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BATTERY

MINERAL RESOURCES

Bedrock Stripping, Washing and Outcrop Mapping Report for the
Gowganda Transition Gold and Cobalt Project, Big Four Prospect,
Haultain Township, Ontario, Canada

January 5, 2021

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1.0 OVERVIEW

1.1 PROJECT NAME

This project is known as the **Gowganda Transition Gold and Cobalt Project, Big Four Prospect**.

1.2 SUMMARY

Battery Mineral Resources Corp. conducted a program of stripping, mapping and limited surface and channel sampling in the vicinity of the Big Four Prospect which forms part of the area covered by a joint venture agreement between Battery Mineral Resources Corp. (BMR) and Transition Metals Corp

The Big Four prospect forms part of the Gowganda Gold and Cobalt Property which consists of 286 unpatented mining claims covering approximately 6221.5 Ha located in parts of Van Hise, Haultain, Milner, Nicol and Lawson Townships within the Larder Lake Mining Division in Northeastern Ontario. The property is centrally located about Highway 560 adjacent to the unorganized municipality of Gowganda, Ontario and approximately 100 kilometers east of the city of Timiskaming Shores, Ontario. All of the current work was conducted on cell claim 229871.

The 2020 stripping, mapping and sampling program consisted of gaining access to the site and stripping the areas around a series of old pits and cuts to the south and southeast of the historic shaft on June 10th and 12th, with follow up hand stripping and washing from July 8-10, 2020. The excavator work, stripping, washing and channel sampling were completed by personnel contracted from Canadian Exploration Services (CXS).

Once outcrops and old pits and cuts had been cleaned, they were mapped and sampled by BMR geologists and a channel sample marked up in the face of an old pit. The surrounding area was then mapped in detail to tie together all of the surface features to aid in the interpretation of the follow up drill program on the site. The mapping was conducted by F Ploeger of BMR and overall work was supervised by F Ploeger and P Doyle of BMR.

Following the stripping, several pieces of angular (blasted?) rock well mineralized with bands of massive cobaltite were discovered near the cleaned pits. The object of the stripping and mapping program was to try to interpret the geology of the original discovery area and uncover the source of the high grade samples and any additional cobalt mineralization outside that related to the historical shaft and pit. The mapping was also intended to help in the interpretation of the diamond drilling which commenced July 20, 2020.

Historically, the vein discovered in the main pit and intersected in the sinking of the shaft, was interpreted as striking @ 014 degrees and dipping shallow (30 degrees)

east. It was hoped that the stripping would uncover the extension of the vein system to the south, and although some of the grab and muck samples assayed as high as 5.64% Co and 97.3 ppm Ag, none of the channel or chip samples yielded anomalous Co or Ag values.

All co-ordinates presented in this report are in datum: UTM NAD83, Zone 17N.

1.3 ACTIVITIES UNDERTAKEN

Big Four Stripping, Mapping and Channel Sampling			
Date	Description	Personnel	Samples Taken
May 13, 2020	check access, preliminary mapping, sampling	Proj Manager- F Ploeger	3- R0151/ 52/ 53
May 20, 2020	check shaft, pits, cut areas, sampling	Proj Manager- F Ploeger	1- R0154
June 4, 2020	check shaft, pits, cut areas, sampling	Proj Manager- F Ploeger; geo- I Riddle	2- R0851/ 52
June 10, 2020	excavator was mobed to Big 4 site and road started to area for stripping	excav operator David Laarocque	
June 12, 2020	switchback was put in an area around the old shafts and cut were stripped	excav operator David Laarocque	
June 29, 2020	check stripping for follow up work requirements	Proj Manager- F Ploeger	
July 7, 2020	CXS strip and wash crew mob to site and set up, start to strip	CXS crew- L Sullivan, R Bates, C Hanson	
July 8, 2020	crew cleaning pits & outcrops, washing	CXS crew- L Sullivan, R Bates, C Hanson	
July 9, 2020	crew cleaning pits & outcrops, washing	CXS crew- L Sullivan, R Bates, C Hanson	
July 10, 2020	complete the washing, channel sampling	CXS crew- L Sullivan, R Bates, C Hanson	3- R0860/ 61/ 62
July 14, 2020	prelim mapping of pits, cut, trenches, sampling	Proj Manager- F Ploeger; geos S Hicks, A Salerno, M Ruhl,; tech B Piche	3- R0382/ R1102/ 04
July 21, 2020	check channels and stripping, prelim mapping	Proj Manager- F Ploeger; geos A Salerno, M Ruhl,; tech R Wells	
July 24, 2020	detailed mapping	Proj Manager- F Ploeger; tech R Wells	
July 31, 2020	check mapping, look for additional outcrops	Proj Manager- F Ploeger; geos M Ruhl, M Gaudreau; tech B Piche	
August 19, 2020	complete the checks and mapping	Proj Manager- F Ploeger; tech S Trimmer	

Table 1. Daily Log and Summary of Work Undertaken.

2.0 LOCATION DETAILS

2.1 PROPERTY & LOCATION

The Gowganda Gold and Cobalt Property, Big Four Prospect is registered to Transition Metals Corp. with the property subject to an option and joint venture agreement between Transition Metals Corp. and Battery Mineral Resource Corp. dated March 2nd, 2019.

The project area consists of 286 unpatented mining claims covering approximately 6221.5 Ha, located in parts of Van Hise, Haultain, Milner, Nicol and Lawson Townships, within the Larder Lake mining Division, and centrally located about highway 560 close to the unorganized municipality of Gowganda, Ontario (Figure 1).

The Project is nestled amongst the major mining centres of Kirkland Lake, 115 kilometers to the North; Timmins, 235 kilometers to the northwest; and Sudbury, 250 kilometers to the southwest. The closest major centre to Gowganda is the city of Timiskaming Shores located 100 kilometers to the east.

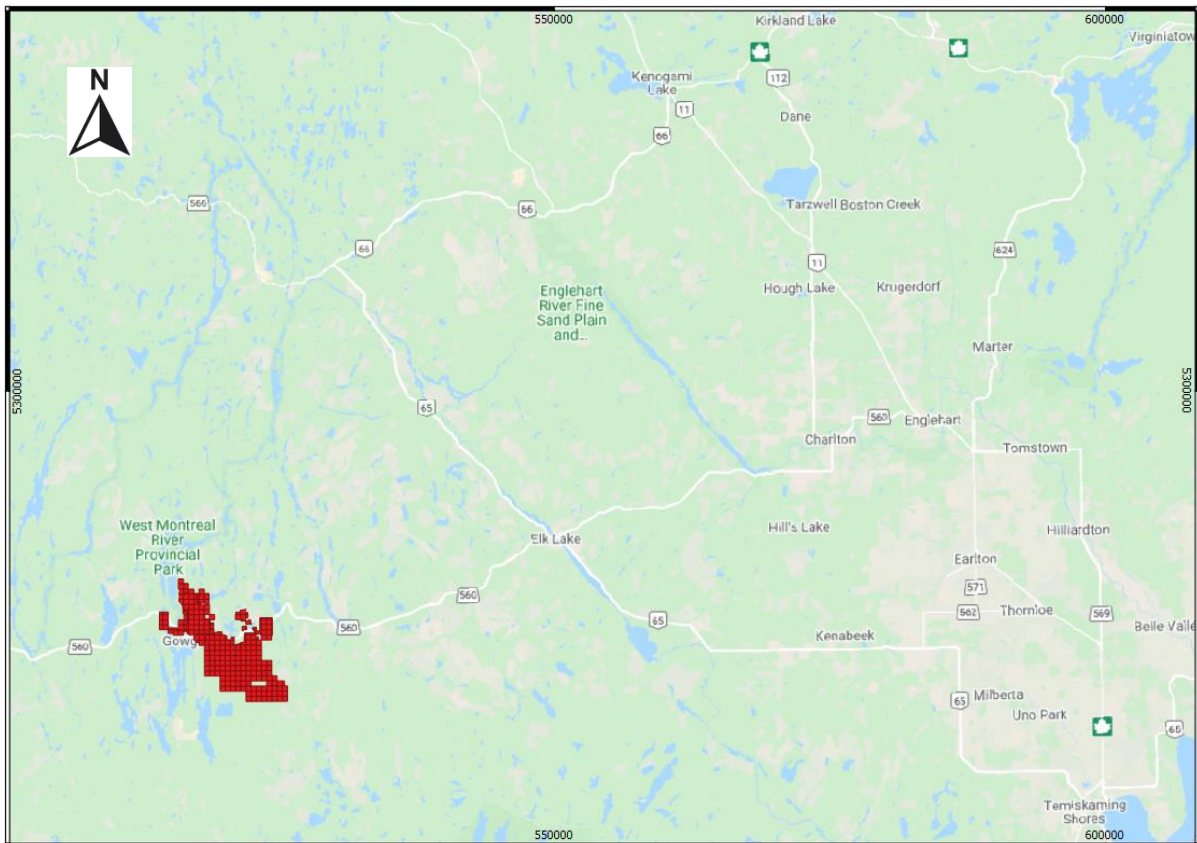


Figure 1. Location of the Gowganda Gold and Cobalt Property (red cell claims) including the Big Four prospect.

2.2 ACCESS

The Big Four Prospect is easily accessed by a short (< 1km) ATV/ Snowmobile bush-road/ trail north of highway 560, between the village of Gowganda, Ontario and a microwave tower access road.

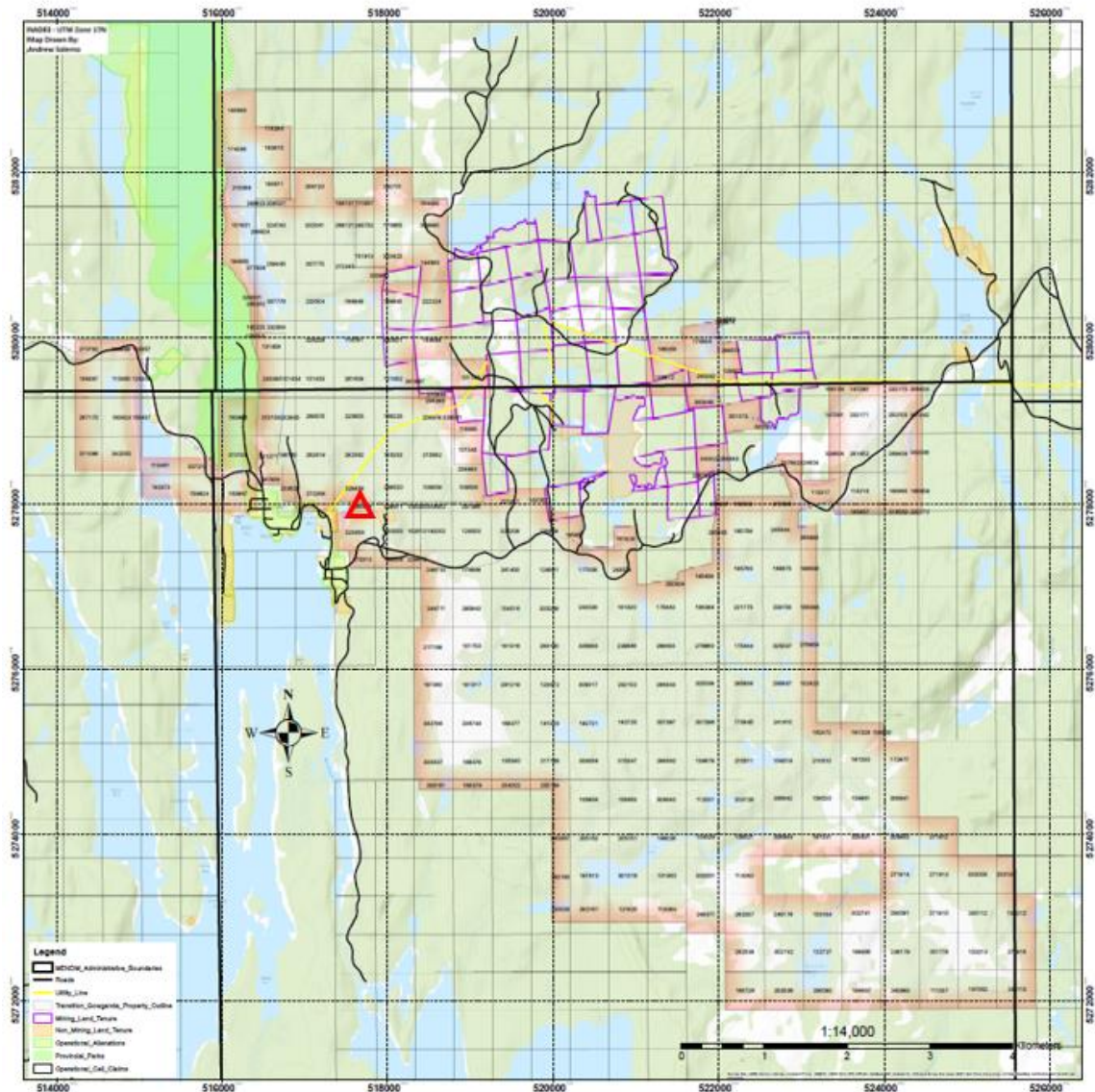


Figure 2. Claim Map showing the BMR/ Transition JV Gowganda Gold and Cobalt Property. Big Four location at red triangle.

2.3 MINING CLAIMS

The Gowganda Gold and Cobalt Property, joint venture between Battery Mineral Resources Corp. and Transition Metals Corp, is comprised of 286 unpatented mining claims covering approximately 6221.5 Ha, located in Van Hise, Haultain, Milner, Nicol and Lawson Townships, within the Larder Lake Mining Division (Figure 2). A

complete list of claims is provided in Appendix 1.

2.4 PROPERTY & EXPLORATION HISTORY

The early history of the region is summarized in a report prepared for the Ontario Geological Survey by McIlwaine (1978), however, there are numerous additional undocumented pits, trenches, and shafts on the property. This is supplemented by data updated from the MNDM assessment files and programs conducted on the property by Transition Metals.

The following is a summary of work completed on, or adjacent to, the Gowganda Gold and Cobalt Property

1920's:

The original Big 4 claims were patented, however, there is little historical work recorded on these claims.

By 1926 property ownership was held by a number of parties; however, by 1929 an amalgamation of Capitol Silver Mines, Trethewey Silver and Cobalt Mines Limited resulted in the formation of a consolidated silver company called Castle Trethewey Mines Ltd. Production activities of the mine ceased around 1931 and were not renewed until 1948.

Starting in 1925, surface exploration and stripping at the former Hylands-Johnson-Gardiner property, located near the upper contact of the Nipissing Diabase in the Miller Lake Basin, resulted in the sinking of a 30.5 m shaft. In 1926, operations were taken over by Planta Mines Limited, a subsidiary of Noranda Mines Ltd., and the shaft was deepened to 87 m with an addition of 850 m of workings prior to the mine closure in April 1927. In 1952, the property was optioned to Gardiner-Johnson Property Syndicate, who dewatered the shaft, continued sampling and diamond drilling before the work was suspended.

1947 – 1950: Quebec Yellowknife Gold Mines Ltd.

Completed geological mapping, trenching and three (3) diamond drill holes. Mapping and trenching delineated several vein-systems and one sample returned 8.41 oz Ag/t and 14.29% copper. Other mineralization noted on the property in the assessment files include cobaltite, bismuthinite, and chalcopyrite.

1951 – 1953: Indore Gold Mines Limited

Two diamond drill holes were completed in 1951 and an additional three (3) holes in 1953. One hole intersected an 18 cm interval containing 30% chalcopyrite that returned 10.25% copper and 0.68 oz/t silver. Several pits are located in the area south of Highway 560 with associated rubble piles containing carbonate-quartz vein material with bornite, chalcopyrite and pyrite.

1955: Ontario Geological Survey

Moore (1955) mapped Haultain and northern Nicol townships covering the area of the claims at a scale of 1:31,680. Map 1955-03; AR64 part 5.

1959: McIntyre Porcupine Mines

The Castle Trethewey property was taken over by McIntyre Porcupine Mines and silver mining activities in the area continued until 1966.

1961: Caesar Minerals Ltd.

Completed seven (7) diamond drill holes, totalling 214 m, near the historical Big Four Showing, also referred to as the Banker Bay Occurrence, historically held by Tego Silver-Cobalt Mines Ltd. The showing includes a series of trenches and pits and a 25 ft (7.6 m) deep shaft located on the north side of radio tower hill north of Highway 560. In the main area of the shaft and a main pit, there is a 12.7 – 15.2 cm carbonate-quartz vein containing arsenopyrite, cobaltite, pyrite, and galena cross-cutting Archean iron-formation. A pyritic/ sulphide iron formation with an Archean quartz porphyry footwall is located east of the shaft and an approximately 2 m wide sulphide iron formation becomes leaner, grading into siliceous iron formation to the north. A drilling program was conducted east of the trenching and pitting in an attempt to trace the iron formation under the Huronian Sediments. Field assay results by R. McDougall in 1968 returned: 40.6% sulphur and up to 10.8 oz Ag/t (336 g Ag).

1967 - 1972: Siscoe Mines

The Castle Trethewey property was optioned to United Siscoe Mines and mining was resumed in the vicinity of the Capital workings. United Siscoe Mine conducted a soil sampling program covering a large portion of the current property, then referred to as the Roy Ten Claim Group. Samples were collected on a sampling density of approximately one sample of the B- soil horizon every 100 x 200 ft (30.5 x 61.0 m) and analysed for silver, mercury, and cobalt. Several silver anomalies were identified close to the known silver workings, but no follow up work was proposed.

1971: Raylloyd Mines

In 1971, Raylloyd Mines acquired a group of past producing silver claims once a part of McIntyre Porcupine Mines referred to by Siscoe as the Roy Ten Group from P. Mclean. They completed three (3) drillholes into a magnetic and IP target believed to be prospective for hosting nickel. This work was successful in confirming the presence of a large ultramafic (peridotite/ dunite) body in which no nickel mineralization was noted.

1972: Siscoe Mines

The mine in the Gowganda Area ceased production and the property was returned to McIntyre Porcupine Mines

1973

The Teme-Augama Anishnabai first nation, exercised a land caution against development on Crown land covering approximately 10 000 square kilometres, mostly within the Temagami area, but extending northwards into the Gowganda area. The Attorney General of Ontario pursued legal action against the Band for this caution and the area was re- opened for exploration in 1998.

1978: Ontario Geological Survey

Mcllwaine mapped the Haultain and Nicol Township areas at a scale of 1:31,680 between 1966-1968, producing GR 175 with Map 2349 and preliminary maps P0374 and P0518.

1979: Agnico Eagle Mines Ltd.

The remaining portion of the Castle Trethewey Mines Ltd. Property was optioned to Agnico Eagle Mines Ltd, and some ore was extracted from the area of the Castle No. 3 shaft. Between 1979 and 1989 a total of 101,024 tonnes were milled in the Cobalt mill producing 91,421,294 grams silver (2.67 million ounces of silver), 34,597 kilograms cobalt and 10,180 kg copper (Kirkland Lake Resident Geologists Office files).

1997: Ontario Geological Survey

Conducted a high-density lake sediment and water geochemical survey focusing on the Gowganda area. 1336 lake water samples and 1172 lake sediments were taken. Anomalous metal values including Ag, As, Co, Cu, Pb and Zn were noted within the area.

1997: Lake Superior Resources

Flew a Terraquest airborne VLF-EM, radiometric, and magnetic survey, with 100 m line-spacing at a 100 m altitude.

2006: Temex Resources

Completed the purchase of the Miller Lake O'Brien Silver Property, and related assets and facilities from the Sandy K Mines, which included the former past producing Miller Lake O'Brien Mine (historical production of 40.7 million ounces of silver at an average grade of 22 ounces of silver per ton. Temex performed a preliminary assessment investigating revenue potential from processing the tailings for silver.

2008: Gold Bullion Development Corp.

Castle Trethewey Mines Ltd. Property was acquired by Gold Bullion Development Corp. who completed preliminary metallurgical testing on composite sample of silver tailings material extracted from the tailings pond.

1999 - 2008: Sherry Swain Prospecting

In 1999, Sherry Swain, a Gowganda based prospector, staked the property. In 2006, Swain identified anomalous gold values associated with altered and deformed

Archean greenstones located west of the historical silver workings. Between 2006 and 2008, small scale stripping of the altered volcanics and intrusives resulted in the identification of several additional zones of anomalous gold mineralization including a piece of silicified rock that returned 0.186 opt Au (Swain, 2009).

2008: Norcanex Resources Ltd.

Briefly optioned the property and undertook a high resolution airborne magnetic survey covering the property, however, the property was returned to the owner without completing any physical work.

2010 - 2018: Transition Metals Corp.

In 2010, Transition Metals Corp. optioned claims from S. Swain and staked additional claims peripheral to these. Between the time of acquiring the claims and 2018, Transition Metals performed extensive work on a series of gold showings designated as the Haultain Gold Prospect to the NW of the Big 4 prospect. Work included stripping, mapping and channel sampling of several areas, diamond drilling, a Soil Gas Hydrocarbon test survey, an MMI soil sampling program and structural work. However, no work was done in the vicinity of the Big 4 showing.

2017: Aldershot Resources Ltd.

Between January and June 2017, Aldershot Resources Ltd. cut approximately 14.75 kilometers of grid line to accommodate both a walking magnetic survey and pole-dipole induced polarization survey which identified 2 resistivity features. Aldershot completed eleven (11) diamond Drill holes focusing on the strike extents of four of the known gold occurrences. Research included a structural review investigating the controls on gold mineralized quartz veins at the main showing around Trench 3. With an increase in the price of cobalt, a short program of prospecting and sampling was conducted to assess the property for cobalt potential. Following an evaluation of their exploration program, Aldershot Resources Ltd returned the property to Transition Metals in the fall of 2017 (Hart and Burden, 2018).

2018: Battery Mineral Resources Corp.

Battery Mineral Resources Corp. entered a joint venture option with Transition Metals Corp. on the Gowganda Gold and Cobalt Project.

2018: Battery Mineral Resources Corp.

A high-resolution LiDAR survey was completed in June 2018 over much of the Gowganda Gold and Cobalt property used to identify and accurately locate outcrops and historical exploration features such as shafts, pits, and trenches.

2019: Battery Mineral Resources Corp.

Prospecting in Haultain and Nicol townships focused primarily around the Big Four showing (also known as, the Banker Bay Occurrence). A total of 43 samples were collected, 27 were sent for multi-element and gold assay and an additional 16 samples were sent for whole rock analysis.

2020: Battery Mineral Resources Corp.

Battery Mineral Resources Corp. performed two drill programs on the property. The first, consisted of four (4) diamond drill holes, totalling 978 m testing extensions of the Haultain Gold Prospect. The second program, conducted in Nicol Township, focused on exploring the Cobalt Prospect known as the Big Four showing comprising 19 diamond drill holes, totalling 2,022 m.

2.5 REGIONAL & LOCAL GEOLOGY

Geology and history of the Gowganda area is summarized by McIlwaine (1978) and references there-in.

Overview:

Archean age basement rocks of the Superior Craton are composed of a series of granite terranes, variably covered by greenstone belts and sedimentary basins which are thought to represent the accretion of microcontinents during the Archean; these can further be sub-divided into sub-provinces. Much of the Archean Craton is unconformably overlain by Paleoproterozoic to Paleozoic siliciclastic sediments, forming irregular paleo-basins.

In the vicinity of the Gowganda Gold and Cobalt Big Four Property, Paleoproterozoic sedimentary rocks of the Huronian Supergroup unconformably overly older Archean granites, meta-volcanics and meta-sedimentary rocks of the Abitibi and/or Pontiac Sub-province of the Superior Craton. Nipissing Diabase, which is Proterozoic in age, intrudes all lithologies in the region with the exception of the younger mafic dykes and sills.

Regional metamorphism reached lower to middle greenschist facies.

Property Scale Geology:

The local geology of the Gowganda Gold and Cobalt Property, including the Big Four showing, is excerpted from a report by Collins (2010, Figure 3):

“An inlier of Archean rocks located in the northwestern portion of the Property, centered in western Haultain Township, consists of predominately of ultramafic, mafic, and intermediate to felsic volcanoclastic metavolcanic rocks interbedded chemical chert-magnetite oxide facies iron formation and clastic metasedimentary rocks (Collins 2010). A series of syn-tectonic gabbro, lamprophyre, and syenite dikes cross cut the metavolcanic and appear to be restricted to the area of the Jacobs Lake Fault. An intermediate to felsic body intrudes the southern portion of the inlier, and intermediate to felsic plutonic rocks of the Round Lake Batholith intrude the metavolcanic rocks along the north edge of the Property. North to northwest-trending Matachewan diabase dike swarm cut all younger units, and several northeast-trending Abitibi diabase dikes cross the Property. The Archean rocks are variably deformed and folded and cut by the

northwest-trending Jacobs Lake fault. Regional metamorphism reached lower to middle greenschist facies.

In the southeastern portion of the Property, mainly in Nicol Township, the Archean rocks are overlain by Proterozoic age Huronian Supergroup intruded by sills of Nipissing Gabbro (Collins 2010). The Cobalt Formation of the Huronian Supergroup consists of feldspathic arenite, feldspathic greywacke, and paraconglomerate of the Gowganda Formation and feldspathic and micaceous sandstones of the Lorrain Formation. Nipissing Gabbro sills are mainly composed of pyroxene gabbro with limited subophitic textures and occasional granophyric phases in the upper portions.”

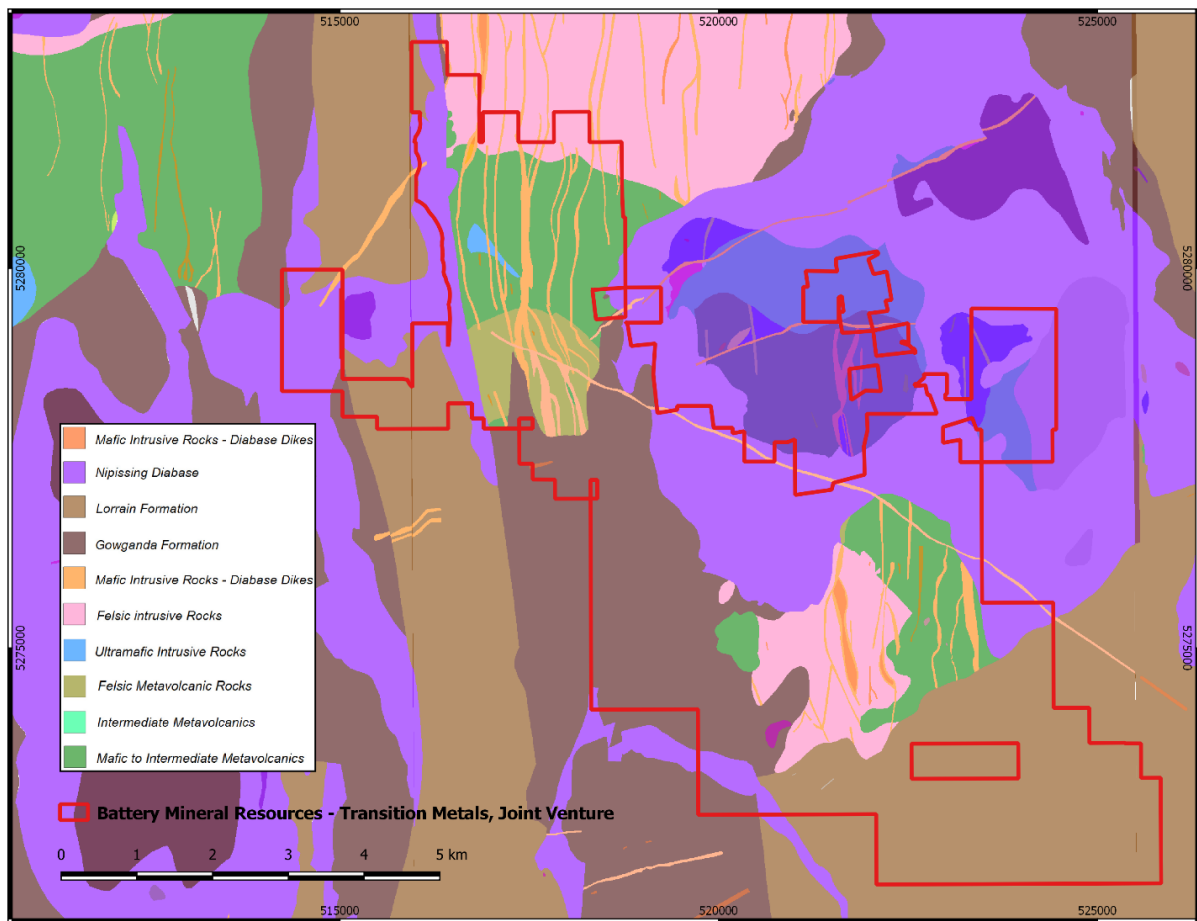


Figure 3. Regional Geology of the Gowganda Gold and Cobalt Property, after McIlwaine (1978).

Big Four Cobalt Prospect Geology

The geology in the immediate vicinity of the Big Four Prospect area is taken from Mcllwaine (1978) (Figure 4). The pits and shafts (red triangles) are located in a “U” shaped series of high weathering outcrops of Huronian sediments which enclose an embayment of Archaean mafic to felsic volcanics with interbeds of iron formation intruded by north- south trending Matachewan diabase dikes. The Co- bearing calcite vein in the pit, and intersected by the shaft (red circle), was described in the historic records and quoted by Mcllwaine from a 1926 ODM report by Burrows (P. 40) as follows:

“A vein, carrying calcite, arsenopyrite, cobaltite, iron pyrites, and galena, was found on claim W.D. 962. It strikes N.14 E. and dips 30 E.”

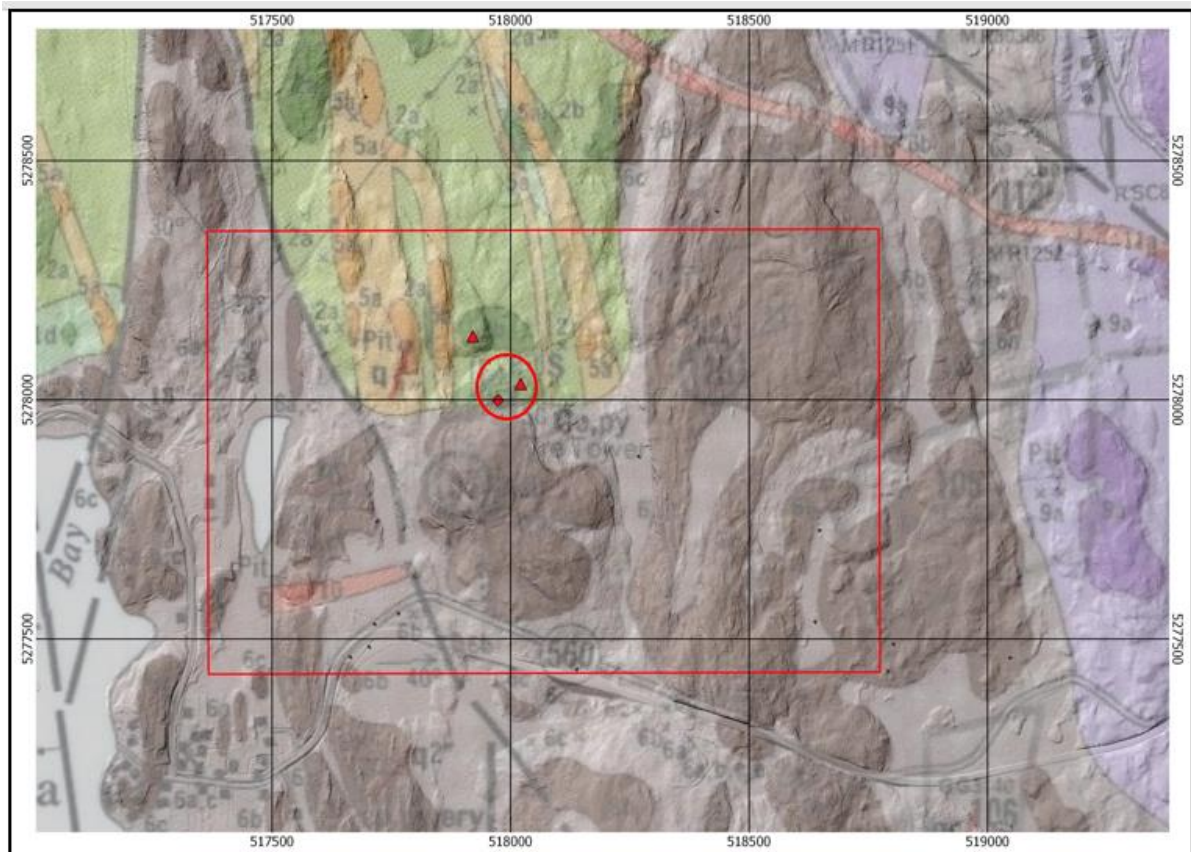


Figure 4. Geology of the Big Four Prospect area (red rectangle), shaft and pits (red triangles); Geology after Mcllwaine (1978), on LiDAR base.

3.0 TRENCHING/STRIPPING/MAPPING

3.1 PERMITS

Exploration permit for the Gowganda Gold and Cobalt Project, Big Four Prospect is PR-19-000274.

3.2 MAPPING

The mapping was conducted on the side of a steep hill on which is perched a microwave tower on the crest. The historic shaft and pits/ cuts, and the newly created access road and subsequent drill pad/ collar locations, were restricted by the topography to two narrow east- west trending corridors on the side of this hill. Unfortunately, because of the logistical restrictions of spotting the diamond drill holes on the steep slopes, it was found when drilling, and through mapping, that the uppermost drill tier was situated over a late, ENE trending, barren 25m wide, diabase dike that appears to have been superimposed on the original vein system, probably dividing the vein into north and south halves (Figure 5). Thus, all of the early holes were collared in, and traversed through this diabase, thereby “diking out” the vein near the contact.

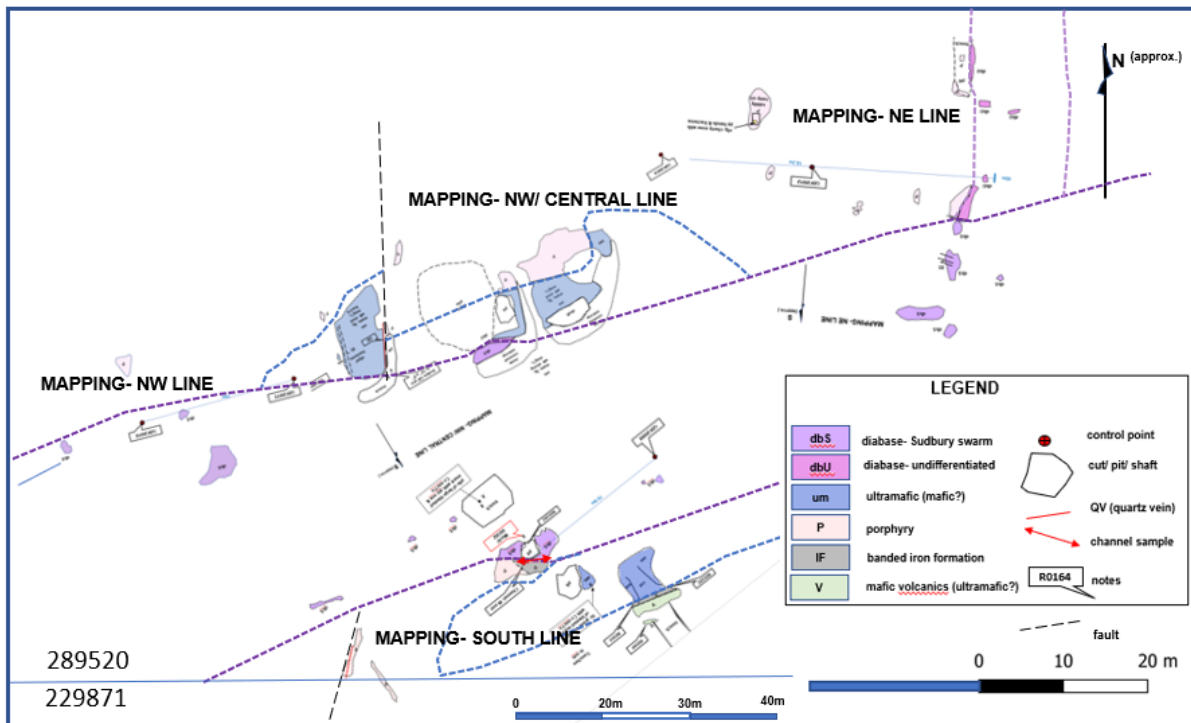


Figure 5. Mapping in the vicinity of the Big Four Prospect. See Figure 7 & 8 for sample locations and “Mapping Lines” in Appendix 3 for geology details.

The dominant host lithology to the north and south of the “Sudbury” diabase dike consists of a variably altered and textured dacite/ porphyry that exhibits both intrusive and extrusive features. In places, it is distinctly fresh looking and porphyritic

textured, while in others, it appears to be dacitic in composition and tuffaceous looking with cherty (tuff) lenses. Locally, the textures appear gradational from the porphyritic to the siliceous phases which could be interpreted as a progressive increase in strong pervasive alteration (albite- silica- carbonate- pyrite) of a porphyritic intrusive.

The dacitic unit hosts narrow minor lenses of banded iron formation and semi-massive sulphide zones. The iron formation generally is dark green to black, very fine grained, well bedded/ laminated at 100 degrees and dipping 75N, and generally strongly magnetic. In places, the orientation of the beds varies suggesting possible primary slumping. Locally, the bedded magnetite layers appear to be relaxed, or altered to, pyrrhotite and pyrite. In places, the iron formations are associated with/ in contact with mafic volcanics.

Intruding this suite are a variety of mafic to ultramafic dikes that are variably magnetic. Central to the area of the shaft and pits is an odd weakly to strongly magnetic, fine grained, green grey lithology that was deduced to comprise a variably altered ultramafic rock. Because it is strongly magnetic in the walls of the shaft and part of the main historic pit, it was mistakenly(?) identified as iron formation. XRF analysis indicates that Cr and Ni ppm/ values are relatively low, but, the visual and physical characteristics, and the Zr/ TiO₂ ratios suggest that it is ultramafic. Commonly, bands to irregular patches of chlorite and/ or spotted carbonate alteration become less magnetic and highlight possible 'primary' textures. Locally, the ultramafic contains trace disseminated fine-grained pyrite and very fine-grained threads of pyrite associated with carbonate- chlorite stringers/ veinlets.

3.3 STRIPPING RESULTS

The 2020 stripping, mapping and sampling program consisted of gaining access to the site and stripping the areas around a series of old pits and cuts to the south and southeast of the historic shaft. Excavator clearing was completed June 10th and 12th, with follow up hand stripping, washing and channel sampling from July 7th to 10th, 2020. The excavator work, stripping, washing, and channel sampling were completed by personnel contracted from Canadian Exploration services (CXS). The machine used was a Case model CX210C. All work was conducted under exploration permit **PR-19-000274**.

Several preliminary visits were made to the Big Four site in preparation for the physical work. Once outcrops and old pits and cuts had been cleaned, they were mapped and sampled by BMR geologists and a channel sample marked up in the face of an old pit. The surrounding area was then mapped in detail to tie together all of the surface features to aid in the interpretation of the follow up drill program on the site. The mapping was conducted by F Ploeger of BMR and overall work was supervised by F Ploeger and P Doyle of BMR. All of the work conducted on the main Big Four project area around the historical pits and shafts is summarized in Table 1 (pg 5, Section

1.3, Activities Undertaken).

The object of the stripping and mapping program was to try to interpret the geology of the original discovery area and uncover the source of the high grade samples and any additional cobalt mineralization outside that related to the historical shaft and pit. The mapping was also intended to help in the interpretation of the diamond drilling program which commenced July 20, 2020. All co-ordinates presented in this report are in datum: UTM NAD83, Zone 17N.

Historically, the vein discovered in the main pit and intersected in the sinking of the shaft, was interpreted as striking @ 014 degrees and dipping shallow (30 degrees) east. It was hoped that the stripping would uncover the extension of the vein system to the south, and although some of the grab and muck samples assayed as high as 5.64% Co and 97.3 ppm Ag, none of the channel or chip samples yielded anomalous Co or Ag values.

Sampling of vein material from the muck piles around the shaft and various pits and cuts yielded anomalous to high grade cobalt values. The initial stripping was conducted south of the Big Four shaft around a small, blasted trench and a deep rock cut into the hillside. Several large angular pieces of broken rock, presumably from these excavations, was found to contain massive lenses and fracture fillings of Cobaltite (Figure 6). Sample locations and assay results from the muck and chip samples are provided in Tables 2 & 3, respectively.



Figure 6. Cut Muck Sample of Cobaltite Vein Showing Internal Features. The in-situ source was not located by stripping.

Sample ID	easting	northing	Sample Description
R0151	517952	5277999	muck- banded/ spotted calcite vn with Co bloom
R0152	517962	5278015	muck- spotted calcite vn with Co bloom
R0153	517965	5278001	chip- magnt'c um
R0154	517980	5277969	muck- open cut, qtz carb vn with fine sulphides
R0382	517972	5277969	muck- cobaltite lenses in bleached um?
R0851	517964	5277974	muck/ grab, Co bloom crack- seal on carb vn
R0852	517985	5277971	muck/ grab, Co bloom & trace py in QVn
R1102	517973	5277967	chip- barren fracture zone, toe of pit
R1104	517982	5277968	chip- SE corner open cut, um

Table 2. Summary of Sample Locations

SAMPLE ID	Au	Co	Ag	S	Fe	As	Cu	Ni	Pb	Zn
	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
R0151	NA	4300	28.5	1.3	8.71	5930	32.9	403	2450	161
R0152	NA	1.50%	16.8	2.91	11.95	2.06%	44.7	166.5	1570	134
R0153	NA	66.3	0.43	1.43	16.35	72.2	146.5	16	29.7	59
R0154	NA	370	8.55	1.8	3.35	1690	2650	14.2	5690	3880
R0382	NA	5.64%	97.3	3.38	3.39	8.35%	103	3470	6620	82
R0851	NA	1540	14.8	0.36	1.86	1890	42.7	59.3	2400	125
R0852	NA	359	2.04	0.25	1.38	431	408	16	626	1210
R1102	88.9	55.5	0.1	0.11	8.92	16.1	113	48	97.8	156
R1104	NA	27.6	2.67	0.33	32.9	882	302	3.7	273	104
	NA- not assayed									

Table 3. Table of Muck and Chip Sample Assays.

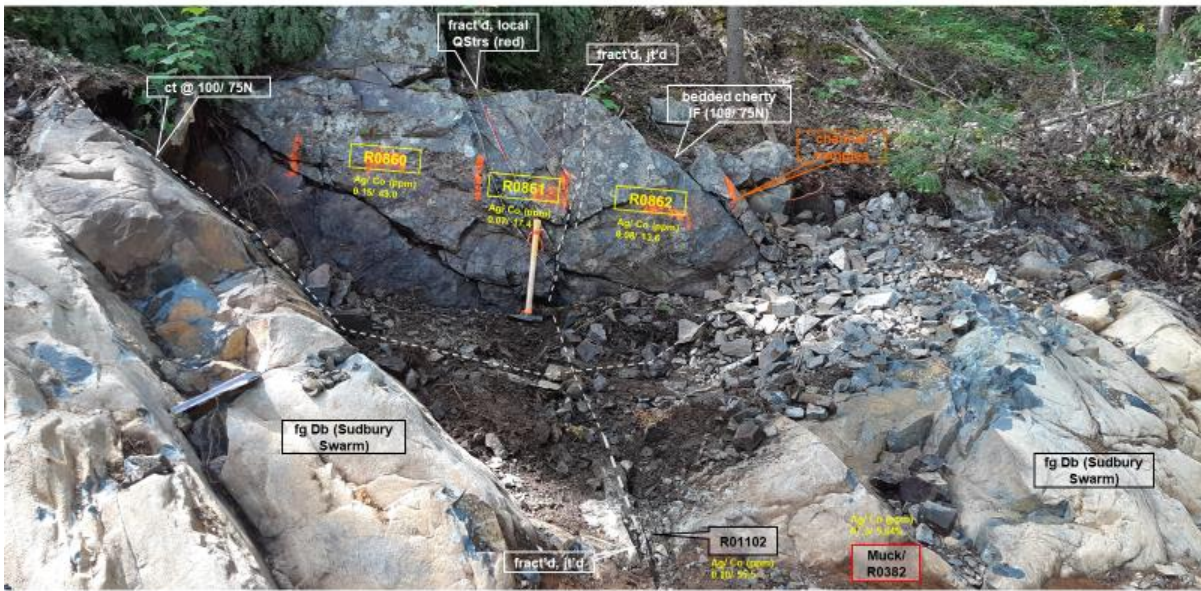
Cleaning of the historic trenches around the Big Four shaft area was intended to discover the in situ source of the Co mineralization to aid in the planning of the drill program, however, the massive cobaltite mineralization was not located. Chip samples from various structures in the floor and walls of the workings and a channel sample cut across fracturing and weak veining in the face of the trench (Figure 7), returned no significant values. Details of the channel location and assays are given in Tables 4 and 5.

Channel ID	easting	northing	elevation
Channel_Start	517970.4	5277970.1	396.7
Channel_End	517968.2	5277969.1	396.4

Table 4. Table of Channel Sample Locations.

SAMPLE ID	Au	Co	Ag	S	Fe	As	Cu	Ni	Pb	Zn
		ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm
R0860	NA	43	0.15	0.05	27.7	64.4	15.9	18.4	9.4	95
R0861	NA	17.4	0.07	0.05	29.9	14.2	22.9	26	14.1	176
R0862	NA	13.6	0.08	0.12	23.5	11.6	36.1	13.3	8	87
	NA- not assayed									

Table 5. Table of Channel Sample Assays.



Pit 1 (N of shaft) looking south

Figure 7. Pit Face Showing Location of Channel Samples and Other Various Chip and Muck Samples.

As part of the stripping program, an old open cut was also cleaned out to the floor, stripped to bedrock around the entrance, and subsequently mapped and sampled. Figure 8 illustrates the geology mapped in the cut and photos of the various features. It is evident from the mapping, that the east and west walls form strong, N- S striking, steeply east dipping fracture sets that continue beyond the toe of the cut. Although no veining was observed in the walls or floor of the cut, large blasted pieces of quartz carbonate vein material were observed and sampled (R0154) in the cut's muck pile before it was removed. An east- west trending shear fault and slip that form the south wall of the cut roughly form the contact between the ultramafic unit and a band of iron formation and mafic volcanics. This was also sampled (R0163/ 64).

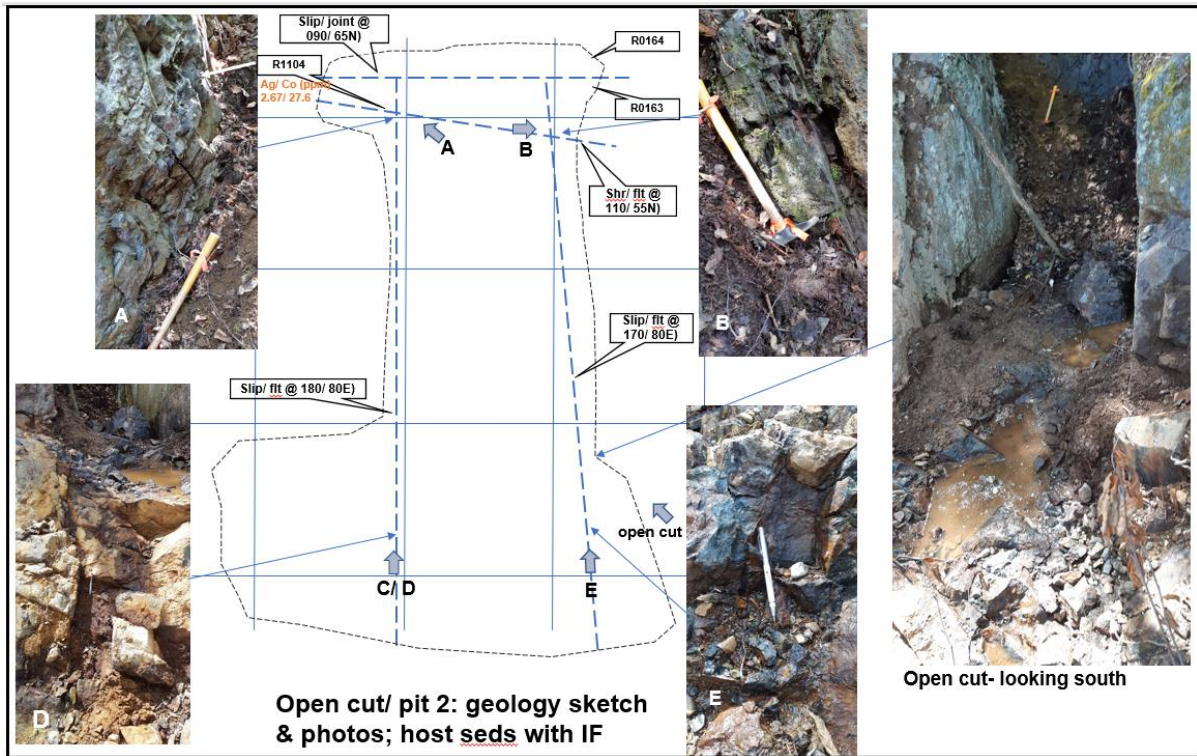


Figure 8. Geology plan and sampling sketch of the open cut/ pit with inset photos of the floor and walls (grid 2x2m squares, south face at top).

4.0 SUMMARY AND RECOMMENDATIONS

4.1 SUMMARY

The 2020 stripping, mapping, and sampling program consisted of gaining access to the site and stripping the areas around a series of old pits and cuts to the south and southeast of the historic shaft. The excavator work, stripping, washing, and channel sampling were completed by personnel contracted from Canadian Exploration services (CXS) between June 10 and July 10, 2020. After several preliminary visits were made to the Big Four site in preparation for the physical work, outcrops and old pits and cuts that had been cleaned were mapped and sampled by BMR geologists. The surrounding area was then mapped in detail to tie together all of the surface features to aid in the interpretation of the follow up drill program on the site.

The object of the stripping and mapping program was to try to interpret the geology of the original discovery area and uncover the source of the high grade samples and any additional cobalt mineralization outside that related to the historical shaft and pit. The mapping was also intended to help in the interpretation of the diamond drilling program which commenced July 20, 2020. Historically, the vein discovered in the main pit and intersected in the sinking of the shaft, was interpreted as striking @ 014 degrees and dipping shallow (30 degrees) east. It was hoped that the stripping would uncover the extension of the vein system to the south, and although sampling of vein material from the muck piles around the shaft and various pits and cuts yielded anomalous to high grade cobalt values, none of the in situ channel or chip samples yielded any anomalous Co or Ag values.

4.2 RECOMMENDATIONS

It is recommended that:

- 1) the diamond drilling and the mapping be integrated into the 3-D model of the Big Four prospect to reconcile the surface geology and drilling to provide a better interpretation of the geometry of the cobalt veining;
- 2) the felsic units be examined petrographically to determine the nature of the protolith and the chemistry and progression of overprinted alteration;
- 3) the major mineralized zones in the felsic rocks be modelled to determine the orientation of the zones and any potential Au, Ag, or Co enrichments;
- 4) detailed mapping outside of the immediate stripped areas be conducted to obtain a better understanding of the local geological setting and place the prospect area into a more regional context;
- 5) all lithologies be analyzed geochemically to provide correct IDs to the field names.

5.0 REFERENCES

Main References

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6.0 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, January 5, 2021

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, January 5, 2021

7.0 INSTRUMENT SPECIFICATIONS

7.1 GARMIN INREACH EXPLORER+



- Specifications obtained from www.garmin.com

General	
Physical dimensions	2.7" x 6.5" x 1.5" (6.8 x 16.4 x 3.8 cm) with keypad and SOS door bump
Display size	1.4"W x 1.9"H (3.5 x 4.7 cm); 2.31" diag (5.9 cm)
Display resolution	200 x 265 pixels
Display type	transflective color TFT
Weight	7.5 oz (213.0 g)
Battery	Rechargeable internal lithium ion
Battery life	Up to 100 hours at 10-minute tracking mode (default); up to 75 hours at 10-minute tracking with 1-second logging; up to 30 days at the 30-minute interval power save mode; and up to 3 years when powered off
Water rating	IPX7
Memory/History	2 GB
High-sensitivity receiver	
Interface	USB

Maps & Memory	
Preloaded maps	yes. The North America SKU of the inReach Explorer+ comes preloaded with a 1:24k

	map of Garmin Yarmouth (Former DeLorme) North America data of the U.S. and Canada. Mexico also is included at a 1:125k scale (derived from Garmin Yarmouth's Digital Atlas of the Earth).
Ability to add maps	
Waypoints/favorites/locations	500
Routes	20

Sensors

Barometric altimeter	
Compass	Yes (tilt-compensated 3-axis)

Outdoor Recreation Features

Camera	no
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Additional

Additional	<ul style="list-style-type: none"> • Wireless compatible: yes (Bluetooth®) • Trigger an interactive SOS with 24/7 search and rescue monitoring center: yes • Send and receive text messages to SMS and email: yes • Send and receive messages with other inReach users, exchange locations: yes • Track and share location with friends and family on web-based MapShare® portal: yes • Request weather forecasts for current location and planned destination: yes • Virtual keyboard for custom text messaging: yes • Send waypoints to MapShare portal during trip: yes • Send route selection to MapShare portal for friends and family to see progress: yes
------------	---

7.2 TRIMBLE GEOXT¹



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
- RTCM and CMR real-time correction support

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

- 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 backlight³) 2.6 Watts
High (with GPS, backlight³, Bluetooth, and wireless LAN)⁴ 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 Touch screen, 10 hardware control keys, power status LED
LED back light
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
Radios⁵ Bluetooth 1.2, Wireless LAN 802.11b/g

GPS

Channels 14 (12 L1 code and carrier, 2 SBAS)
Integrated real-time SBAS¹ (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, GSV, RMC)
Real-time corrections	RTCM 2.x, RTCM 3.0, CMR, CMR+

Accuracy (HRMS)⁶ after differential correction

Code postprocessed	50 cm
Carrier postprocessed ⁷	
With 10 minutes tracking satellites.....	20 cm
With 20 minutes tracking satellites.....	10 cm
With 45 minutes tracking satellites	1 cm
Real-time (SBAS ¹ 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.

8.0 APPENDIX

APPENDIX 1: Mining Claim Cells List

APPENDIX 2: Certificates of Analyses

APPENDIX 3: Detailed Mapping

337396	1337	Gowganda	41P10G167	SCMC	Active	2021-04-10	2021-04-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$400	\$800	\$ -	\$ -	\$ -
337397	1338	Gowganda	41P10G166	SCMC	Active	2021-04-10	2021-04-10	(100) TRANSITION METALS CORP.	21.76	NICOL	\$400	\$800	\$ -	\$ -	\$ -
340367	1354	Gowganda	41P10G223	SCMC	Active	2020-12-15	2020-12-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$400	\$600	\$ -	\$ -	\$ -
340449	1355	Gowganda	41P10G007	BCMC	Active	2021-06-06	2021-06-06	(100) TRANSITION METALS CORP.	5.49	NICOL	\$200	\$400	\$ -	\$35	\$35
340601	1356	Gowganda	41P10K379	SCMC	Active	2022-10-23	2022-10-23	(100) TRANSITION METALS CORP.	21.74	HAULTAIN	\$200	\$ -	\$ -	\$43,449	\$43,449
340983	1360	Gowganda	41P10G312	SCMC	Active	2020-12-15	2020-12-15	(100) TRANSITION METALS CORP.	21.77	NICOL	\$400	\$800	\$ -	\$ -	\$ -
341987	1366	Gowganda	41P10K400	BCMC	Active	2023-06-29	2023-06-29	(100) TRANSITION METALS CORP.	2.53	HAULTAIN	\$200	\$ -	\$ -	\$7,549	\$7,549
342550	1367	Gowganda	41P10F032	BCMC	Active	2021-02-18	2021-02-18	(100) TRANSITION METALS CORP.	20.07	MILNER	\$200	\$400	\$ -	\$ -	\$ -
342798	1370	Gowganda	41P10F180	SCMC	Active	2020-12-15	2020-12-15	(100) TRANSITION METALS CORP.	21.76	NICOL	\$400	\$800	\$ -	\$ -	\$ -
343322	1372	Gowganda	41P10G027	BCMC	Active	2021-11-15	2021-11-15	(100) TRANSITION METALS CORP.	10.49	NICOL	\$200	\$200	\$ -	\$231	\$231

8.0 APPENDIX

APPENDIX 1: Mining Claim Cells List

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APPENDIX 3: Detailed Mapping



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To: BATTERY MINERAL RESOURCES CORP.
 THE PACIFIC BUILDING
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 VANCOUVER BC V6C 1A5

Page: 1
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 10-AUG-2020
 This copy reported on
 12-AUG-2020
 Account: BMRPLLBW

CERTIFICATE SD20152303

Project: Gowganda-Big4

This report is for 3 Rock samples submitted to our lab in Sudbury, ON, Canada on 17-JUL-2020.

The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	MIKE HENDRICKSON MERCEDES RICH	SEAN HICKS ANDREW SALERNO
------------------------------	-----------------------------------	------------------------------

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 up to 250g 85% <75 um

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

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: 
 Saa Traxler, General Manager, North Vancouver



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Page: 2 - A
 Total # Pages: 2 (A - D)
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 Finalized Date: 10-AUG-2020
 Account: BMRPLLBW

Project: Gowganda-Big4

CERTIFICATE OF ANALYSIS SD20152303

Sample Description	Method	Analyte	Units	LOD	WEI-21 Recvd Wt.	ME-MS61 Ag	ME-MS61 Al	ME-MS61 As	ME-MS61 Ba	ME-MS61 Be	ME-MS61 Bi	ME-MS61 Ca	ME-MS61 Cd	ME-MS61 Ce	ME-MS61 Co	ME-MS61 Cr	ME-MS61 Cs	ME-MS61 Cu	ME-MS61 Fe
					kg	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
					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
R1102					1.12	0.10	7.26	16.1	230	1.25	0.10	6.16	0.25	39.6	55.5	53	0.95	113.0	8.92
R1104					1.71	2.67	0.38	882	50	1.88	0.89	0.22	0.04	43.7	27.6	18	1.90	302	32.9
R0832					1.24	97.3	1.24	>10000	<10	0.51	1070	2.33	0.17	17.80	>10000	22	0.17	103.0	3.39



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Page: 2 - B
 Total # Pages: 2 (A - D)
 Plus Appendix Pages
 Finalized Date: 10-AUG-2020
 Account: BMRPLLBW

Project: Gowganda-Big4

CERTIFICATE OF ANALYSIS SD20152303

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
R1102		18.55	0.08	2.9	0.076	0.82	19.0	38.1	3.60	1680	1.25	1.96	9.7	48.0	770	97.8
R1104		14.45	0.11	0.3	0.088	0.10	32.7	9.1	0.69	228	5.68	0.04	0.7	3.7	650	273
R0832		9.51	0.07	0.2	0.103	0.01	8.2	17.1	1.37	493	1895	0.01	0.4	3470	1840	6620



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 Account: BMRPLLW

Project: Gowganda-Big4

CERTIFICATE OF ANALYSIS SD20152303

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
R1102					32.6	0.002	0.11	0.28	41.9	<1	0.8	210	0.55	<0.05	2.48	0.842	0.19	1.1	305
R1104					4.3	0.002	0.33	3.49	1.1	11	3.0	8.5	<0.05	1.31	0.17	0.027	0.07	1.2	29
R0832					0.5	0.030	3.38	42.6	4.0	5	0.2	17.7	<0.05	0.54	0.55	0.017	1.67	4.6	182

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Project: Gowganda-Big4

CERTIFICATE OF ANALYSIS SD20152303

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	As-OG62 As % 0.001	Co-OG62 Co % 0.0005	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
R1102		0.2	24.0	156	112.5			88.9	96.9
R1104		3.6	2.9	104	10.1				
R0832		0.1	7.7	82	8.1	8.35	5.64		



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CERTIFICATE OF ANALYSIS SD20152303

CERTIFICATE COMMENTS

<p>Applies to Method:</p>	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REEs may not be totally soluble in this method. ME-MS61</p> <p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.</p> <p>Applies to Method: CRU-31 CRU-QC LOG-22 PUL-31 PUL-QC SPL-21 WEI-21</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <p>Applies to Method: As-OG62 Co-OG62 ME-MS61 ME-OG62</p>
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QC CERTIFICATE SD20152303

Project: Gowganda-Big4

This report is for 3 Rock samples submitted to our lab in Sudbury, ON, Canada on 17-JUL-2020.

The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	MIKE HENDRICKSON MERCEDES RICH	SEAN HICKS ANDREW SALERNO
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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 up to 250g 85% <75 um

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

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: 
 Saa Traxler, General Manager, North Vancouver



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QC CERTIFICATE OF ANALYSIS SD20152303

Sample Description	Method Analyte Units LOD	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 %	ME-MS61 Ga ppm
STANDARDS																
AMIS01 60																
Target Range - Lower Bound																
Upper Bound																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MGeo08		4.41	7.60	31.9	1110	3.30	0.61	2.68	2.26	71.3	19.7	90	11.90	608	4.00	18.75
Target Range - Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 905		0.55	7.87	37.2	2910	3.16	5.59	0.64	0.38	98.1	16.1	19	7.04	1575	4.33	26.1
Target Range - Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01	<0.05
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10

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QC CERTIFICATE OF ANALYSIS SD20152303

Method Analyte Units LOD	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	ME-MS61 Rb ppm 0.1
STANDARDS															
AMIS01 60															
Target Range - Lower Bound															
Upper Bound															
EMOG-17															
Target Range - Lower Bound															
Upper Bound															
MP-1b															
Target Range - Lower Bound															
Upper Bound															
MRGeo08	0.15	3.0	0.165	3.19	33.9	32.7	1.33	552	14.40	1.98	21.5	708	1050	1100	186.5
Target Range - Lower Bound	<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound	0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 905	0.16	7.0	0.686	3.02	49.4	20.0	0.28	399	3.50	2.58	19.9	16.3	290	29.7	139.0
Target Range - Lower Bound	<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound	0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
OREAS 932															
Target Range - Lower Bound															
Upper Bound															
BLANKS															
BLANK															
Target Range - Lower Bound															
Upper Bound															
BLANK	0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	0.06	<0.01	<0.1	0.3	10	<0.5	<0.1
Target Range - Lower Bound	<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	<0.1
Upper Bound	0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2



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QC CERTIFICATE OF ANALYSIS SD20152303

Sample Description	Method Analyte Units LOD	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	ME-MS61 W ppm 0.1
STANDARDS																
AMIS01 60																
Target Range - Lower Bound																
Upper Bound																
EMOG-17																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		0.007	0.31	4.23	11.7	2	3.7	311	1.44	<0.05	20.4	0.500	1.14	5.1	111	4.5
Target Range - Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 905		<0.002	0.07	2.07	5.1	3	4.1	167.0	1.31	0.10	14.85	0.127	0.80	4.6	10	2.8
Target Range - Lower Bound		<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3
Upper Bound		0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3
OREAS 932																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<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	<0.1
Target Range - Lower Bound		<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	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2



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QC CERTIFICATE OF ANALYSIS SD20152303

Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.001	Co-OG62 Co % 0.0005
STANDARDS					
AMIS01 60				0.002	3.16
Target Range - Lower Bound				<0.001	2.99
Upper Bound				0.004	3.21
EMOG-17				0.059	0.0767
Target Range - Lower Bound				0.055	0.0730
Upper Bound				0.061	0.0794
MP-1b				2.33	<0.0005
Target Range - Lower Bound				2.22	<0.0005
Upper Bound				2.38	0.0014
MGeo08	25.2	794	105.5		
Target Range - Lower Bound	23.8	722	92.2		
Upper Bound	29.3	886	126.0		
OREAS 905	17.3	142	266		
Target Range - Lower Bound	14.0	122	214		
Upper Bound	17.4	154	290		
OREAS 932				0.002	0.0066
Target Range - Lower Bound					
Upper Bound					
BLANKS					
BLANK				<0.001	<0.0005
Target Range - Lower Bound				<0.001	<0.0005
Upper Bound				0.002	0.0010
BLANK	<0.1	<2	<0.5		
Target Range - Lower Bound	<0.1	<2	<0.5		
Upper Bound	0.2	4	1.0		



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QC CERTIFICATE OF ANALYSIS SD20152303

Sample Description	Method	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	
	Analyte	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
DUPLICATES																
18095		0.09	7.84	5.5	100	0.53	0.12	7.65	0.12	11.50	40.3	266	0.75	101.5	5.96	14.30
DUP		0.09	7.70	5.0	100	0.50	0.11	7.55	0.12	10.95	36.9	258	0.74	93.7	5.87	13.45
Target Range - Lower Bound		0.08	7.37	4.8	80	0.44	0.10	7.21	0.09	10.65	36.6	248	0.66	94.0	5.61	13.15
Upper Bound		0.10	8.17	5.7	120	0.59	0.13	7.99	0.15	11.80	40.6	276	0.83	101.0	6.22	14.60

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QC CERTIFICATE OF ANALYSIS SD20152303

Sample Description	Method	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	MS61	
	Analyte	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb
	Units	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	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	0.1
DUPLICATES																
18095		0.09	0.9	0.054	0.94	5.4	36.8	4.87	1290	0.41	1.66	1.6	136.5	190	9.8	43.5
DUP		0.08	0.9	0.056	0.93	5.1	35.4	4.76	1260	0.39	1.65	1.5	128.0	180	9.0	39.8
Target Range - Lower Bound		<0.05	0.8	0.047	0.88	4.5	34.1	4.56	1205	0.33	1.56	1.4	125.5	170	8.4	39.5
Upper Bound		0.10	1.0	0.063	0.99	6.0	38.1	5.07	1345	0.47	1.75	1.7	139.0	200	10.4	43.8

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QC CERTIFICATE OF ANALYSIS SD20152303

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			
					Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W
					ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
					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	0.1
	DUPLICATES																		
18095	<0.002	0.06	0.27	37.5	<1	0.5	86.6	0.12	<0.05	1.12	0.283	0.19	0.4	187	0.2				
DUP	0.002	0.05	0.24	35.8	<1	0.4	83.1	0.11	<0.05	1.10	0.274	0.18	0.4	182	0.2				
Target Range - Lower Bound	<0.002	0.04	0.19	34.7	<1	<0.2	80.4	0.06	<0.05	1.04	0.260	0.15	0.3	174	<0.1				
Upper Bound	0.004	0.07	0.32	38.6	2	0.7	89.3	0.17	0.10	1.18	0.297	0.22	0.5	195	0.3				

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Project: Gowganda-Big4

QC CERTIFICATE OF ANALYSIS SD20152303
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Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.001	Co-OG62 Co % 0.0005
DUPLICATES						
18095		13.1	76	38.5		
DUP		12.7	75	37.2		
Target Range - Lower Bound		12.2	70	34.5		
Upper Bound		13.6	81	41.2		



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CERTIFICATE SD20152305

Project: Gowganda, Trans. Met-Big4, Chann

This report is for 3 Rock samples submitted to our lab in Sudbury, ON, Canada on 17-JUL-2020.

The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	MIKE HENDRICKSON MERCEDES RICH	SEAN HICKS ANDREW SALERNO
------------------------------	-----------------------------------	------------------------------

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 up to 250g 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: 
 Saa Traxler, General Manager, North Vancouver



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To: BATTERY MINERAL RESOURCES CORP.
 THE PACIFIC BUILDING
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 Finalized Date: 12-AUG-2020
 Account: BMRPLLBW

Project: Gowganda, Trans. Met-Big4, Chann

CERTIFICATE OF ANALYSIS SD20152305

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
R0860		4.30	0.15	0.24	64.4	10	1.89	1.33	4.22	0.12	7.38	43.0	23	0.67	15.9	27.7
R0861		1.56	0.07	0.22	14.2	10	1.77	0.28	4.17	0.48	9.69	17.4	19	0.32	22.9	29.9
R0862		2.83	0.08	0.26	11.6	10	1.30	0.41	3.93	0.13	6.98	13.6	28	0.42	36.1	23.5

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



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 Account: BMRPLLBW

Project: Gowganda, Trans. Met-Big4, Chann

CERTIFICATE OF ANALYSIS SD20152305

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
R0860		1.67	0.10	0.1	0.055	0.02	3.9	7.7	3.49	854	5.14	0.11	0.4	18.4	790	9.4
R0861		4.63	0.10	0.1	0.046	0.02	4.5	6.4	3.52	859	2.40	0.10	0.3	26.0	1200	14.1
R0862		1.58	0.08	0.1	0.041	0.03	3.6	6.1	3.04	788	3.63	0.10	0.4	13.3	820	8.0



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Project: Gowganda, Trans. Met-Big4, Chann

CERTIFICATE OF ANALYSIS SD20152305

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
R0860		1.6	<0.002	0.05	0.27	0.8	1	0.8	27.0	<0.05	<0.05	0.10	0.012	0.03	0.1	9
R0861		0.8	<0.002	0.05	0.47	0.7	1	0.5	18.7	<0.05	<0.05	0.09	0.010	0.02	0.2	45
R0862		1.5	<0.002	0.12	0.52	1.2	<1	0.3	18.6	<0.05	<0.05	0.08	0.019	0.04	0.1	11



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Project: Gowganda, Trans. Met-Big4, Chann

CERTIFICATE OF ANALYSIS SD20152305

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	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
R0860		0.1	6.9	95	3.9	82.9	97.5
R0861		0.1	9.0	176	4.4		
R0862		0.1	7.1	87	5.4		



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Project: Gowganda,Trans.Met-Big4, Chann

CERTIFICATE OF ANALYSIS SD20152305

	CERTIFICATE COMMENTS
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	ANALYTICAL COMMENTS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	LABORATORY ADDRESSES								
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-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td>PUL-31</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-QC	SPL-21	WEI-21	PUL-31
CRU-31	CRU-QC	LOG-22							
PUL-QC	SPL-21	WEI-21	PUL-31						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <p>ME-MS61</p>								



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QC CERTIFICATE SD20152305

Project: Gowganda, Trans. Met-Big4, Chann

This report is for 3 Rock samples submitted to our lab in Sudbury, ON, Canada on 17-JUL-2020.

The following have access to data associated with this certificate:

PETER DOYLE
FRANK PLOEGER

MIKE HENDRICKSON
MERCEDES RICH

SEAN HICKS
ANDREW SALERNO

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 up to 250g 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:

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Project: Gowganda, Trans. Met-Big4, Chann

QC CERTIFICATE OF ANALYSIS SD20152305

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	
		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 %	Ga ppm
STANDARDS																
MGeo08		4.41	7.60	31.9	1110	3.30	0.61	2.68	2.26	71.3	19.7	90	11.90	608	4.00	18.75
MGeo08		4.45	7.34	33.2	1110	3.34	0.63	2.75	2.30	64.9	19.6	94	12.30	628	4.04	20.0
Target Range - Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 905		0.55	7.87	37.2	2910	3.16	5.59	0.64	0.38	98.1	16.1	19	7.04	1575	4.33	26.1
OREAS 905		0.53	7.73	59.7	2860	3.18	5.54	0.63	0.36	98.5	14.1	19	7.25	1550	4.24	27.2
Target Range - Lower Bound		0.46	6.67	31.0	2280	2.69	5.14	0.52	0.30	82.8	13.2	16	6.05	1425	3.66	22.5
Upper Bound		0.58	8.17	38.4	3110	3.39	6.30	0.66	0.42	101.0	16.4	22	7.51	1640	4.50	27.7
BLANKS																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	1	<0.05	<0.2	<0.01	<0.05
BLANK		<0.01	<0.01	0.3	<10	<0.05	0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range - Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
DUPLICATES																
ORIGINAL		0.54	6.67	12.6	1650	0.88	0.21	1.65	0.07	26.1	5.9	6	2.48	15.2	2.98	13.10
DUP		0.62	6.95	12.2	1720	0.88	0.24	1.73	0.04	28.4	6.0	6	2.65	14.7	3.10	13.75
Target Range - Lower Bound		0.54	6.46	11.6	1550	0.79	0.20	1.60	0.03	25.9	5.6	5	2.39	14.2	2.88	12.70
Upper Bound		0.62	7.16	13.2	1820	0.97	0.25	1.78	0.08	28.6	6.3	7	2.74	15.7	3.20	14.15
18095		0.09	7.84	5.5	100	0.53	0.12	7.65	0.12	11.50	40.3	266	0.75	101.5	5.96	14.30
DUP		0.09	7.70	5.0	100	0.50	0.11	7.55	0.12	10.95	36.9	258	0.74	93.7	5.87	13.45
Target Range - Lower Bound		0.08	7.37	4.8	80	0.44	0.10	7.21	0.09	10.65	36.6	248	0.66	94.0	5.61	13.15
Upper Bound		0.10	8.17	5.7	120	0.59	0.13	7.99	0.15	11.80	40.6	276	0.83	101.0	6.22	14.60



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 Account: BMRPLLBW

Project: Gowganda, Trans. Met-Big4, Chann

QC CERTIFICATE OF ANALYSIS SD20152305

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	
		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	Rb ppm
STANDARDS																
MGeo08		0.15	3.0	0.165	3.19	33.9	32.7	1.33	552	14.40	1.98	21.5	708	1050	1100	186.5
MGeo08		0.10	3.2	0.174	3.13	30.3	32.8	1.33	569	15.40	2.00	22.0	724	1070	1120	175.0
Target Range - Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 905		0.16	7.0	0.686	3.02	49.4	20.0	0.28	399	3.50	2.58	19.9	16.3	290	29.7	139.0
OREAS 905		0.13	7.0	0.686	2.96	48.8	20.6	0.27	388	3.47	2.55	19.5	9.5	280	30.7	151.0
Target Range - Lower Bound		<0.05	6.1	0.571	2.58	40.9	17.8	0.24	333	2.89	2.15	16.2	8.4	240	26.9	124.0
Upper Bound		0.27	7.6	0.709	3.18	51.1	22.2	0.31	418	3.65	2.65	20.0	10.7	320	33.9	152.0
BLANKS																
BLANK		0.05	<0.1	<0.005	<0.01	<0.5	0.2	<0.01	<5	0.06	<0.01	<0.1	0.3	10	<0.5	<0.1
BLANK		<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	<0.1
Target Range - Lower Bound		<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	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
DUPLICATES																
ORIGINAL		0.10	2.1	0.034	5.03	14.1	24.0	0.97	995	0.40	1.11	4.8	2.2	440	9.8	183.0
DUP		0.09	2.1	0.034	5.21	15.0	25.1	1.02	1020	0.42	1.15	4.9	2.3	460	12.2	194.0
Target Range - Lower Bound		<0.05	1.9	0.027	4.85	13.3	23.1	0.94	952	0.34	1.06	4.5	1.9	420	10.0	179.0
Upper Bound		0.10	2.3	0.041	5.39	15.8	26.0	1.05	1065	0.48	1.20	5.2	2.6	480	12.1	198.0
18095		0.09	0.9	0.054	0.94	5.4	36.8	4.87	1290	0.41	1.66	1.6	136.5	190	9.8	43.5
DUP		0.08	0.9	0.056	0.93	5.1	35.4	4.76	1260	0.39	1.65	1.5	128.0	180	9.0	39.8
Target Range - Lower Bound		<0.05	0.8	0.047	0.88	4.5	34.1	4.56	1205	0.33	1.56	1.4	125.5	170	8.4	39.5
Upper Bound		0.10	1.0	0.063	0.99	6.0	38.1	5.07	1345	0.47	1.75	1.7	139.0	200	10.4	43.8



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Project: Gowganda, Trans. Met-Big4, Chann

QC CERTIFICATE OF ANALYSIS SD20152305

Method Analyte Units LOD	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	ME-MS61 W ppm 0.1	
STANDARDS																
MGeo08	0.007	0.31	4.23	11.7	2	3.7	311	1.44	<0.05	20.4	0.500	1.14	5.1	111	4.5	
MGeo08	0.007	0.30	4.60	11.3	1	4.2	314	1.42	<0.05	17.15	0.505	1.00	4.6	111	4.4	
Target Range - Lower Bound	0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1	
Upper Bound	0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8	
OREAS 905	<0.002	0.07	2.07	5.1	3	4.1	167.0	1.31	0.10	14.85	0.127	0.80	4.6	10	2.8	
OREAS 905	<0.002	0.07	2.19	5.3	3	4.3	167.0	1.30	0.07	16.20	0.127	0.74	5.1	10	2.6	
Target Range - Lower Bound	<0.002	0.04	1.61	4.3	<1	3.4	141.0	1.16	<0.05	13.15	0.105	0.58	4.4	8	2.3	
Upper Bound	0.004	0.09	2.29	5.5	4	4.6	173.0	1.52	0.17	16.05	0.139	0.83	5.6	13	3.3	
BLANKS																
BLANK	<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	<0.1	
BLANK	<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	<0.1	
Target Range - Lower Bound	<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	<0.1	
Upper Bound	0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2	
DUPLICATES																
ORIGINAL	<0.002	0.06	0.98	8.7	<1	0.9	156.0	0.36	0.06	4.53	0.275	1.87	2.8	101	1.3	
DUP	<0.002	0.06	1.10	8.9	<1	1.1	162.0	0.36	0.06	4.77	0.283	1.96	2.9	105	1.3	
Target Range - Lower Bound	<0.002	0.05	0.91	8.3	<1	0.8	151.0	0.29	<0.05	4.41	0.260	1.75	2.6	97	1.1	
Upper Bound	0.004	0.07	1.17	9.3	2	1.3	167.0	0.43	0.10	4.89	0.298	2.08	3.1	109	1.5	
18095	<0.002	0.06	0.27	37.5	<1	0.5	86.6	0.12	<0.05	1.12	0.283	0.19	0.4	187	0.2	
DUP	0.002	0.05	0.24	35.8	<1	0.4	83.1	0.11	<0.05	1.10	0.274	0.18	0.4	182	0.2	
Target Range - Lower Bound	<0.002	0.04	0.19	34.7	<1	<0.2	80.4	0.06	<0.05	1.04	0.260	0.15	0.3	174	<0.1	
Upper Bound	0.004	0.07	0.32	38.6	2	0.7	89.3	0.17	0.10	1.18	0.297	0.22	0.5	195	0.3	



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 Plus Appendix Pages
 Finalized Date: 12-AUG-2020
 Account: BMRPLLBW

Project: Gowganda, Trans. Met-Big4, Chann

QC CERTIFICATE OF ANALYSIS SD20152305
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Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS				
MGeo08		25.2	794	105.5
MGeo08		23.9	809	111.0
Target Range - Lower Bound		23.8	722	92.2
Upper Bound		29.3	886	126.0
OREAS 905		17.3	142	266
OREAS 905		16.6	143	269
Target Range - Lower Bound		14.0	122	214
Upper Bound		17.4	154	290
BLANKS				
BLANK		<0.1	<2	<0.5
BLANK		<0.1	<2	<0.5
Target Range - Lower Bound		<0.1	<2	<0.5
Upper Bound		0.2	4	1.0
DUPLICATES				
ORIGINAL		10.0	55	69.9
DUP		10.2	58	73.8
Target Range - Lower Bound		9.5	52	66.0
Upper Bound		10.7	61	77.7
18095		13.1	76	38.5
DUP		12.7	75	37.2
Target Range - Lower Bound		12.2	70	34.5
Upper Bound		13.6	81	41.2



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Project: Gowganda,Trans.Met-Big4, Chann

QC CERTIFICATE OF ANALYSIS SD20152305

CERTIFICATE COMMENTS									
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REEs may not be totally soluble in this method. ME-MS61</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</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: 33%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-22	PUL-31	PUL-QC	SPL-21	WEI-21	
CRU-31	CRU-QC	LOG-22	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. ME-MS61</p>								



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 Finalized Date: 21-JUL-2020
 This copy reported on
 30-JUL-2020
 Account: BMRPLLBW

CERTIFICATE SD20140756

Project: Big 4 - Assorted

This report is for 16 Rock samples submitted to our lab in Sudbury, ON, Canada on 3-JUL-2020.

The following have access to data associated with this certificate:

PETER DOYLE FRANK PLOEGER	MIKE HENDRICKSON MERCEDES RICH	SEAN HICKS ANDREW SALERNO
------------------------------	-----------------------------------	------------------------------

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 up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Co-OG62	Ore Grade Co - Four Acid	
As-OG62	Ore Grade As - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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: 
 Saa Traxler, General Manager, North Vancouver



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 Account: BMRPLLWB

Project: Big 4 - Assorted

CERTIFICATE OF ANALYSIS SD20140756

Sample Description	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 %
R0151		1.13	28.5	2.85	5930	50	0.43	86.7	13.25	0.05	6.99	4300	19	1.26	32.9	8.71
R0152		0.67	16.80	1.34	>10000	70	0.70	141.0	13.75	0.15	23.6	>10000	8	5.59	44.7	11.95
R0153		0.91	0.43	0.29	72.2	10	0.82	0.96	2.45	0.05	5.15	66.3	19	0.58	146.5	16.35
R0154		0.99	8.55	0.45	1690	<10	0.88	22.9	4.80	15.40	14.95	370	19	0.11	2650	3.35
R0155		0.80	1.98	6.20	645	110	1.38	3.94	6.82	0.18	47.6	170.0	9	0.46	289	5.07
R0156		0.26	6.72	6.54	544	120	1.65	10.70	6.31	0.51	41.3	321	7	0.49	488	5.51
R0157		0.72	0.44	6.41	296	100	1.24	45.6	4.50	0.08	90.4	299	5	0.27	106.5	8.46
R0158		0.54	8.41	4.82	18.4	30	1.22	0.15	1.64	0.03	27.6	9.3	21	0.08	553	1.24
R0159		2.83	3.79	2.78	>10000	10	1.24	192.0	18.30	0.05	48.6	1785	27	0.72	1475	3.11
R0160		0.75	1.37	2.78	13.3	50	0.53	0.51	0.29	1.55	8.47	60.2	17	0.80	340	12.85
R0161		1.67	1.83	0.93	49.5	10	0.22	1.48	0.24	4.97	5.96	106.0	20	0.16	291	13.05
R0162		0.31	1.54	3.62	11.3	60	0.45	0.57	0.41	10.30	19.20	145.0	30	0.61	434	17.65
R0851		0.76	14.80	0.59	1890	<10	0.77	43.0	1.79	0.44	53.9	1540	32	0.05	42.7	1.86
R0852		0.45	2.04	0.45	431	<10	0.23	5.70	1.85	4.63	3.41	359	31	<0.05	408	1.38
R0853		0.57	0.63	0.09	9.0	10	0.72	0.83	4.10	0.09	2.01	6.6	7	<0.05	29.4	21.1
R0854		0.50	0.25	1.42	7.0	70	0.19	0.47	0.05	0.05	1.41	2.6	24	0.54	11.6	1.83



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Project: Big 4 - Assorted

CERTIFICATE OF ANALYSIS SD20140756

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
R0151		14.70	0.08	0.5	0.170	0.17	3.1	18.6	3.22	2080	7.68	0.04	1.2	403	900	2450
R0152		6.36	0.11	0.4	0.565	0.82	12.2	2.1	2.47	5420	409	0.07	1.1	166.5	6790	1570
R0153		1.61	0.09	0.2	0.073	0.04	2.5	2.4	2.46	1020	2.41	0.08	0.3	16.0	620	29.7
R0154		4.13	<0.05	0.1	0.446	0.01	6.7	9.1	0.60	631	50.9	0.01	0.2	14.2	630	5690
R0155		27.1	0.09	4.1	0.151	0.82	22.7	27.7	1.18	883	1.90	3.05	6.5	75.0	740	24.0
R0156		26.5	0.10	3.8	0.200	0.89	20.7	32.1	1.13	1000	1.93	2.79	7.3	148.0	900	29.2
R0157		28.1	0.15	3.1	0.158	0.57	45.5	16.3	2.00	826	1.06	3.71	5.8	147.0	660	29.6
R0158		16.85	0.07	9.8	0.067	0.11	11.7	13.8	0.36	268	1.89	3.84	2.8	10.1	50	27.2
R0159		7.47	0.10	0.6	0.320	0.21	19.1	37.8	1.42	1880	10.70	1.07	0.6	220	60	70.9
R0160		9.59	0.10	0.9	0.184	0.22	3.9	6.1	0.67	1080	2.24	0.82	0.9	38.8	270	17.5
R0161		4.83	0.09	0.5	0.657	0.02	2.6	1.7	0.53	704	4.67	0.01	0.7	38.8	200	11.4
R0162		15.35	0.12	1.5	0.492	0.29	8.7	11.4	1.18	2610	8.32	0.01	2.6	28.1	390	17.8
R0851		4.99	0.05	0.1	0.039	0.01	29.6	9.3	0.63	282	31.1	0.01	0.3	59.3	780	2400
R0852		3.95	<0.05	0.1	0.149	<0.01	1.6	6.5	0.50	184	12.30	0.01	0.2	16.0	670	626
R0853		1.22	0.08	<0.1	0.060	0.02	1.1	0.3	3.42	5250	1.24	0.03	0.1	1.9	680	10.0
R0854		6.39	<0.05	0.6	0.085	0.70	0.6	3.2	0.06	96	4.44	0.04	0.9	1.6	130	33.4



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 Account: BMRPLLBW

Project: Big 4 - Assorted

CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm
R0151		4.6	0.006	1.30	1.96	8.4	5	0.3	54.9	0.06	0.40	0.31	0.054	0.20	2.8	73
R0152		22.2	0.005	2.91	9.22	11.7	4	0.2	110.5	0.05	0.92	0.25	0.043	1.05	0.8	52
R0153		1.8	0.003	1.43	0.21	0.9	2	0.4	12.7	<0.05	0.40	0.11	0.014	0.09	0.2	8
R0154		0.3	0.003	1.80	1.63	0.8	4	0.2	30.5	<0.05	1.07	0.06	0.007	0.17	0.8	9
R0155		37.6	0.002	0.07	34.3	38.2	2	1.0	101.0	0.47	<0.05	5.25	0.927	0.10	2.5	199
R0156		39.9	0.002	0.07	158.0	39.8	2	1.1	115.0	0.48	<0.05	4.76	1.035	0.11	2.1	208
R0157		22.8	<0.002	0.11	2.24	38.7	1	1.3	112.5	0.39	<0.05	4.17	0.815	0.07	4.3	309
R0158		2.3	<0.002	0.06	2.14	3.3	1	0.5	19.3	0.47	<0.05	18.10	0.070	0.02	5.8	16
R0159		11.0	<0.002	0.22	22.8	17.1	2	0.4	49.5	0.06	<0.05	0.85	0.089	0.06	0.5	71
R0160		7.0	0.002	8.43	0.61	5.4	5	1.3	86.3	0.06	1.82	0.42	0.066	0.25	0.2	27
R0161		0.6	0.003	8.83	0.37	5.9	6	2.2	3.3	<0.05	2.32	0.32	0.038	0.05	0.1	23
R0162		7.0	0.010	8.49	0.34	4.6	9	4.6	33.7	0.16	2.24	1.25	0.192	0.19	0.5	36
R0851		0.4	<0.002	0.36	0.50	2.0	2	0.2	10.4	<0.05	0.21	0.14	0.014	0.10	3.3	64
R0852		0.1	<0.002	0.25	0.53	0.7	2	<0.2	10.0	<0.05	0.37	0.05	0.007	0.04	0.3	16
R0853		0.5	<0.002	0.20	0.34	0.3	1	0.3	14.2	<0.05	0.69	0.02	<0.005	<0.02	<0.1	3
R0854		17.7	<0.002	0.05	0.15	1.8	9	2.1	10.1	0.05	2.40	0.44	0.059	0.23	0.1	19



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Project: Big 4 - Assorted

CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	As-OG62	Co-OG62	Au-ICP21	CRU-QC	PUL-QC
		W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	As % 0.001	Co % 0.0005	Au ppm 0.001	Pass2mm % 0.01	Pass75um % 0.01
R0151		0.1	12.0	161	27.5				76.7	87.1
R0152		0.2	25.5	134	22.1	2.06	1.500			
R0153		0.2	5.8	59	7.9					
R0154		0.1	10.2	3880	3.2					
R0155		0.6	31.5	47	154.5					
R0156		0.4	34.8	71	144.0					
R0157		0.2	39.5	66	123.5					
R0158		0.1	26.4	11	379					
R0159		0.2	53.9	41	21.5	1.335				
R0160		0.3	5.1	514	36.5			0.024		
R0161		0.4	5.1	706	22.3			0.132		
R0162		0.7	6.2	3970	61.3			0.044		
R0851		0.1	6.0	125	6.4					
R0852		0.1	2.7	1210	3.4					
R0853		0.1	4.1	142	1.8			1.570		
R0854		0.5	1.5	29	29.1			0.059		



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CERTIFICATE OF ANALYSIS SD20140756

	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
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CRU-31	CRU-QC	LOG-22							
PUL-QC	SPL-21	WEI-21	PUL-31						
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%;">Au-ICP21</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 15%;"></td> </tr> <tr> <td>ME-OG62</td> <td></td> <td></td> <td>ME-MS61</td> </tr> </table>	As-OG62	Au-ICP21	Co-OG62		ME-OG62			ME-MS61
As-OG62	Au-ICP21	Co-OG62							
ME-OG62			ME-MS61						



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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
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CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
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ANALYTICAL PROCEDURES		
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As-OG62	Ore Grade As - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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: 
 Saa Traxler, General Manager, North Vancouver



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QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05
STANDARDS																
AMIS01 60																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		66.3	4.57	584	250	1.93	5.66	1.94	21.6	49.4	748	57	7.14	8300	4.96	12.50
Target Range - Lower Bound		60.9	4.18	522	930	1.60	5.31	1.72	18.15	42.9	686	49	6.56	7750	4.42	10.75
Upper Bound		74.5	5.13	638	1290	2.06	6.51	2.12	22.2	52.5	838	62	8.12	8910	5.42	13.25
G313-5																
Target Range - Lower Bound																
Upper Bound																
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
GMO-12																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		0.09	7.66	5.8	540	2.65	0.65	0.51	0.08	101.0	16.1	84	9.40	117.5	4.10	22.5
Target Range - Lower Bound		0.08	6.91	4.6	450	2.54	0.61	0.44	0.04	84.6	13.9	70	7.72	104.0	3.72	18.65
Upper Bound		0.13	8.47	6.1	640	3.22	0.77	0.56	0.12	103.5	17.3	88	9.54	120.0	4.56	22.9
OREAS-76a																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																



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Project: Big 4 - Assorted

QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	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	ME-MS61 Rb ppm 0.1
STANDARDS																
AMIS01 60																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.15	1.8	0.966	1.66	25.6	29.2	0.96	741	1075	1.11	14.6	7660	830	7300	118.5
Target Range - Lower Bound		0.07	1.6	0.823	1.49	20.7	23.9	0.86	670	997	0.99	12.7	6820	700	6570	98.9
Upper Bound		0.29	2.2	1.015	1.85	26.4	29.7	1.08	830	1220	1.23	15.7	8330	880	8030	121.0
G313-5																
Target Range - Lower Bound																
Upper Bound																
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
GMO-12																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		0.19	4.4	0.095	2.94	49.4	29.7	1.34	586	0.39	0.65	18.6	42.6	780	25.5	191.0
Target Range - Lower Bound		0.06	4.0	0.070	2.59	41.0	26.0	1.23	535	0.34	0.56	15.6	37.4	640	20.7	158.5
Upper Bound		0.28	5.2	0.098	3.19	51.2	32.2	1.53	665	0.58	0.71	19.2	46.2	800	26.4	193.5
OREAS-76a																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																



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 Account: BMRPLLWB

Project: Big 4 - Assorted

QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	ME-MS61 Re ppm	ME-MS61 S %	ME-MS61 Sb ppm	ME-MS61 Sc ppm	ME-MS61 Se ppm	ME-MS61 Sn ppm	ME-MS61 Sr ppm	ME-MS61 Ta ppm	ME-MS61 Te ppm	ME-MS61 Th ppm	ME-MS61 Ti %	ME-MS61 Tl ppm	ME-MS61 U ppm	ME-MS61 V ppm	ME-MS61 W ppm
STANDARDS																
AMIS01 60																
Target Range - Lower Bound																
Upper Bound																
CCU-1e																
Target Range - Lower Bound																
Upper Bound																
EMOG-17		0.331	3.34	805	8.0	7	2.5	206	0.88	1.44	10.45	0.317	2.15	3.1	72	3.7
Target Range - Lower Bound		0.286	2.91	643	7.2	4	2.2	184.5	0.78	1.10	10.35	0.294	1.89	2.8	67	3.3
Upper Bound		0.354	3.57	869	9.0	9	3.2	226	1.08	1.46	12.65	0.370	2.61	3.7	84	4.7
G313-5																
Target Range - Lower Bound																
Upper Bound																
GBM903-13																
Target Range - Lower Bound																
Upper Bound																
GMO-12																
Target Range - Lower Bound																
Upper Bound																
MP-1b																
Target Range - Lower Bound																
Upper Bound																
OREAS 621																
Target Range - Lower Bound																
Upper Bound																
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
OREAS 920		<0.002	0.03	1.45	14.3	1	4.9	87.1	1.33	<0.05	20.1	0.478	0.90	3.6	96	3.3
Target Range - Lower Bound		<0.002	<0.01	1.22	12.8	<1	4.3	73.6	1.08	<0.05	17.35	0.434	0.73	3.3	86	2.5
Upper Bound		0.004	0.05	1.76	15.8	2	5.7	90.4	1.43	0.12	21.2	0.542	1.03	4.2	108	3.7
OREAS-76a																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																



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QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.001	Co-OG62 Co % 0.0005	Au-ICP21 Au ppm 0.001
STANDARDS							
AMIS01 60					0.002	3.08	
Target Range - Lower Bound					<0.001	2.99	
Upper Bound					0.004	3.21	
CCU-1e					0.101	0.0310	
Target Range - Lower Bound					0.096	0.0285	
Upper Bound					0.106	0.0317	
EMOG-17		16.2	7490	63.7			
Target Range - Lower Bound		14.3	6800	55.6			
Upper Bound		17.7	8320	76.4			
G313-5							7.08
Target Range - Lower Bound							6.64
Upper Bound							7.50
GBM903-13					0.032	0.0043	
Target Range - Lower Bound					0.030	0.0041	
Upper Bound					0.034	0.0059	
GMO-12					0.001	0.0038	
Target Range - Lower Bound							
Upper Bound							
MP-1b					2.26	<0.0005	
Target Range - Lower Bound					2.22	<0.0005	
Upper Bound					2.38	0.0014	
OREAS 621					0.007	0.0027	
Target Range - Lower Bound					0.006	0.0020	
Upper Bound					0.010	0.0039	
OREAS 682							0.076
Target Range - Lower Bound							
Upper Bound							
OREAS 920		34.7	120	160.0			
Target Range - Lower Bound		29.8	102	128.0			
Upper Bound		36.6	130	174.0			
OREAS-76a					0.013	0.1180	
Target Range - Lower Bound					0.009	0.1145	
Upper Bound					0.013	0.1240	
PK03							5.03
Target Range - Lower Bound							4.73
Upper Bound							5.34
PMP-18							0.307
Target Range - Lower Bound							0.289
Upper Bound							0.327



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QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	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 %	ME-MS61 Ga ppm
BLANKS																
BLANK	Target Range - Lower Bound															
	Upper Bound															
BLANK	Target Range - Lower Bound															
	Upper Bound															
BLANK	Target Range - Lower Bound	<0.01	<0.01	0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	0.09
	Upper Bound	0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
DUPLICATES																
ORIGINAL	Target Range - Lower Bound															
DUP	Upper Bound															
ORIGINAL	Target Range - Lower Bound															
DUP	Upper Bound															
17888	Target Range - Lower Bound	0.09	7.58	3.9	80	0.69	0.15	7.86	0.11	15.75	41.7	309	0.40	110.5	5.79	13.05
	Upper Bound	0.10	8.04	4.3	100	0.85	0.16	8.31	0.14	17.10	44.3	324	0.48	116.5	6.14	13.95
DUP	Target Range - Lower Bound	0.09	7.71	4.0	80	0.84	0.14	7.95	0.11	16.80	42.5	307	0.42	114.5	5.89	13.40
	Upper Bound	0.08	7.25	3.6	60	0.68	0.13	7.50	0.08	15.45	39.9	292	0.34	108.5	5.54	12.50
	Upper Bound	0.10	8.04	4.3	100	0.85	0.16	8.31	0.14	17.10	44.3	324	0.48	116.5	6.14	13.95



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QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	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	ME-MS61 Rb ppm 0.1
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		0.06	<0.1	<0.005	<0.01	<0.5	0.3	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range - Lower Bound		<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	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
DUPLICATES																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
ORIGINAL																
DUP																
Target Range - Lower Bound																
Upper Bound																
17888		0.09	0.8	0.062	0.60	7.0	37.9	5.47	1360	0.30	2.27	1.2	162.0	150	27.3	27.3
DUP		0.06	0.8	0.069	0.60	7.2	44.4	5.53	1380	0.28	2.31	1.2	163.5	150	27.1	28.7
Target Range - Lower Bound		<0.05	0.7	0.057	0.56	6.2	38.9	5.22	1295	0.23	2.17	1.0	154.5	130	25.3	26.5
Upper Bound		0.10	0.9	0.074	0.64	8.0	43.4	5.79	1445	0.35	2.41	1.4	171.0	170	29.1	29.5



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QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	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	ME-MS61 W ppm 0.1
BLANKS																
BLANK	Target Range - Lower Bound															
	Upper Bound															
BLANK	Target Range - Lower Bound															
	Upper Bound															
BLANK		<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	<0.1
Target Range - Lower Bound		<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	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
DUPLICATES																
ORIGINAL	DUP															
Target Range - Lower Bound																
Upper Bound																
ORIGINAL	DUP															
Target Range - Lower Bound																
Upper Bound																
17888		<0.002	0.05	0.22	34.9	1	0.5	77.3	0.09	<0.05	0.86	0.224	0.11	0.3	165	0.2
DUP		<0.002	0.05	0.23	35.4	1	0.5	79.9	0.09	<0.05	0.89	0.226	0.11	0.3	166	0.2
Target Range - Lower Bound		<0.002	0.04	0.16	33.3	<1	0.3	74.5	<0.05	<0.05	0.82	0.209	0.08	0.2	156	<0.1
Upper Bound		0.004	0.06	0.29	37.0	2	0.7	82.7	0.10	0.10	0.93	0.241	0.14	0.4	175	0.3



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QC CERTIFICATE OF ANALYSIS SD20140756

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	As-OG62 As % 0.001	Co-OG62 Co % 0.0005	Au-ICP21 Au ppm 0.001
BLANKS							
BLANK							0.003
Target Range - Lower Bound							<0.001
Upper Bound							0.002
BLANK				<0.001	<0.0005		
Target Range - Lower Bound				<0.001	<0.0005		
Upper Bound				0.002	0.0010		
BLANK	<0.1	<2	<0.5				
Target Range - Lower Bound	<0.1	<2	<0.5				
Upper Bound	0.2	4	1.0				
DUPLICATES							
ORIGINAL							0.003
DUP							0.005
Target Range - Lower Bound							0.003
Upper Bound							0.005
ORIGINAL							<0.001
DUP							<0.001
Target Range - Lower Bound							<0.001
Upper Bound							0.002
ORIGINAL							0.001
DUP							0.001
Target Range - Lower Bound							<0.001
Upper Bound							0.002
17888	12.0	98	29.7				
DUP	12.2	98	29.5				
Target Range - Lower Bound	11.4	91	26.9				
Upper Bound	12.8	105	32.3				



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QC CERTIFICATE OF ANALYSIS SD20140756
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	CERTIFICATE COMMENTS								
	ANALYTICAL COMMENTS								
Applies to Method:	REEs 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. <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%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-22	PUL-31	PUL-QC	SPL-21	WEI-21	
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. <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">As-OG62</td> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">Co-OG62</td> <td style="width: 33%;">ME-MS61</td> </tr> <tr> <td>ME-OG62</td> <td></td> <td></td> <td></td> </tr> </table>	As-OG62	Au-ICP21	Co-OG62	ME-MS61	ME-OG62			
As-OG62	Au-ICP21	Co-OG62	ME-MS61						
ME-OG62									



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 This copy reported on
 19–MAY–2021
 Account: BMRPLLBW

CERTIFICATE SD21090990

Project: Gowganda – Big Four
 P.O. No.: BMR21–004
 This report is for 4 samples of Rock submitted to our lab in Sudbury, ON, Canada on
 9–APR–2021.

The following have access to data associated with this certificate:

PETER DOYLE
 NICO KASTEK
 RYAN WELLS

MIKE HENDRICKSON
 FRANK PLOEGER

SEAN HICKS
 STEVE TRIMMER

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 up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
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:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS SD21090990

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
R0163		0.62	0.37	0.21	55.1	10	1.37	1.87	3.47	0.25	3.97	30.1	10	0.40	121.0	25.9
R0164		1.02	29.6	7.32	79.7	230	1.50	95.9	0.43	0.15	13.35	63.6	56	1.00	16.4	7.92
R0165		1.51	1.94	0.27	49.6	10	0.50	8.01	2.37	0.56	2.92	26.6	18	0.25	155.0	2.44
R0166		0.75	8.07	5.89	120.0	120	1.14	4.51	8.47	0.96	46.2	106.0	15	0.50	367	5.19



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Project: Gowganda – Big Four

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CERTIFICATE OF ANALYSIS SD21090990

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
R0163		4.04	<0.05	0.1	0.073	0.02	1.9	2.2	4.20	1270	5.85	0.07	0.3	5.5	690	74.7
R0164		32.0	0.05	4.2	0.057	0.69	5.9	84.6	4.17	522	5.97	1.71	7.0	32.2	740	4270
R0165		1.13	<0.05	0.2	0.020	0.04	1.3	4.6	0.30	329	2.18	0.01	0.2	11.6	1130	273
R0166		12.85	0.10	2.4	0.160	0.73	16.9	26.6	2.27	1060	2.05	2.37	2.4	72.9	260	359



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CERTIFICATE OF ANALYSIS SD21090990

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
R0163		0.9	<0.002	0.20	0.40	0.9	1	0.4	14.8	<0.05	0.19	0.08	0.010	0.06	0.3	11
R0164		15.4	<0.002	0.40	0.35	12.0	<1	1.2	48.3	0.49	0.15	1.35	0.305	0.23	1.7	76
R0165		1.1	<0.002	1.23	0.21	0.8	1	<0.2	9.5	<0.05	0.27	0.09	0.013	0.09	1.0	7
R0166		33.1	<0.002	0.11	0.96	26.3	1	0.4	109.0	0.21	<0.05	2.90	0.293	0.16	0.9	157



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CERTIFICATE OF ANALYSIS SD21090990

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	CRU-QC Pass2mm % 0.01	PUL-QC Pass75um % 0.01
R0163		0.3	6.3	157	4.2	73.5	92.2
R0164		1.3	11.7	161	162.5		90.9
R0165		0.1	5.2	204	7.5		
R0166		0.3	39.4	222	80.2		



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CERTIFICATE OF ANALYSIS SD21090990

	CERTIFICATE COMMENTS
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	ANALYTICAL COMMENTS								
Applies to Method:	REEs may not be totally soluble in this method. ME-MS61								
	ACCREDITATION COMMENTS								
Applies to Method:	NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist ME-MS61								
	LABORATORY ADDRESSES								
Applies to Method:	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia ME-MS61								
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%;"></td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td>PUL-31</td> </tr> </table>	CRU-31	CRU-QC	LOG-22		PUL-QC	SPL-21	WEI-21	PUL-31
CRU-31	CRU-QC	LOG-22							
PUL-QC	SPL-21	WEI-21	PUL-31						



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 19–MAY–2021
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QC CERTIFICATE SD21090990

Project: Gowganda – Big Four
 P.O. No.: BMR21–004
 This report is for 4 samples of Rock submitted to our lab in Sudbury, ON, Canada on
 9–APR–2021.

The following have access to data associated with this certificate:

PETER DOYLE
 NICO KASTEK
 RYAN WELLS

MIKE HENDRICKSON
 FRANK PLOEGER

SEAN HICKS
 STEVE TRIMMER

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 up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
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:

Cameron Brosnan, Laboratory Manager, Perth



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Project: Gowganda – Big Four
QC CERTIFICATE OF ANALYSIS SD21090990

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	
		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 %	Ga ppm
		0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01	0.05
STANDARDS																
GBM908-10		2.82	7.10	56.9	1090	1.56	1.17	3.85	1.71	101.0	25.5	135	3.71	3550	5.53	19.70
Target Range – Lower Bound		2.60	6.40	50.2	930	1.27	1.12	3.33	1.53	99.0	24.0	125	3.44	3350	4.98	18.65
Upper Bound		3.20	7.84	61.8	1280	1.66	1.39	4.10	1.91	121.0	29.6	155	4.32	3850	6.10	22.9
MRGeo08		4.47	8.43	33.7	1180	3.34	0.68	2.92	2.22	77.4	18.6	100	12.25	675	4.29	18.50
Target Range – Lower Bound		3.93	6.64	29.5	920	2.98	0.58	2.35	2.00	66.2	17.7	81	11.20	587	3.55	17.50
Upper Bound		4.83	8.14	36.5	1270	3.76	0.73	2.90	2.48	81.0	21.9	102	13.80	675	4.37	21.5
OREAS 20a		0.08	7.81	19.0	1100	3.67	0.16	2.66	0.09	75.5	12.6	67	14.90	46.7	3.67	18.30
Target Range – Lower Bound		0.04	6.94	15.1	900	3.24	0.11	2.26	0.04	69.3	12.0	58	13.65	42.0	3.23	17.60
Upper Bound		0.08	8.50	18.9	1240	4.07	0.17	2.78	0.13	84.7	14.8	73	16.75	48.8	3.97	21.6
BLANKS																
BLANK		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Target Range – Lower Bound		<0.01	<0.01	<0.2	<10	<0.05	<0.01	<0.01	<0.02	<0.01	<0.1	<1	<0.05	<0.2	<0.01	<0.05
Upper Bound		0.02	0.02	0.4	20	0.10	0.02	0.02	0.04	0.02	0.2	2	0.10	0.4	0.02	0.10
DUPLICATES																
R0759		0.08	7.49	3.9	90	0.87	0.18	5.25	0.04	18.00	42.4	31	0.43	96.8	8.29	18.80
DUP		0.08	7.72	3.7	100	0.86	0.20	5.36	0.03	18.90	41.8	32	0.44	101.0	8.48	18.95
Target Range – Lower Bound		0.07	7.21	3.4	80	0.77	0.17	5.03	<0.02	17.50	39.9	29	0.36	95.2	7.96	17.90
Upper Bound		0.09	8.00	4.2	110	0.96	0.21	5.58	0.04	19.40	44.3	34	0.51	102.5	8.81	19.85
R0166		8.07	5.89	120.0	120	1.14	4.51	8.47	0.96	46.2	106.0	15	0.50	367	5.19	12.85
DUP		10.60	6.05	126.5	120	0.97	4.59	8.78	1.00	48.4	113.0	16	0.55	385	5.35	13.45
Target Range – Lower Bound		8.86	5.66	117.0	100	0.95	4.31	8.18	0.91	44.9	104.0	14	0.45	363	5.00	12.45
Upper Bound		9.81	6.28	129.5	140	1.16	4.79	9.07	1.05	49.7	115.0	17	0.60	389	5.54	13.85



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QC CERTIFICATE OF ANALYSIS SD21090990

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	
		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	Rb ppm
		STANDARDS														
GBM908-10		0.14	4.0	0.075	2.13	51.7	10.2	1.77	772	63.0	2.11	10.3	2230	1000	1995	158.5
Target Range – Lower Bound		0.13	3.3	0.064	1.87	49.0	9.8	1.61	715	57.9	1.93	9.5	2020	880	1845	153.0
Upper Bound		0.35	4.3	0.092	2.31	61.0	12.4	1.99	885	70.9	2.38	11.9	2470	1100	2250	187.0
MRGeo08		0.16	3.3	0.174	3.46	38.8	32.9	1.46	592	15.50	2.13	21.3	750	1140	1135	205
Target Range – Lower Bound		<0.05	2.8	0.155	2.79	31.1	29.5	1.17	497	13.65	1.76	19.0	622	930	971	173.5
Upper Bound		0.27	3.6	0.201	3.43	39.1	36.5	1.45	619	16.75	2.18	23.4	760	1160	1185	212
OREAS 20a		0.17	3.1	0.056	3.38	36.9	37.6	1.36	522	3.04	2.02	20.6	38.1	1070	21.7	213
Target Range – Lower Bound		0.06	2.5	0.038	2.93	32.4	34.5	1.21	463	2.88	1.77	18.3	34.9	900	19.2	196.0
Upper Bound		0.28	3.3	0.063	3.61	40.7	42.6	1.51	577	3.63	2.19	22.5	43.1	1120	24.6	240
		BLANKS														
BLANK		0.08	<0.1	<0.005	<0.01	<0.5	<0.2	<0.01	<5	<0.05	<0.01	<0.1	<0.2	<10	<0.5	<0.1
Target Range – Lower Bound		<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	<0.1
Upper Bound		0.10	0.2	0.010	0.02	1.0	0.4	0.02	10	0.10	0.02	0.2	0.4	20	1.0	0.2
		DUPLICATES														
R0759		0.08	1.9	0.109	0.55	7.6	32.0	3.51	1280	0.64	2.87	2.7	76.2	330	3.5	24.3
DUP		0.06	1.9	0.103	0.56	7.8	32.6	3.57	1320	0.61	2.92	2.7	76.8	330	3.6	24.1
Target Range – Lower Bound		<0.05	1.7	0.096	0.52	6.8	30.5	3.35	1230	0.54	2.74	2.5	72.5	300	2.9	22.9
Upper Bound		0.10	2.1	0.116	0.59	8.6	34.1	3.73	1370	0.71	3.05	2.9	80.5	360	4.2	25.5
R0166		0.10	2.4	0.160	0.73	16.9	26.6	2.27	1060	2.05	2.37	2.4	72.9	260	359	33.1
DUP		0.08	2.5	0.164	0.76	18.0	27.9	2.34	1120	2.12	2.44	2.7	75.1	260	371	35.4
Target Range – Lower Bound		<0.05	2.2	0.149	0.70	16.1	25.7	2.18	1030	1.93	2.27	2.3	70.1	240	346	32.4
Upper Bound		0.10	2.7	0.175	0.79	18.8	28.8	2.43	1150	2.24	2.54	2.8	77.9	280	384	36.1



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QC CERTIFICATE OF ANALYSIS SD21090990

Sample Description	Method Analyte Units LOD	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	ME-MS61 W ppm 0.1
STANDARDS																
GBM908-10		<0.002	0.35	1.64	17.4	<1	3.1	284	0.72	<0.05	17.10	0.634	1.24	2.0	137	3.7
Target Range – Lower Bound		<0.002	0.33	1.40	17.0	<1	2.7	258	0.64	<0.05	16.55	0.591	1.00	2.0	123	2.9
Upper Bound		0.005	0.43	2.01	21.0	2	3.9	316	0.92	0.15	20.3	0.733	1.40	2.6	153	4.1
MRGeo08		0.010	0.32	4.49	12.0	<1	3.9	326	1.51	<0.05	20.9	0.518	1.10	5.4	117	4.9
Target Range – Lower Bound		0.004	0.27	3.89	11.1	<1	3.5	277	1.39	<0.05	17.90	0.443	0.86	4.9	97	4.1
Upper Bound		0.013	0.35	5.39	13.7	4	4.7	339	1.81	0.12	21.9	0.553	1.21	6.2	121	5.8
OREAS 20a		<0.002	0.07	0.59	11.9	<1	3.9	294	1.55	<0.05	21.3	0.488	1.11	6.1	111	3.2
Target Range – Lower Bound		<0.002	0.04	0.41	11.0	<1	3.4	266	1.35	<0.05	19.70	0.435	0.94	5.6	98	2.8
Upper Bound		0.005	0.09	0.73	13.6	2	4.6	326	1.77	0.11	24.1	0.543	1.32	7.1	122	4.0
BLANKS																
BLANK		<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	<0.1
Target Range – Lower Bound		<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	<0.1
Upper Bound		0.004	0.02	0.10	0.2	2	0.4	0.4	0.10	0.10	0.02	0.010	0.04	0.2	2	0.2
DUPLICATES																
R0759		<0.002	0.07	0.31	44.6	1	1.0	91.3	0.20	<0.05	2.54	0.439	0.16	0.8	253	0.5
DUP		0.002	0.07	0.33	44.2	<1	1.0	92.7	0.20	<0.05	2.41	0.452	0.16	0.8	257	0.5
Target Range – Lower Bound		<0.002	0.06	0.25	42.1	<1	0.8	87.2	0.14	<0.05	2.34	0.418	0.13	0.7	241	0.4
Upper Bound		0.004	0.08	0.39	46.7	2	1.3	96.8	0.26	0.10	2.61	0.473	0.19	0.9	269	0.6
R0166		<0.002	0.11	0.96	26.3	1	0.4	109.0	0.21	<0.05	2.90	0.293	0.16	0.9	157	0.3
DUP		0.005	0.11	1.00	27.9	<1	0.5	112.5	0.24	<0.05	3.23	0.313	0.15	0.9	162	0.3
Target Range – Lower Bound		<0.002	0.09	0.86	25.6	<1	<0.2	105.0	0.16	<0.05	2.90	0.283	0.12	0.8	151	0.2
Upper Bound		0.004	0.13	1.10	28.6	2	0.7	116.5	0.29	0.10	3.23	0.323	0.19	1.0	168	0.4



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QC CERTIFICATE OF ANALYSIS SD21090990

Sample Description	Method Analyte Units LOD	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
STANDARDS				
GBM908-10		37.4	1040	137.0
Target Range – Lower Bound		35.2	961	117.5
Upper Bound		43.2	1180	160.5
MGeo08		28.7	851	108.0
Target Range – Lower Bound		23.8	722	92.2
Upper Bound		29.3	886	126.0
OREAS 20a		28.6	72	93.1
Target Range – Lower Bound		24.0	60	75.2
Upper Bound		29.6	78	103.0
BLANKS				
BLANK		<0.1	<2	<0.5
Target Range – Lower Bound		<0.1	<2	<0.5
Upper Bound		0.2	4	1.0
DUPLICATES				
R0759		20.7	89	63.9
DUP		20.5	91	64.6
Target Range – Lower Bound		19.5	84	58.9
Upper Bound		21.7	97	69.6
R0166		39.4	222	80.2
DUP		40.8	220	83.7
Target Range – Lower Bound		38.0	208	75.3
Upper Bound		42.2	234	88.6



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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
 No: 825, Corporate Site No: 23001.

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 THE PACIFIC BUILDING
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Project: Gowganda – Big Four

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 Account: BMRPLLBW

QC CERTIFICATE OF ANALYSIS SD21090990

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

ACCREDITATION COMMENTS

Applies to Method: NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist
 ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia
 ME-MS61

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

8.0 APPENDIX

APPENDIX 1: Mining Claim Cells List

APPENDIX 2: Certificates of Analyses

APPENDIX 3: Detailed Mapping

LEGEND

dbS	diabase- Sudbury swarm	●	control point
dbU	diabase- undifferentiated	□	cut/ pit/ shaft
um	ultramafic (mafic?)	↔	QV (quartz vein)
P	porphyry	↔	channel sample
IF	banded iron formation	□	R0164 notes
V	mafic volcanics (ultramafic?)		

