			
15826		0.1	7.3	5	58.4			
15827		0.1	5.8	6	56.1			
15828		0.5	9.0	9	174.0			
15829		0.2	7.2	7	83.6			
15830		0.2	12.8	9	66.3			
15831		0.2	14.8	12	93.9			
15832		0.2	14.4	69	105.0			
15833		0.4	9.4	12	157.5			
15834		0.3	6.9	22	89.3			
15835		0.5	7.6	14	78.6			
15836		0.8	18.1	38	229			
15837		0.7	20.9	35	179.5			
15838		1.0	15.2	95	57.9			
15839		0.4	13.1	99	37.5		79.7	89.6





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091138**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
15840		0.94	1.04	6.43	25.0	310	0.39	0.10	6.13	0.19	14.90	45.4	178	0.54	2830	7.86
15841		1.13	0.82	6.58	25.0	340	0.38	0.10	6.13	0.36	15.00	48.0	167	0.50	1860	7.94
15842		0.06	>100	4.08	640	150	0.72	57.1	0.58	24.0	28.2	10.1	28	2.73	4880	2.03
15843		2.05	0.20	6.89	9.8	60	0.29	0.03	6.56	0.07	7.54	51.6	127	0.29	386	8.65

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

CERTIFICATE OF ANALYSIS SD19091138
------------------------------------

Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
					ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
					0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
15840					14.55	0.07	1.2	0.055	0.34	6.5	28.8	5.06	1320	0.64	1.73	1.7	84.7	410	122.0
15841					14.60	0.06	1.2	0.054	0.34	6.4	28.2	4.89	1320	0.79	1.77	1.8	85.3	410	129.0
15842					21.3	0.12	2.7	4.99	0.61	14.0	19.9	0.18	213	4.50	0.41	8.1	55.6	520	960
15843					14.70	0.08	1.1	0.063	0.17	2.9	32.0	4.47	1500	0.82	1.37	1.7	88.4	280	66.7

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

<b>CERTIFICATE OF ANALYSIS SD19091138</b>
---

Sample Description	Method	Analyte	Units	LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61			
					Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
					ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
					0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
15840					10.8	0.003	0.68	0.59	41.9	<1	0.5	210	0.11	<0.05	0.70	0.431	0.15	0.2	239
15841					10.8	0.002	0.64	0.64	42.6	<1	0.5	211	0.11	<0.05	0.71	0.435	0.18	0.2	240
15842					27.5	<0.002	2.00	79.8	4.2	33	5.5	419	0.64	36.7	6.24	0.199	1.77	2.7	31
15843					4.7	0.002	0.13	0.29	48.9	<1	0.5	102.5	0.10	<0.05	0.24	0.478	0.05	0.1	269



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091138**

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Ag-OG62 Ag ppm 1	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
15840		0.6	15.9	143	36.4			
15841		0.9	16.5	175	36.0			
15842		12.9	6.1	3860	82.7	120		
15843		0.4	19.3	122	27.2			



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 2-MAY-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091138**

	<b>CERTIFICATE COMMENTS</b>												
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REE's may not be totally soluble in this method.            ME-MS61</p>												
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td>LOG-24</td> </tr> <tr> <td></td> <td></td> <td></td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-31	PUL-QC	SPL-21	LOG-24				WEI-21
CRU-31	CRU-QC	LOG-22											
PUL-31	PUL-QC	SPL-21	LOG-24										
			WEI-21										
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Ag-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td></td> </tr> </table>	Ag-OG62	ME-MS61	ME-OG62									
Ag-OG62	ME-MS61	ME-OG62											



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 1  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

**CERTIFICATE SD19091139**

Project: Gowganda

This report is for 73 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 16-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE IAN PRINGLE	MIKE HENDRICKSON	FRANK PLOEGER
----------------------------	------------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Ni-OG62	Ore Grade Ni - Four Acid	
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16865		1.74	0.12	6.38	8.5	260	1.36	0.44	0.75	0.02	51.9	12.1	60	1.09	35.2	1.71
16866		1.13	0.08	6.52	17.2	260	0.97	0.33	0.26	<0.02	44.0	13.9	51	1.04	108.0	1.46
16867		1.48	0.07	6.83	8.7	320	1.32	0.44	0.24	<0.02	65.1	20.7	62	1.33	7.4	2.39
16868		1.85	0.06	7.16	9.2	320	1.37	0.46	0.24	<0.02	60.4	21.7	62	1.33	12.8	2.34
16869		1.69	0.15	6.97	24.4	290	1.06	0.47	0.28	0.02	47.5	22.6	56	1.12	144.0	1.75
16870		1.68	0.09	7.69	28.6	380	2.04	0.24	0.26	<0.02	57.2	27.2	100	1.81	11.8	4.91
16871		1.71	0.05	6.73	9.8	310	1.08	0.18	0.26	<0.02	38.6	8.2	47	1.17	25.0	1.50
16872		1.71	0.07	6.97	45.4	320	1.27	0.32	0.29	<0.02	61.2	27.9	61	1.30	96.4	2.02
16873		1.87	0.09	6.33	13.2	250	0.99	0.45	0.50	<0.02	40.6	12.0	50	0.90	393	1.04
16874		1.64	0.03	6.77	14.0	310	1.26	0.36	0.21	0.04	49.7	11.4	57	1.05	351	1.57
16875		0.45	0.01	0.07	<0.2	10	<0.05	0.03	31.9	<0.02	1.12	0.7	3	<0.05	3.9	0.12
16876		1.63	0.11	6.84	35.3	280	1.08	0.81	0.27	<0.02	54.4	31.2	52	0.99	142.5	1.49
16877		1.85	0.20	5.73	96.4	190	0.78	1.89	1.56	<0.02	27.3	56.8	39	0.73	623	0.82
16878		1.89	0.12	6.27	474	230	0.99	2.12	1.01	<0.02	25.7	289	41	0.82	6.0	0.93
16879		1.69	0.30	7.65	523	420	1.91	4.01	0.32	<0.02	71.2	362	86	1.83	4.5	4.24
16880		1.80	0.72	7.36	2340	350	1.43	13.90	1.24	<0.02	45.2	1530	60	1.35	4.7	2.37
16881		1.59	0.92	7.97	2200	280	1.85	13.85	1.68	<0.02	43.8	1465	71	1.20	12.7	2.47
16882		1.44	0.24	7.07	463	290	1.56	5.09	0.80	<0.02	47.5	320	56	1.11	62.3	2.08
16883		2.14	0.10	6.86	109.0	320	1.41	1.11	0.28	0.08	46.6	78.8	58	1.20	21.1	1.95
16884		1.45	0.07	6.94	19.7	350	1.36	0.44	0.24	<0.02	56.6	25.8	62	1.36	3.8	2.21
16885		2.40	0.05	7.05	15.6	360	1.39	0.30	0.25	<0.02	65.0	15.8	63	1.42	2.7	2.39
16886		1.97	0.06	7.18	13.2	360	1.53	0.28	0.26	0.02	66.2	23.7	66	1.40	4.2	2.68
16887		1.97	0.07	7.28	12.0	370	1.45	0.31	0.26	<0.02	63.8	14.3	66	1.45	3.0	2.64
16888		2.16	0.07	7.27	12.0	360	1.49	0.29	0.25	<0.02	62.7	15.4	66	1.39	55.4	2.49
16889		1.76	0.10	7.18	18.0	320	1.25	0.28	0.23	<0.02	66.9	21.6	59	1.21	39.9	2.01
16890		1.78	0.09	6.95	14.4	290	1.38	0.17	0.23	<0.02	78.4	10.5	71	1.01	69.1	2.14
16891		1.70	0.09	6.76	13.5	310	1.42	0.15	0.22	<0.02	63.5	18.9	56	1.05	92.5	1.75
16892		2.05	0.09	6.92	8.3	280	1.13	0.31	0.34	0.02	48.1	9.9	58	1.02	56.4	1.75
16893		1.73	0.11	6.11	40.0	230	1.09	0.48	1.32	<0.02	36.6	31.6	45	0.88	11.2	1.34
16894		1.76	0.12	7.55	65.8	380	1.72	1.32	0.49	0.05	74.4	49.5	62	1.45	8.0	2.66
16895		1.79	0.15	7.27	67.7	350	1.49	1.22	0.25	0.18	74.3	42.1	62	1.27	5.2	2.79
16896		1.73	0.14	6.68	41.4	290	1.09	0.85	0.22	0.03	39.9	31.4	49	1.00	11.2	1.64
16897		1.46	0.11	5.80	37.1	180	1.32	0.80	1.51	<0.02	23.8	20.8	41	0.75	36.7	0.89
16898		1.50	0.06	5.01	7.8	140	1.30	0.38	2.92	<0.02	16.05	6.4	39	0.64	5.3	0.84
16899		1.10	0.08	4.70	7.4	140	1.31	0.35	3.56	<0.02	17.25	6.6	35	0.64	14.6	0.87
16900		1.98	0.17	5.18	14.1	160	1.33	0.97	2.88	0.04	18.85	17.1	54	0.71	65.2	1.12
16901		1.67	0.13	5.64	10.8	180	1.54	0.57	1.95	0.02	23.5	12.3	48	0.71	36.9	1.08
16902		1.95	0.12	6.78	21.3	280	1.29	0.65	0.88	0.19	78.7	51.2	182	1.04	23.7	2.98
16903		1.56	0.19	6.93	17.7	290	1.38	1.19	0.47	0.12	72.4	21.5	76	1.04	42.3	2.14
16904		1.22	0.14	6.39	7.6	230	1.03	0.57	1.57	0.05	46.6	11.0	45	0.96	36.4	1.41



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16865		16.25	0.11	3.7	0.020	1.52	24.4	13.3	0.87	237	1.76	3.63	5.4	27.5	500	9.6
16866		14.85	0.11	3.5	0.017	1.61	21.1	9.5	0.70	144	1.05	3.81	5.1	25.2	520	9.4
16867		20.0	0.11	3.8	0.022	1.77	30.2	17.6	1.25	206	1.01	3.56	6.4	37.0	570	10.5
16868		19.65	0.12	4.0	0.016	1.82	28.1	16.0	1.17	202	1.14	3.95	6.4	41.0	600	10.3
16869		16.55	0.11	3.6	0.021	1.68	22.2	11.6	0.83	163	1.22	4.10	5.5	38.1	520	10.4
16870		32.9	0.14	4.4	0.048	1.92	23.3	44.0	2.72	404	1.71	3.35	10.7	87.6	710	11.4
16871		15.40	0.10	3.2	0.015	1.84	18.6	11.8	0.78	147	2.03	3.79	5.0	22.5	470	9.6
16872		18.70	0.14	3.7	0.031	1.78	27.7	15.5	1.06	189	2.04	3.75	5.9	83.9	550	11.0
16873		12.95	0.10	3.6	0.050	1.54	19.1	6.6	0.48	132	1.42	3.98	4.8	22.8	520	13.6
16874		16.35	0.11	3.2	0.051	1.75	23.3	10.1	0.78	146	1.59	3.95	5.3	25.4	550	12.3
16875		0.26	0.07	<0.1	0.006	0.01	1.2	1.1	1.06	87	0.22	0.04	0.1	<0.2	50	<0.5
16876		15.20	0.18	3.3	0.033	1.63	25.3	8.9	0.74	141	7.61	4.02	4.6	32.3	550	11.7
16877		10.80	0.14	2.6	0.094	1.32	12.5	4.7	0.35	246	10.60	3.74	3.4	25.4	420	16.4
16878		11.95	0.13	3.0	0.014	1.48	12.1	5.7	0.43	197	12.70	3.99	3.6	67.2	460	8.8
16879		29.6	0.16	4.3	0.045	1.96	29.9	40.3	2.39	378	2.91	3.19	9.0	166.5	720	11.4
16880		19.85	0.14	4.1	0.036	1.96	20.2	20.2	1.27	360	77.7	3.81	5.8	276	600	20.5
16881		22.1	0.14	4.8	0.045	1.70	18.6	20.2	1.36	467	50.8	4.66	6.5	258	740	22.1
16882		19.10	0.11	3.8	0.029	1.69	21.0	14.3	1.12	259	10.05	3.95	5.1	73.2	590	13.2
16883		18.35	0.13	3.8	0.019	1.79	21.3	13.8	1.06	182	1.98	3.65	5.0	33.2	570	17.7
16884		19.45	0.14	4.2	0.022	1.93	25.6	16.8	1.19	194	1.51	3.54	5.6	36.5	570	13.6
16885		20.5	0.19	3.5	0.012	1.91	29.7	18.3	1.33	206	1.32	3.51	5.3	32.8	560	10.0
16886		21.7	0.15	3.2	0.017	2.02	30.0	21.8	1.49	231	1.36	3.41	5.2	43.1	560	12.1
16887		21.4	0.14	4.0	0.012	1.94	29.1	20.1	1.47	225	1.43	3.59	5.9	35.4	600	18.1
16888		21.1	0.14	4.3	0.021	1.93	27.7	17.8	1.37	217	1.37	3.75	5.9	34.2	610	12.9
16889		18.70	0.16	4.7	0.020	1.80	31.3	13.3	1.10	178	1.20	3.85	5.3	38.3	580	14.0
16890		18.45	0.17	5.6	0.016	1.65	36.8	14.2	1.18	196	1.59	3.74	6.1	29.7	630	15.3
16891		17.30	0.12	3.5	0.021	1.75	30.2	11.9	0.96	164	1.22	3.75	4.4	37.0	560	13.0
16892		16.55	0.10	3.4	0.023	1.66	22.8	14.3	0.95	177	1.82	3.90	4.5	27.1	540	8.8
16893		13.85	0.11	2.5	0.023	1.41	16.7	10.5	0.71	299	1.31	3.72	3.1	41.5	390	8.4
16894		21.5	0.18	3.1	0.031	2.20	35.1	23.8	1.45	270	1.71	3.59	4.6	45.7	530	14.7
16895		21.8	0.19	3.2	0.051	1.95	34.8	24.8	1.56	253	1.42	3.47	4.7	37.6	520	9.3
16896		15.35	0.12	2.4	0.015	1.72	19.2	13.5	0.86	156	1.93	3.80	3.3	35.4	450	9.2
16897		10.50	0.09	2.3	0.022	1.25	11.4	5.3	0.39	301	0.98	3.77	3.0	26.4	350	11.6
16898		9.96	0.11	1.9	0.036	1.01	7.0	4.8	0.36	524	1.36	3.79	2.5	11.9	300	7.3
16899		10.45	0.13	1.8	0.046	1.00	7.5	5.4	0.38	619	1.15	3.84	2.5	12.0	280	10.7
16900		10.85	0.13	3.2	0.045	1.14	8.4	5.8	0.47	514	1.28	3.68	4.3	17.7	370	15.6
16901		11.10	0.13	3.0	0.029	1.25	11.1	5.7	0.48	354	1.36	3.67	3.3	17.1	390	14.6
16902		18.10	0.14	3.8	0.016	1.54	37.1	17.4	2.01	311	1.23	3.49	4.5	97.3	580	13.1
16903		17.70	0.13	6.9	0.025	1.61	34.3	13.2	1.07	216	1.66	3.75	5.9	33.0	650	19.3
16904		13.00	0.12	2.9	0.025	1.46	22.0	10.9	0.70	355	1.97	3.80	3.3	20.9	400	14.8





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

CERTIFICATE OF ANALYSIS SD19091139
------------------------------------

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16865		60.3	0.002	0.08	0.34	7.7	<1	0.9	116.0	0.51	<0.05	8.39	0.171	0.37	3.4	46
16866		62.6	<0.002	0.09	0.34	6.4	1	0.8	116.0	0.48	<0.05	8.13	0.162	0.37	3.5	35
16867		68.6	<0.002	0.12	0.38	8.8	1	1.1	145.5	0.59	<0.05	10.20	0.204	0.42	3.7	55
16868		68.9	<0.002	0.19	0.43	8.5	<1	1.0	144.0	0.61	<0.05	9.87	0.203	0.48	3.8	54
16869		66.1	<0.002	0.20	0.55	6.9	<1	0.9	126.5	0.54	<0.05	9.20	0.175	0.39	3.5	41
16870		39.1	0.003	0.03	1.19	15.0	<1	3.0	154.0	0.97	<0.05	9.09	0.326	0.48	4.7	113
16871		70.3	0.002	0.03	0.57	6.5	1	0.8	130.0	0.47	<0.05	8.78	0.155	0.41	3.7	41
16872		69.7	<0.002	0.04	0.55	8.6	<1	1.2	137.0	0.55	<0.05	10.10	0.189	0.43	3.6	56
16873		58.7	<0.002	0.13	0.76	5.3	1	0.6	111.0	0.46	<0.05	7.85	0.151	0.37	3.2	31
16874		64.7	<0.002	0.08	0.80	5.9	<1	0.7	132.5	0.49	<0.05	8.44	0.166	0.42	3.5	44
16875		0.6	<0.002	0.02	<0.05	0.2	1	<0.2	77.9	<0.05	<0.05	0.10	<0.005	<0.02	0.2	1
16876		58.7	0.005	0.05	0.51	5.1	<1	0.6	124.0	0.43	<0.05	8.50	0.151	0.40	3.6	39
16877		44.9	0.005	0.10	0.45	5.9	<1	0.4	94.5	0.33	<0.05	5.43	0.111	0.33	2.2	20
16878		52.3	0.012	0.06	0.49	4.8	<1	0.4	107.0	0.36	<0.05	6.16	0.120	0.34	3.2	25
16879		58.3	0.002	0.07	0.81	12.9	<1	2.3	173.0	0.83	<0.05	10.95	0.283	0.46	4.4	86
16880		65.1	0.329	0.13	1.49	9.4	1	0.9	156.5	0.57	<0.05	9.91	0.187	0.53	5.5	59
16881		52.4	0.441	0.13	1.15	8.3	<1	1.0	149.5	0.61	<0.05	10.20	0.214	0.47	6.3	78
16882		61.2	0.098	0.08	0.55	6.4	<1	0.6	134.5	0.50	<0.05	8.84	0.163	0.41	4.1	53
16883		68.2	0.011	0.07	0.36	6.4	<1	0.7	137.5	0.47	<0.05	9.13	0.158	0.40	3.6	47
16884		72.0	0.004	0.06	0.30	7.9	<1	0.9	150.5	0.54	<0.05	9.84	0.176	0.42	4.0	53
16885		70.8	0.002	0.06	0.24	8.6	<1	0.9	154.0	0.49	<0.05	9.51	0.176	0.41	3.7	56
16886		74.0	<0.002	0.05	0.24	9.9	<1	1.1	155.5	0.47	<0.05	8.67	0.188	0.42	3.1	60
16887		70.3	<0.002	0.06	0.27	9.5	<1	1.1	163.5	0.55	<0.05	10.05	0.191	0.46	4.1	58
16888		69.7	<0.002	0.06	0.30	9.3	<1	1.0	157.0	0.54	<0.05	10.20	0.203	0.45	4.2	59
16889		68.0	0.002	0.06	0.32	7.6	1	0.8	139.0	0.51	<0.05	11.75	0.174	0.41	4.8	53
16890		60.5	<0.002	0.03	0.24	8.0	<1	0.9	123.5	0.63	<0.05	13.25	0.204	0.35	5.9	60
16891		68.9	<0.002	0.03	0.25	7.1	<1	0.6	129.5	0.40	<0.05	9.05	0.156	0.38	3.7	48
16892		65.3	<0.002	0.06	0.22	7.1	<1	0.8	118.5	0.41	<0.05	8.72	0.158	0.36	3.3	48
16893		53.4	<0.002	0.04	0.26	6.3	1	0.5	112.5	0.29	<0.05	5.32	0.114	0.30	2.0	33
16894		80.0	<0.002	0.06	0.33	8.5	<1	1.2	161.0	0.42	<0.05	8.16	0.172	0.44	3.1	53
16895		72.7	<0.002	0.07	0.42	7.0	1	1.1	142.5	0.44	<0.05	8.60	0.176	0.42	2.6	64
16896		64.1	<0.002	0.05	0.23	4.9	1	0.5	121.0	0.31	<0.05	6.37	0.123	0.37	2.1	44
16897		45.7	<0.002	0.08	0.15	6.1	1	0.4	97.0	0.31	<0.05	5.61	0.110	0.26	1.9	23
16898		30.7	<0.002	0.06	0.13	6.9	1	0.3	92.6	0.27	<0.05	3.14	0.093	0.25	1.3	22
16899		27.8	<0.002	0.05	0.11	6.7	<1	0.3	95.9	0.24	<0.05	2.87	0.090	0.25	1.1	25
16900		34.8	<0.002	0.21	0.16	7.0	1	0.4	98.1	0.47	<0.05	5.77	0.150	0.23	2.1	32
16901		42.1	<0.002	0.10	0.13	6.7	<1	0.5	96.1	0.35	<0.05	5.88	0.124	0.29	2.0	31
16902		55.4	<0.002	0.08	0.23	9.5	<1	0.7	128.0	0.43	<0.05	9.39	0.203	0.35	3.2	74
16903		62.5	<0.002	0.20	0.23	8.0	<1	0.7	132.0	0.62	<0.05	15.80	0.207	0.39	8.5	58
16904		53.5	<0.002	0.09	0.11	5.8	1	0.5	110.5	0.35	<0.05	6.80	0.126	0.31	2.9	39



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Cu % 0.001	Ni % 0.001	Pass2mm % 0.01	Pass75um % 0.01
16865		0.6	9.6	18	123.5			83.3	93.7
16866		0.5	7.0	13	124.0				95.5
16867		0.7	9.0	20	134.0				
16868		0.7	8.3	19	134.5				
16869		0.6	6.9	18	126.0				
16870		1.2	11.4	40	148.0				
16871		0.6	6.8	14	108.0				
16872		0.8	8.5	18	123.5			68.6	
16873		0.5	7.7	11	120.5				
16874		0.5	8.4	17	113.5				
16875		2.7	2.0	2	1.4				
16876		0.4	8.6	12	113.0				
16877		0.2	8.4	7	90.9				
16878		0.3	8.8	7	102.5				
16879		1.5	12.3	36	142.5				
16880		0.6	12.8	20	137.5				
16881		0.5	16.1	22	166.0			77.3	
16882		0.5	10.4	17	132.5				
16883		0.4	7.7	21	123.5				
16884		0.5	7.2	18	138.5				
16885		0.4	7.5	21	124.5				
16886		0.5	8.0	23	113.5				
16887		0.5	8.4	22	134.0				
16888		0.5	8.1	22	145.5				
16889		0.4	7.5	18	163.5				
16890		0.5	9.6	17	188.0			78.1	
16891		0.3	7.3	15	126.0				
16892		0.4	7.5	17	122.0				
16893		0.4	9.1	11	84.7				
16894		0.7	8.7	24	107.5				
16895		0.5	7.7	43	110.0				
16896		0.3	5.8	16	91.8				
16897		0.3	11.1	8	83.3				
16898		0.3	10.9	7	67.0				
16899		0.3	11.6	8	61.8				
16900		0.5	12.1	14	117.5				
16901		0.3	12.9	9	108.0				
16902		0.5	9.6	75	133.5				
16903		0.6	9.3	36	244				
16904		0.4	9.3	18	101.0			80.2	94.1



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - A  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method Analyte Units LOD	WEI-21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
16905		1.74	0.30	5.86	10.3	180	0.77	0.47	1.44	0.02	28.0	20.7	40	0.75	81.9	0.96
16906		1.62	0.26	6.02	10.4	200	1.00	0.44	1.25	<0.02	27.0	16.6	41	0.80	196.0	1.06
16907		1.78	0.28	5.81	11.2	200	0.63	0.37	1.67	0.16	31.3	14.1	38	0.86	598	1.09
16908		1.95	0.49	6.06	9.0	220	0.69	0.34	0.72	0.06	35.7	18.4	41	0.91	718	1.14
16909		2.12	0.33	6.28	9.0	230	0.73	0.26	0.41	0.10	37.7	18.7	39	0.91	556	1.23
16910		2.08	0.24	6.25	8.4	230	0.76	0.29	0.39	0.06	35.6	21.6	41	0.93	407	1.09
16911		1.99	0.29	6.02	13.5	210	0.64	0.55	1.31	0.12	30.4	37.8	44	0.84	522	1.16
16912		1.17	0.33	6.51	19.9	250	0.93	1.12	0.21	0.09	44.0	103.0	73	0.93	16.4	2.06
16913		1.94	0.24	6.83	25.9	280	1.02	1.02	0.20	0.05	58.0	93.9	71	1.01	33.7	2.31
16914		2.16	0.26	7.15	17.3	290	0.97	1.43	0.22	0.09	80.3	93.9	79	1.14	11.8	2.92
16915		1.54	0.34	6.77	51.2	280	1.09	1.78	0.24	0.07	75.4	145.5	92	1.00	62.0	2.99
16916		2.04	0.18	6.29	11.0	250	0.79	0.70	0.47	0.04	30.8	43.1	40	0.94	22.1	1.41
16917		2.03	0.19	6.02	9.7	230	0.59	0.35	1.40	0.04	17.90	18.8	31	0.96	352	1.03
16918		1.99	0.22	5.58	11.9	220	0.57	0.38	1.85	0.02	17.80	19.5	31	0.92	256	0.98
16919		0.81	0.32	5.50	15.4	220	0.64	0.49	1.94	0.03	21.7	22.8	33	0.95	232	1.10
16920		0.99	0.31	5.57	16.8	230	0.71	0.55	1.99	0.03	21.8	25.1	32	0.96	220	1.09
16921		0.07	3.75	5.26	13.4	110	0.57	1.02	3.26	1.88	16.05	924	246	0.77	>10000	17.45
16922		1.95	0.38	5.41	18.2	220	0.61	0.66	2.27	0.03	22.2	28.6	33	0.99	182.5	1.22
16923		1.60	0.19	5.96	10.8	240	0.63	0.39	0.84	0.03	16.60	26.0	36	0.87	139.5	1.16
16924		1.58	0.12	7.43	18.5	390	1.58	0.57	0.31	0.03	66.5	36.1	71	1.52	8.4	3.66
16925		0.49	0.01	0.09	<0.2	10	0.10	0.02	32.0	<0.02	1.29	1.0	2	<0.05	3.7	0.17
16926		1.56	0.22	7.11	22.3	390	1.32	0.74	0.35	0.03	53.2	35.9	70	1.40	8.4	3.60
16927		1.63	0.18	6.61	12.3	350	1.44	0.56	0.33	0.07	50.3	45.9	63	1.14	26.9	2.87
16928		1.30	0.19	6.11	12.6	260	1.42	0.51	1.36	0.02	38.2	39.5	51	1.05	106.0	2.63
16929		1.36	0.35	6.58	17.5	270	1.28	0.67	1.47	0.04	43.1	42.7	83	1.18	298	3.39
16930		1.51	0.43	5.02	10.9	160	1.37	0.29	6.12	0.03	35.6	22.8	546	1.13	575	3.45
16931		2.29	0.16	6.99	5.3	50	1.06	0.09	6.06	0.03	19.00	37.3	68	0.55	243	7.58
16932		2.03	0.30	6.78	7.9	40	0.47	0.02	8.99	0.45	7.08	44.9	101	0.08	337	8.26
16933		2.38	0.44	5.80	7.6	50	0.30	0.06	10.45	0.73	6.81	55.6	90	0.09	1360	8.21
16934		2.15	0.32	6.93	9.8	70	0.58	0.17	7.31	0.46	8.56	46.8	125	0.54	135.0	8.57
16935		1.46	1.38	2.98	226	390	0.67	0.70	8.30	7.42	7.32	53.3	705	0.38	439	4.84
16936		1.13	2.25	7.72	145.0	730	1.53	0.77	5.17	2.94	15.75	62.7	249	0.79	663	6.67
16937		1.85	0.71	5.14	80.3	360	1.72	0.19	8.50	1.43	47.4	46.4	632	1.87	109.5	5.91



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - B  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
16905		10.80	0.11	1.8	0.023	1.32	13.3	5.3	0.44	259	2.71	3.74	2.9	13.4	330	15.4
16906		11.40	0.12	1.8	0.028	1.43	12.9	5.8	0.51	215	1.65	3.72	3.2	14.3	320	11.2
16907		11.35	0.12	1.6	0.080	1.43	14.8	5.7	0.47	310	1.36	3.61	2.8	13.8	280	9.7
16908		12.30	0.12	1.7	0.078	1.52	17.2	6.1	0.53	161	1.69	3.69	3.0	14.3	310	10.4
16909		12.50	0.12	1.9	0.062	1.59	18.3	6.4	0.59	131	0.91	3.74	2.9	15.1	320	18.6
16910		12.00	0.12	1.9	0.043	1.64	16.9	6.1	0.52	116	1.11	3.79	3.1	15.6	340	21.6
16911		11.40	0.12	2.1	0.069	1.54	14.7	5.6	0.49	252	1.53	3.63	3.1	22.7	320	30.0
16912		15.85	0.13	5.3	0.015	1.60	21.4	10.6	0.96	156	2.61	3.56	5.7	28.1	580	37.7
16913		16.70	0.13	5.3	0.012	1.70	28.4	12.6	1.07	174	1.68	3.64	5.7	38.9	570	20.8
16914		19.65	0.15	6.3	0.016	1.68	38.8	18.4	1.43	220	1.65	3.58	6.4	37.8	670	57.6
16915		19.10	0.14	7.4	0.021	1.62	36.1	14.9	1.40	211	1.43	3.33	7.7	57.0	730	28.9
16916		13.25	0.13	2.1	0.012	1.75	14.7	7.6	0.68	152	1.66	3.56	3.3	20.8	330	21.6
16917		10.95	0.11	1.4	0.046	1.72	8.1	5.5	0.45	240	1.37	3.54	2.2	13.3	230	14.2
16918		10.50	0.09	1.3	0.042	1.65	7.9	5.5	0.44	318	1.40	3.32	2.2	13.7	220	16.7
16919		10.65	0.10	1.4	0.038	1.64	9.4	6.1	0.48	346	5.49	3.27	2.4	15.0	220	13.0
16920		10.95	0.13	1.7	0.035	1.64	9.7	6.3	0.49	356	5.63	3.29	2.4	15.4	210	14.6
16921		11.20	0.34	1.3	0.112	0.30	7.6	9.7	3.79	940	4.74	1.14	4.7	>10000	440	13.8
16922		11.00	0.10	1.5	0.045	1.58	10.1	6.5	0.54	424	9.25	3.16	2.6	82.7	210	13.2
16923		11.15	0.11	1.7	0.026	1.73	7.6	6.2	0.55	174	0.89	3.37	2.7	18.9	300	12.4
16924		21.9	0.17	4.0	0.020	2.05	29.0	28.4	1.96	280	1.50	3.05	5.4	52.3	620	22.4
16925		0.35	0.05	0.1	<0.005	0.01	1.3	1.5	1.62	87	0.13	0.04	0.1	1.5	70	0.6
16926		18.80	0.11	4.1	0.016	2.02	24.7	23.8	1.97	272	6.65	2.90	5.2	43.7	610	26.9
16927		15.75	0.11	4.2	0.022	1.99	25.3	16.5	1.59	226	2.53	3.04	4.8	36.9	580	15.6
16928		13.95	0.10	3.0	0.036	1.45	19.5	15.0	1.45	385	1.41	3.09	3.6	38.0	440	14.8
16929		15.70	0.10	3.0	0.066	1.38	21.1	20.5	1.99	558	1.61	3.03	3.9	68.2	480	26.3
16930		12.90	0.12	1.6	0.181	0.93	18.2	22.8	2.41	1860	1.08	1.96	2.3	93.1	240	15.4
16931		16.25	0.10	1.1	0.092	0.11	9.5	21.4	3.41	1420	0.33	3.14	2.5	54.8	400	5.6
16932		13.70	0.07	0.8	0.069	0.07	2.7	34.1	4.07	1550	0.52	2.84	1.7	72.0	290	35.6
16933		13.20	0.08	0.8	0.156	0.06	2.6	28.3	3.42	1560	2.03	2.11	1.8	75.3	270	26.1
16934		15.35	0.08	0.7	0.078	0.19	3.4	25.8	3.74	1600	2.95	1.85	1.9	84.2	290	136.0
16935		8.39	0.07	0.7	0.238	0.96	3.4	8.2	0.55	1520	4.56	0.51	1.0	322	120	1945
16936		16.30	0.10	1.4	0.160	2.17	7.4	25.7	1.77	955	4.98	2.53	2.1	180.5	530	3490
16937		13.65	0.12	2.3	0.051	0.97	22.7	37.9	5.37	1260	1.08	0.59	2.5	286	1660	1005



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - C  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
16905		47.7	<0.002	0.06	0.21	5.3	<1	0.4	85.0	0.27	<0.05	4.11	0.111	0.29	1.6	26
16906		52.6	<0.002	0.11	0.18	5.1	<1	0.4	87.3	0.32	<0.05	4.37	0.120	0.30	1.6	29
16907		53.4	<0.002	0.14	0.15	5.2	<1	0.5	93.6	0.28	<0.05	4.01	0.106	0.33	1.2	27
16908		58.8	<0.002	0.15	0.19	5.2	1	0.5	92.7	0.29	<0.05	4.52	0.115	0.29	1.5	30
16909		60.3	<0.002	0.12	0.11	4.7	1	0.5	94.0	0.29	<0.05	4.46	0.111	0.35	2.1	33
16910		62.3	<0.002	0.11	0.12	4.9	<1	0.6	93.2	0.32	<0.05	4.68	0.113	0.34	2.2	27
16911		55.8	<0.002	0.21	0.14	6.2	<1	0.5	89.1	0.33	<0.05	4.91	0.116	0.33	1.9	27
16912		62.4	0.002	0.37	0.28	6.5	1	0.6	107.0	0.63	<0.05	13.10	0.198	0.37	6.1	55
16913		64.5	<0.002	0.31	0.27	6.3	1	0.7	113.5	0.63	<0.05	12.20	0.199	0.39	5.0	58
16914		66.3	0.003	0.42	0.27	7.4	<1	0.7	119.0	0.71	<0.05	14.80	0.225	0.41	6.3	65
16915		64.7	<0.002	0.43	0.40	7.5	1	0.8	113.0	0.86	<0.05	17.05	0.264	0.40	6.1	71
16916		67.3	0.003	0.14	0.19	5.1	1	0.5	92.5	0.34	<0.05	5.32	0.121	0.36	1.9	35
16917		62.3	0.003	0.11	0.15	4.6	<1	0.4	87.0	0.23	<0.05	3.58	0.088	0.38	1.1	23
16918		57.4	<0.002	0.08	0.13	4.6	1	0.4	86.0	0.23	<0.05	3.30	0.088	0.34	1.0	23
16919		57.2	0.006	0.08	0.15	4.8	<1	0.4	91.5	0.24	<0.05	3.48	0.091	0.35	1.0	24
16920		57.2	0.005	0.09	0.13	5.0	1	0.4	93.0	0.26	<0.05	3.90	0.093	0.37	1.2	24
16921		11.3	0.041	8.38	2.97	8.9	21	2.4	176.5	0.31	4.08	1.07	0.498	0.17	0.4	74
16922		57.3	<0.002	0.11	0.21	5.5	<1	0.5	97.0	0.26	<0.05	3.63	0.098	0.36	1.2	26
16923		62.4	<0.002	0.07	0.11	4.6	1	0.3	88.4	0.28	<0.05	4.31	0.102	0.42	1.4	26
16924		68.4	<0.002	0.11	0.20	9.4	1	1.2	161.5	0.51	<0.05	9.19	0.204	0.45	3.8	64
16925		0.5	<0.002	<0.01	<0.05	0.2	1	<0.2	80.3	<0.05	<0.05	0.10	0.005	<0.02	0.2	1
16926		65.8	0.003	0.12	0.32	8.8	<1	1.3	152.0	0.49	<0.05	9.49	0.203	0.40	4.3	60
16927		74.2	<0.002	0.17	0.67	7.1	<1	0.7	129.5	0.46	<0.05	10.30	0.184	0.39	4.3	53
16928		54.0	<0.002	0.17	0.29	7.8	<1	0.6	129.5	0.34	<0.05	6.20	0.155	0.31	2.8	53
16929		53.2	0.002	0.21	0.30	10.9	1	0.9	154.5	0.36	<0.05	6.26	0.211	0.30	2.6	67
16930		45.0	<0.002	0.13	0.27	14.3	<1	0.5	138.5	0.24	<0.05	3.37	0.144	0.22	1.4	63
16931		3.1	<0.002	0.16	0.43	44.5	1	0.9	102.5	0.15	<0.05	0.40	0.598	0.08	0.2	291
16932		0.8	0.002	0.14	0.15	42.9	1	0.4	101.0	0.11	<0.05	0.24	0.469	0.02	0.1	255
16933		0.9	0.002	0.89	0.24	40.6	3	0.5	104.0	0.11	0.11	0.24	0.438	0.04	0.1	229
16934		7.4	0.002	0.49	0.60	46.1	1	0.6	121.0	0.11	0.07	0.29	0.480	0.07	0.1	272
16935		26.9	0.004	3.62	6.56	19.1	5	2.0	92.7	0.06	0.32	0.91	0.113	0.61	0.3	110
16936		56.1	0.003	3.38	4.77	49.2	5	3.1	150.0	0.12	0.36	0.68	0.431	1.03	0.4	266
16937		41.8	<0.002	0.56	1.57	25.1	1	1.0	313	0.16	0.11	3.25	0.278	0.32	1.2	152



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 3 - D  
 Total # Pages: 3 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62	Ni-OG62	CRU-QC	PUL-QC
		W ppm	Y ppm	Zn ppm	Zr ppm	Cu %	Ni %	Pass2mm %	Pass75um %
		0.1	0.1	2	0.5	0.001	0.001	0.01	0.01
16905		0.3	9.0	12	66.4				
16906		0.2	10.0	10	64.4				
16907		0.2	8.6	28	57.4				
16908		0.1	7.9	17	67.5				
16909		0.3	6.6	23	68.5				
16910		0.3	6.9	14	66.0				
16911		0.2	8.0	22	73.5				
16912		0.5	9.3	19	189.0				
16913		0.6	9.2	19	184.5				
16914		0.6	10.5	25	227				
16915		0.8	12.4	29	268				
16916		0.3	6.8	12	72.6				
16917		0.1	7.6	11	47.5				
16918		0.1	8.8	9	46.1				
16919		0.2	9.1	13	50.3				
16920		0.2	9.3	11	58.0				
16921		2.3	9.6	133	50.9	1.620	4.59		
16922		0.2	9.7	11	52.3				
16923		0.2	6.5	11	59.9				
16924		0.5	9.5	28	142.0				
16925		<0.1	2.2	3	2.0				
16926		0.5	10.1	30	138.0				
16927		0.4	8.9	35	151.0				
16928		0.4	11.2	22	112.0				
16929		0.7	11.8	29	114.0				
16930		0.4	25.1	32	58.2				
16931		0.5	26.5	57	36.2				
16932		0.3	17.2	116	21.8				
16933		0.3	18.0	139	26.9				
16934		0.6	18.5	200	29.0				
16935		1.4	6.2	2320	25.4				
16936		5.9	13.1	1020	54.8				
16937		0.9	17.1	480	93.7				



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: Appendix 1  
 Total # Appendix Pages: 1  
 Finalized Date: 30-APR-2019  
 Account: BMRPLLBW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19091139**

	<b>CERTIFICATE COMMENTS</b>										
	<b>ANALYTICAL COMMENTS</b>										
Applies to Method:	<p>REE's may not be totally soluble in this method.            ME-MS61</p>										
	<b>LABORATORY ADDRESSES</b>										
Applies to Method:	<p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> <td style="width: 15%;">LOG-24</td> </tr> <tr> <td>PUL-31</td> <td>PUL-QC</td> <td>SPL-21</td> <td></td> <td>WEI-21</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		LOG-24	PUL-31	PUL-QC	SPL-21		WEI-21
CRU-31	CRU-QC	LOG-22		LOG-24							
PUL-31	PUL-QC	SPL-21		WEI-21							
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Cu-OG62</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;">ME-OG62</td> <td style="width: 15%;"></td> <td style="width: 15%;">Ni-OG62</td> </tr> </table>	Cu-OG62	ME-MS61	ME-OG62		Ni-OG62					
Cu-OG62	ME-MS61	ME-OG62		Ni-OG62							



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
THE PACIFIC BUILDING  
SUITE 400, 744 WEST HASTINGS STREET  
VANCOUVER BC V6C 1A5

Page: 1  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 1-MAY-2019  
Account: BMRPLLBW

**CERTIFICATE SD19093003**

Project: Gowganda

This report is for 23 Drill Core samples submitted to our lab in Sudbury, ON, Canada on 18-APR-2019.

The following have access to data associated with this certificate:

PETER DOYLE  
IAN PRINGLE

MIKE HENDRICKSON

FRANK PLOEGER

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

Signature:

Colin Ramshaw, Vancouver Laboratory Manager





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

CERTIFICATE OF ANALYSIS SD19093003
------------------------------------

Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
Sample Description	0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
15778	2.19	0.13	4.97	7.5	20	0.56	0.09	7.81	0.10	13.25	63.9	360	0.09	192.5	9.81
15779	2.32	0.05	4.85	5.5	50	0.47	0.02	8.86	0.06	13.10	65.4	433	0.05	149.5	10.15
15780	2.51	0.05	4.53	14.7	40	0.47	0.03	8.42	0.05	10.15	64.0	394	0.09	104.5	9.51
15781	2.57	0.10	5.76	4.0	50	0.54	0.02	7.35	0.97	16.80	59.8	211	0.06	175.5	10.45
15782	2.66	0.14	5.55	16.6	140	0.80	0.07	7.21	0.61	22.8	60.9	261	1.15	184.5	9.43
15783	1.20	0.08	5.47	17.9	440	2.82	0.10	5.74	0.15	60.1	44.4	579	3.56	124.5	6.36
15784	1.77	0.13	5.47	15.7	290	2.40	0.17	5.95	0.20	53.4	43.5	517	2.75	58.5	6.47
15785	1.70	0.08	5.44	12.3	80	0.58	0.16	6.06	0.24	14.90	58.0	211	0.75	175.5	10.05
15786	1.84	0.13	5.54	6.7	30	0.52	0.32	4.92	0.16	16.75	56.9	170	0.29	260	10.00
15787	1.78	0.27	6.12	31.3	80	0.43	0.88	1.76	0.55	32.4	101.5	581	0.57	599	9.48
15788	1.48	0.39	5.87	26.5	20	0.65	2.04	0.88	0.19	20.6	84.2	345	0.77	402	9.13
15789	1.92	0.25	4.29	68.1	<10	0.26	0.30	4.99	0.32	12.30	81.7	1260	0.38	138.5	7.96
15790	1.91	0.09	4.24	43.7	10	0.39	0.08	5.57	0.74	11.05	72.3	998	0.49	43.7	7.95
15791	2.09	0.04	4.08	23.1	10	0.41	0.01	6.64	0.24	9.20	73.6	1440	0.19	60.2	7.73
15792	2.04	0.04	2.90	54.6	<10	0.17	0.02	4.22	0.09	6.66	107.0	2340	0.85	62.0	9.01
15793	2.01	0.03	2.39	47.5	10	0.18	0.01	5.40	0.07	5.31	95.4	2380	0.81	19.3	7.88
15794	2.43	0.04	2.68	55.1	10	0.16	0.01	5.87	0.06	5.06	94.8	2180	0.70	32.2	7.60
15795	2.40	0.04	1.88	57.4	<10	0.13	0.01	5.36	0.08	4.16	111.5	2520	0.44	33.8	8.05
15796	2.49	0.05	1.81	3.5	<10	0.13	0.02	2.39	0.08	3.23	123.0	3140	0.45	40.5	8.86
15797	2.00	0.04	1.55	4.1	<10	0.07	0.02	4.40	0.11	3.42	116.5	3170	0.30	21.7	7.90
15798	1.90	0.03	1.74	1.6	10	0.16	0.01	2.75	0.03	3.74	123.0	3070	0.38	36.5	8.63
15799	2.54	0.06	1.61	6.3	10	0.12	0.02	4.05	0.05	3.64	111.5	2920	0.44	36.4	8.06
15800	2.29	0.10	1.53	118.0	<10	0.20	0.03	2.69	0.09	3.36	125.0	3050	0.33	37.2	8.47



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19093003**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm
15778		14.05	0.07	1.7	0.074	0.07	4.3	17.1	5.73	1610	9.27	2.20	3.6	168.0	360	18.7
15779		13.65	0.07	0.9	0.064	0.12	4.2	9.0	6.15	1600	0.42	1.41	3.7	191.5	330	1.0
15780		12.60	0.07	1.4	0.061	0.10	3.3	12.5	6.06	1520	0.52	1.58	3.6	186.0	330	1.3
15781		15.90	0.08	1.7	0.071	0.13	5.6	9.7	4.64	1690	0.42	2.29	4.5	120.0	420	8.1
15782		15.95	0.09	1.6	0.150	0.31	9.0	11.6	4.79	1200	0.37	2.25	4.4	136.5	630	3.8
15783		14.25	0.13	2.7	0.051	1.67	24.9	21.1	7.28	1090	0.09	2.18	3.8	197.5	2440	6.9
15784		14.40	0.11	2.8	0.067	1.05	21.6	25.0	6.71	1080	1.85	2.00	3.9	183.5	2090	9.7
15785		15.55	0.08	1.7	0.135	0.13	5.1	19.1	5.13	1330	0.41	1.84	4.3	114.0	420	3.9
15786		17.75	0.08	1.7	0.168	0.05	6.0	23.2	5.64	981	0.51	1.60	4.5	109.0	410	9.2
15787		16.60	0.12	3.1	0.492	0.07	12.1	27.3	5.12	768	10.60	2.01	5.6	273	430	21.4
15788		13.60	0.09	2.9	0.448	0.05	6.8	44.0	6.93	652	11.50	1.20	4.3	237	420	26.8
15789		14.15	0.07	1.4	0.112	0.01	4.2	29.1	9.13	1040	2.15	0.37	2.4	623	280	9.3
15790		11.65	0.07	1.7	0.072	0.04	3.9	24.9	9.67	1120	1.61	0.49	2.4	545	270	4.7
15791		10.75	0.06	1.3	0.053	0.07	2.9	16.7	11.85	1400	0.40	0.31	2.2	718	190	2.6
15792		8.36	0.07	0.8	0.036	0.01	2.6	5.2	14.15	1380	1.66	0.03	1.5	1165	180	3.7
15793		6.86	0.06	0.3	0.027	0.02	1.8	4.0	15.10	1380	0.05	0.03	1.2	1200	120	1.6
15794		6.98	0.06	0.5	0.026	0.02	1.8	4.2	15.10	1420	<0.05	0.02	1.4	1170	180	1.7
15795		5.38	0.05	0.4	0.021	0.01	1.6	3.3	16.25	1540	<0.05	0.01	0.9	1350	110	2.3
15796		4.98	0.05	0.2	0.023	0.01	1.2	3.1	17.75	1240	<0.05	0.01	0.9	1570	130	9.9
15797		4.47	0.05	0.4	0.022	<0.01	1.3	3.8	15.65	1460	0.07	0.01	0.7	1475	100	2.2
15798		4.99	0.05	0.1	0.022	0.01	1.4	2.7	18.15	1320	0.05	0.01	0.9	1600	110	1.0
15799		4.63	0.05	0.2	0.023	0.01	1.3	3.5	16.75	1280	<0.05	0.01	0.9	1500	130	1.1
15800		4.43	0.06	0.1	0.020	<0.01	1.2	1.8	17.60	1300	<0.05	<0.01	0.8	1605	110	31.0



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLWB

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19093003**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
15778		0.5	0.004	0.12	0.10	41.2	1	0.7	131.0	0.23	<0.05	0.39	0.607	0.02	0.1	243
15779		1.4	<0.002	0.03	0.10	41.1	<1	0.5	161.5	0.22	<0.05	0.34	0.626	0.02	0.1	244
15780		1.5	<0.002	0.05	0.10	41.5	<1	0.6	102.0	0.23	<0.05	0.35	0.595	0.02	0.1	235
15781		1.5	<0.002	0.11	0.16	36.2	1	0.9	141.5	0.28	<0.05	0.43	0.728	0.03	0.1	253
15782		14.0	0.002	0.46	0.35	37.1	1	3.6	167.0	0.29	<0.05	0.99	0.670	0.17	0.4	250
15783		95.0	<0.002	0.02	0.19	27.4	1	1.2	453	0.22	<0.05	4.44	0.413	0.59	2.2	163
15784		60.2	<0.002	0.10	0.23	27.5	<1	1.3	399	0.25	0.09	4.40	0.406	0.38	2.0	160
15785		4.8	0.002	0.90	0.16	34.5	2	2.1	133.0	0.27	<0.05	0.42	0.702	0.06	0.1	249
15786		1.0	<0.002	2.02	0.32	33.4	3	5.9	93.3	0.27	0.09	0.44	0.692	0.03	0.1	245
15787		2.7	0.013	3.02	0.34	30.8	6	8.0	54.5	0.39	0.40	2.51	0.500	0.04	0.7	177
15788		1.6	0.014	2.31	0.53	21.8	4	4.6	29.0	0.33	0.37	2.63	0.340	0.08	0.7	120
15789		0.9	0.003	0.19	0.16	29.5	1	1.3	55.6	0.16	0.15	0.63	0.383	0.02	0.2	175
15790		1.4	0.002	0.09	0.14	27.4	<1	0.6	48.5	0.16	<0.05	0.71	0.372	0.02	0.2	166
15791		1.2	<0.002	0.01	0.10	30.7	<1	0.6	29.6	0.14	<0.05	0.32	0.390	0.03	0.1	179
15792		1.1	0.002	0.19	0.30	22.7	1	0.2	25.0	0.09	<0.05	0.23	0.274	0.04	0.1	131
15793		1.4	<0.002	0.04	0.37	18.7	1	0.3	36.4	0.08	<0.05	0.19	0.251	0.03	<0.1	111
15794		1.7	<0.002	0.05	0.52	17.9	1	0.2	48.9	0.09	<0.05	0.21	0.277	0.03	<0.1	109
15795		1.2	<0.002	0.05	0.50	15.3	1	0.2	65.7	0.06	<0.05	0.13	0.176	0.03	<0.1	89
15796		1.3	<0.002	0.04	0.46	15.0	1	0.2	24.2	0.06	<0.05	0.16	0.188	<0.02	<0.1	91
15797		0.5	<0.002	0.03	0.21	14.0	<1	0.2	99.4	0.05	<0.05	0.12	0.153	<0.02	<0.1	81
15798		1.3	<0.002	0.03	0.40	14.5	<1	0.2	35.6	0.05	<0.05	0.13	0.163	<0.02	<0.1	85
15799		0.8	<0.002	0.04	0.30	12.6	1	0.2	41.2	0.06	<0.05	0.15	0.176	<0.02	<0.1	79
15800		0.7	<0.002	0.08	0.37	13.8	<1	0.2	49.1	0.05	<0.05	0.12	0.147	0.02	<0.1	79



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
 THE PACIFIC BUILDING  
 SUITE 400, 744 WEST HASTINGS STREET  
 VANCOUVER BC V6C 1A5

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 1-MAY-2019  
 Account: BMRPLLW

Project: Gowganda

**CERTIFICATE OF ANALYSIS SD19093003**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Pass2mm % 0.01	Pass75um % 0.01
15778		0.2	20.9	116	65.3	80.1	96.1
15779		0.2	20.0	112	30.0		
15780		0.3	18.9	107	38.1		
15781		0.2	23.9	347	55.0		
15782		0.4	22.7	382	53.3		
15783		0.2	17.5	140	108.0		
15784		0.5	18.6	176	108.5		
15785		0.4	22.4	270	65.0		
15786		0.5	22.8	237	68.0		
15787		0.4	26.1	336	110.0		
15788		0.5	24.4	244	109.0		
15789		0.2	14.5	273	54.0		
15790		0.4	14.6	438	55.7		
15791		0.2	14.4	176	46.6		
15792		0.2	8.1	109	32.4		
15793		0.5	9.0	82	8.9		
15794		0.5	7.6	80	14.0		
15795		0.6	5.6	81	7.5		
15796		0.5	4.7	96	7.5		
15797		0.2	4.6	88	9.7		
15798		0.3	5.2	83	2.7		
15799		0.3	4.9	83	4.4		
15800		0.4	4.7	116	3.5		



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com/geochemistry

To: BATTERY MINERAL RESOURCES LTD.  
THE PACIFIC BUILDING  
SUITE 400, 744 WEST HASTINGS STREET  
VANCOUVER BC V6C 1A5

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 1-MAY-2019  
Account: BMRPLLBW

Project: Gowganda

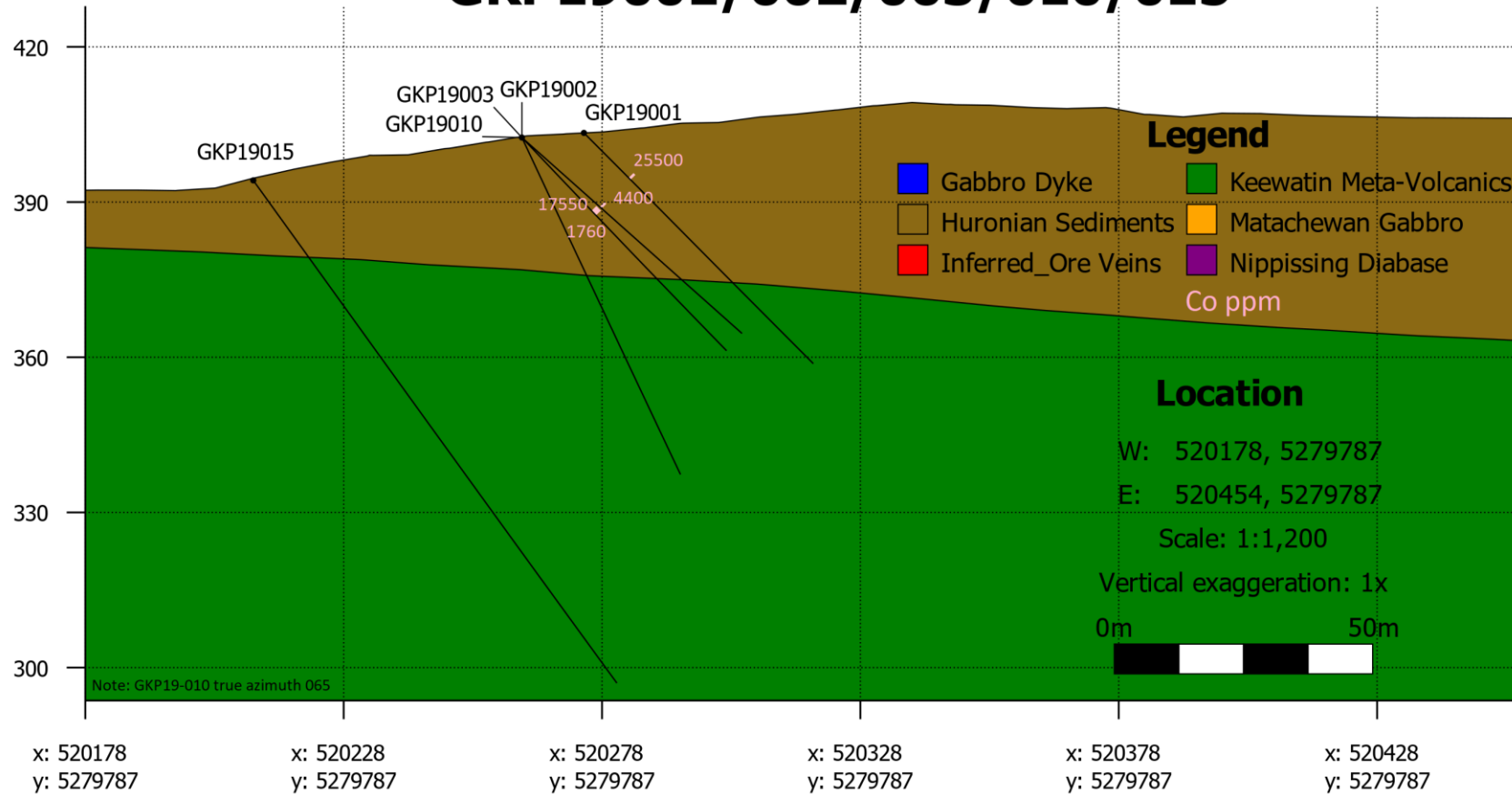
**CERTIFICATE OF ANALYSIS SD19093003**

<b>CERTIFICATE COMMENTS</b>	
	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>Applies to Method: REE's may not be totally soluble in this method. ME-MS61</p> <p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada. CRU-31 CRU-QC LOG-22 PUL-31 PUL-QC SPL-21 WEI-21</p> <p>Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. ME-MS61</p>

W

E

# GKP19001/002/003/010/015



x: 520178  
y: 5279787

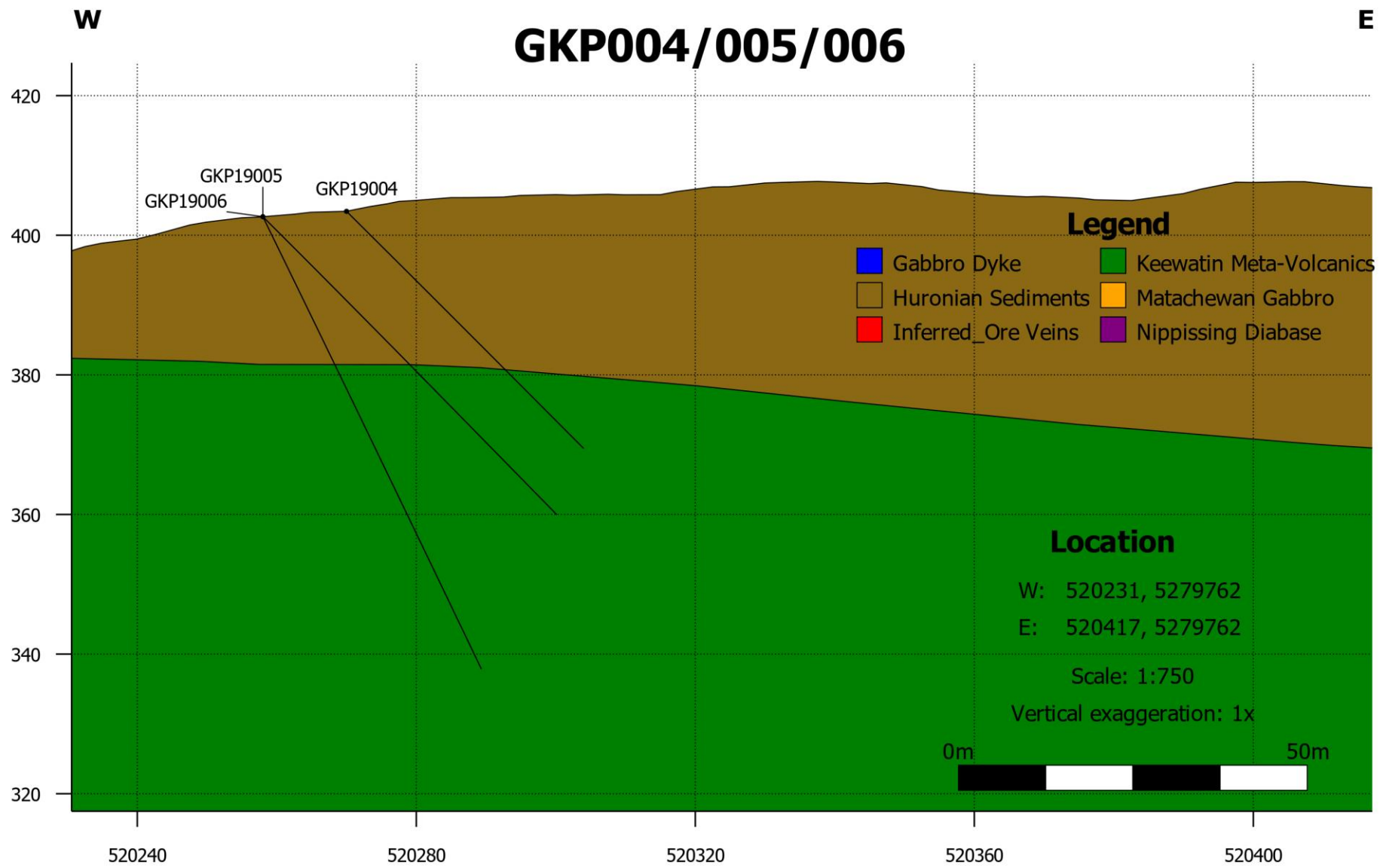
x: 520228  
y: 5279787

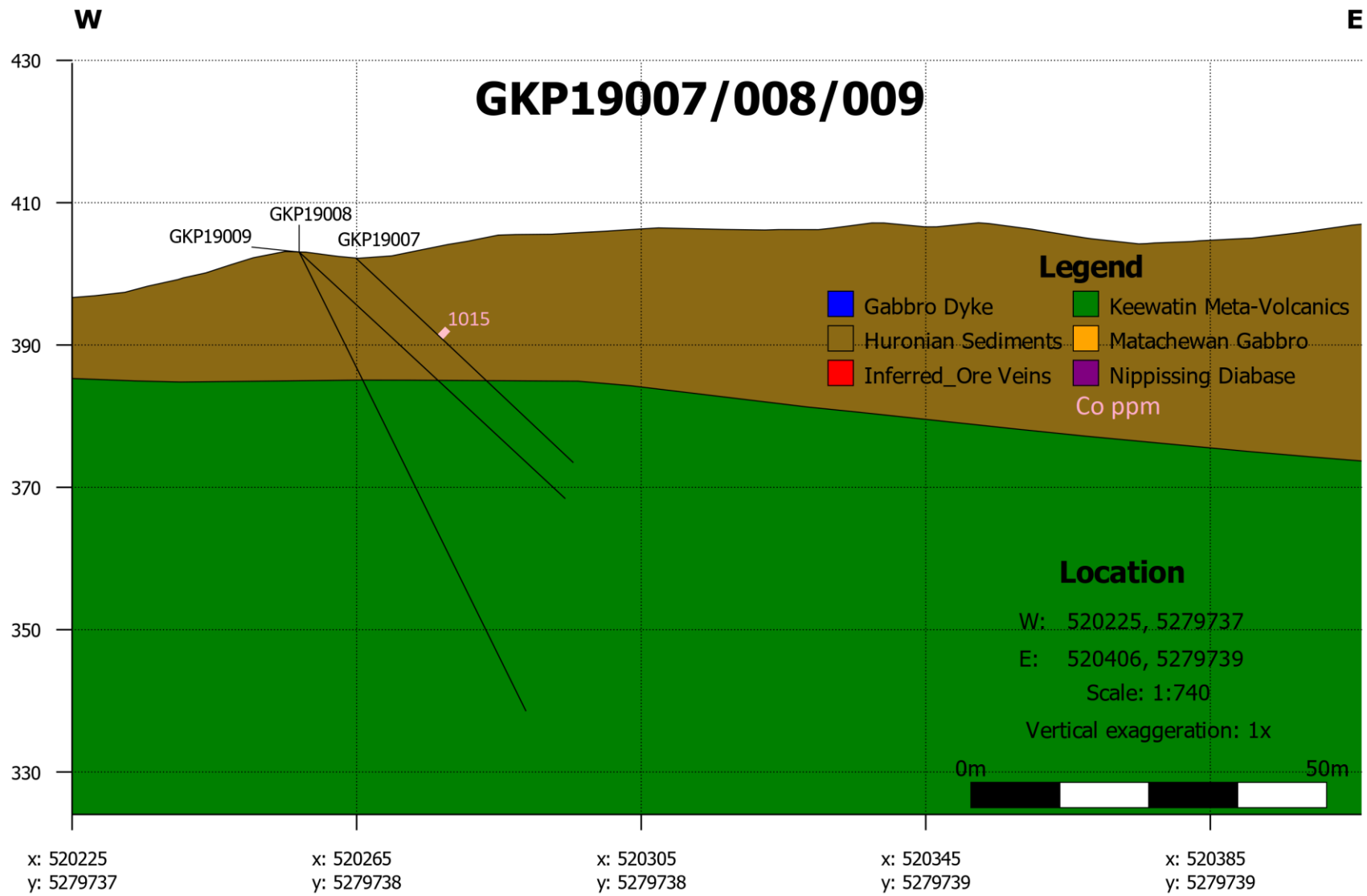
x: 520278  
y: 5279787

x: 520328  
y: 5279787

x: 520378  
y: 5279787

x: 520428  
y: 5279787



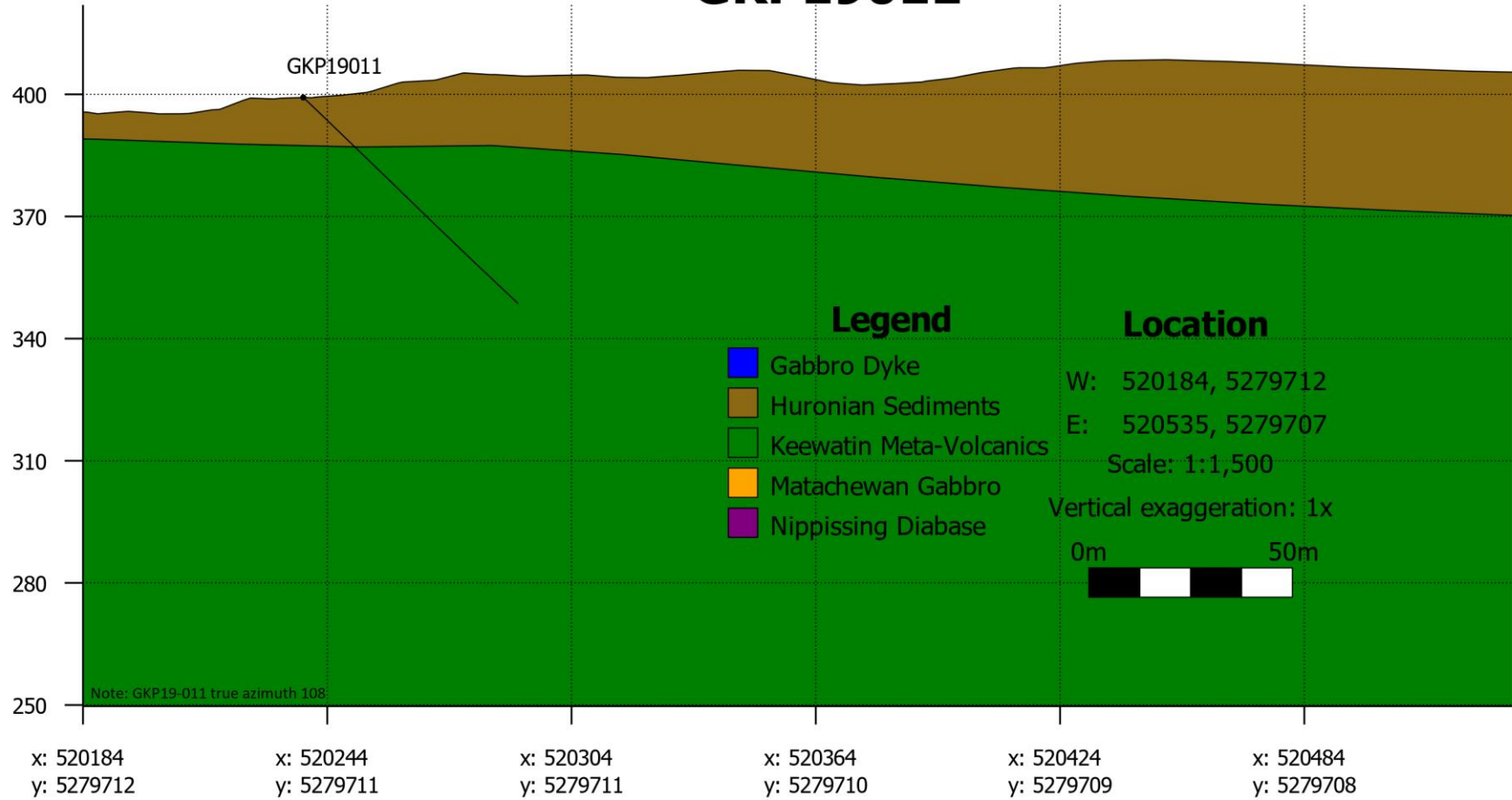




W

# GKP19011

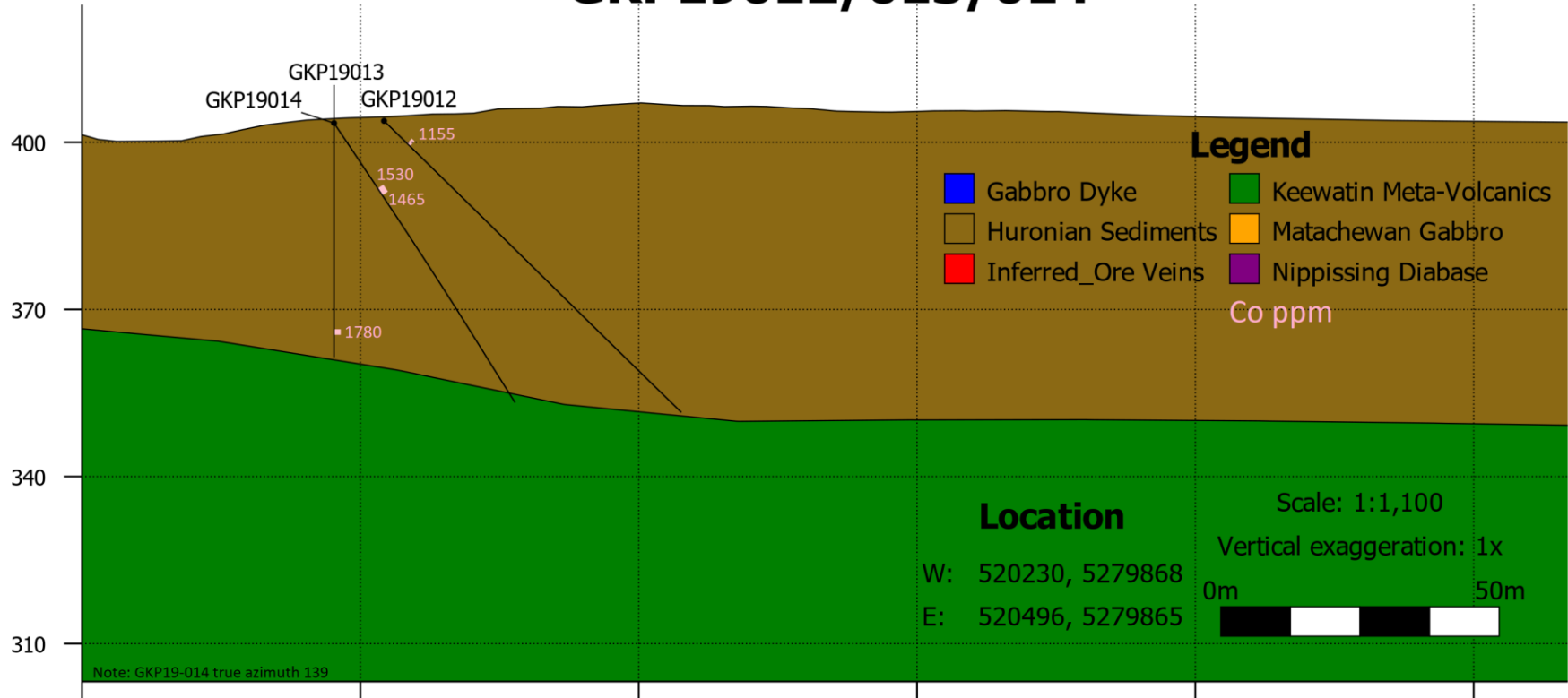
E



W

E

# GKP19012/013/014



x: 520230  
y: 5279868

x: 520280  
y: 5279868

x: 520330  
y: 5279867

x: 520380  
y: 5279867

x: 520430  
y: 5279866

x: 520480  
y: 5279866

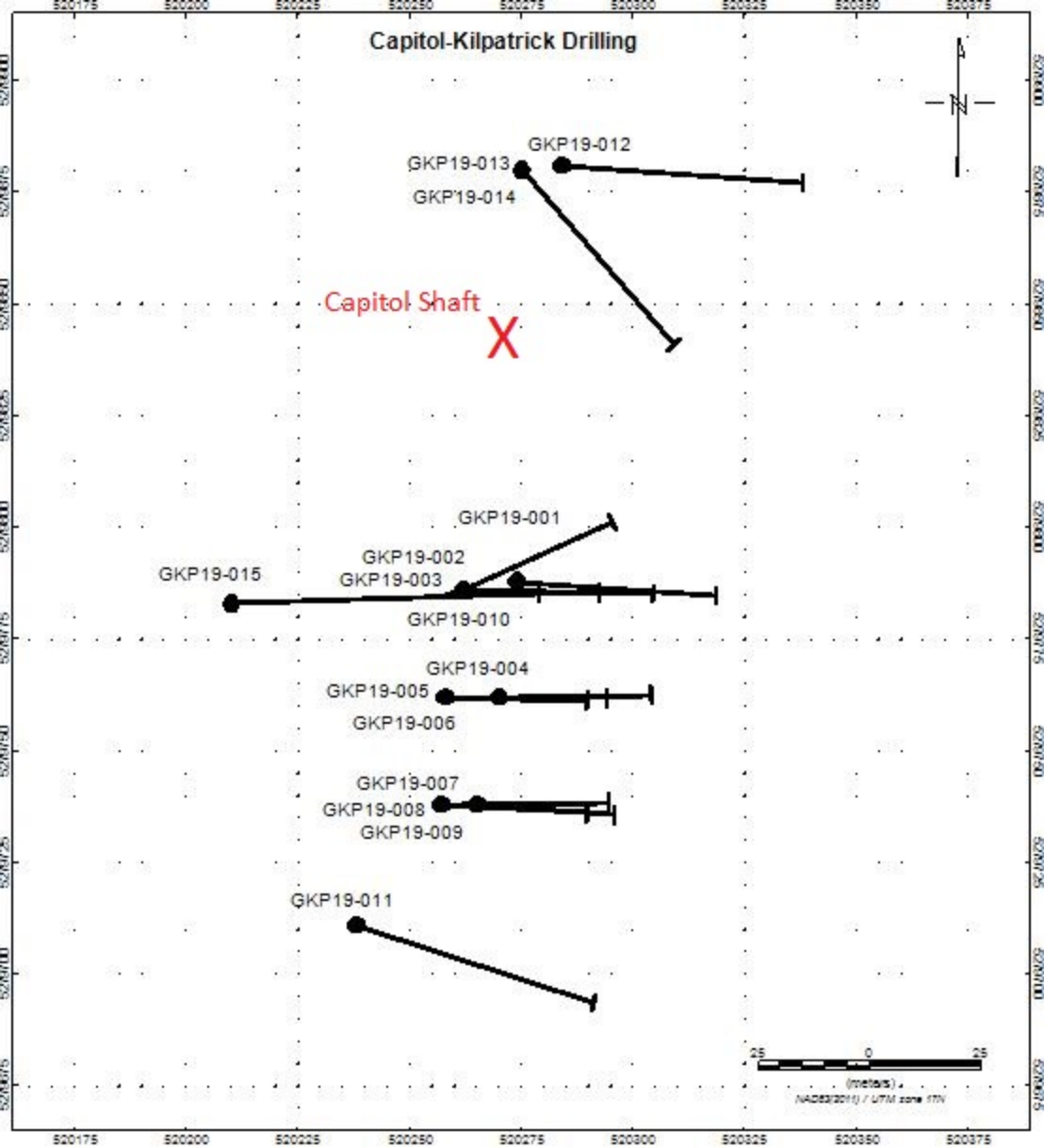
**Location**  
 W: 520230, 5279868  
 E: 520496, 5279865

Scale: 1:1,100  
 Vertical exaggeration: 1x

0m 50m

Note: GKP19-014 true azimuth 139

# Capitol-Kilpatrick Drilling



# Evaluation of the Kilpatrick Prospect

Mike Hendrickson

7/15/2019

## Summary

The Kilpatrick prospect was drilled by Battery Mineral Resources Ltd. (BMR) in March and April of 2019 to determine the depth and lateral continuity of the vein system exposed at surface. Generally east-trending holes were drilled to shallow depths, with only two of the holes intercepting thin, significantly mineralized cobalt veins. The edge of the main IP anomaly coincides with high grade cobalt intercepts and was not systemically drill tested by the previous program. This anomaly should be tested with several holes, as should the surrounding coincident IP and electromagnetic anomalies in mafic volcanic rocks for VMS-associated cobalt deposits.

## Geological and Geophysical Setting

The prospect comprises a cobalt bearing vein exposed at surface near the Captiol silver deposit that is in turn part of the historically producing Gowganda silver mining camp on the northern margin of the Paleoproterozoic Huronian basin (Figure 1). Cobalt occurs near the contact between Archean mafic volcanic rocks and unconformably overlying Huronian sediment host rock (Figure 2). The known Co-vein is ~700 meters from a Nipissing gabbro sill that may have overlain the host rocks during mineralization.

Cobalt and silver mineralized zones in the project area are hosted in a north trending, teardrop shaped Nipissing sub-basin. Most of the historic drilling was concentrated on the Nipissing-Huronian contact, or the Nipissing itself, as these are the historical hosts for silver-cobalt deposits. The cobalt vein at Kilpatrick is hosted near the western margin of the sub-basin and may be in an erosional window that exposes Archean bedrock underlying the Nipissing gabbro (Figure 3). The area surrounding prospect contains numerous, predominately silver-dominant mineral occurrences that also contain accessory cobalt.

High-resolution aeromagnetic data collected from the project area are heterogenous—depicting Archean mafic volcanic rocks and granite, as well as Nipissing gabbro and Huronian sediments (Figure 3). Huronian sediments and Archean granite rocks coincide with magnetic lows, whereas mafic volcanic rocks coincide with magnetic highs with internal lows. The Nipissing gabbro, which varies widely in magnetic susceptibility across the Huronian basin, has relatively consistent moderate amplitude magnetic signatures. These data are useful for identifying covered, magnetic mafic volcanic rocks that are known to coincide with cobalt-rich veins (e.g., Kilpatrick; Figure 3)

Data from airborne electromagnetic data highlight numerous low intensity cultural anomalies, but also contain three moderate amplitude conductors that may represent Archean bedrock conductors. Kilpatrick is near one of these anomalies, and the other two remain unevaluated by BMR (Figure 2).

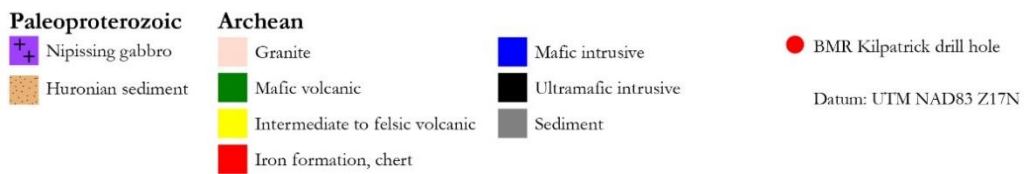
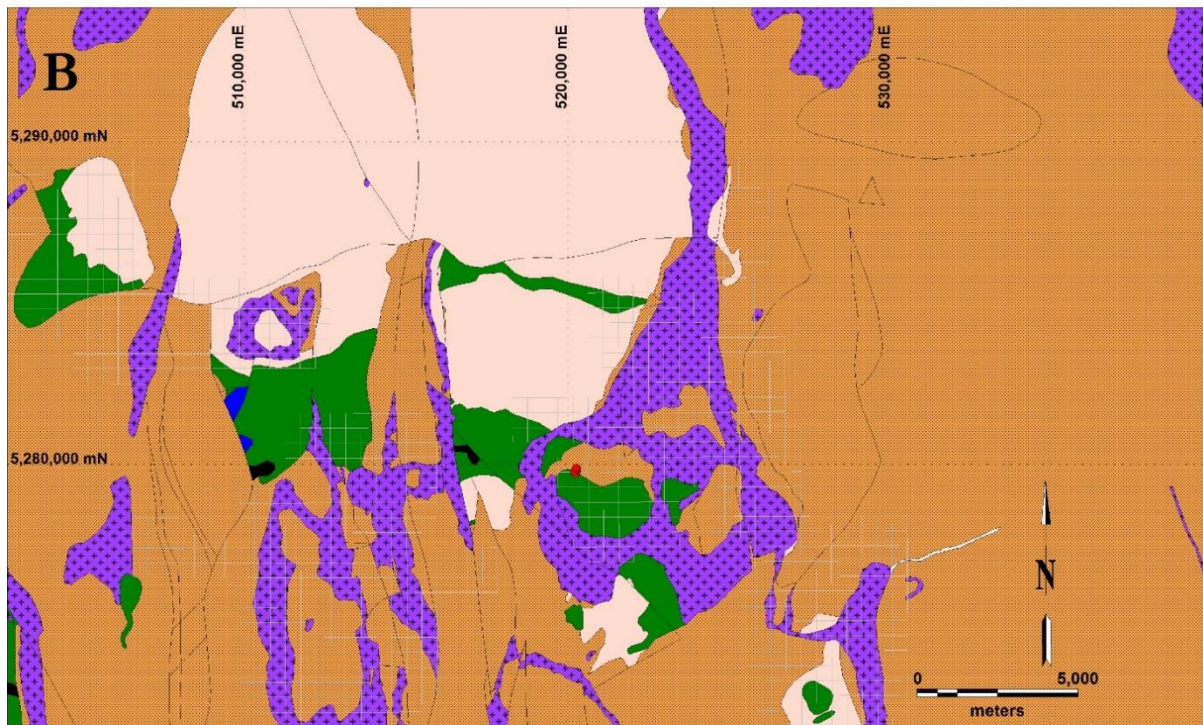
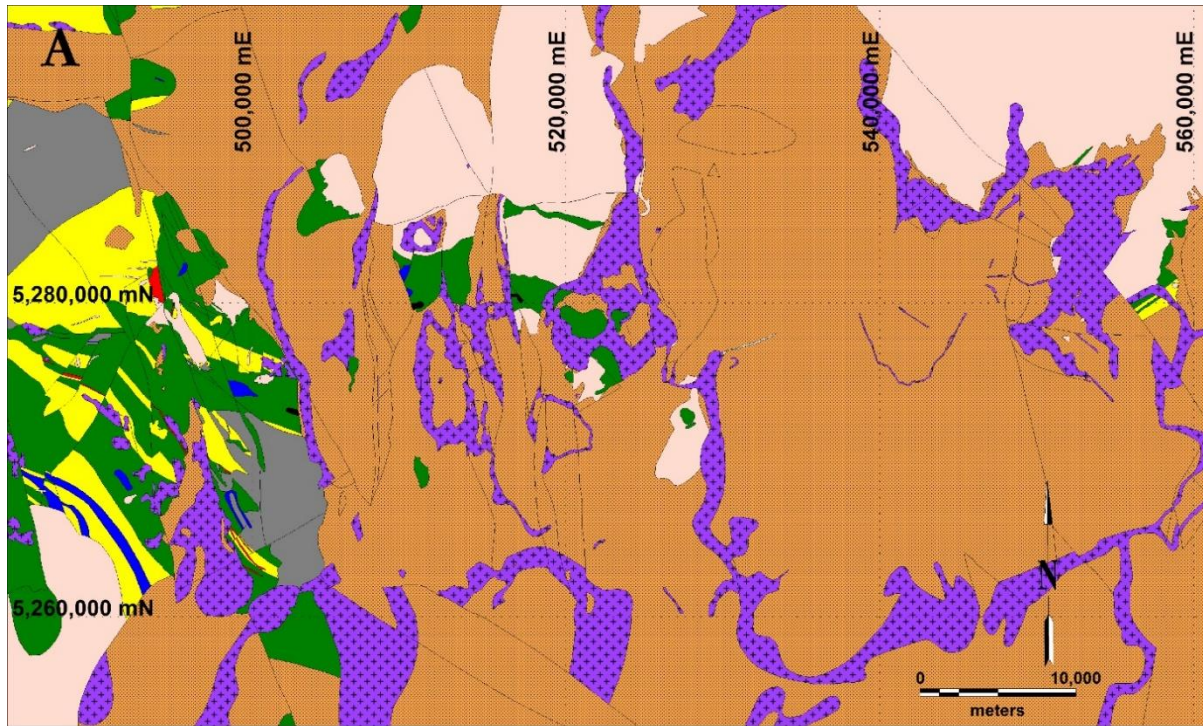
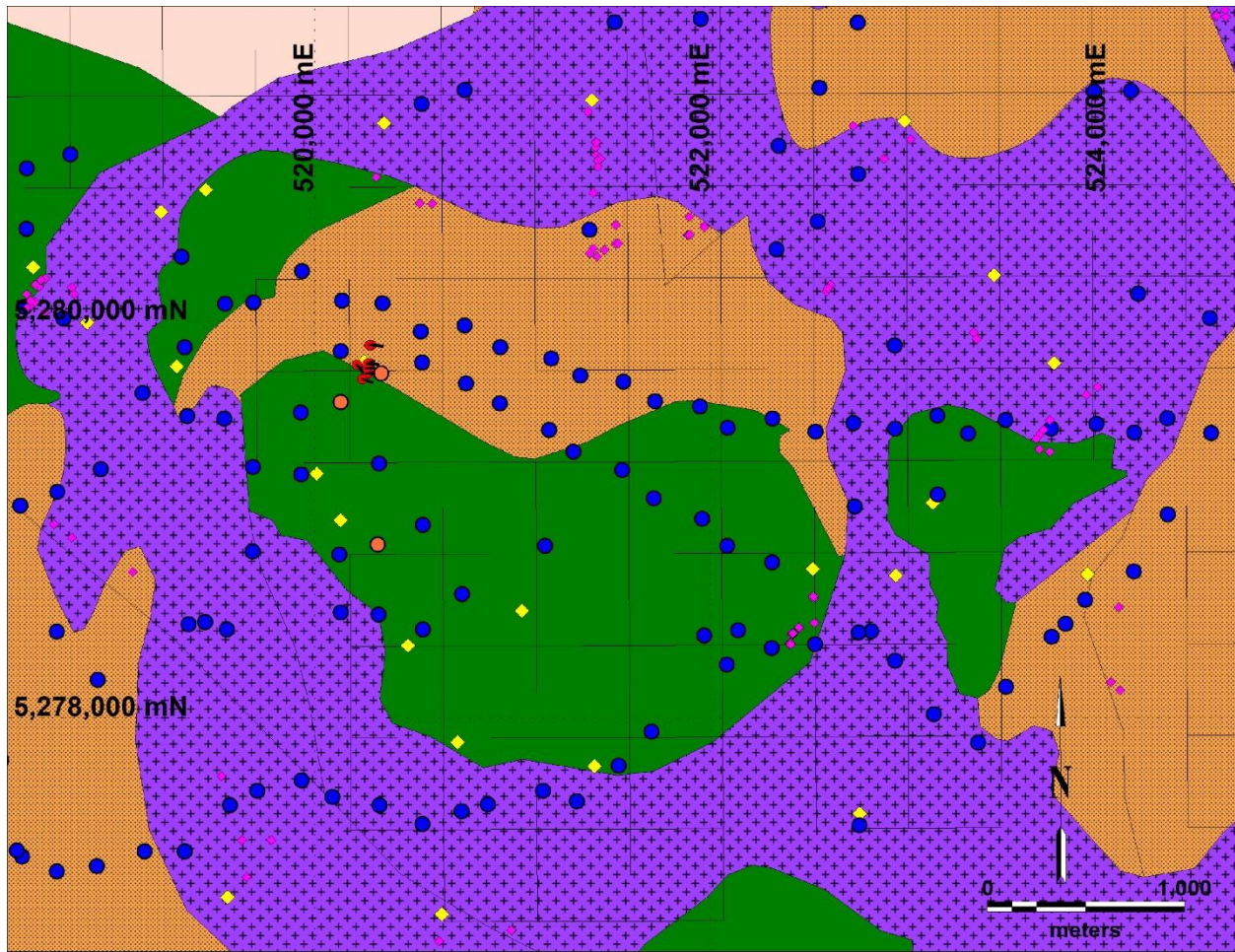


Figure 1: Regional (A) and sub-basin scale (B) geology of the Gowganda area.



Datum: UTM NAD83 Z17N

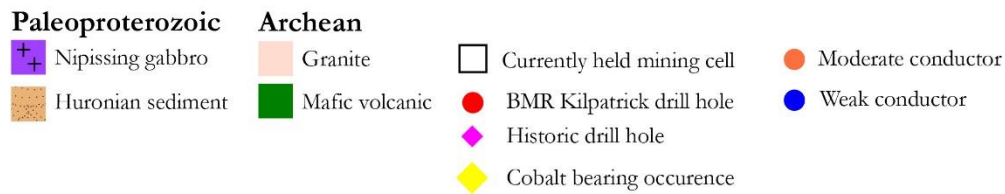


Figure 2: Local geology of the Kilpatrick prospect area with EM data, mineral occurrences, and historic drill holes.

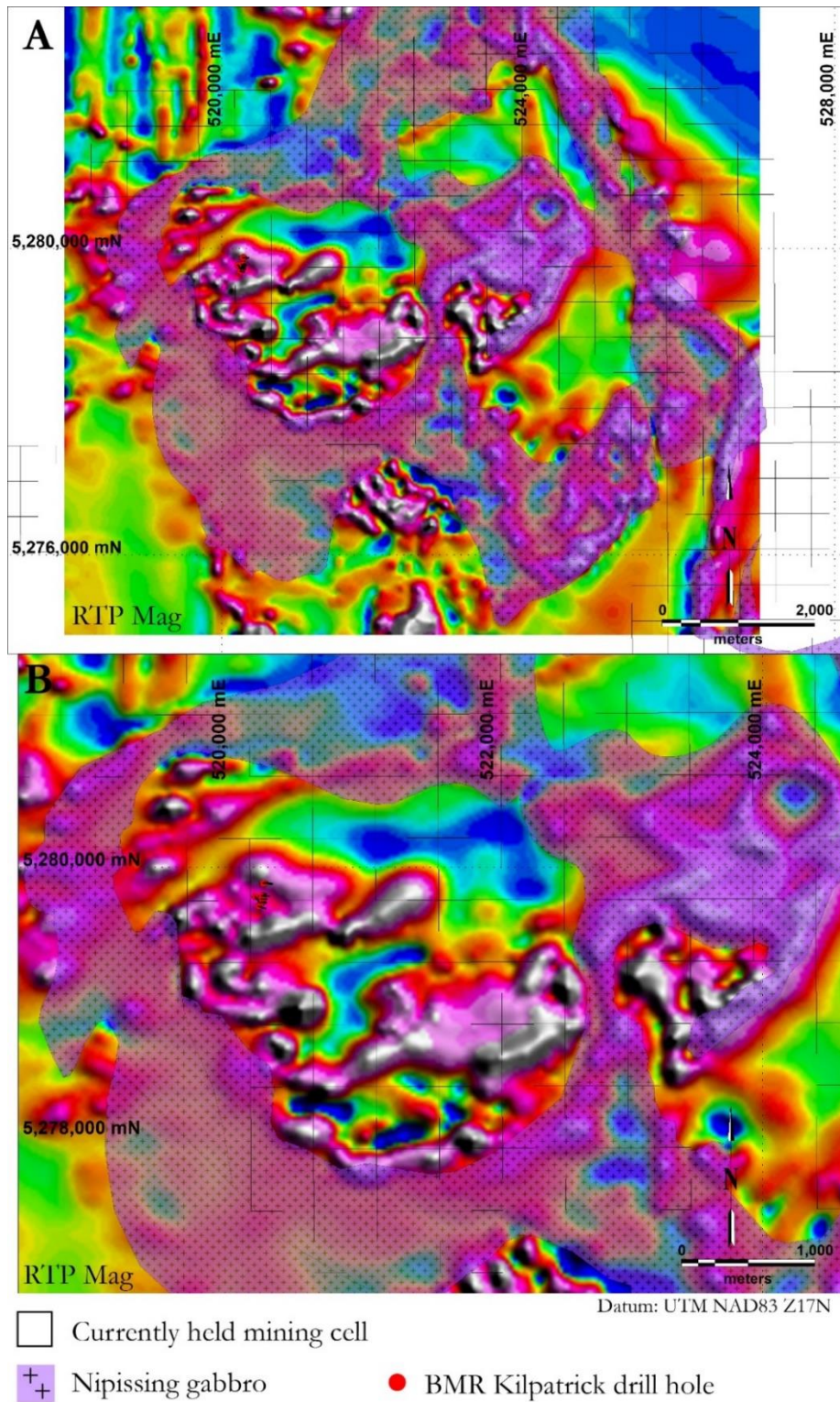


Figure 3: Nipissing gabbro at sub-basin scale (A) and prospect scale (B) plotted on the RTP magnetic data showing that it has moderate amplitude magnetic signatures, whereas the mafic volcanic basement that underlies the Kilpatrick prospect is typically higher amplitude and magnetically heterogenous.

## Prospect Geophysics

Inversions of the 3D induced polarization (IP) data from the Kilpatrick prospect (Figures 4, 5) highlight three discrete anomalies near surface (0m, -50m, and -100m), and a single significant, north-trending anomaly at depth (-150m, -200m, and -250m). None of these anomalies have been tested by BMR. Based on the drill data, the Huronian sediments form a thin veneer on top of the Archean metavolcanics basement, so most of the IP responses may reflect sulfide minerals in the basement rocks that may be prospective for hosting cobalt veins, or McAra-style (VMS-associated) cobalt deposits.

BMR drill data overlain on the near surface IP data show that the cobalt vein intercepted in drilling coincides with margin of a significant anomaly (Figure 5). The highest amplitude part of this anomaly remains untested and should be drilled and (or) excavated at surface. It is possible that the surface mineralized zone at Kilpatrick is the distal part of a larger vein system represented by the IP anomaly.



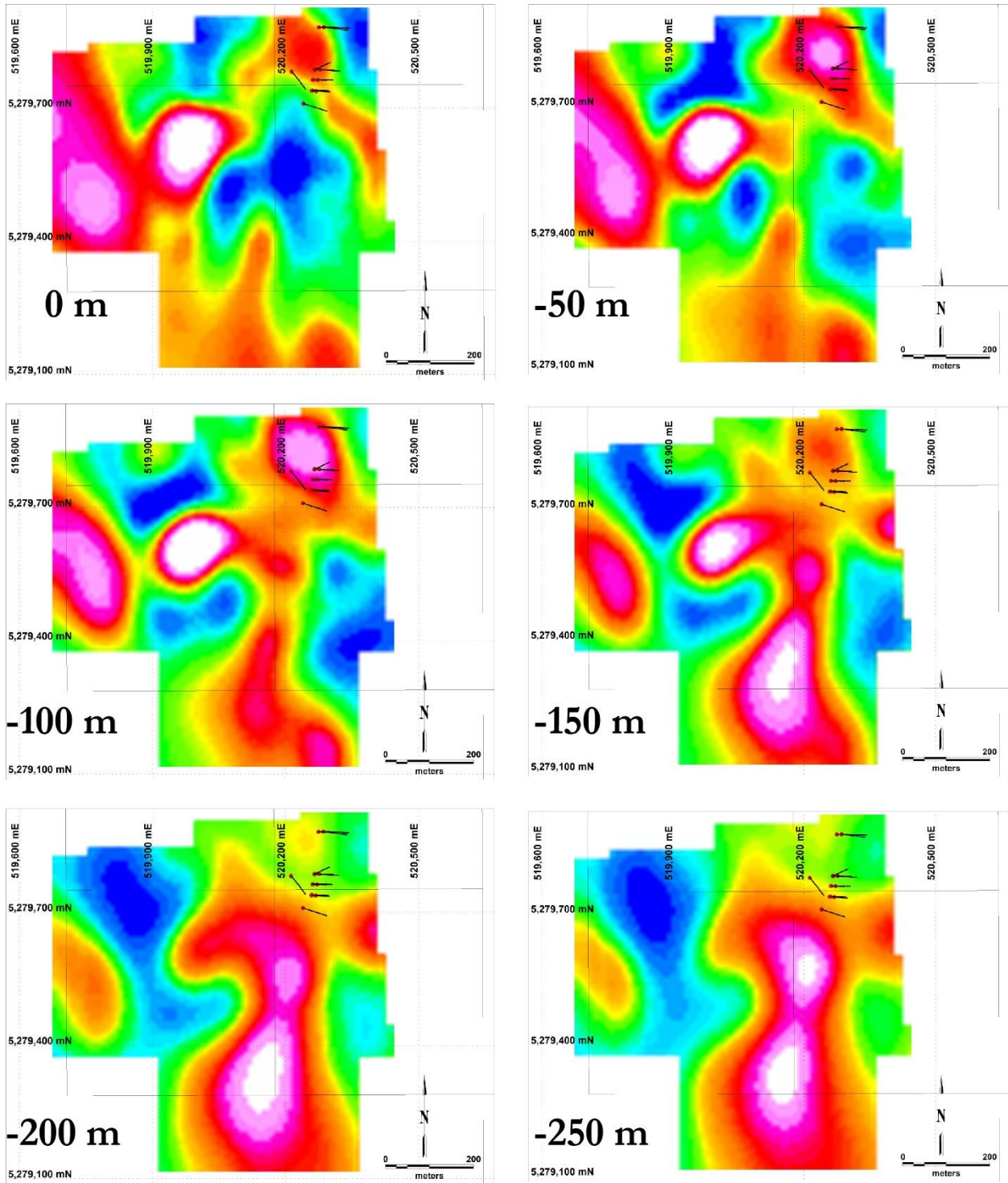


Figure 4: IP depth slices from the Kilpatrick prospect. BMR drill hole locations are denoted by red circles and projected to surface hole traces are shown as black lines. The IP anomaly next to the drilled vein has not been drill tested.

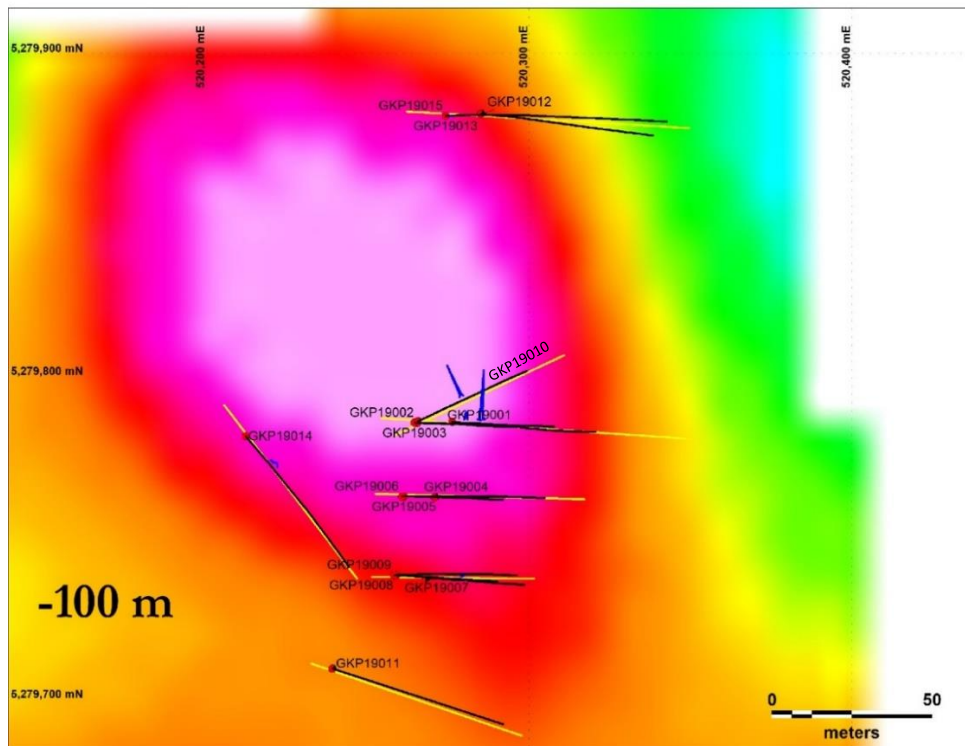
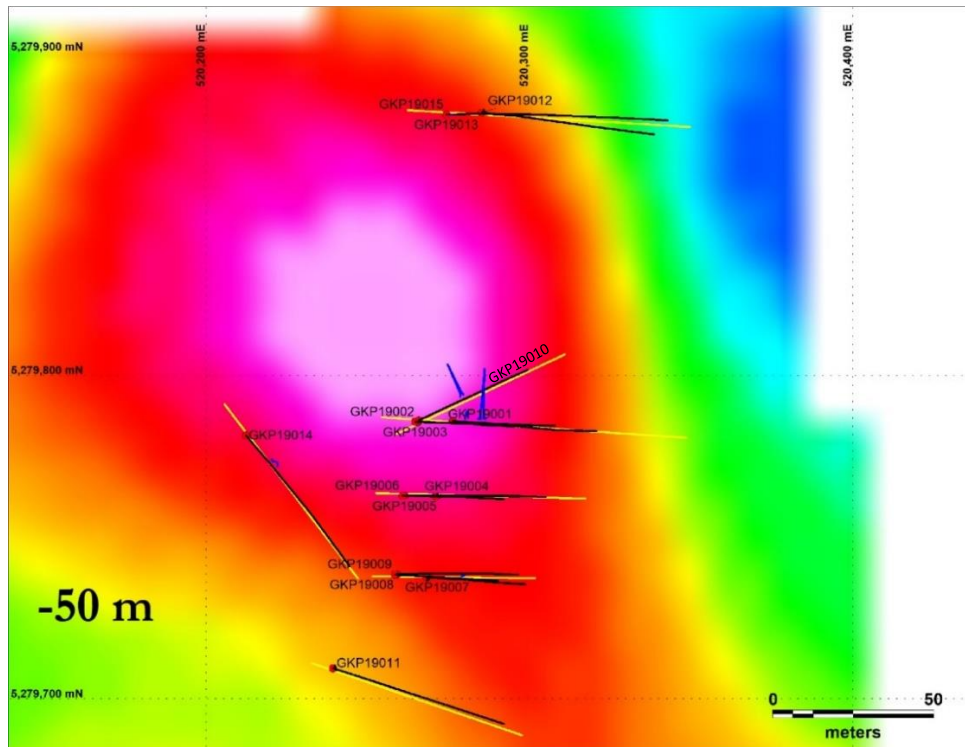


Figure 5: Near surface IP data from the drilled vein at the Kilpatrick prospect. BMR drill hole locations are denoted by red circles and projected to surface hole traces are shown as black lines. Significant cobalt intercepts are denoted by blue lines. Section lines for Figures 6 and 7 are shown as yellow lines. A high amplitude EM anomaly coincides with the high cobalt drill intercepts, and should be fully drill tested.

## Drill Results

Fifteen holes for a total of 960 meters were drilled by BMR at the Kilpatrick prospect. Of those, only holes GKP001 and GKP010 intercepted ore grade cobalt zones (greater than 1%), and holes GKP002, GKP013, and GKP014 intercepted anomalous cobalt zones (greater than 200 ppm) (Figures 6, 7, 8, 9). All the anomalous cobalt values are hosted by fine grained clastic Huronian sediments, commonly tens of meters from the Archean contact. The Gowganda formation diamictite units (called “conglomerate” in the field logs) at Kilpatrick are prevalent south of the cobalt zones, and conspicuously coincide with an absence of anomalous cobalt values indicating it is a non-prospective (i.e., impermeable or rheologically unfavorable) host rock (Figures 6, 7)

The drilled area covers a strike length of ~200m, and over that distance the depth to basement Archean rocks varies widely (Figures 8, 9). This variation could be explained by undulating basement topography, but more likely reflects synsedimentary faults that mark rapid thickness variations in the Huronian sediments and controlled sub-basin development in the Paleoproterozoic. These growth faults likely focused mineralizing fluids to depositions sites and should be better defined to plan follow up work.

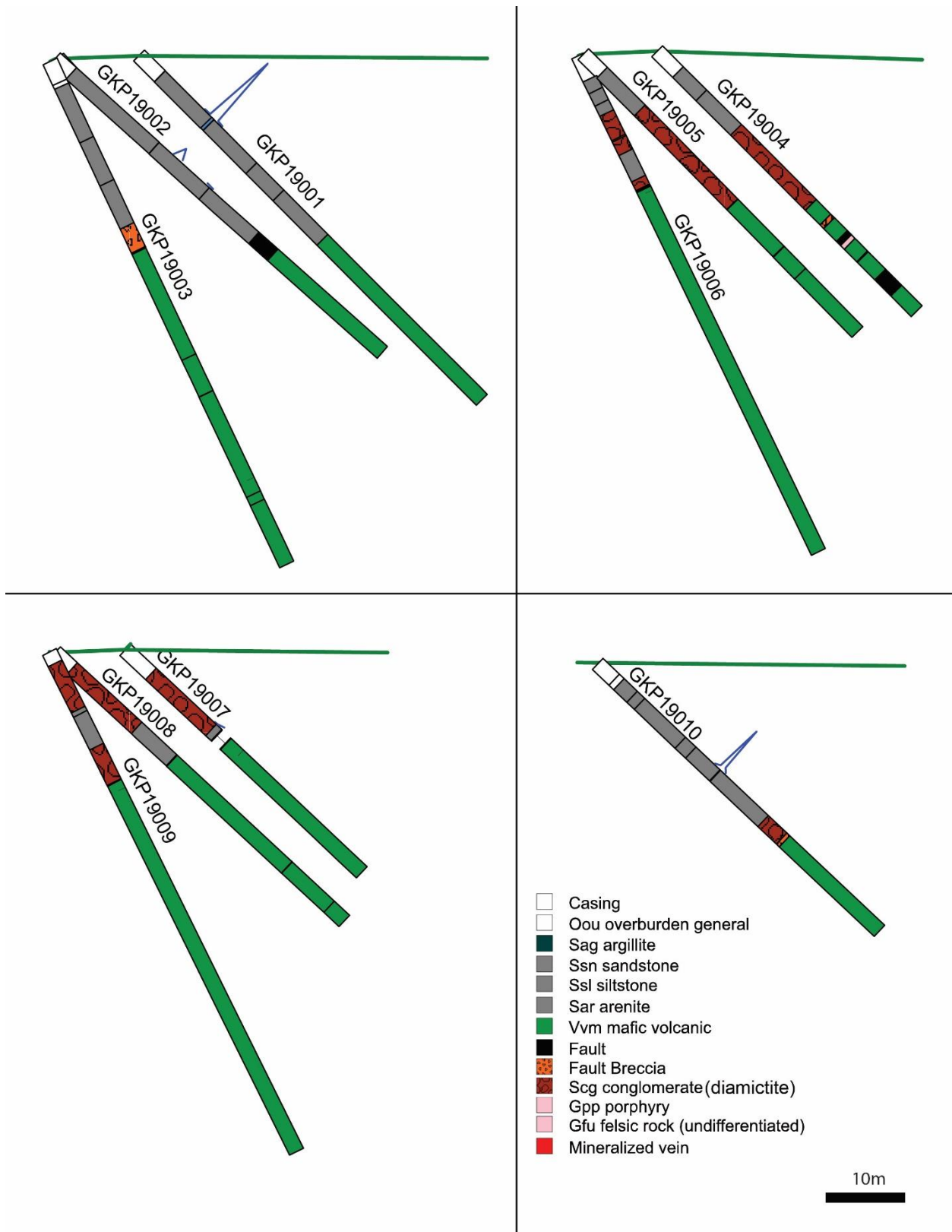


Figure 6: North-oriented cross sections of holes GKP001 through GKP010. Section lines are shown as yellow lines in Figure 5.

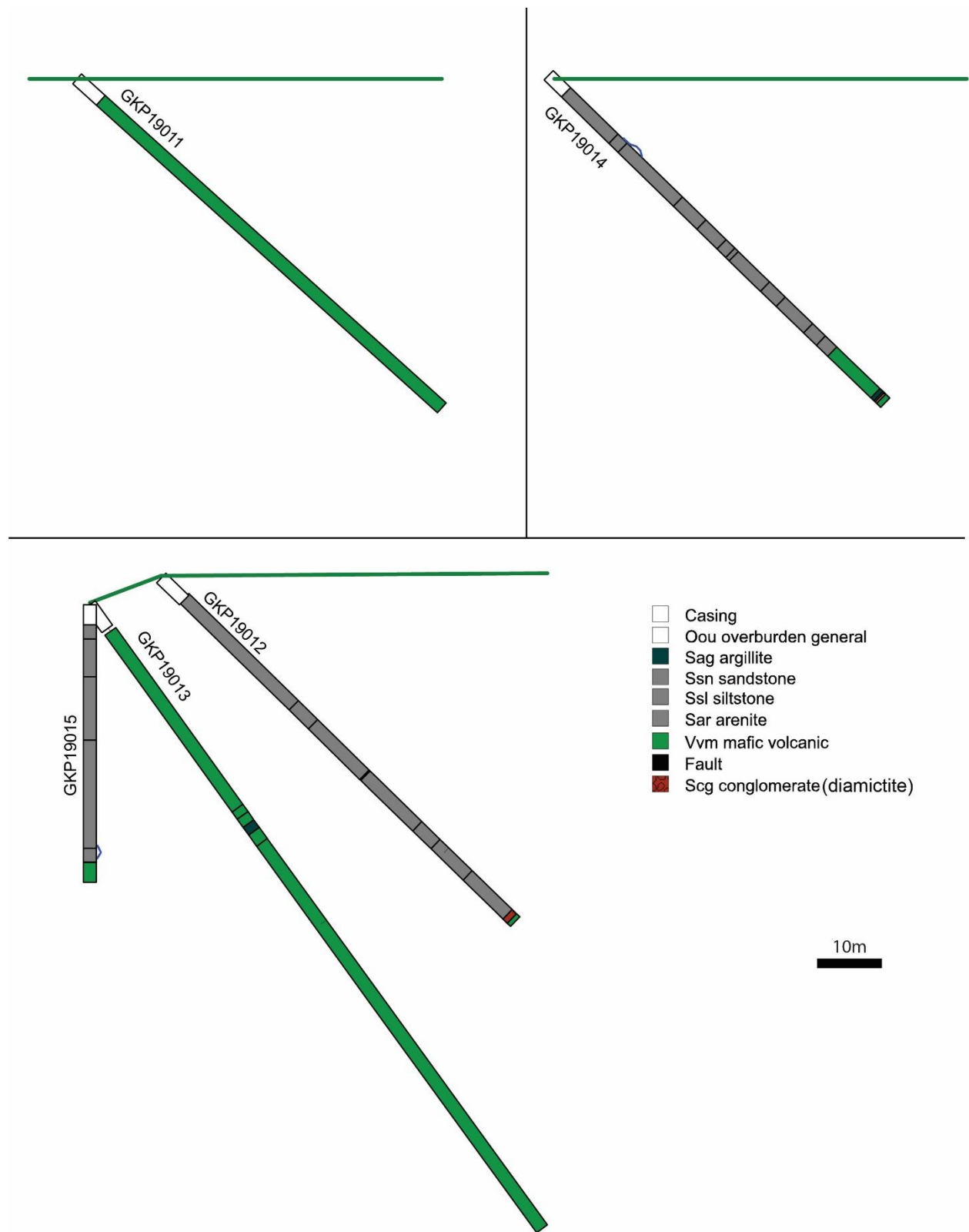


Figure 7: North-oriented cross sections of holes GKP011 through GKP015. Section lines are shown as yellow lines in Figure 5.

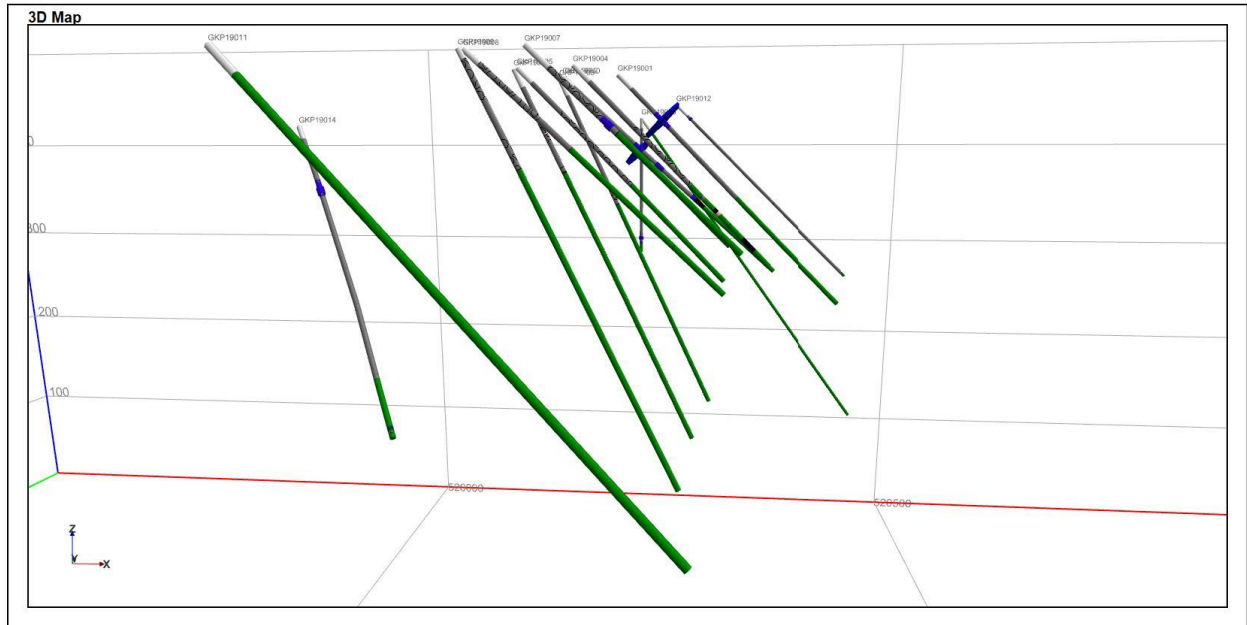


Figure 8: North-oriented view of the Kilpatrick drill holes and cobalt intercepts (blue discs). The lithology legend is in Figures 6 and 7.

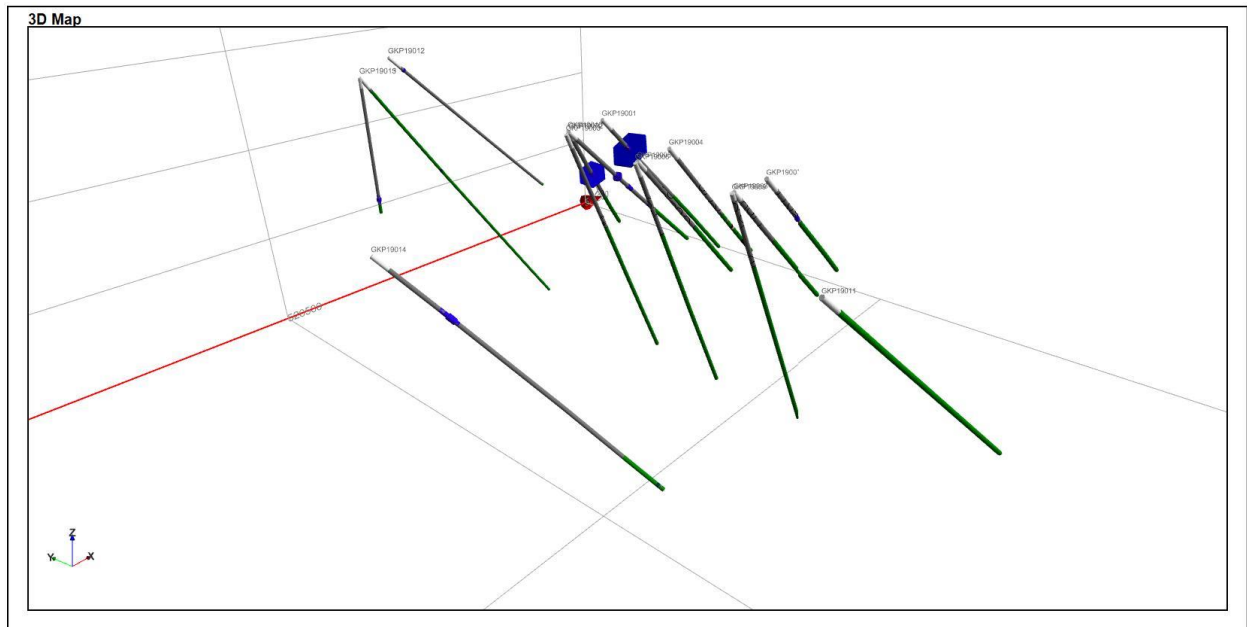


Figure 9: Northeast-oriented view of the Kilpatrick drill holes and cobalt intercepts (blue discs). The lithology legend is in Figures 6 and 7.

## Geochemistry

The cobalt veins at Kilpatrick are marked by high arsenic content and geochemically anomalous nickel (Table 1). Many of the metallic elements reach maximum values at or above ore-grades, but always over small intervals. A correlation matrix of metals (Table 2) shows that cobalt strongly correlates with nickel, arsenic, and antimony, which reflects the elemental composition and type (arsenide) of the ore mineralogy. Silver correlates moderately to strongly with copper, zinc, lead, and molybdenum, but none of those elements correlates strongly with cobalt in vein zones (Table 2). A major element correlation matrix (Table 3) shows that cobalt does not strongly correlate with calcium, sodium, potassium, iron, magnesium, or titanium, but some of those elements may be enriched or depleted in the rocks adjacent to the cobalt bearing veins, which would reflect an alteration pattern associated with the mineralization. Cobalt has a weak correlation with sulfur which indicates the mineral phase of the ore mineralogy contains some sulfur.

Table 1: Summary statistics for select elements at the Kilpatrick occurrence.

Element	Minimum	Maximum	Mean	Median	Range	MedianDevMedian	StandardDeviation	Percentile25	Percentile50	Percentile75	Percentile90
Ag_ppm	0.02	7.34	0.27	0.12	7.32	0.07	0.61	0.07	0.12	0.24	0.53
As_ppm	0.2	102500	481.78	14.3	102499.8	10.1	5709.51	6.5	14.3	33.7	117
Ba_ppm	10	730	227.28	250	720	80	120.36	145	250	320	360
Bi_ppm	0.01	538	3.74	0.21	537.99	0.145	33.08	0.0925	0.21	0.4	1.578
Co_ppm	3.9	25500	191.63	39.3	25496.1	22.7	1493.52	20.3	39.3	69.2	123
Cr_ppm	2	4280	365.46	71	4278	25	735.27	56	71	229	1260
Cu_ppm	1	2830	194.99	73.2	2829	68.5	339.12	12	73.2	205	490
Fe_%	0.49	14.75	4.48	2.96	14.26	1.81	3.41	1.67	2.96	7.88	9.77
Mn_ppm	89	2860	654.18	320	2771	162	566.44	197	320	1260	1500
Mo_ppm	0.05	602	5.53	1.34	601.95	0.54	31.99	0.91	1.34	1.98	6.65
Pb_ppm	0.5	4970	76.48526	10.2	4969.5	4.3	384.722067	6.8	10.2	16.3	31.9
Ni_ppm	0.2	29000	339.17	65.8	28999.8	42.8	1771.95	30.2	65.8	160.5	893
S_%	0.01	4.77	0.23	0.08	4.76	0.04	0.57	0.05	0.08	0.14	0.36
Sb_ppm	0.06	355	1.64	0.29	354.94	0.13	17.59	0.19	0.29	0.47	0.87
Sn_ppm	0.2	8	0.82	0.7	7.8	0.2	0.74	0.5	0.7	1	1.2
Ti_%	0.07	1.17	0.28	0.193	1.1	0.064	0.21	0.153	0.193	0.334	0.645
U_ppm	0.1	11.9	2.019728	1.9	11.8	1.5	1.681624193	0.2	1.9	3.2	4
V_ppm	14	490	98.19	64	476	29	79.46	41	64	143	243
W_ppm	0.1	6.1	0.53	0.4	6	0.1	0.56	0.3	0.4	0.6	0.9
Zn_ppm	4	9160	153.35	27	9156	17	665.76	16	27	96	157





## Recommendations

- 1.) Drill the IP anomaly adjacent to the high-grade cobalt intercepts. This anomaly is ~150m long, so a best-case scenario resource potential—assuming a 2m wide and 100m deep vein—is ~100,000 of 1% cobalt.
- 2.) Test the remaining IP anomalies with one or two holes each.
- 3.) Attempt to find areas with sheeted cobalt veins, as thin, single veins are not likely to contain economic amounts of cobalt.
- 4.) Focus future exploration at Kilpatrick on the fine-grained clastic sediments, and avoid areas dominated by Gowganda formation diamictites as they appear to be unfavorable host rocks.
- 5.) Attempt to identify growth faults (using basement offsets) around the vein systems—this may guide exploration into different directions.
- 6.) Consider exploring the Archean basement near Kilpatrick for massive sulfides that may contain McAra-style cobalt deposits. Several EM anomalies south of Kilpatrick should also be followed up for this type of cobalt mineralization.

