

Appendix C-1

Geochemical report



AGNICO EAGLE

MELIADINE GOLD PROJECT

2018 METAL LEACHING AND ACID ROCK DRAINAGE MONITORING REPORT

**In Accordance with NIRB Project Certificate No. 006 and
Water License 2AM-MEL1631 Schedule B, Item 6.**

**Prepared by Agnico-Eagle Mines Limited –
Meliadine Division**

March 2019

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1 INTRODUCTION

In February 2015, Agnico Eagle Mines Ltd. (Agnico Eagle) was issued the NIRB Project Certificate No. 006, which was subsequently amended in February 2019, for the Meliadine Gold Project, near Rankin Inlet, NU. In April 2016 Agnico Eagle was also issued the Water License No 2AM-MEL1631. In accordance with Conditions 19, 22, and 31, of the Project Certificate, Agnico Eagle has developed a waste rock and quarry monitoring plan to characterize the metal leaching and acid rock drainage (ML/ARD) potential of excavated materials on-site. This report provides the ML/ARD characterization results of samples collected in 2018 from underground development areas at the Meliadine Mine, as well as quarry borrow material used for construction.

The baseline geochemical findings for the site (Golder 2014) found that there was low potential for ARD generation in all of the deposits except the Discovery Zone. Mining activities have not started at Discovery and as a result, 2018 sampling was not expected to find samples with ARD potential. Potential for ARD from Quarry locations was also expected to be low based on characterization studies performed by Golder (2010).

Metal and metalloid (hereafter referred to simply as metal) leaching was also found to have low potential for the areas being mined in 2018, with no management requirements. Arsenic was the element of interest in the deposit, although at concentrations that would not pose a water quality risk. The results from 2018 are presented in context of sampling from 2017 results, as well as in comparison to the range of concentrations predicted from project development studies.

As a result of the project baseline studies establishing that management criteria were not required for the operation, the objective of this characterization program was to confirm the findings from the baseline studies and to ensure that the current management plan is protective of the receiving environment.

2 SAMPLING

2.1 WASTE ROCK

In 2018, 45 samples were collected from waste rock produced as part of underground development activities. The location of the samples are shown in Figure 1 and were taken throughout the mine on levels 125-225 and 275-425. Roughly half of the samples were taken in primary footwall drives, primarily in Meta-Volcanic rocks with a few being taken in secondary footwalls being driven in Meta-Sedimentary Rocks. The other half of samples came from cross-cuts being done to access the ore and were a combination of Meta-Volcanics, Meta-Sediments, and Iron Formations. A few samples were taken in the primary or internal ramps (RP425-450 and RP375-400) along with a few other miscellaneous headings, which were all in Meta-Volcanic Rocks.

Sample collection was performed by the operational geology team as follows:

- Sampling frequency was initially quarterly until the further quarter, when it switched to monthly
- Quarterly sampling to recover 12 samples plus one duplicate
- Monthly sampling to recover 6 samples plus one replicate for a total of 7
- The dominant lithologies encountered in the waste rock were selected by
 - o choosing 3 from each of the top three priority headings in the month (i.e. one from each heading)
 - o 3 additional samples from the other most active headings each month;
 - o The rock type (i.e. volcanic (VOL), sedimentary (SED) or iron formation (IF)) were noted with each sample

Each sample was approximately 1kg and representative of the bulk composition of the rock being sampled.

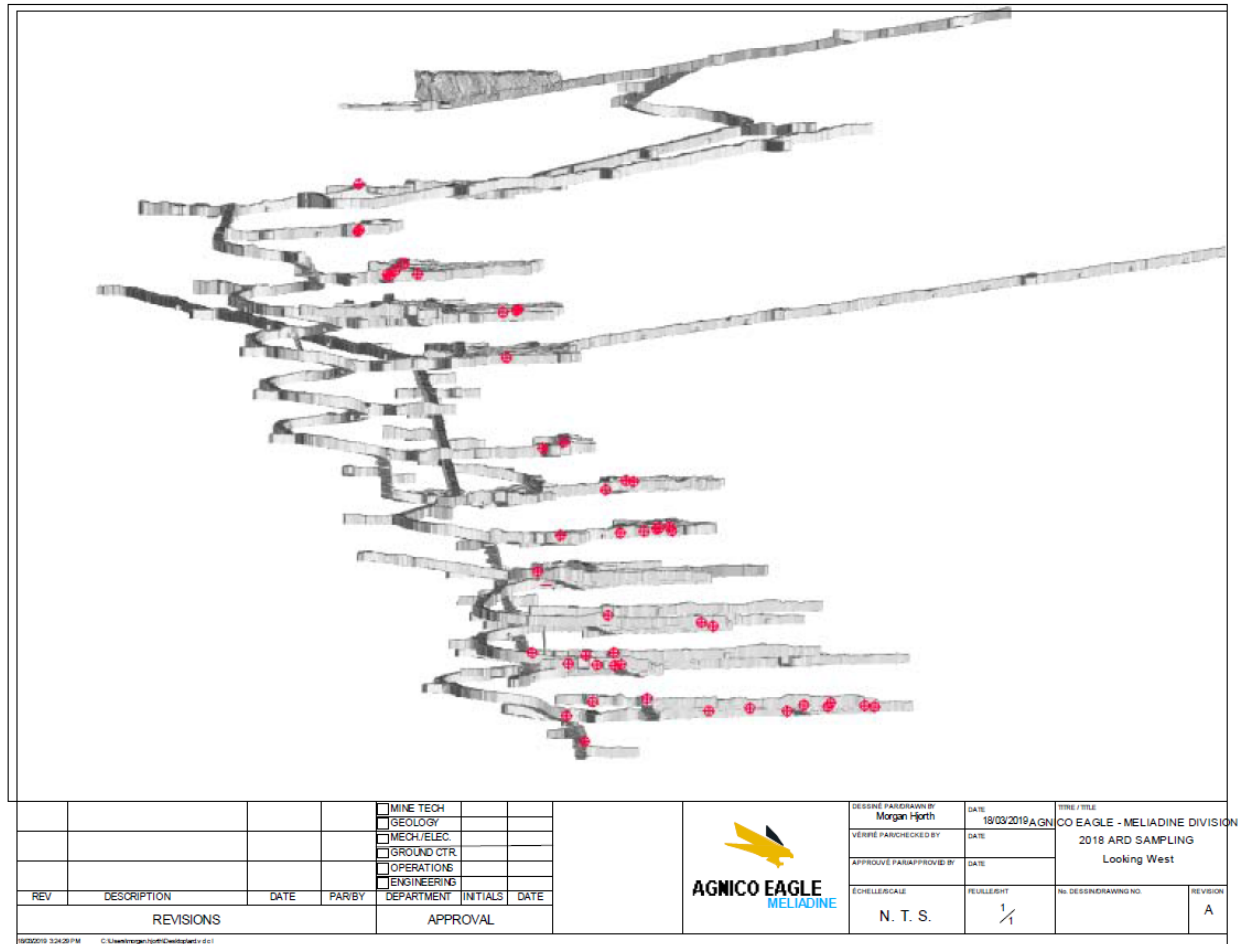


Figure 1: Cross section of underground mine ML/ARD sampling locations.

Note: Sample locations are indicated by red circles.

2.2 SURFACE QUARRIES

In 2018, 30 esker quarry samples were collected for site construction material. The majority of samples in 2018 were from the Meliadine esker (top of Figure 2), with the remainder primarily from Site D (outside of Rankin towards camp, just past the Char River bridge) and the Itivia esker (in Rankin Inlet).

The number of samples collected at each location was based on the estimated volume prior to sampling using a ratio of 8 samples/100,000 tonnes as recommended by MEND (2009). Total volume of the esker/quarry was estimated for bank (in situ) volume and using an estimated bulk density based on typical published values. During excavation of the quarries, typically less material was removed than estimated and the sampling rate was therefore higher than 8/100,000 tonnes.

Depending on whether the quarry location was bedrock or an esker, the material was sampled differently. For bedrock, boreholes were drilled to approximately 5m, with 1 kg of cuttings recovered. In esker material, approximately 1 kg of material was collected by a shovel at each location. The location of quarries is provided in Figure 2.

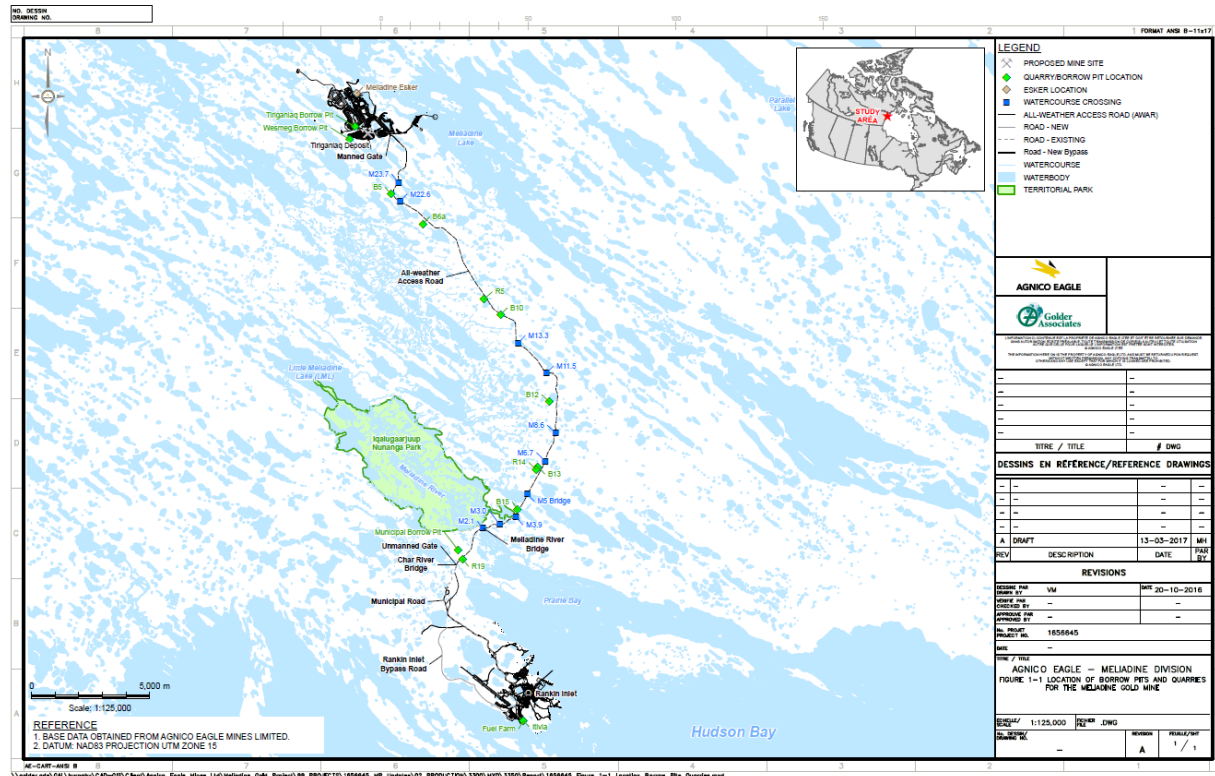


Figure 2: Quarry location map.

3 LABORATORY TESTING

All samples collected were shipped off-site to SGS Lakefield, Ontario, a commercial laboratory with specialization in ML/ARD. Analyses included:

- Acid-base accounting
 - Paste pH
 - Total sulphur (LECO)
 - Sulphate sulphur (HCl leach)
 - Total carbon (LECO)
 - Total inorganic carbon (TIC)
 - Neutralization potential (modified Sobek)
- Element scan by aqua regia digestion and a 31 element ICP-MS finish.

4 RESULTS & DISCUSSION

4.1 MINE DEVELOPMENT WASTE ROCK

4.1.1 ARD POTENTIAL

Neutralization Potential

Neutralization potential (NP) is expected to be primarily provided by calcite and dolomite, with some ankerite (Golder 2014). As a result, carbonate analysis alone would likely be appropriate for determining NP, although both methods were used (i.e. titration and direct carbonate analysis). Complete results are provided in Appendix A, with summary statistics in Table 1.

Golder (2014) indicated that NP from carbonate analysis (NP-Ca) was the more conservative method to determine buffering capacity of the rock and this was used as input into the ARD calculation. The relationship was checked in 2018, and the relationship generally held, especially at low NP values and therefore the continued use of NP-Ca was considered conservative for estimating ARD potential.

Table 1: Summary Statistics for 2018 ARD and Arsenic Results.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	7.7	8.0	8.3	8.4	8.5	8.8	9.0	9.4
NP	kg CaCO ₃ /t	23	38	72	173	154	222	265	272
AP	kg CaCO ₃ /t	0.62	0.68	1.6	3.8	6.0	6.6	15	43
Sulphur (total)	% S	0.01	0.05	0.09	0.18	0.26	0.29	0.66	1.6
Acid Leachable SO ₄ -S	% S	0.03	0.03	0.05	0.08	0.08	0.10	0.18	0.27
Carbon (total)	% C	0.15	0.51	1.3	2.2	2.1	2.8	4.0	4.2
Carbonate (CO ₃)	% CO ₃	0.49	2.0	4.5	10	9.4	13	18	20
NP-Ca	kg CaCO ₃ /t	8.2	34	75	168	157	220	307	325
NP-Ca/AP	ratio	1.8	5.71	19	32	26	71	228	246
Arsenic	mg/kg	2.8	4.7	15	56	382	130	1240	6000

Notes: P stands for percentile (e.g. P5 equals 5th percentile); NP-Ca is stands for NP by carbonate content.

Acid Potential

Project prediction studies indicated that the main sulphide minerals in the waste rock was pyrite, but also with arsenopyrite and lesser pyrrhotite, and chalcopyrite (Golder 2014). As a result, the main consideration for acid potential (AP) is the presence of sulphide minerals at Meliadine.

Project prediction studies were confirmed in 2018 sampling with acid-base accounting testing showing that sulphur is primarily present in the sulphide form (Table 1 summary, full results in Appendix A). Sulphur ranged from below detection 0.01% to a maximum of 1.6%, with a median of 0.18%.

ARD Assessment

The potential for ARD was assessed using NP-Ca/AP ratios (or neutralization potential ratios, NPR). AP was calculated from total sulphur. Ratios below 2 were used to indicate potential for ARD (PAG or potentially ARD generating), whereas ratios above 2 indicate low potential for ARD (non-PAG).

The classification of all Meliadine waste rock samples from underground since testing began in 2017 are provided in Figure 3 and a summary of ratios are provided in Table 1. As predicted by Golder (2014), the majority of operational muck samples collected to date were non-PAG. Samples from 2017 have also been included for ease of comparison to historical results.

The one exception was a sedimentary sample with an NPR of 1.8. This sample is not considered a risk as there is excess buffering in all other samples collected and it is only marginally below the non-PAG criterion. Given the carbonate mineralogy of the Meliadine samples, the threshold for a sample to produce ARD is likely closer to an NPR of one and this sample is unlikely to produce ARD even without the buffering of any other samples.

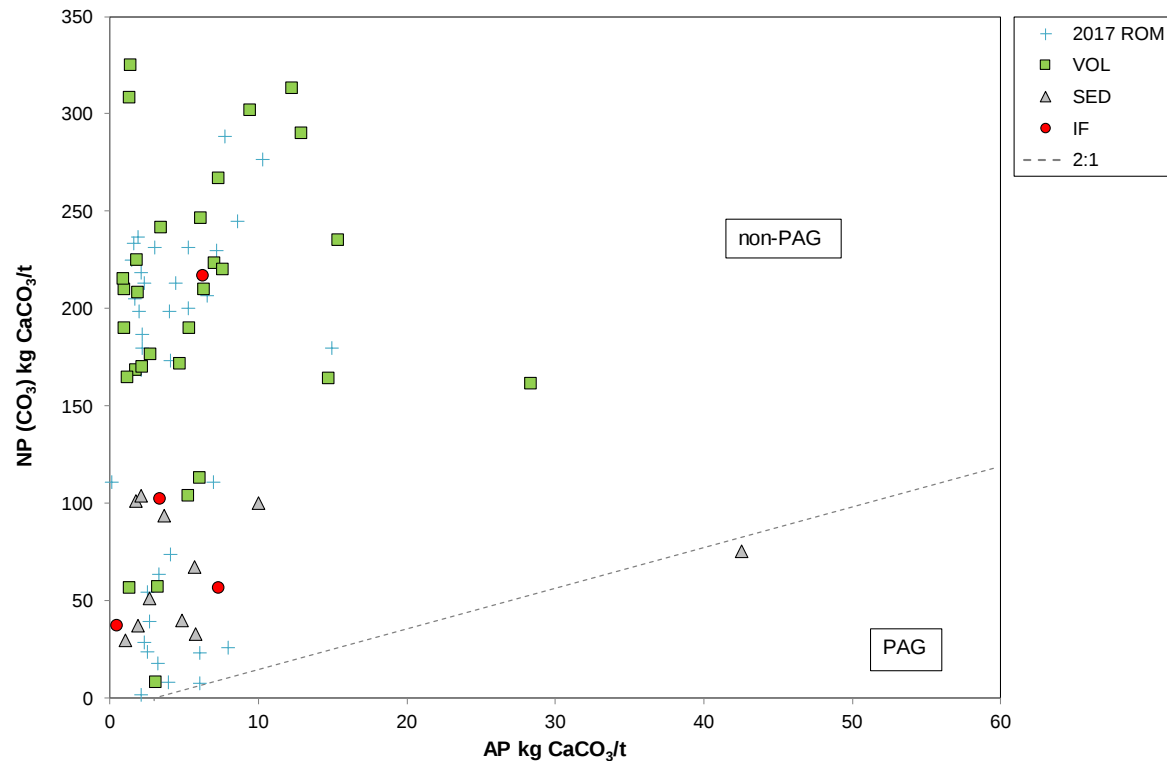


Figure 3: ARD classification of Meliadine Underground Waste Rock Samples.

Notes: ROM stands for run of mine; VOL for volcanics; SED for sedimentary/greywacke; IF for iron formation.

4.1.2 METAL LEACHING

Metal leaching was predicted by Golder (2014) to be low enough that management of waste rock to inhibit leaching was not required. However, based on project screening studies, arsenic was determined to be the main element of interest and analysis of this element (and all regulated elements) were part of operational monitoring since mining began. A statistical summary for arsenic is provided in Table 1, with complete element composition results provided in Appendix B.

To ensure arsenic concentrations were within project predictions, results have been compiled and compared against average and maximum arsenic concentrations reported by Golder (2014). As

shown in Figure 4, solid phase arsenic concentrations mainly fall within or below the average concentration, with no samples exceeding the maximum concentration reported by Golder (2014).

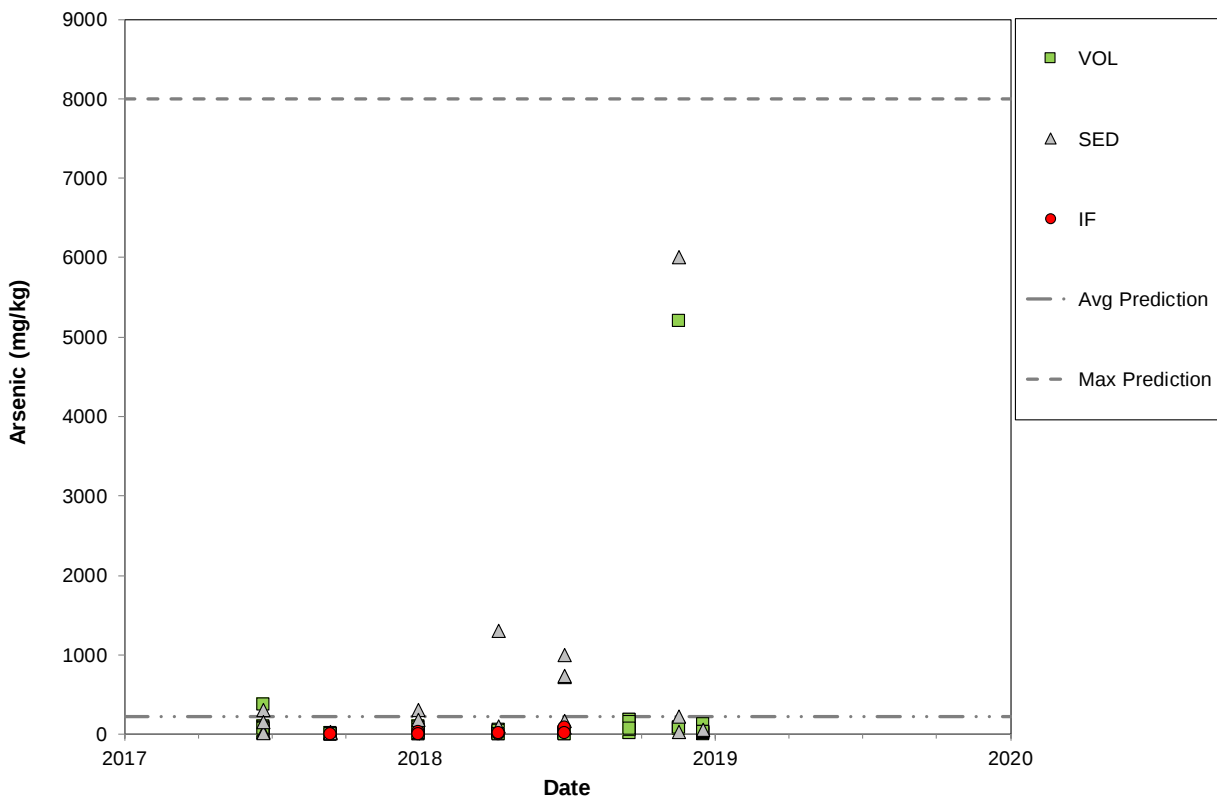


Figure 4: Arsenic concentrations in waste rock compared to project prediction studies.

4.2 QUARRY MATERIAL

4.2.1 ARD POTENTIAL

The potential for ARD from Quarry samples collected in 2018 was assessed by the same approach described above for waste rock in Section 4.1, whereby NP was provided by carbonate (NP-Ca) and AP was estimated based on total sulphur.

Complete results are provided in Appendix C with summary statistics provided in Table 2. NP-Ca ranged from 2 to 44 kg CaCO₃/t, with a median of 9.2 kg CaCO₃/t. Total sulphur ranged from near detection limits of 0.01% to a 0.1%, with a median of 0.02%. These are relatively low sulphur numbers as typically any rock with less than 0.1% sulphur will not generate acidity regardless of the carbonate content as other rock components such as alkaline silicates (e.g. feldspars) can neutralize the small amount of acid produced.

The potential for quarry material to produce ARD was based on NPR ratios, but also a sulphur limit of 0.1%, meaning that any samples with 0.1% or less sulphur would be non-PAG regardless of the NPR ratio. Based on the two criteria, none of the quarry samples collected were PAG. The 0.1% sulphur criterion affected 4 out of 30 samples. A statistical summary is provided in Table 2 and the classification of all samples collected since operations began are shown in Figure 5.

Table 2: Summary Statistics for Quarry Rock Samples Collected in 2018.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	5.6	6.1	7.0	8.6	8.1	9.1	9.6	9.7
NP	kg CaCO ₃ /t	2.0	3.1	5.5	9.2	10	11	20	44
AP	kg CaCO ₃ /t	0.62	0.62	0.6	0.6	0.7	0.6	1.3	1.6
Sulphur (total)	% S	0.01	0.01	0.01	0.02	0.03	0.04	0.07	0.1
Acid Leachable SO ₄ -S	% S	0.02	0.02	0.02	0.03	0.03	0.04	0.04	0.1
Carbon (total)	% C	0.06	0.06	0.08	0.16	0.44	0.60	1.5	2.2
Carbonate (CO ₃)	% CO ₃	0.04	0.04	0.08	0.14	0.26	0.29	0.82	1.6
NP-Ca	kg CaCO ₃ /t	0.58	0.67	1.3	2.3	4.3	4.9	14	27
NP-Ca/AP	ratio	0.48	1.5	2.3	3.3	5.7	5.9	17	36
Arsenic	mg/kg	0.58	1.3	3.4	5.3	7.7	7.8	17	58

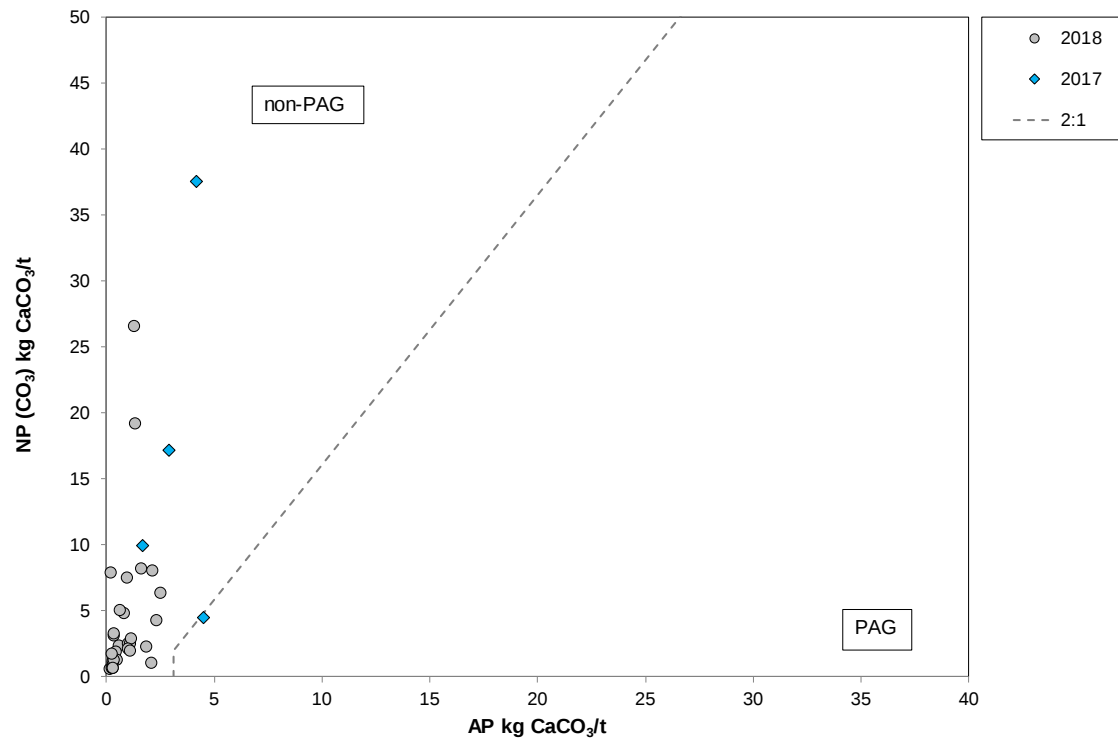


Figure 5: Quarry ARD Assessment.

Note: the vertical dashed line represents 0.1% S threshold.

4.2.2 METAL LEACHING

The same approach taken for waste rock was applied to quarry samples in terms of comparing against project prediction studies. All regulated elements were analysed in solid samples are included in Appendix D. Given the general presence of arsenic in the waste rock and background concentrations in the area, results for this element are summarized below.

Arsenic concentrations ranged from a minimum of 0.58 mg/kg to a maximum of 58 mg/kg, with a median of 5.3 mg/kg. These values are relatively low compared to waste rock and were within project prediction studies as the maximum value reported by Golder (2010) was 121 mg/kg. A statistical summary is provided in Table 2 and all results since sampling began in 2017 are provided in Appendix D.

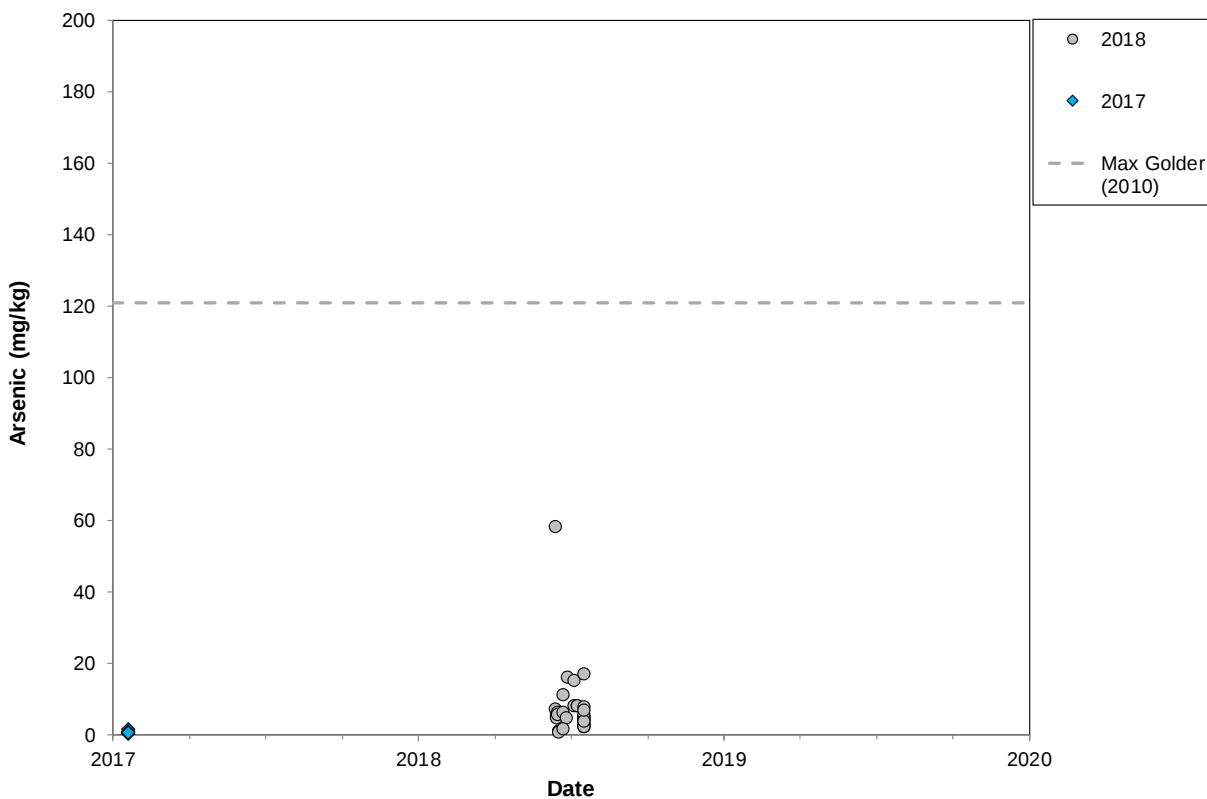


Figure 6: Solid Phase Quarry Arsenic Concentrations.

5 CONCLUSIONS

Based on geochemical characterization results obtained to date for the waste rock and quarry samples, there is low risk for ARD or metal leaching from the materials. Results are within project prediction studies for the project. Sampling will continue in 2019, with results reviewed internally as soon as they are available and provided with the 2019 annual report.

APPENDIX A: WASTE ROCK ACID-BASE ACCOUNTING DATA



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Project : PO#OL-664693

23-April-2018

Date Rec. : 17 April 2018
LR Report: CA15299-APR18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106915-D P100-58 MV	6: CAMLM106916-D P300-150 LJ	7: CAMLM106917-D P300-150 LJ	8: CAMLM106918- PF300W MV	9: CAMLM106919- FW375E MV	10: CAMLM10620-F W400E MV	11: CAMLM106921-Lev el 400 MV	12: CAMLM106922- DP-325-156-KS C	13: CAMLM106923-F W325W KSC
Sample Date & Time			09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18
Paste pH	20-Apr-18	15:54	8.72	8.61	8.55	8.32	8.13	8.39	8.30	8.43	8.97
Fizz Rate [---]	20-Apr-18	15:54	4	3	4	4	4	4	4	3	3
Sample weight [g]	20-Apr-18	15:54	2.05	2.02	2.02	1.93	2.00	2.00	1.99	2.00	1.99
HCl_add [mL]	20-Apr-18	15:54	161.00	27.00	40.00	155.00	138.00	114.00	126.00	30.00	27.50
HCl [Normality]	20-Apr-18	15:54	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	20-Apr-18	15:54	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	20-Apr-18	15:54	67.07	10.35	13.86	58.91	44.09	37.54	29.56	11.45	14.35
Final pH	20-Apr-18	15:54	1.62	1.68	1.72	1.62	1.67	1.68	1.78	1.86	1.58
NP [t CaCO3/1000 t]	20-Apr-18	15:54	229	41	65	249	235	191	242	46	33
AP [t CaCO3/1000 t]	---	---	6.56	0.62	3.44	7.19	1.56	28.4	3.44	1.88	0.62
Net NP [t CaCO3/1000 t]	---	---	223	40.6	61.3	242	233	163	239	44.5	32.4
NP/AP [ratio]	---	---	34.9	66.5	18.8	34.6	150	6.72	70.5	24.7	52.8
S [%]	19-Apr-18	14:06	0.224	0.014	0.138	0.404	0.058	0.956	0.139	0.110	0.033
Acid Leachable SO4-S [%]	---	---	< 0.02	< 0.02	0.03	0.17	< 0.02	0.05	0.03	0.05	< 0.02
Sulphide [%]	19-Apr-18	14:06	0.21	< 0.02	0.11	0.23	0.05	0.91	0.11	0.06	0.02
C [%]	19-Apr-18	12:40	3.00	0.543	1.51	3.51	2.86	2.32	3.00	0.671	0.471
CO3 [%]	19-Apr-18	12:40	13.4	2.24	6.14	16.0	13.5	9.70	14.5	2.24	1.79



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LR Report : CA15299-APR18

Analysis	14: CAMLM106924- FW325E MV	15: CAMLM106925- FW175E MV	16: CAMLM106926-F W175W MV
Sample Date & Time	09-Apr-18	09-Apr-18	09-Apr-18
Paste pH	8.95	8.93	8.73
Fizz Rate [---]	4	4	4
Sample weight [g]	1.98	1.94	2.01
HCl_add [mL]	120.00	40.00	107.00
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	28.72	14.12	41.01
Final pH	1.81	1.62	1.56
NP [t CaCO3/1000 t]	230	67	164
AP [t CaCO3/1000 t]	7.50	3.12	1.56
Net NP [t CaCO3/1000 t]	223	63.6	163
NP/AP [ratio]	30.7	21.3	105
S [%]	0.243	0.134	0.055
Acid Leachable SO4-S [%]	< 0.02	0.03	< 0.02
Sulphide [%]	0.24	0.10	0.05
C [%]	2.78	0.794	2.09
CO3 [%]	13.2	3.43	10.1

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Project : PO#OL-664693

23-July-2018

Date Rec. : 04 July 2018
LR Report: CA12122-JUL18
Reference: PO#OL-664693

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CERTIFICATE OF ANALYSIS

Partial Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAML106927- DP425 127-MV	6: CAML106928- DP425 128-MV	7: CAML106929- DP425 127-MV	8: CAML106930- DP425 127-MV
Sample Date & Time					29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18
Paste pH	16-Jul-18	08:37	18-Jul-18	10:34	8.35	8.36	8.41	8.83
Fizz Rate [---]	16-Jul-18	08:37	18-Jul-18	10:34	4	4	4	4
Sample weight [g]	16-Jul-18	08:37	18-Jul-18	10:34	2.00	1.96	2.02	1.96
HCl_add [mL]	16-Jul-18	08:37	18-Jul-18	10:34	90.00	130.00	105.00	40.00
HCl [Normality]	16-Jul-18	08:37	18-Jul-18	10:34	0.10	0.10	0.10	0.10
NaOH [Normality]	16-Jul-18	08:37	18-Jul-18	10:34	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Jul-18	08:37	18-Jul-18	10:34	20.17	49.57	40.87	18.34
Final pH	16-Jul-18	08:37	18-Jul-18	10:34	1.91	1.61	1.62	1.72
NP [t CaCO3/1000 t]	16-Jul-18	08:37	18-Jul-18	10:34	175	205	159	55
AP [t CaCO3/1000 t]	---	---	---	---	14.7	6.25	1.56	1.25
Net NP [t CaCO3/1000 t]	---	---	---	---	160	199	157	54.0
NP/AP [ratio]	---	---	---	---	11.9	32.8	102	44.2
S [%]	16-Jul-18	10:26	17-Jul-18	15:06	0.680	0.332	0.069	0.081
Acid Leachable SO4-S [%]	---	---	---	---	0.21	0.13	< 0.02	0.04
Sulphide [%]	17-Jul-18	14:11	17-Jul-18	14:56	0.47	0.20	0.05	0.04
C [%]	16-Jul-18	10:26	17-Jul-18	14:45	2.28	2.68	2.07	0.791
CO3 [%]	16-Jul-18	15:57	17-Jul-18	14:45	9.84	12.6	10.2	3.40
Weight [g]	---	---	---	---	2750	2005	2148	3156
Split	---	---	---	---	2.7	2.0	2.1	3.2
Pulv200M [250g]	---	---	---	---	1	1	1	1

Analysis	9: CAML106931- DP425 127-Lj	10: CAML106932- DP325-155 KSc	11: CAML106933- DP425-127 Lj	12: CAML106934- DP325-155 KSc	13: CAML106935- FW400E MV	14: CAML106936- DP325-155 KSc	15: CAML106937- DP325-155 KSc	16: CAML106938- DP325-155 KSc
Sample Date & Time	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18
Paste pH	8.35	8.95	8.52	8.98	8.38	8.91	8.93	9.35
Fizz Rate [---]	4	4	4	4	4	4	4	4
Sample weight [g]	1.96	1.99	2.01	1.98	2.00	2.00	2.01	2.00
HCl_add [mL]	56.00	40.00	140.00	40.00	107.00	59.00	61.00	60.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	31.18	25.40	56.53	19.56	40.05	28.67	28.75	28.40
Final pH	1.55	1.56	1.58	1.76	1.62	1.75	1.79	1.69

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LR Report : CA12122-JUL18

Analysis	9:	10:	11:	12:	13:	14:	15:	16:
	CAMLM106931- DP425 127-Lj	CAMLM106932- DP325-155 KSc	CAMLM106933- DP425-127 Lj	CAMLM106934- DP325-155 KSc	CAMLM106935- FW400E MV	CAMLM106936- DP325-155 KSc	CAMLM106937- DP325-155 KSc	CAMLM106938- DP325-155 KSc
NP [t CaCO ₃ /1000 t]	63	37	208	52	167	76	80	79
AP [t CaCO ₃ /1000 t]	7.19	5.62	6.25	2.81	2.81	3.75	1.88	2.19
Net NP [t CaCO ₃ /1000 t]	56.1	31.1	201	48.8	165	72.0	78.3	76.8
NP/AP [ratio]	8.81	6.52	33.2	18.3	59.5	20.2	42.8	36.1
S [%]	0.344	0.285	0.291	0.145	0.178	0.166	0.086	0.116
Acid Leachable SO ₄ -S [%]	0.11	0.10	0.09	0.06	0.09	0.05	0.03	0.05
Sulphide [%]	0.23	0.18	0.20	0.09	0.09	0.12	0.06	0.07
C [%]	0.826	0.505	2.80	0.761	2.18	1.94	1.57	1.34
CO ₃ [%]	3.38	1.98	13.0	3.06	10.6	5.62	6.07	6.25
Weight [g]	2414	2184	2231	2627	1720	2564	1766	2204
Split	2.4	2.2	2.2	2.6	1.7	2.6	1.8	2.2
Pulv200M [250g]	1	1	1	1	1	1	1	1

*NP (Neutralization Potential)

$$= 50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$$

Weight of Sample

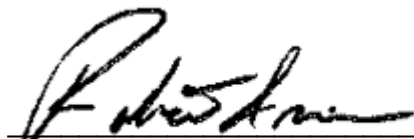
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.



Rob Irwin B.Sc., C.Chem
Technical Manager, Spectroscopy
Environmental, Analytical Services



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ABA - Modified Sobek

08-January-2019

Date Rec. : 07 December 2018

LR Report: CA14166-DEC18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLM10675-R P3-375-400-MV	6: CAMLM106976-F W1-275-W-SED	7: CAMLM106977-R P1-425-450-MV	8: CAMLM106978- FW-1-325-E-MV	9: CAMLM106979- FW1-175-W-MV	10: CAMLM106980- FW1-150-W-MV	11: CAMLM106981-F W1-150-W-MV
Paste pH	02-Jan-19	09:55	07-Jan-19	10:30	8.16	8.26	8.01	8.54	8.58	8.41	8.29
Fizz Rate [---]	02-Jan-19	09:55	07-Jan-19	10:30	4	4	4	4	4	4	4
Sample weight [g]	02-Jan-19	09:55	07-Jan-19	10:30	2.00	1.98	2.03	2.04	1.98	2.02	2.02
HCl Added [mL]	03-Jan-19	08:24	07-Jan-19	10:30	165.50	79.20	120.40	136.00	120.10	134.00	136.50
HCl [Normality]	02-Jan-19	09:55	07-Jan-19	10:30	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	02-Jan-19	09:55	07-Jan-19	10:30	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	03-Jan-19	08:24	07-Jan-19	10:30	67.10	30.04	32.54	50.14	44.49	50.43	48.70
Final pH	03-Jan-19	08:24	07-Jan-19	10:30	1.55	1.52	1.66	1.52	1.57	1.52	1.54
NP [t CaCO ₃ /1000 t]	03-Jan-19	08:24	07-Jan-19	10:30	246	124	216	210	191	207	217
AP [t CaCO ₃ /1000 t]	07-Jan-19	10:30	07-Jan-19	10:31	6.25	10.0	5.31	1.88	0.94	0.94	0.94
Net NP [t CaCO ₃ /1000 t]	07-Jan-19	10:31	07-Jan-19	10:31	240	114	211	209	190	206	216
NP/AP [ratio]	07-Jan-19	10:31	07-Jan-19	10:31	39.4	12.4	40.7	112	204	221	232
Sulphur (total) [%]	02-Jan-19	12:36	04-Jan-19	14:09	0.255	0.450	0.250	0.110	0.070	0.061	0.078
Acid Leachable SO ₄ -S [%]	03-Jan-19	13:17	04-Jan-19	14:22	0.06	0.13	0.08	0.05	0.04	0.03	0.05
Sulphide [%]	03-Jan-19	13:17	04-Jan-19	14:22	0.20	0.32	0.17	0.06	0.03	0.03	0.03
Carbon (total) [%]	02-Jan-19	12:36	04-Jan-19	14:09	3.37	1.64	2.76	2.68	2.32	2.66	2.75
Carbonate [%]	03-Jan-19	10:39	04-Jan-19	14:17	14.8	6.01	11.4	12.5	11.4	12.6	12.9



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ABA - Modified Sobek

LR Report :

CA14166-DEC18

*NP (Neutralization Potential)
= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur $\times 31.25$

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.

Chris Sullivan



Chris Sullivan, B.Sc., C.Chem
Project Specialist
Environmental Services, Analytical

**SGS Canada Inc.**

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ABA - Modified Sobek

Project : PO#OL-664693

12-October-2018

Date Rec. : 18 September 2018
 LR Report: CA14443-SEP18
 Reference: PO#OL-664693 Q4 Samples

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLM106954- RP3-375-400-W- MV
Paste pH	09-Oct-18	09:30	12-Oct-18	09:19	9.43
Fizz Rate [---]	09-Oct-18	09:30	12-Oct-18	09:19	3
Sample weight [g]	09-Oct-18	09:30	12-Oct-18	09:19	1.99
HCl Added [mL]	09-Oct-18	09:30	12-Oct-18	09:19	30.00
HCl [Normality]	09-Oct-18	09:30	12-Oct-18	09:19	0.10
NaOH [Normality]	09-Oct-18	09:30	12-Oct-18	09:19	0.10
NaOH to pH=8.3 [mL]	09-Oct-18	09:30	12-Oct-18	09:19	20.97
Final pH	09-Oct-18	09:30	12-Oct-18	09:19	1.54
NP [t CaCO3/1000 t]	09-Oct-18	09:30	12-Oct-18	09:19	23
AP [t CaCO3/1000 t]	---	---	---	---	0.62
Net NP [t CaCO3/1000 t]	---	---	---	---	22.1
NP/AP [ratio]	---	---	---	---	36.6
Sulphur (total) [%]	05-Oct-18	10:43	10-Oct-18	11:07	0.098

Analysis	6: CAMLM106955- PL1-375-W-W-M- V	7: CAMLM106956- VA1-425-C-W- MV	8: CAMLM106957- VA1-425-C-W- MV	9: CAMLM106958- DP-225-151-W- MV	10: CAMLM106959- FW-175-W-MV MV	11: CAMLM106960- FW1-125-W-W- MV
Paste pH	8.60	9.05	8.98	8.43	8.19	7.66
Fizz Rate [---]	4	4	4	4	4	4
Sample weight [g]	2.01	2.02	2.00	2.04	2.01	2.00
HCl Added [mL]	90.00	173.00	168.00	95.00	110.50	91.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	19.07	75.39	60.61	47.62	40.83	39.06
Final pH	1.90	1.63	1.75	1.53	1.69	1.53
NP [t CaCO3/1000 t]	176	242	268	116	173	130
AP [t CaCO3/1000 t]	1.25	1.25	0.94	5.31	4.69	5.94
Net NP [t CaCO3/1000 t]	175	240	268	111	169	124
NP/AP [ratio]	141	193	286	21.9	37.0	21.9
Sulphur (total) [%]	0.148	0.081	0.045	0.238	0.240	0.273

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLM106954- RP3-375-400-W- MV
Acid Leachable SO ₄ -S [%]	---	---	---	---	0.10
Sulphide [%]	10-Oct-18	10:33	10-Oct-18	11:07	< 0.02
Carbon (total) [%]	05-Oct-18	10:43	05-Oct-18	13:00	0.145
Carbonate [%]	05-Oct-18	12:55	05-Oct-18	13:00	0.490

Analysis	6: CAMLM106955- PL1-375-W-W-M- V	7: CAMLM106956 -VA1-425-C-W- MV	8: CAMLM106957 -VA1-425-C-W- MV	9: CAMLM106958- DP-225-151-W- MV	10: CAMLM106959- FW-175-W-MV	11: CAMLM106960 -FW1-125-W-W- MV
Acid Leachable SO ₄ -S [%]	0.11	0.04	< 0.02	0.07	0.09	0.08
Sulphide [%]	0.04	0.04	0.03	0.17	0.15	0.19
Carbon (total) [%]	2.18	3.69	4.00	1.50	2.38	1.74
Carbonate [%]	9.88	18.5	19.5	6.23	10.3	6.78

*NP (Neutralization Potential)

= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.

Chris Sullivan

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Project Specialist
Environmental Services, Analytical



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ABA - Modified Sobek

Project : PO # 664693

04-December-2018

Date Rec. : 12 November 2018

LR Report: CA15204-NOV18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Analysis CAMLM106968- DP1-175-158-M V	6: Analysis CAMLM106968- DP1-175-158-M V DUP	7: Analysis CAMLM106970- RP3-375-400-M V	8: Analysis CAMLM106971- FW2-375-E-KSC FW2-435-W-IF/S ED	9: Analysis CAMLM106972- FW2425-129-SE ED	10: Analysis CAMLM106973- FW1-150-W-MV D	11: Analysis CAMLM106974-
Paste pH	26-Nov-18	09:37	28-Nov-18	09:05	8.06	8.06	8.38	7.97	8.25	8.44	8.33
Fizz Rate [---]	26-Nov-18	09:37	28-Nov-18	09:05	4	4	4	4	4	4	4
Sample weight [g]	26-Nov-18	09:37	28-Nov-18	09:05	2.03	2.00	2.02	2.01	2.02	1.98	1.99
HCl Added [mL]	26-Nov-18	09:37	28-Nov-18	09:05	183.00	196.00	132.00	85.00	60.00	58.00	185.00
HCl [Normality]	26-Nov-18	09:37	28-Nov-18	09:05	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	26-Nov-18	09:37	28-Nov-18	09:05	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	26-Nov-18	09:37	28-Nov-18	09:05	72.69	95.41	42.43	50.57	31.97	29.70	78.17
Final pH	26-Nov-18	09:37	28-Nov-18	09:05	1.65	1.51	1.87	1.55	1.50	1.50	1.64
NP [t CaCO3/1000 t]	26-Nov-18	09:37	28-Nov-18	09:05	272	252	222	86	69	72	268
AP [t CaCO3/1000 t]	---	---	---	---	9.38	12.8	15.3	42.5	5.62	4.69	12.2
Net NP [t CaCO3/1000 t]	---	---	---	---	262	239	206	43.1	63.8	66.8	256
NP/AP [ratio]	---	---	---	---	29.0	19.6	14.5	2.01	12.3	15.3	22.0
Sulphur (total) [%]	23-Nov-18	15:20	04-Dec-18	13:51	0.382	0.523	0.592	1.63	0.233	0.255	0.471
Acid Leachable SO4-S [%]	---	---	---	---	0.08	0.11	0.10	0.27	0.05	0.10	0.08
Sulphide [%]	04-Dec-18	12:52	04-Dec-18	13:51	0.30	0.41	0.49	1.36	0.18	0.15	0.39
Carbon (total) [%]	23-Nov-18	15:20	29-Nov-18	08:56	4.13	3.98	3.37	1.50	1.12	0.939	4.16
Carbonate [%]	28-Nov-18	13:11	29-Nov-18	08:56	18.1	17.4	14.1	4.51	4.05	2.39	18.8



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ABA - Modified Sobek

Project : PO # 664693

LR Report : CA15204-NOV18

. *NP (Neutralization Potential)
= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur $\times$ 31.25

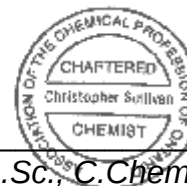
*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.

Chris Sullivan



Chris Sullivan, B.Sc., C.Chem
Project Specialist
Environmental Services, Analytical

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ABA - Modified Sobek

Project : PO#OL-664693

15-January-2019

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Date Rec. : 27 December 2018
LR Report: CA15390-DEC18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: SP2-TH3	6: SP2-TH4	7: SP2-TH7	8: SP2-TH8	9: SP2-TH9	10: SP2-TH10
Sample Date & Time					14-Dec-18	14-Dec-18	14-Dec-18	14-Dec-18	14-Dec-18	14-Dec-18
Paste pH	08-Jan-19	09:22	09-Jan-19	17:24	8.97	9.08	9.00	8.94	8.96	8.85
Fizz Rate [---]	08-Jan-19	09:22	09-Jan-19	17:24	3	3	3	3	3	3
Sample weight [g]	08-Jan-19	09:22	09-Jan-19	17:24	1.99	2.00	2.02	2.01	1.97	1.94
HCl Added [mL]	08-Jan-19	09:22	09-Jan-19	17:24	33.00	28.00	42.00	35.00	31.00	41.00
HCl [Normality]	08-Jan-19	09:22	09-Jan-19	17:24	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	08-Jan-19	09:22	09-Jan-19	17:24	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	08-Jan-19	09:22	09-Jan-19	17:24	15.48	14.14	21.42	17.63	13.99	19.76
Final pH	08-Jan-19	09:22	09-Jan-19	17:24	1.86	1.57	1.60	1.62	1.90	1.57
NP [t CaCO3/1000 t]	08-Jan-19	09:22	09-Jan-19	17:24	44	35	51	43	43	55
AP [t CaCO3/1000 t]	15-Jan-19	12:02	15-Jan-19	12:03	2.81	3.75	2.50	5.94	5.00	8.12
Net NP [t CaCO3/1000 t]	15-Jan-19	12:02	15-Jan-19	12:03	41.2	30.8	48.4	37.3	38.2	46.7
NP/AP [ratio]	15-Jan-19	12:02	15-Jan-19	12:03	15.6	9.23	20.4	7.28	8.64	6.74
Sulphur (total) [%]	08-Jan-19	13:45	11-Jan-19	10:41	0.155	0.241	0.173	0.216	0.218	0.390
Acid Leachable SO4-S [%]	09-Jan-19	16:31	11-Jan-19	10:41	0.06	0.12	0.09	0.03	0.06	0.13
Sulphide [%]	09-Jan-19	15:53	11-Jan-19	10:41	0.09	0.12	0.08	0.19	0.16	0.26
Carbon (total) [%]	08-Jan-19	13:45	09-Jan-19	16:29	0.611	0.450	0.764	0.621	0.623	0.748
Carbonate [%]	09-Jan-19	15:49	09-Jan-19	16:29	2.02	1.65	2.82	2.25	2.14	2.52

Chris Sullivan

Chris Sullivan, B.Sc., C.Chem
Project Specialist
Environmental Services, Analytical





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ABA - Modified Sobek

Project : PO#OL-664693

LR Report : CA15390-DEC18

*NP (Neutralization Potential)

$$= \frac{50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.

APPENDIX B: WASTE ROCK COMPOSITION DATA



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21-March-2019

Date Rec. : 17 April 2018
LR Report: CA15300-APR18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLML106915- DP100-58 MV	6: CAMLML106916- DP300-150 LJ	7: CAMLML106917- DP300-150 LJ	8: CAMLML106918- PF300W MV	9: CAMLML106919 -FW375E MV	10: CAMLML10620- FW400E MV
Sample Date & Time					09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18
Silver [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	0.11	0.059	0.033	0.14	0.11	0.12
Aluminum [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	72000	88000	7000	64000	67000	60000
Arsenic [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	32	4.1	21	61	7.8	25
Barium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	41	930	22	31	31	36
Beryllium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	0.31	1.4	0.43	0.24	0.36	0.26
Bismuth [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	83000	19000	28000	83000	110000	82000
Cadmium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	0.14	0.045	0.060	0.16	0.13	0.16
Cobalt [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	57	8.5	3.0	46	46	49
Chromium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	150	25	21	140	150	110
Copper [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	85	7.7	11	130	130	140
Iron [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	70000	65000	330000	74000	80000	87000
Potassium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	3200	29000	510	4400	2700	3500
Lithium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	69	30	< 2	29	67	47
Magnesium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	24000	8500	6900	23000	26000	22000
Manganese [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	1600	220	670	1900	2100	2100
Molybdenum [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	23	16	12	5.3	4.9	4.3
Sodium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	21000	19000	220	30000	13000	14000



SGS Canada Inc.

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LR Report :

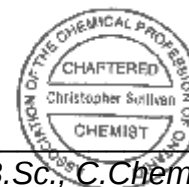
CA15300-APR18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106915- DP100-58 MV	6: CAMLM106916- DP300-150 LJ	7: CAMLM106917- DP300-150 LJ	8: CAMLM106918- PF300W MV	9: CAMLM106919 -FW375E MV	10: CAMLM10620- FW400E MV
Nickel [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	140	24	7.8	140	130	120
Phosphorus [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	280	420	850	210	270	220
Lead [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	6.8	5.0	5.3	17	4.5	3.5
Antimony [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	< 0.8	< 0.8	< 0.8	< 0.8	1.1	< 0.8
Selenium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	1.1
Tin [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	160	280	290	100	170	110
Titanium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	4000	2500	320	3900	4000	4200
Thallium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	0.13	0.41	0.025	0.15	0.10	0.12
Uranium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	0.097	1.2	0.16	0.058	0.082	0.12
Vanadium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	280	59	12	260	270	260
Yttrium [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	7.1	7.2	4.6	6.6	18	14
Zinc [µg/g]	19-Apr-18	08:51	19-Apr-18	15:39	99	50	27	89	130	120

Analysis	11: CAMLM106921-L evel 400 MV	12: CAMLM106922- DP-325-156-KS C	13: CAMLM106923 -FW325W KSC	14: CAMLM106924 -FW325E MV	15: CAMLM106925 -FW175E MV	16: CAMLM106926 -FW175W MV
Sample Date & Time	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18	09-Apr-18
Silver [µg/g]	0.084	0.13	0.15	0.19	0.085	0.070
Aluminum [µg/g]	63000	100000	160000	61000	68000	64000
Arsenic [µg/g]	16	1300	98	9.6	41	2.8
Barium [µg/g]	85	1100	1000	310	2.7	19
Beryllium [µg/g]	0.32	1.5	1.6	0.37	0.22	0.32
Bismuth [µg/g]	< 0.09	0.18	0.23	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	96000	15000	14000	94000	77000	71000
Cadmium [µg/g]	0.081	0.19	0.11	0.13	0.11	0.11
Cobalt [µg/g]	53	26	26	47	57	53
Chromium [µg/g]	130	96	120	130	140	130
Copper [µg/g]	130	29	35	160	180	110
Iron [µg/g]	75000	61000	68000	64000	100000	93000
Potassium [µg/g]	7200	31000	35000	6500	190	1200

Analysis	11: CAML106921-L evel 400 MV	12: CAML106922- DP-325-156-KS C	13: CAML106923 -FW325W KSC	14: CAML106924 -FW325E MV	15: CAML106925 -FW175E MV	16: CAML106926 -FW175W MV
Lithium [µg/g]	40	27	40	52	33	80
Magnesium [µg/g]	19000	18000	21000	21000	53000	41000
Manganese [µg/g]	2200	400	340	1800	1600	1400
Molybdenum [µg/g]	4.0	4.4	4.5	3.1	2.9	2.8
Sodium [µg/g]	19000	19000	14000	18000	7100	14000
Nickel [µg/g]	140	85	110	110	180	150
Phosphorus [µg/g]	190	530	670	230	220	200
Lead [µg/g]	3.1	21	11	11	3.6	2.7
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	2.6	< 0.8
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	88	250	300	240	200	130
Titanium [µg/g]	4100	4300	4300	2700	4400	1700
Thallium [µg/g]	0.28	0.61	0.69	0.14	< 0.02	0.037
Uranium [µg/g]	0.071	1.8	2.3	0.099	0.048	0.044
Vanadium [µg/g]	280	160	160	230	260	260
Yttrium [µg/g]	14	11	17	16	16	15
Zinc [µg/g]	90	120	93	78	100	90

Chris Sullivan



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Project Specialist,
Environment, Health & Safety

**SGS Canada Inc.**

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 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#OL-664693**01-August-2018****Agnico Eagle Mines Limited****Attn : Meliadine Coordinator**

Date Rec. : 04 July 2018
LR Report: CA12123-JUL18

Baker Lake
 , Nunavut
 X0C 0A0,

Copy: #1

Phone: (819) 759-3555 x3928
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106927- DP425 127-MV	6: CAMLM106928- DP425 128-MV	7: CAMLM106929- DP425 127-MV
Sample Date & Time					29-Jun-18	29-Jun-18	29-Jun-18
Silver [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	0.089	0.076	0.054
Aluminum [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	66000	64000	82000
Arsenic [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	11	14	24
Barium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	40	25	34
Beryllium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	0.30	0.37	0.37
Bismuth [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	< 0.09	0.091	< 0.09
Calcium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	83000	88000	96000
Cadmium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	0.098	0.13	0.14
Cobalt [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	50	44	57
Chromium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	150	100	140
Copper [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	120	76	120
Iron [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	77000	76000	94000
Potassium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	1100	2400	1200
Lithium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	60	56	67
Magnesium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	25000	23000	33000
Manganese [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	1800	2100	2500
Molybdenum [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	0.75	0.74	0.37
Sodium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	15000	16000	16000
Nickel [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	160	110	150
Phosphorus [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	250	270	340
Lead [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	3.3	4.0	4.5
Antimony [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	1.5	0.87	1.4
Selenium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	1.2	< 0.7	< 0.7
Tin [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	< 6	< 6	< 6
Strontium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	190	170	200
Titanium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	3500	4300	4100
Thallium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	0.020	0.065	0.025
Uranium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	0.075	0.12	0.11

SGS Canada Inc.

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Project : PO#OL-664693

LR Report : CA12123-JUL18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML106927- DP425 127-MV	6: CAML106928- DP425 128-MV	7: CAML106929- DP425 127-MV
Vanadium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	250	270	330
Yttrium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	17	18	24
Zinc [µg/g]	01-Aug-18	11:22	01-Aug-18	16:05	100	120	140

Analysis	8: CAML106930- DP425 127-MV	9: CAML106931- DP425 127-Lj	10: CAML106932- DP325-155 KSc	11: CAML106933- DP425-127 Lj	12: CAML106934- DP325-155 KSc	13: CAML106935-F W400E MV	14: CAML106936- DP325-155 KSc
Sample Date & Time	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18	29-Jun-18
Silver [µg/g]	0.043	0.058	0.17	0.079	0.046	0.093	0.053
Aluminum [µg/g]	37000	53000	73000	61000	80000	66000	39000
Arsenic [µg/g]	9.1	80	1000	18	720	4.4	83
Barium [µg/g]	410	24	1100	97	2200	56	40
Beryllium [µg/g]	0.83	0.42	1.5	0.51	2.5	0.33	0.44
Bismuth [µg/g]	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.12
Calcium [µg/g]	20000	25000	13000	88000	18000	70000	23000
Cadmium [µg/g]	0.059	0.073	0.11	0.15	0.091	0.12	0.061
Cobalt [µg/g]	6.2	11	8.1	48	8.0	59	8.4
Chromium [µg/g]	38	46	35	100	26	130	46
Copper [µg/g]	8.5	21	11	110	4.5	150	38
Iron [µg/g]	180000	170000	68000	75000	70000	85000	190000
Potassium [µg/g]	11000	540	13000	5800	25000	5300	1600
Lithium [µg/g]	15	29	25	59	34	80	14
Magnesium [µg/g]	5400	11000	7000	26000	8500	40000	10000
Manganese [µg/g]	270	420	240	1900	240	1400	450
Molybdenum [µg/g]	2.3	1.6	2.1	0.30	2.9	0.16	3.3
Sodium [µg/g]	3000	11000	30000	8200	16000	5400	18000
Nickel [µg/g]	14	31	18	110	16	160	23
Phosphorus [µg/g]	620	700	380	240	370	190	840
Lead [µg/g]	5.6	7.3	16	3.7	13	4.6	6.2
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	250	400	370	140	330	190	280
Titanium [µg/g]	1200	2000	1900	4200	2000	1100	1400
Thallium [µg/g]	0.18	< 0.02	0.37	0.18	0.58	0.24	0.027
Uranium [µg/g]	0.71	1.0	0.96	0.086	1.5	0.052	1.4
Vanadium [µg/g]	32	56	43	260	46	260	39
Yttrium [µg/g]	5.2	6.7	4.6	17	5.8	10	6.4
Zinc [µg/g]	34	72	75	120	71	93	65

SGS Canada Inc.

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Project : PO#OL-664693

LR Report : CA12123-JUL18

Analysis	15:	16:
	CAML106937- CAMLM106938- DP325-155 KSc DP325-155 KSc	
Sample Date & Time	29-Jun-18	29-Jun-18
Silver [µg/g]	0.045	0.072
Aluminum [µg/g]	54000	76000
Arsenic [µg/g]	170	730
Barium [µg/g]	300	560
Beryllium [µg/g]	0.83	1.0
Bismuth [µg/g]	< 0.09	0.11
Calcium [µg/g]	23000	22000
Cadmium [µg/g]	0.064	0.081
Cobalt [µg/g]	9.0	10
Chromium [µg/g]	33	25
Copper [µg/g]	16	23
Iron [µg/g]	110000	34000
Potassium [µg/g]	9000	17000
Lithium [µg/g]	12	13
Magnesium [µg/g]	7300	7500
Manganese [µg/g]	360	280
Molybdenum [µg/g]	1.8	0.98
Sodium [µg/g]	25000	35000
Nickel [µg/g]	18	20
Phosphorus [µg/g]	530	360
Lead [µg/g]	9.7	12
Antimony [µg/g]	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	< 0.7
Tin [µg/g]	< 6	< 6
Strontium [µg/g]	280	310
Titanium [µg/g]	1700	2200
Thallium [µg/g]	0.17	0.35
Uranium [µg/g]	0.97	1.3
Vanadium [µg/g]	40	47
Yttrium [µg/g]	4.7	4.8
Zinc [µg/g]	49	58

Chris Sullivan

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Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

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Project : PO#OL-664693

05-October-2018

Date Rec. : 18 September 2018

LR Report: CA14444-SEP18

Reference: PO#OL-664693

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106954- RP3-375-400-W-PL1-375-W-W-M MV	6: CAMLM106955- VA1-425-C-W- V	7: CAMLM106956 -VA1-425-C-W- MV	8: CAMLM106957 -VA1-425-C-W- MV	9: CAMLM106958- DP-225-151-W- MV	10: CAMLM106959- FW-175-W-MV	11: CAMLM106960 -FW1-125-W-W- MV
Silver [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	66000	61000	57000	55000	63000	54000	56000
Arsenic [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	180	11	60	64	180	150	74
Barium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	380	79	220	200	340	210	240
Beryllium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	1.2	0.33	0.58	0.52	0.85	0.57	0.60
Bismuth [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.092
Calcium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	51000	72000	69000	69000	55000	63000	47000
Cadmium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	0.25	0.11	0.15	0.14	0.17	0.17	0.12
Cobalt [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	61	46	43	43	42	33	32
Chromium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	84	240	330	290	120	120	120
Copper [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	160	140	130	140	100	81	56
Iron [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	120000	85000	69000	66000	91000	100000	74000
Potassium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	11000	1600	12000	11000	10000	7200	7700
Lithium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	29	44	40	40	39	33	37
Magnesium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	26000	37000	40000	39000	21000	21000	20000
Manganese [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	1500	1500	1200	1200	1300	1200	1100
Molybdenum [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	2.0	0.49	0.42	0.30	1.3	1.2	0.99
Sodium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	18000	16000	9800	9600	16000	12000	17000



SGS Canada Inc.

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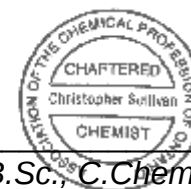
Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#OL-664693

LR Report : CA14444-SEP18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106954- RP3-375-400-W-PL1- MV	6: CAMLM106955- 375-W-W-M-V V	7: CAMLM106956 -VA1-425-C-W- MV	8: CAMLM106957 -VA1-425-C-W- MV	9: CAMLM106958- DP-225-151-W- MV	10: CAMLM106959- FW-175-W-MV MV	11: CAMLM106960 -FW1-125-W-W- MV
Nickel [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	99	99	120	110	89	84	76
Phosphorus [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	1000	240	140	130	540	430	400
Lead [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	11	3.1	6.2	5.9	12	17	11
Antimony [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	1.1	0.81	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	260	120	160	150	220	310	190
Titanium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	10000	4500	2200	1900	5000	2600	2600
Thallium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	0.37	0.047	0.41	0.37	0.28	0.20	0.20
Uranium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	1.5	0.19	0.060	0.042	0.58	0.39	0.59
Vanadium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	210	270	190	200	190	160	150
Yttrium [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	28	16	4.4	2.9	16	9.5	9.3
Zinc [µg/g]	05-Oct-18	10:15	05-Oct-18	14:19	150	90	74	70	94	83	81

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Project : PO # 664693

11-December-2018

Date Rec. : 12 November 2018

LR Report: CA15205-NOV18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106968- DP1-175-158-M V	6: CAMLM106968- DP1-175-158-M V DUP	7: CAMLM106970- RP3-375-400-M V	8: CAMLM106971- FW2-375-E-KS-FW2-435-W-IF/ C	9: CAMLM106972 SED	10: CAMLM106973- ED	11: CAMLM106974 -FW1-150-W-M V
Silver [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	< 1	1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	59000	57000	66000	41000	45000	68000	61000
Arsenic [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	80	69	90	6000	36	230	5200
Barium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	75	75	140	310	210	550	190
Beryllium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	0.37	0.34	0.43	0.83	1.0	1.2	0.55
Bismuth [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	< 0.09	< 0.09	< 0.09	0.45	0.12	0.14	< 0.09
Calcium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	100000	98000	81000	29000	27000	26000	83000
Cadmium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	0.16	0.19	0.21	0.12	0.083	0.12	0.19
Cobalt [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	50	49	44	6.6	5.7	9.2	47
Chromium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	130	120	140	63	54	50	140
Copper [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	130	140	110	67	13	25	120
Iron [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	75000	75000	79000	130000	140000	61000	75000
Potassium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	5400	5800	9000	11000	2800	13000	11000
Lithium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	53	50	52	19	15	21	25
Magnesium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	23000	22000	22000	7900	6100	7400	26000
Manganese [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	2100	2100	2800	410	340	330	1800
Molybdenum [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	0.58	0.96	0.41	4.8	5.4	1.9	0.41
Sodium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	10000	8600	9700	6200	20000	28000	19000



SGS Canada Inc.

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Project : PO # 664693

LR Report : CA15205-NOV18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106968- DP1-175-158-M V	6: CAMLM106968- DP1-175-158-M V DUP	7: CAMLM106970- RP3-375-400-M V	8: CAMLM106971 -FW2-375-E-KS C	9: CAMLM106972 CAMLM106973- FW2-435-W-IF/ SED	10: CAMLM106973- FW2425-129-S ED	11: CAMLM106974 -FW1-150-W-M V
Nickel [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	100	95	120	19	14	21	140
Phosphorus [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	230	200	300	1100	530	460	200
Lead [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	7.7	7.5	11	71	87	16	11
Antimony [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	1.2	< 0.8	1.2	1.8	< 0.8	< 0.8	1.5
Selenium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	< 0.7	< 0.7	< 0.7	0.80	< 0.7	< 0.7	< 0.7
Tin [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	130	120	110	370	540	470	150
Titanium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	3600	3500	4600	1400	1400	2100	3400
Thallium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	0.17	0.16	0.26	0.32	0.072	0.27	0.36
Uranium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	0.11	0.14	0.098	0.94	0.83	0.91	0.16
Vanadium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	230	220	250	42	37	46	240
Yttrium [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	11	11	6.6	7.0	5.0	5.8	6.8
Zinc [µg/g]	05-Dec-18	13:00	06-Dec-18	09:04	97	98	100	57	36	53	70

Chris Sullivan



Chris Sullivan, B.Sc., C.Chem
Project Specialist
Environmental Services, Analytical



SGS Canada Inc.

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Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Baker Lake,

Canada, X0C 0A0

Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

08-January-2019

Date Rec. : 07 December 2018

LR Report: CA14167-DEC18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML10675-RP 3-375-400-MV	6: CAML106976-F W1-275-W-SED	7: CAML106977-R P1-425-450-MV	8: CAML106978-FW -1-325-E-MV	9: CAML106979-F W1-175-W-MV	10: CAML106980-F W1-150-W-MV	11: CAML106981-F W1-150-W-MV
Silver [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	61000	64000	63000	61000	63000	65000	62000
Arsenic [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	130	56	15	5.9	10	37	37
Barium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	140	360	41	44	39	18	21
Beryllium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	0.35	0.91	0.27	0.28	0.31	0.23	0.21
Bismuth [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	< 0.09	0.16	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	86000	45000	86000	73000	73000	78000	78000
Cadmium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	0.15	0.52	0.099	0.11	0.087	0.078	0.091
Cobalt [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	46	18	54	50	50	52	51
Chromium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	110	87	110	120	110	140	130
Copper [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	97	48	95	97	170	110	110
Iron [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	72000	39000	80000	83000	84000	87000	83000
Potassium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	6400	18000	1900	2000	2700	940	1100
Lithium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	35	22	45	63	63	58	52
Magnesium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	21000	10000	34000	38000	32000	38000	35000
Manganese [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	2100	610	2000	1500	1700	1700	1700
Molybdenum [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	0.41	1.0	0.17	0.17	0.10	0.18	0.12
Sodium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	14000	9200	15000	13000	11000	17000	17000
Nickel [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	120	66	130	140	110	140	140
Phosphorus [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	200	550	200	180	220	170	170
Lead [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	7.1	12	10	3.0	3.0	2.2	2.7
Antimony [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8



SGS Canada Inc.

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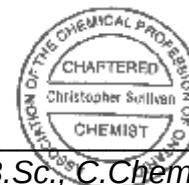
Phone: 705-652-2000 FAX: 705-652-6365

LR Report :

CA14167-DEC18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM10675-RP 3-375-400-MV	6: CAMLM106976-F W1-275-W-SED	7: CAMLM106977-R P1-425-450-MV	8: CAMLM106978-FWC -1-325-E-MV	9: CAMLM106979-FC W1-175-W-MV	10: CAMLM106980-FC W1-150-W-MV	11: CAMLM106981-F W1-150-W-MV
Selenium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	160	250	140	110	91	110	100
Titanium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	4800	1500	3900	3300	4300	4300	4200
Thallium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	0.22	0.69	0.068	0.090	0.16	0.030	0.044
Uranium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	0.082	1.2	0.066	0.070	0.10	0.038	0.040
Vanadium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	250	90	240	240	260	260	250
Yttrium [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	9.2	9.4	14	8.8	14	8.0	8.5
Zinc [µg/g]	02-Jan-19	21:11	03-Jan-19	13:25	87	130	85	89	100	89	85

Chris Sullivan



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11-January-2019

Date Rec. : 27 December 2018

LR Report: CA15391-DEC18

Reference: PO#OL-664693

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: SP2-TH3	6: SP2-TH4	7: SP2-TH7	8: SP2-TH8	9: SP2-TH9	10: SP2-TH10
Sample Date & Time					14-Dec-18	14-Dec-18	14-Dec-18	14-Dec-18	14-Dec-18	14-Dec-18
Silver [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	< 1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	80000	78000	76000	84000	77000	72000
Arsenic [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	68	21	140	140	100	62
Barium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	720	710	500	560	480	530
Beryllium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	1.0	1.0	1.0	1.1	1.0	0.92
Bismuth [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	0.25	0.33	0.34	0.35	0.35	0.39
Calcium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	13000	14000	13000	13000	13000	19000
Cadmium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	0.13	0.13	0.11	0.12	0.15	0.20
Cobalt [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	20	21	24	26	20	20
Chromium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	76	88	82	85	80	78
Copper [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	42	53	49	52	46	49
Iron [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	38000	36000	40000	44000	37000	35000
Potassium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	17000	16000	18000	20000	17000	13000
Lithium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	34	34	30	37	30	28
Magnesium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	14000	13000	14000	16000	13000	11000
Manganese [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	380	360	370	420	380	400

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: SP2-TH3	6: SP2-TH4	7: SP2-TH7	8: SP2-TH8	9: SP2-TH9	10: SP2-TH10
Molybdenum [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	2.4	2.9	2.5	2.9	2.4	1.8
Sodium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	22000	25000	23000	21000	24000	26000
Nickel [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	66	64	69	76	65	55
Phosphorus [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	440	470	490	500	440	440
Lead [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	12	12	11	12	13	14
Antimony [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	390	370	310	320	340	410
Titanium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	950	1300	2200	1400	1300	850
Thallium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	0.40	0.34	0.40	0.41	0.36	0.30
Uranium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	1.5	1.5	1.5	1.7	1.6	1.9
Vanadium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	96	89	100	110	93	78
Yttrium [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	7.1	8.9	6.8	8.0	7.1	8.6
Zinc [µg/g]	09-Jan-19	13:24	10-Jan-19	10:15	78	79	76	82	79	77



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APPENDIX C: QUARRY ACID-BASE ACCOUTNING DATA

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ABA - Modified Sobek

Project : PO#OL-664693

14-July-2018

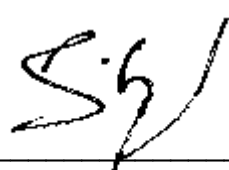
Date Rec. : 27 June 2018
LR Report: CA12927-JUN18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	3: Analysis Completed Date	4: Analysis Completed Time	5: Itivia Quarry_262	6: Itivia Quarry_204
Sample Date & Time			18-Jun-18	18-Jun-18
Paste pH	09-Jul-18	09:37	9.71	9.30
Fizz Rate [---]	09-Jul-18	09:37	3	3
Sample weight [g]	09-Jul-18	09:37	1.96	1.97
HCl Added [mL]	09-Jul-18	09:37	20.00	20.00
HCl [Normality]	09-Jul-18	09:37	0.10	0.10
NaOH [Normality]	09-Jul-18	09:37	0.10	0.10
NaOH to [pH=8.3 mL]	09-Jul-18	09:37	15.54	10.98
Final pH	09-Jul-18	09:37	1.36	1.72
NP [t CaCO3/1000 t]	09-Jul-18	09:37	11	23
AP [t CaCO3/1000 t]	---	---	1.56	0.62
Net NP [t CaCO3/1000 t]	---	---	9.84	22.3
NP/AP [ratio]	---	---	7.30	36.6
Sulphur (total) [%]	09-Jul-18	09:37	0.081	0.043
Acid Leachable SO4-S [%]	---	---	0.03	0.02
Sulphide [%]	09-Jul-18	09:37	0.05	0.02
Carbon (total) [%]	09-Jul-18	09:37	0.168	0.414
Carbonate [%]	05-Jul-18	13:10	0.380	1.15



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ABA - Modified Sobek**Project : PO#OL-664693****Agnico Eagle Mines Limited****Attn : Meliadine Coordinator**

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05-July-2018

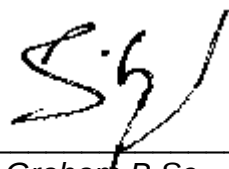
Date Rec. : 20 June 2018
LR Report: CA15404-JUN18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Itivia Quarry_1057	6: Itivia Quarry_10 025
Sample Date & Time					12-Jun-18	12-Jun-18
Paste pH	28-Jun-18	09:05	29-Jun-18	14:20	9.19	9.56
Fizz Rate [---]	28-Jun-18	09:05	29-Jun-18	14:20	2	2
Sample weight [g]	28-Jun-18	09:05	29-Jun-18	14:20	1.98	2.02
HCl Added [mL]	28-Jun-18	09:05	29-Jun-18	14:20	20.00	20.00
HCl [Normality]	28-Jun-18	09:05	29-Jun-18	14:20	0.10	0.10
NaOH [Normality]	28-Jun-18	09:05	29-Jun-18	14:20	0.10	0.10
NaOH to pH=8.3 [mL]	28-Jun-18	09:05	29-Jun-18	14:20	9.11	11.25
Final pH	28-Jun-18	09:05	29-Jun-18	14:20	1.58	1.42
NP [t CaCO3/1000 t]	28-Jun-18	09:05	29-Jun-18	14:20	28	22
AP [t CaCO3/1000 t]	---	---	29-Jun-18	14:20	0.94	0.62
Net NP [t CaCO3/1000 t]	---	---	29-Jun-18	14:20	26.6	21.1
NP/AP [ratio]	---	---	29-Jun-18	14:20	29.3	34.7
Sulphur (total) [%]	28-Jun-18	11:48	29-Jun-18	14:20	0.039	0.046
Acid Leachable SO4-S [%]	---	---	29-Jun-18	14:20	< 0.02	0.03
Sulphide [%]	29-Jun-18	13:52	29-Jun-18	14:20	0.03	0.02
Carbon (total) [%]	28-Jun-18	11:48	29-Jun-18	14:20	0.525	0.276
Carbonate [%]	29-Jun-18	11:31	29-Jun-18	13:15	1.38	0.919



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25-July-2018

Agnico Eagle Mines Limited

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Date Rec. : 09 July 2018
LR Report: CA15089-JUL18
Reference: PO#OL-664693

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Blast3_2018
Sample Date & Time					23-Jun-18
Paste pH	19-Jul-18	08:52	23-Jul-18	11:05	9.73
Fizz Rate [---]	19-Jul-18	08:52	23-Jul-18	11:05	4
Sample weight [g]	19-Jul-18	08:52	23-Jul-18	11:05	2.00
HCl Added [mL]	19-Jul-18	08:52	23-Jul-18	11:05	40.00
HCl [Normality]	19-Jul-18	08:52	23-Jul-18	11:05	0.10
NaOH [Normality]	19-Jul-18	08:52	23-Jul-18	11:05	0.10
NaOH to pH=8.3 [mL]	19-Jul-18	08:52	23-Jul-18	11:05	22.44
Final pH	19-Jul-18	08:52	23-Jul-18	11:05	1.52
NP [t CaCO3/1000 t]	19-Jul-18	08:52	23-Jul-18	11:05	44
AP [t CaCO3/1000 t]	---	---	---	---	0.62
Net NP [t CaCO3/1000 t]	---	---	---	---	43.3
NP/AP [ratio]	---	---	---	---	70.2
Sulphur (total) [%]	19-Jul-18	12:53	19-Jul-18	14:07	0.041
Acid Leachable SO4-S [%]	---	---	---	---	0.02
Sulphide [%]	20-Jul-18	14:10	20-Jul-18	14:40	0.02
Carbon (total) [%]	19-Jul-18	12:53	19-Jul-18	14:07	0.518
Carbonate [%]	20-Jul-18	11:00	23-Jul-18	11:05	1.59

*NP (Neutralization Potential)
= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur x 31.25
*Net NP (Net Neutralization Potential) = NP-AP
NP/AP Ratio = NP/AP
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.

SGS Canada Inc.

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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15089-JUL18


Rob Irwin B.Sc., C.Chem
Technical Manager, Spectroscopy
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**SGS Canada Inc.**

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ABA - Modified Sobek**Project : PO#OL-664693****03-August-2018****Agnico Eagle Mines Limited****Attn : Meliadine Coordinator**

Baker Lake
 , Nunavut
 X0C 0A0,

Date Rec. : 18 July 2018
LR Report: CA15289-JUL18
Reference: PO#OL-664693

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Mel NN-001	6: Mel NN-002	7: Mel NN-003
Sample Date & Time					05-Jul-18	05-Jul-18	05-Jul-18
Paste pH	30-Jul-18	08:55	01-Aug-18	13:00	6.94	7.84	6.73
Fizz Rate [---]	30-Jul-18	08:55	01-Aug-18	13:00	1	1	1
Sample weight [g]	30-Jul-18	08:55	01-Aug-18	13:00	2.05	2.05	2.04
HCl_add [mL]	30-Jul-18	08:55	01-Aug-18	13:00	20.00	20.00	20.00
HCl [Normality]	30-Jul-18	08:55	01-Aug-18	13:00	0.10	0.10	0.10
NaOH [Normality]	30-Jul-18	08:55	01-Aug-18	13:00	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30-Jul-18	08:55	01-Aug-18	13:00	15.36	18.08	18.38
Final pH	30-Jul-18	08:55	01-Aug-18	13:00	1.35	1.16	1.24
NP [t CaCO3/1000 t]	30-Jul-18	08:55	01-Aug-18	13:00	11	4.7	4.0
AP [t CaCO3/1000 t]	---	---	---	---	0.62	0.62	0.62
Net NP [t CaCO3/1000 t]	---	---	---	---	10.7	4.08	3.38
NP/AP [ratio]	---	---	---	---	18.2	7.58	6.45
S [%]	30-Jul-18	11:41	03-Aug-18	09:42	0.007	0.006	0.012
Acid Leachable SO4-S [%]	---	---	---	---	< 0.02	< 0.02	< 0.02
Sulphide [%]	02-Aug-18	15:15	03-Aug-18	09:42	< 0.02	< 0.02	< 0.02
C [%]	30-Jul-18	11:41	03-Aug-18	09:42	1.03	0.128	0.740
CO3 [%]	02-Aug-18	13:57	03-Aug-18	09:42	0.470	0.035	0.075

Analysis	8: Mel NN-004	9: Mel NN-005	10: Mel NN-006	11: Mel NN-007	12: Mel NN-008	13: Mel NN-009	14: Mel NN-010
Sample Date & Time	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18
Paste pH	8.04	6.74	8.02	7.06	5.56	6.75	7.35
Fizz Rate [---]	1	1	1	1	1	1	1
Sample weight [g]	2.03	1.97	2.05	2.04	2.00	2.02	1.97
HCl_add [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10

Analysis	8: Mel NN-004	9: Mel NN-005	10: Mel NN-006	11: Mel NN-007	12: Mel NN-008	13: Mel NN-009	14: Mel NN-010
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16.89	18.41	16.48	17.88	19.19	18.64	17.20
Final pH	1.36	1.23	1.33	1.19	1.21	1.21	1.26
NP [t CaCO3/1000 t]	7.7	4.0	8.6	5.2	2.0	3.4	7.1
AP [t CaCO3/1000 t]	0.62	0.62	0.62	0.62	0.62	0.62	0.62
Net NP [t CaCO3/1000 t]	7.08	3.38	7.98	4.58	1.38	2.78	6.48
NP/AP [ratio]	12.4	6.45	13.9	8.39	3.23	5.48	11.5
S [%]	0.014	0.008	0.012	0.016	0.010	0.010	0.011
Acid Leachable SO4-S [%]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide [%]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
C [%]	0.117	0.918	0.240	0.559	2.17	0.648	0.434
CO3 [%]	0.110	0.040	0.185	0.075	0.060	0.070	0.195

Analysis	15: Mel NN-011	16: Mel NN-012	17: Mel NN-013	18: Mel NN-014
Sample Date & Time	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18
Paste pH	6.07	6.03	6.53	7.81
Fizz Rate [---]	1	1	1	1
Sample weight [g]	2.01	1.98	2.01	2.04
HCl_add [mL]	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	18.86	18.52	16.43	17.62
Final pH	1.18	1.20	1.22	1.29
NP [t CaCO3/1000 t]	2.8	3.7	8.9	5.8
AP [t CaCO3/1000 t]	0.62	0.62	0.62	0.62
Net NP [t CaCO3/1000 t]	2.18	3.08	8.28	5.18
NP/AP [ratio]	4.52	5.97	14.4	9.35
S [%]	0.010	0.012	0.009	0.010
Acid Leachable SO4-S [%]	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide [%]	< 0.02	< 0.02	< 0.02	< 0.02
C [%]	1.07	1.89	1.06	0.241
CO3 [%]	0.040	0.075	0.100	0.040

*NP (Neutralization Potential)

= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.



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ABA - Modified Sobek

Project : PO#OL-664693

LR Report : CA15289-JUL18

Rob Irwin B.Sc., C.Chem
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ABA - Modified Sobek

Project : PO#OL-664693

03-August-2018

Date Rec. : 20 July 2018
 LR Report: CA15349-JUL18

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Site D S01-180614	6: Site D S02-180614	7: Site D S01-180615
Sample Date & Time					14-Jun-18	14-Jun-18	15-Jun-18
Paste pH	30-Jul-18	08:55	01-Aug-18	13:00	9.06	8.27	9.10
Fizz Rate [---]	30-Jul-18	08:55	01-Aug-18	13:00	1	1	1
Sample weight [g]	30-Jul-18	08:55	01-Aug-18	13:00	2.00	1.99	2.01
HCl_add [mL]	30-Jul-18	08:55	01-Aug-18	13:00	20.00	20.00	20.00
HCl [Normality]	30-Jul-18	08:55	01-Aug-18	13:00	0.10	0.10	0.10
NaOH [Normality]	30-Jul-18	08:55	01-Aug-18	13:00	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30-Jul-18	08:55	01-Aug-18	13:00	16.47	16.15	16.32
Final pH	30-Jul-18	08:55	01-Aug-18	13:00	1.36	1.25	1.27
NP [t CaCO3/1000 t]	30-Jul-18	08:55	01-Aug-18	13:00	8.8	9.7	9.2
AP [t CaCO3/1000 t]	---	---	---	---	0.94	0.62	1.25
Net NP [t CaCO3/1000 t]	---	---	---	---	7.86	9.08	7.95
NP/AP [ratio]	---	---	---	---	9.39	15.5	7.36
S [%]	30-Jul-18	11:41	03-Aug-18	09:42	0.067	0.026	0.059
Acid Leachable SO4-S [%]	---	---	---	---	0.04	< 0.02	< 0.02
Sulphide [%]	02-Aug-18	15:15	03-Aug-18	09:42	0.03	0.02	0.04
C [%]	30-Jul-18	11:41	03-Aug-18	09:42	0.062	0.086	0.069
CO3 [%]	02-Aug-18	13:57	03-Aug-18	09:42	0.060	0.285	0.135

Analysis	8: Site D S02-180615	9: 01 Site D Topping	10: 02 Site D Topping	11: Site D 30mm Road Topping-June 23 2018-01	12: Site D 30mm Road Topping-June 23 2018-02	13: Site D 2018-06-28-00 2	14: Site D 2018-06-29-00 1
Sample Date & Time	15-Jun-18	17-Jun-18	17-Jun-18	23-Jun-18	23-Jun-18	28-Jun-18	29-Jun-18
Paste pH	8.59	9.17	9.21	8.92	8.91	9.55	9.17
Fizz Rate [---]	1	1	1	1	1	1	1
Sample weight [g]	2.00	1.98	2.03	1.99	2.03	1.99	2.03
HCl_add [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13.91	16.48	15.25	14.30	15.87	15.77	13.60
Final pH	1.50	1.32	1.42	1.48	1.42	1.35	1.44
NP [t CaCO3/1000 t]	15	8.9	12	14	10	11	16
AP [t CaCO3/1000 t]	0.94	0.62	0.62	0.62	0.62	0.62	0.62
Net NP [t CaCO3/1000 t]	14.3	8.28	11.1	13.7	9.58	9.98	15.2
NP/AP [ratio]	16.2	14.4	18.9	23.1	16.5	17.0	25.3
S [%]	0.052	0.019	0.020	0.031	0.032	0.036	0.068
Acid Leachable SO4-S [%]	0.02	< 0.02	0.02	0.03	0.03	< 0.02	0.05
Sulphide [%]	0.03	< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.02
C [%]	0.158	0.065	0.102	0.141	0.077	0.055	0.113
CO3 [%]	0.490	0.140	0.300	0.450	0.150	0.150	0.480

Analysis	15: Site D 2018-07-07-01	16: Site D 2018-07-07-02	17: Site D 2018-07-11-01	18: Site D 2018-07-11-02
Sample Date & Time	07-Jul-18	07-Jul-18	11-Jul-18	11-Jul-18
Paste pH	9.16	9.00	9.00	8.94
Fizz Rate [---]	1	1	1	1
Sample weight [g]	2.04	1.99	1.96	2.01
HCl_add [mL]	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16.18	16.22	15.80	16.18
Final pH	1.35	1.38	1.33	1.32
NP [t CaCO3/1000 t]	9.4	9.5	11	9.5
AP [t CaCO3/1000 t]	0.62	0.62	1.25	0.62
Net NP [t CaCO3/1000 t]	8.78	8.88	9.45	8.88
NP/AP [ratio]	15.2	15.3	8.56	15.3

Analysis	15: Site D 2018-07-07-01	16: Site D 2018-07-07-02	17: Site D 2018-07-11-01	18: Site D 2018-07-11-02
S [%]	0.037	0.033	0.074	0.035
Acid Leachable SO ₄ -S [%]	0.04	0.03	0.03	0.04
Sulphide [%]	< 0.02	< 0.02	0.04	< 0.02
C [%]	0.067	0.064	0.112	0.074
CO ₃ [%]	0.170	0.125	0.255	0.115

*NP (Neutralization Potential)

$$= 50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.




Chris Sullivan, B.Sc., C.Chem
Project Specialist
Environmental Services, Analytical

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ABA - Modified Sobek

Project : PO#OL-664693

03-August-2018

Date Rec. : 20 July 2018
 LR Report: CA15349-JUL18

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Site D S01-180614	6: Site D S02-180614	7: Site D S01-180615
Sample Date & Time					14-Jun-18	14-Jun-18	15-Jun-18
Paste pH	30-Jul-18	08:55	01-Aug-18	13:00	9.06	8.27	9.10
Fizz Rate [---]	30-Jul-18	08:55	01-Aug-18	13:00	1	1	1
Sample weight [g]	30-Jul-18	08:55	01-Aug-18	13:00	2.00	1.99	2.01
HCl_add [mL]	30-Jul-18	08:55	01-Aug-18	13:00	20.00	20.00	20.00
HCl [Normality]	30-Jul-18	08:55	01-Aug-18	13:00	0.10	0.10	0.10
NaOH [Normality]	30-Jul-18	08:55	01-Aug-18	13:00	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30-Jul-18	08:55	01-Aug-18	13:00	16.47	16.15	16.32
Final pH	30-Jul-18	08:55	01-Aug-18	13:00	1.36	1.25	1.27
NP [t CaCO3/1000 t]	30-Jul-18	08:55	01-Aug-18	13:00	8.8	9.7	9.2
AP [t CaCO3/1000 t]	---	---	---	---	0.94	0.62	1.25
Net NP [t CaCO3/1000 t]	---	---	---	---	7.86	9.08	7.95
NP/AP [ratio]	---	---	---	---	9.39	15.5	7.36
S [%]	30-Jul-18	11:41	03-Aug-18	09:42	0.067	0.026	0.059
Acid Leachable SO4-S [%]	---	---	---	---	0.04	< 0.02	< 0.02
Sulphide [%]	02-Aug-18	15:15	03-Aug-18	09:42	0.03	0.02	0.04
C [%]	30-Jul-18	11:41	03-Aug-18	09:42	0.062	0.086	0.069
CO3 [%]	02-Aug-18	13:57	03-Aug-18	09:42	0.060	0.285	0.135

**SGS Canada Inc.**

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ABA - Modified Sobek**Project : PO#OL-664693****LR Report : CA15349-JUL18**

Analysis	8: Site D S02-180615	9: 01 Site D Topping	10: 02 Site D Topping	11: Site D 30mm Road Topping-June 23 2018-01	12: Site D 30mm Road Topping-June 23 2018-02	13: Site D 2018-06-28-00 2	14: Site D 2018-06-29-00 1
Sample Date & Time	15-Jun-18	17-Jun-18	17-Jun-18	23-Jun-18	23-Jun-18	28-Jun-18	29-Jun-18
Paste pH	8.59	9.17	9.21	8.92	8.91	9.55	9.17
Fizz Rate [---]	1	1	1	1	1	1	1
Sample weight [g]	2.00	1.98	2.03	1.99	2.03	1.99	2.03
HCl_add [mL]	20.00	20.00	20.00	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13.91	16.48	15.25	14.30	15.87	15.77	13.60
Final pH	1.50	1.32	1.42	1.48	1.42	1.35	1.44
NP [t CaCO3/1000 t]	15	8.9	12	14	10	11	16
AP [t CaCO3/1000 t]	0.94	0.62	0.62	0.62	0.62	0.62	0.62
Net NP [t CaCO3/1000 t]	14.3	8.28	11.1	13.7	9.58	9.98	15.2
NP/AP [ratio]	16.2	14.4	18.9	23.1	16.5	17.0	25.3
S [%]	0.052	0.019	0.020	0.031	0.032	0.036	0.068
Acid Leachable SO4-S [%]	0.02	< 0.02	0.02	0.03	0.03	< 0.02	0.05
Sulphide [%]	0.03	< 0.02	< 0.02	< 0.02	< 0.02	0.02	0.02
C [%]	0.158	0.065	0.102	0.141	0.077	0.055	0.113
CO3 [%]	0.490	0.140	0.300	0.450	0.150	0.150	0.480

Analysis	15: Site D 2018-07-07-01	16: Site D 2018-07-07-02	17: Site D 2018-07-11-01	18: Site D 2018-07-11-02
Sample Date & Time	07-Jul-18	07-Jul-18	11-Jul-18	11-Jul-18
Paste pH	9.16	9.00	9.00	8.94
Fizz Rate [---]	1	1	1	1
Sample weight [g]	2.04	1.99	1.96	2.01
HCl_add [mL]	20.00	20.00	20.00	20.00
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16.18	16.22	15.80	16.18
Final pH	1.35	1.38	1.33	1.32
NP [t CaCO3/1000 t]	9.4	9.5	11	9.5
AP [t CaCO3/1000 t]	0.62	0.62	1.25	0.62
Net NP [t CaCO3/1000 t]	8.78	8.88	9.45	8.88
NP/AP [ratio]	15.2	15.3	8.56	15.3

Analysis	15: Site D 2018-07-07-01	16: Site D 2018-07-07-02	17: Site D 2018-07-11-01	18: Site D 2018-07-11-02
S [%]	0.037	0.033	0.074	0.035
Acid Leachable SO ₄ -S [%]	0.04	0.03	0.03	0.04
Sulphide [%]	< 0.02	< 0.02	0.04	< 0.02
C [%]	0.067	0.064	0.112	0.074
CO ₃ [%]	0.170	0.125	0.255	0.115

*NP (Neutralization Potential)

= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

Weight of Sample

*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO₃ equivalent/1000 tonnes of material

Samples with a % Sulphide value of <0.02 will be calculated using a 0.02 value.

Chris Sullivan



Chris Sullivan, B.Sc., C.Chem
Project Specialist
Environmental Services, Analytical

APPENDIX D: QUARRY COMPOSITION DATA

**SGS Canada Inc.**

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12-July-2018

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Date Rec. : 27 June 2018
LR Report: CA12928-JUN18

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Itivia Quarry_262	6: Itivia Quarry_204
Sample Date & Time					18-Jun-18	18-Jun-18
Silver [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.062	0.054
Aluminum [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	58000	59000
Arsenic [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.84	0.58
Barium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	46	160
Beryllium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.40	0.25
Bismuth [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	< 0.09	< 0.09
Calcium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	67000	71000
Cadmium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.11	0.12
Cobalt [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	63	61
Chromium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	720	680
Copper [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	120	120
Iron [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	84000	84000
Potassium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	1700	3800
Lithium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	15	14
Magnesium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	70000	61000
Manganese [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	1500	1500
Molybdenum [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.30	0.68
Sodium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	11000	5200
Nickel [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	280	260
Phosphorus [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	260	190
Lead [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	2.1	2.6
Antimony [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	< 0.8	< 0.8
Selenium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	< 0.7	< 0.7
Tin [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	< 6	< 6
Strontium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	140	130
Titanium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	5300	4600
Thallium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.053	0.074
Uranium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	0.21	0.14
Vanadium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	260	250
Yttrium [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	16	14
Zinc [µg/g]	10-Jul-18	21:35	11-Jul-18	15:53	91	86



SGS Canada Inc.

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LR Report : CA12928-JUN18

*Brian Graham B.Sc.
Project Specialist
Environmental Services, Analytical*

**SGS Canada Inc.**

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 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#OL-664693

01-August-2018

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Date Rec. : 09 July 2018
LR Report: CA15090-JUL18

Baker Lake
 , Nunavut
 X0C 0A0,

Copy: #1

Phone: (819) 759-3555 x3928
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Blast3_2018
Sample Date & Time					23-Jun-18
Silver [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	0.21
Aluminum [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	63000
Arsenic [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	1.7
Barium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	81
Beryllium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	0.33
Bismuth [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	< 0.09
Calcium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	74000
Cadmium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	0.30
Cobalt [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	45
Chromium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	260
Copper [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	280
Iron [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	69000
Potassium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	1300
Lithium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	9.3
Magnesium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	41000
Manganese [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	1300
Molybdenum [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	1.2
Sodium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	27000
Nickel [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	96
Phosphorus [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	240
Lead [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	1.6
Antimony [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	< 0.8
Selenium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	< 0.7
Tin [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	< 6
Strontium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	230
Titanium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	4900
Thallium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	< 0.02
Uranium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	0.22
Vanadium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	250
Yttrium [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	15
Zinc [µg/g]	01-Aug-18	11:22	01-Aug-18	16:06	77

SGS Canada Inc.

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Project : PO#OL-664693**LR Report :** CA15090-JUL18

Chris Sullivan, B.Sc., C. Chem
Project Specialist
Environmental Services, Analytical

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.
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 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#OL-664693**16-August-2018****Agnico Eagle Mines Limited****Attn : Meliadine Coordinator**

Baker Lake
 , Nunavut
 X0C 0A0,

Date Rec. : 18 July 2018
LR Report: CA15290-JUL18
Reference: PO#OL-664693

Copy: #1

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Mel NN-001	6: Mel NN-002	7: Mel NN-003	8: Mel NN-004	9: Mel NN-005
Sample Date & Time					05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18
Silver [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	73000	71000	71000	73000	74000
Arsenic [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	4.9	2.3	3.2	4.3	3.2
Barium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	820	560	610	770	670
Beryllium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	1.6	1.6	1.3	1.4	1.5
Bismuth [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	0.12	0.13	0.14	0.18	0.13
Calcium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	23000	19000	20000	20000	20000
Cadmium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	0.081	0.062	0.088	0.082	0.066
Cobalt [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	13	7.7	9.9	13	8.7
Chromium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	110	82	100	78	88
Copper [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	16	8.1	18	17	8.7
Iron [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	37000	24000	29000	34000	27000
Potassium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	22000	15000	17000	20000	16000
Lithium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	19	19	18	27	16
Magnesium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	13000	8000	9700	13000	8800
Manganese [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	540	330	400	460	360
Molybdenum [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	1.2	2.5	1.5	2.4	1.2
Sodium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	30000	34000	30000	29000	34000
Nickel [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	34	20	24	43	19
Phosphorus [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	510	470	460	640	420
Lead [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	14	12	12	12	11
Antimony [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	1.4	< 0.8	< 0.8	1.5	< 0.8
Selenium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	420	500	470	570	520
Titanium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	2900	2100	2500	2900	2200
Thallium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	0.60	0.32	0.33	0.41	0.28
Uranium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	1.6	1.0	1.1	1.3	0.96
Vanadium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	100	53	72	91	63

Online LIMS

0001475648

**SGS Canada Inc.**

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Project : PO#OL-664693**LR Report : CA15290-JUL18**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Mel NN-001	6: Mel NN-002	7: Mel NN-003	8: Mel NN-004	9: Mel NN-005
Yttrium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	7.6	7.4	7.4	9.8	7.3
Zinc [µg/g]	08-Aug-18	15:28	09-Aug-18	10:54	66	55	56	74	51

Analysis	10: Mel NN-006	11: Mel NN-007	12: Mel NN-008	13: Mel NN-009	14: Mel NN-010	15: Mel NN-011	16: Mel NN-012	17: Mel NN-013	18: Mel NN-014
Sample Date & Time	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18	05-Jul-18
Silver [µg/g]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	72000	71000	68000	69000	76000	73000	70000	66000	71000
Arsenic [µg/g]	7.6	4.2	5.1	17	2.1	2.1	5.7	3.6	6.7
Barium [µg/g]	590	550	670	590	650	640	560	560	680
Beryllium [µg/g]	1.4	1.3	1.4	1.2	1.4	1.4	1.4	1.3	1.4
Bismuth [µg/g]	0.17	0.11	0.14	0.15	0.13	0.17	0.18	0.11	0.16
Calcium [µg/g]	22000	20000	20000	20000	19000	19000	20000	18000	26000
Cadmium [µg/g]	0.081	0.076	0.089	0.12	0.096	0.064	0.090	0.080	0.080
Cobalt [µg/g]	14	9.9	11	13	8.1	7.4	11	12	19
Chromium [µg/g]	75	82	100	95	63	72	98	94	85
Copper [µg/g]	26	16	8.1	14	8.3	7.9	13	14	32
Iron [µg/g]	30000	31000	32000	33000	22000	23000	30000	28000	41000
Potassium [µg/g]	18000	16000	17000	16000	19000	19000	15000	17000	16000
Lithium [µg/g]	20	19	21	20	18	16	23	18	19
Magnesium [µg/g]	11000	9800	11000	10000	7000	6700	10000	9100	14000
Manganese [µg/g]	530	410	440	480	360	320	440	440	630
Molybdenum [µg/g]	2.2	2.3	3.2	1.3	3.0	1.4	2.8	1.4	2.5
Sodium [µg/g]	30000	30000	30000	29000	34000	34000	30000	28000	29000
Nickel [µg/g]	36	26	27	29	25	17	29	30	32
Phosphorus [µg/g]	580	570	690	450	400	710	600	450	770
Lead [µg/g]	16	9.7	14	12	12	13	13	11	13
Antimony [µg/g]	1.3	< 0.8	2.4	0.94	< 0.8	1.9	< 0.8	1.0	< 0.8
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	430	430	480	420	470	510	490	390	480
Titanium [µg/g]	2300	2600	2600	2600	1900	2000	2300	2300	3400
Thallium [µg/g]	0.44	0.32	0.36	0.31	0.45	0.33	0.34	0.33	0.39
Uranium [µg/g]	1.5	1.0	1.4	1.1	1.5	1.1	1.2	1.2	1.3
Vanadium [µg/g]	74	76	81	84	50	48	70	71	120
Yttrium [µg/g]	10	8.0	8.0	9.2	6.6	7.3	8.1	7.9	12
Zinc [µg/g]	62	59	69	64	52	52	61	58	66



SGS Canada Inc.

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Project : PO#OL-664693

LR Report : CA15290-JUL18


Deanna Edwards, B.Sc, C.Chem
Project Specialist
Environmental Services, Analytical

**SGS Canada Inc.**

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Project : PO#OL-664693**21-August-2018****Agnico Eagle Mines Limited****Attn : Meliadine Coordinator**

Date Rec. : 20 July 2018
LR Report: CA15350-JUL18

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Site D S01-180614	6: Site D S02-180614	7: Site D S01-180615	8: Site D S02-180615	9: 01 Site D Topping
Sample Date & Time					14-Jun-18	14-Jun-18	15-Jun-18	15-Jun-18	17-Jun-18
Silver [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	< 1	< 1	2	< 1	< 1
Aluminum [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	68000	73000	73000	71000	68000
Arsenic [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	58	7.1	5.3	4.6	6.2
Barium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	570	600	600	530	620
Beryllium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	1.5	1.7	1.5	1.2	1.4
Bismuth [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	0.34	0.48	0.52	0.67	0.73
Calcium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	22000	24000	26000	29000	26000
Cadmium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	0.073	0.073	0.089	0.065	0.085
Cobalt [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	13	15	17	18	15
Chromium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	96	38	77	96	84
Copper [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	30	28	48	31	28
Iron [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	31000	33000	33000	38000	35000
Potassium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	19000	19000	17000	19000	20000
Lithium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	27	20	24	28	24
Magnesium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	11000	11000	11000	13000	11000
Manganese [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	470	520	520	620	530
Molybdenum [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	2.0	22	2.1	2.0	1.7
Sodium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	27000	28000	29000	25000	25000
Nickel [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	39	31	39	38	35
Phosphorus [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	470	600	500	430	500
Lead [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	16	15	14	14	16
Antimony [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	< 0.8	1.5	< 0.8	1.5	< 0.8
Selenium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	370	360	410	370	380
Titanium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	2500	2600	2800	2800	2800
Thallium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	0.51	0.47	0.43	0.57	0.51
Uranium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	1.6	1.6	1.5	1.6	2.6
Vanadium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	72	69	76	96	79
Yttrium [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	8.2	11	11	11	13
Zinc [µg/g]	08-Aug-18	15:28	09-Aug-18	10:55	60	65	60	74	62

SGS Canada Inc.

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Project : PO#OL-664693

LR Report : CA15350-JUL18

Analysis	10: 02 Site D Topping	11: Site D 30mm Road Topping-June 23 2018-01	12: Site D 30mm Road Topping-June 23 2018-02	13: Site D 2018-06-28-002	14: Site D 2018-06-29-001	15: Site D 2018-07-07-01	16: Site D 2018-07-07-02	17: Site D 2018-07-11-01	18: Site D 2018-07-11-02
Sample Date & Time	17-Jun-18	23-Jun-18	23-Jun-18	28-Jun-18	29-Jun-18	07-Jul-18	07-Jul-18	11-Jul-18	11-Jul-18
Silver [µg/g]	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	67000	68000	67000	67000	73000	65000	69000	70000	68000
Arsenic [µg/g]	5.7	11	6.2	4.7	16	15	8.0	7.9	8.0
Barium [µg/g]	620	620	530	800	720	600	790	650	620
Beryllium [µg/g]	1.5	1.5	1.3	1.5	1.4	4.0	1.6	1.4	1.7
Bismuth [µg/g]	0.91	0.58	0.95	0.24	0.19	0.48	0.61	0.46	2.2
Calcium [µg/g]	25000	26000	25000	25000	26000	22000	23000	24000	25000
Cadmium [µg/g]	0.068	0.088	0.14	0.063	0.055	0.090	0.064	0.085	0.079
Cobalt [µg/g]	14	18	16	15	18	15	15	17	16
Chromium [µg/g]	93	100	98	88	86	95	85	83	79
Copper [µg/g]	29	41	36	29	32	33	37	53	37
Iron [µg/g]	31000	37000	38000	35000	39000	31000	34000	34000	37000
Potassium [µg/g]	22000	19000	16000	19000	18000	18000	20000	18000	17000
Lithium [µg/g]	23	23	23	20	25	24	24	20	27
Magnesium [µg/g]	12000	14000	11000	12000	15000	11000	11000	12000	12000
Manganese [µg/g]	480	540	550	550	550	490	600	470	550
Molybdenum [µg/g]	1.9	3.0	3.3	1.8	1.8	2.1	2.2	2.4	2.1
Sodium [µg/g]	25000	25000	26000	27000	28000	25000	26000	26000	26000
Nickel [µg/g]	40	51	36	41	45	38	36	43	36
Phosphorus [µg/g]	570	520	690	690	540	440	630	460	630
Lead [µg/g]	16	15	13	17	12	13	15	17	14
Antimony [µg/g]	< 0.8	1.2	1.2	4.9	< 0.8	0.86	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	370	320	340	470	420	360	380	410	390
Titanium [µg/g]	2500	2800	3700	2800	2800	2500	2700	2600	3200
Thallium [µg/g]	0.58	0.47	0.40	0.46	0.44	0.41	0.55	0.43	0.44
Uranium [µg/g]	2.1	1.6	1.7	1.9	1.8	1.3	1.7	1.3	1.9
Vanadium [µg/g]	69	78	83	73	95	74	73	78	81
Yttrium [µg/g]	10	11	11	11	11	9.3	11	10	11
Zinc [µg/g]	55	68	67	73	81	62	65	67	70

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