

Appendix C-1

Geochemical Report



AGNICO EAGLE

MELIADINE GOLD PROJECT

2019 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 2020

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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 2019 from underground development areas at the Meliadine Mine, containment/sedimentation ponds (SP2, CP3 and CP4) and filtered tailings samples taken from the mill.

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, 2019 sampling was not expected to find samples with ARD potential. Potential for ARD from containment/sedimentation ponds and filtered tailings 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 and processed (i.e. tailings) in 2019, with no management requirements. Arsenic was the element of interest in the deposit, although at concentrations that were predicted to not pose a water quality risk. The results from 2019 are presented in context of sampling from 2017 and 2018 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 2019, 84 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 to 425. Roughly half of the samples were taken in primary footwall drives, primarily in Meta-Volcanic rocks. The other half of samples came from cross-cuts being done to access the ore and were a predominantly Meta-Sediments with or without minor Iron Formation. A few samples were taken in the primary 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:

- Monthly sampling to recover 6 samples plus one replicate for a total of 7 samples per month.
- The dominant lithology's encountered in the waste rock were selected by:
 - choosing 3 from each of the top three priority waste headings in the month (i.e. one from each heading);
 - 3 additional samples from the other most active headings each month; and
 - the rock type (i.e. volcanic (VOL), sedimentary (SED) or iron formation (IF)) were noted with each sample.

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

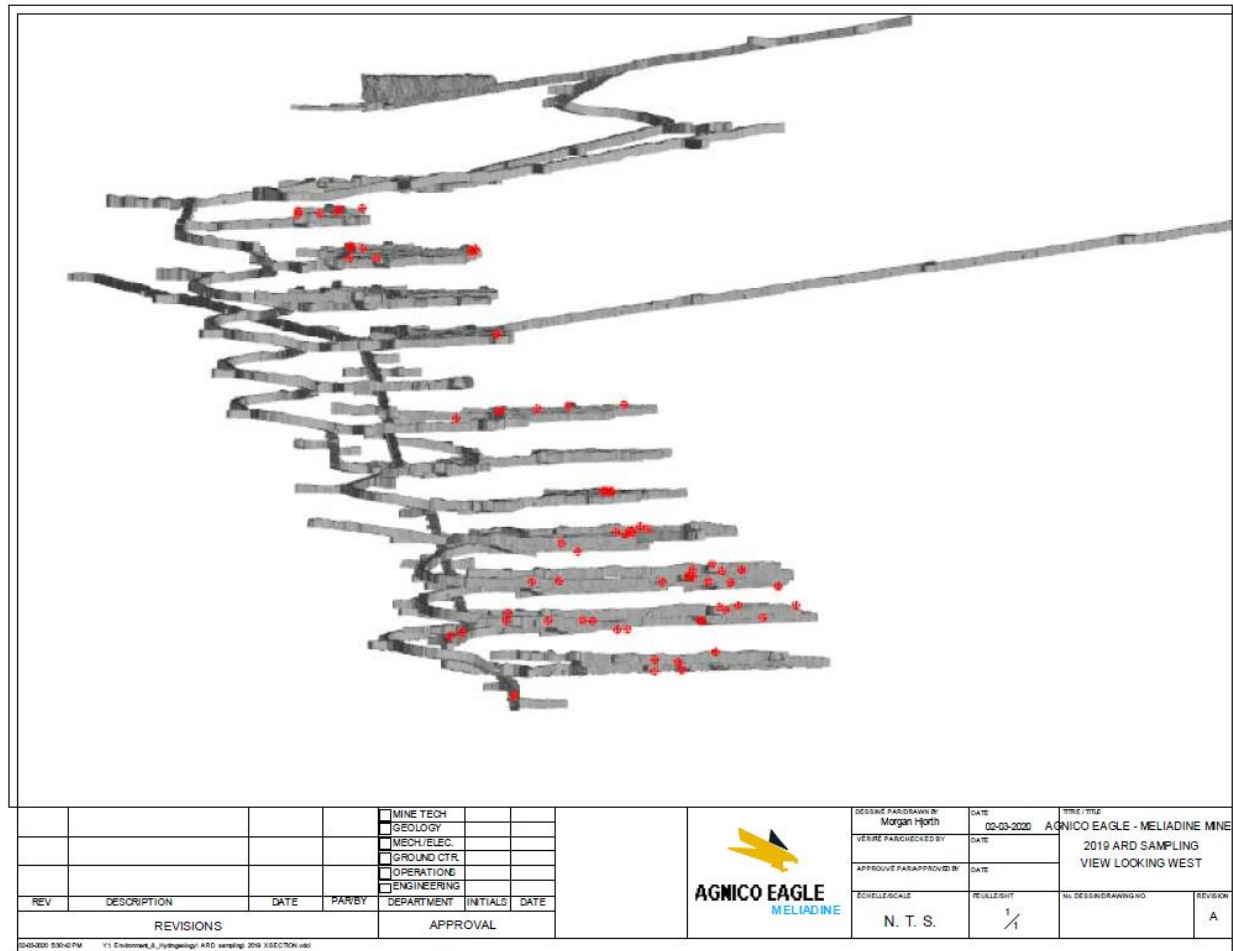


Figure 1: Cross section of underground mine ML/ARD sampling locations.

Note: Sample locations are indicated by red circles.

2.2 CONTAINMENT AND SEDIMENTATION PONDS

In 2019, 28 waste rock samples were collected during construction from the containment and sedimentation ponds (CPs and SPs, respectively) from around the mine site that served as water storage facilities. Pond CP3 was constructed as a run-off storage for the tailings facility water prior to it being transported to CP1. CP4 was built to store water from the waste rock pile prior to being transported to CP1. SP2 was constructed as a storage for underground water prior to the water being treated and discharged to sea.

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 infrastructure ponds was estimated for bank (in situ) volume using an estimated bulk density based on typical published values of 2.5 g/cm³. During excavation of the ponds, more material was

removed from CP3 and SP2 while less material was mined from CP4 than what was initially estimated. In all scenarios the sampling rate was higher than 8 samples/100,000 tonnes.

Sampling for the three ponds were done differently. Borehole drilling cutting samples were taken for CP3 and CP4 while for SP2 there were some grab samples taken along with cuttings from borehole drilling. For all locations approximately 1 kg of material was collected. The location of ponds is provided in Figure 2.

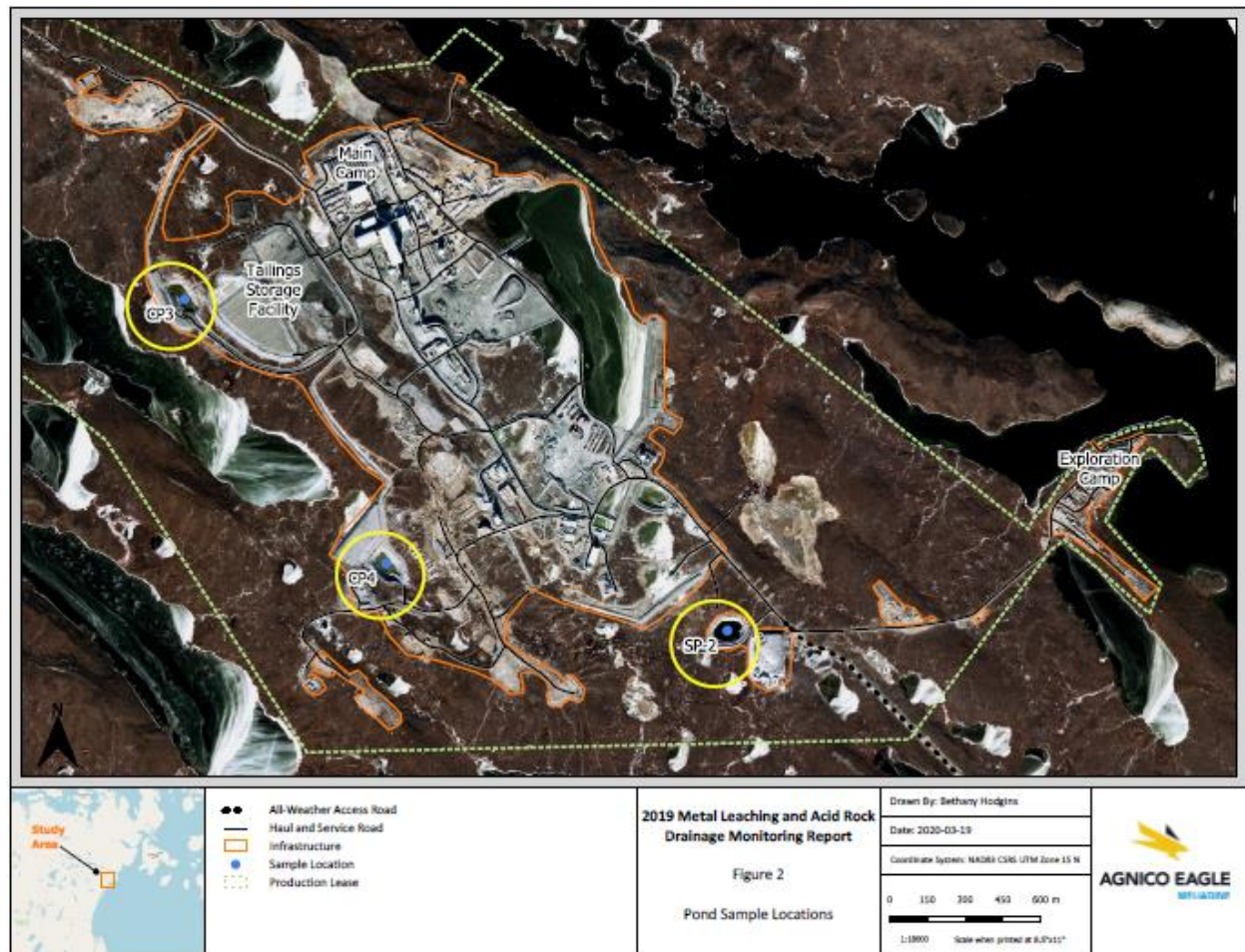


Figure 2: Containment and Sedimentation Pond locations tested in 2019.

2.3 FILTERED TAILINGS

In 2019, 27 filtered tailings samples were taken at Meliadine as processing of the underground ore commenced in the first quarter of 2019. Samples were taken in the mill immediately after the filter press with approximately 1 kg of sample collected. Samples were initially taken weekly and then changed to a minimum of monthly towards the end of the year due to minimal temporal changes seen in the data set collected to date.

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 3:1 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 is likely appropriate for determining NP, which was recommended by Golder (2014) to be the more conservative method to determine buffering capacity. The NP to NP-Carbonate relationship continued to be checked in 2019 and the relationship generally held, especially at low NP values.

Complete results from NP characterization are provided in Appendix A, with summary statistics provided in Table 1. NP ranged from a minimum of 0.4 kg CaCO₃/t to a maximum of 367 kg CaCO₃/t, with a median of 106 kg CaCO₃/t

Table 1: Summary Statistics for 2019 ARD and Arsenic Results.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	5.5	8.1	8.3	8.5	8.5	8.7	9.2	10
NP	kg CaCO ₃ /t	1	37	56	128	147	234	269	372
AP	kg CaCO ₃ /t	0.62	1.0	3.1	5.3	7.8	9.1	21	58
Sulphur (total)	% S	0.01	0.06	0.14	0.23	0.31	0.36	0.77	2.2
Acid Leachable SO ₄ -S	% S	0.02	0.02	0.02	0.04	0.06	0.09	0.17	0.38
Carbon (total)	% C	0.01	0.53	0.8	1.7	2.0	3.3	3.5	5.0
Carbonate (CO ₃)	% CO ₃	0.03	1.6	2.9	6	8.3	14	16	22
NP-Ca	kg CaCO ₃ /t	0.4	27	49	106	139	235	265	367
NP-Ca/AP	ratio	0.0	3.2	10	21	18	39	101	153
Arsenic	mg/kg	4.1	8.4	51	140	446	440	1180	8700

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 2019 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 2.2%, with a median of 0.23%.

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 waste rock (i.e. muck) samples collected to date were non-PAG. Samples from 2017 and 2018 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 1 and this sample is unlikely to produce ARD even without the buffering of any other samples.

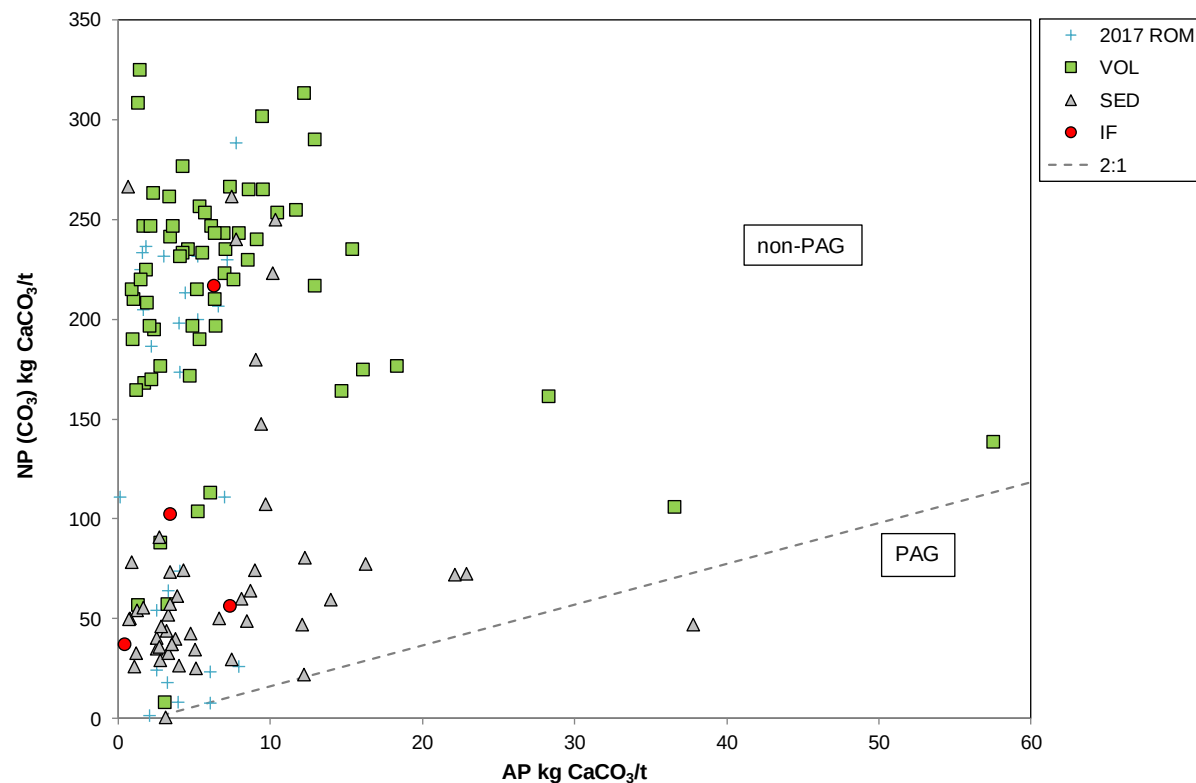


Figure 3: ARD classification of Meliadine Underground Waste Rock Samples.

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 only one sample in the past three years exceeding the maximum concentration reported by Golder (2014).

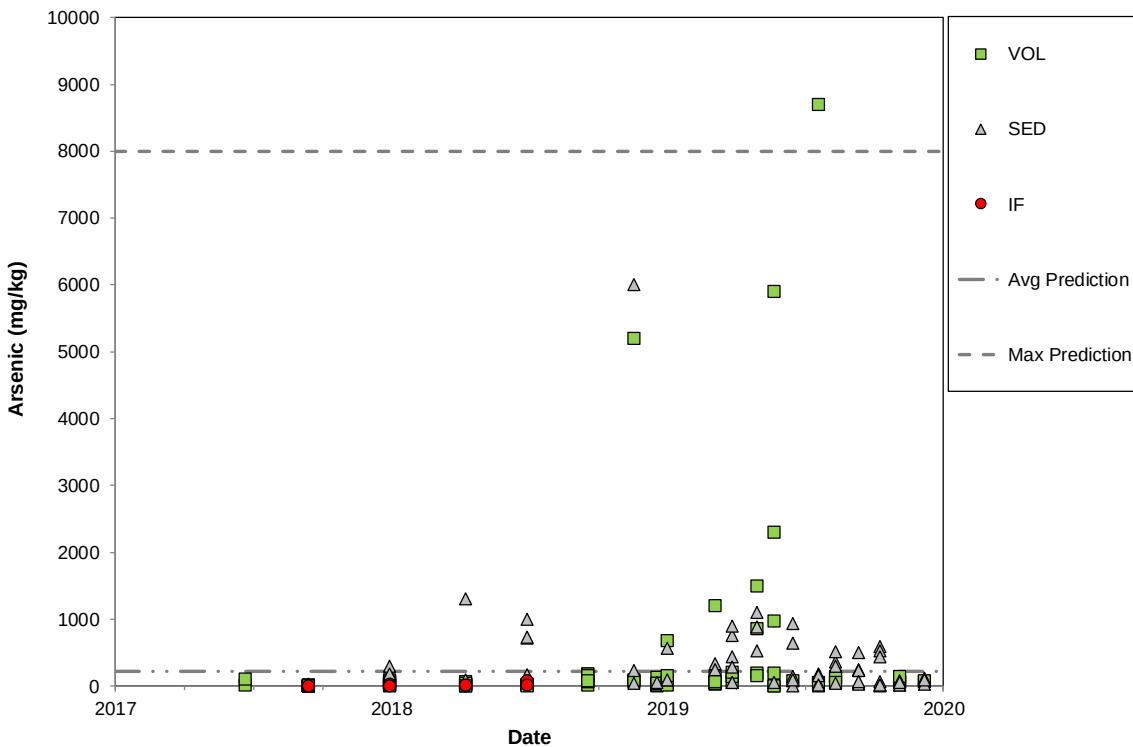


Figure 4: Arsenic concentrations in waste rock compared to project prediction studies.

4.2 CONTAINMENT AND SEDIMENTATION PONDS

4.2.1 ARD POTENTIAL

The potential for ARD from CP and SP samples collected in 2019 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 and illustrated in Figure 5. NP-Ca ranged from 25 to 96 kg CaCO₃/t, with a median of 50 kg CaCO₃/t. Total sulphur ranged from 0.1% to a 0.4%, with a median of 0.21%.

The potential for CP and SP facilities 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, one of the pond samples collected were classified as PAG. However, this sample had relatively minor sulphur (~ 0.2%), would be surrounded by other rocks with excess NP, and was also crushed and used as road bedding underground. After operations cease

water flooding will inhibit further oxidation. As a result, the risk from this one samples is assumed to be negligible.

Table 2: Summary Statistics for Containment and Sedimentation Pond Rock Samples Collected in 2019.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	8.7	8.8	8.9	9.0	9.0	9.2	9.3	9.4
NP	kg CaCO ₃ /t	25	31	43	50	50	54	65	96
AP	kg CaCO ₃ /t	2.19	2.61	3.4	4.1	4.1	4.5	5.7	8.1
Sulphur (total)	% S	0.10	0.13	0.16	0.21	0.20	0.22	0.27	0.4
Acid Leachable SO ₄ -S	% S	0.02	0.02	0.03	0.07	0.07	0.09	0.13	0.16
Carbon (total)	% C	0.21	0.34	0.58	0.64	0.64	0.72	0.85	1.3
Carbonate (CO ₃)	% CO ₃	0.37	0.71	2.0	2.3	2.3	2.6	3.3	5.4
NP-Ca	kg CaCO ₃ /t	6.2	12	33	38	38	43	55	90
NP-Ca/AP	ratio	1.4	3.1	7.5	9.6	9.1	12	17	22
Arsenic	mg/kg	12	16	40	59	83	86	238	370

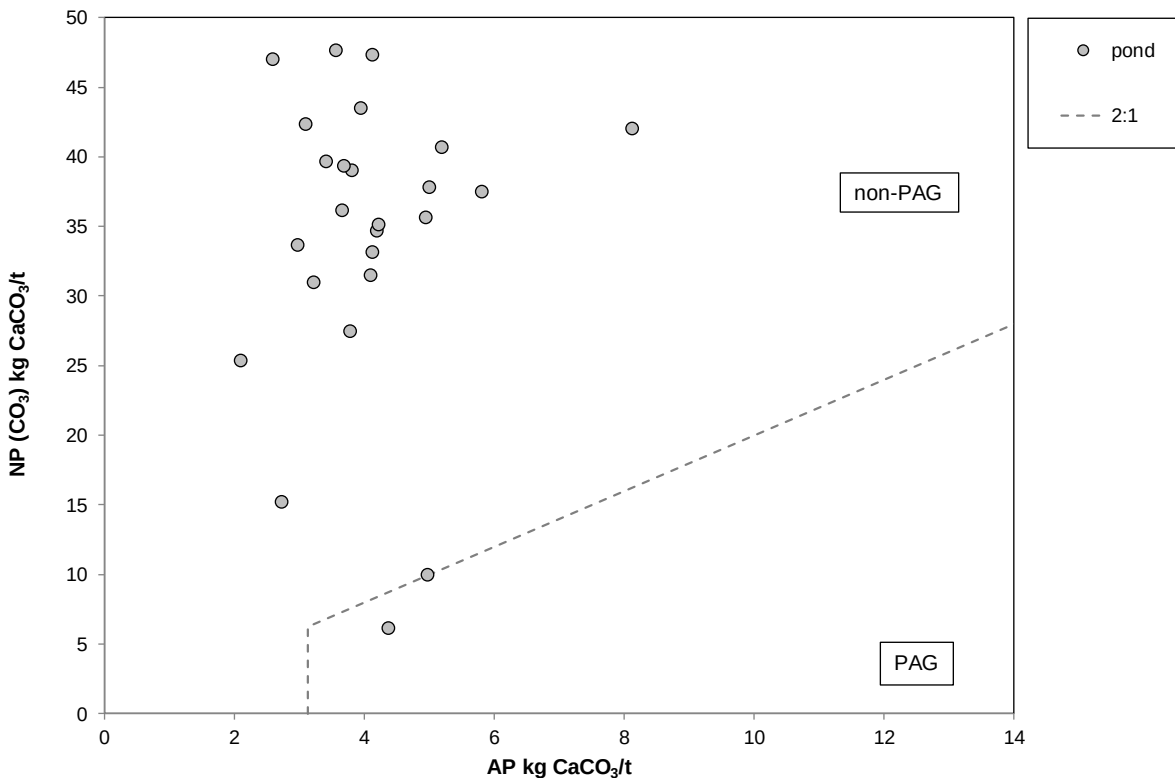


Figure 5: Containment and Sedimentation Pond ARD Assessment.

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

4.2.2 METAL LEACHING

All regulated elements were analyzed 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 12 mg/kg to a maximum of 370 mg/kg, with a median of 59 mg/kg. These values are relatively low compared to waste rock and are below the 8000 mg/Kg values discussed previously. A statistical summary is provided in Table 2 and all results since sampling began in 2019 are provided in Appendix D.

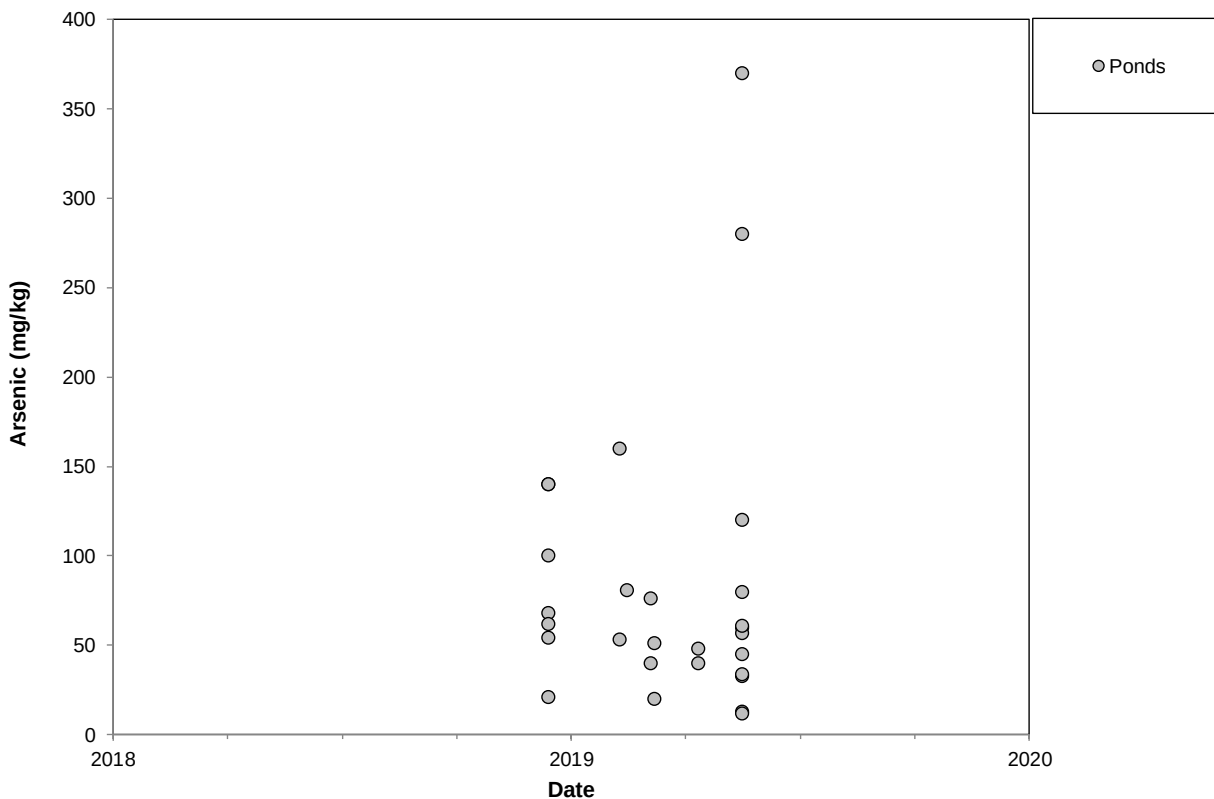


Figure 6: Solid Phase CP and SP Arsenic Concentrations.

5 FILTERED TAILINGS

5.1 ARD POTENTIAL

The potential for ARD from operational tailings samples collected in 2019 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.

Results are provided in Attachment E with summary statistics provided in Table 3. NP-Ca ranged from 29 to 76 kg CaCO₃/t, with a median of 61 kg CaCO₃/t. Total sulphur ranged from 1.4% to a 2.5%, with a median of 1.7%. The higher sulphur content in the filtered tailings compared to the waste rock and pond rock is a result of the sulphides associated with gold.

Based on the more conservative NP-Ca and total sulphur, all of the samples collected to date are classified as PAG using an NPR ratio of 2 (Figure 7), but with all but two above an NPR of 1. The median NPR was 1.4.

Table 3: Summary Statistics for Filtered Tailings Samples Collected in 2019.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	8.2	8.2	8.2	8.3	8.5	9.2	8.5	8.6
NP	kg CaCO ₃ /t	78	79	82	85	86	89	95	102
AP	kg CaCO ₃ /t	38	38	43	48	50	54	66	76
Sulphur (total)	% S	1.4	1.4	1.6	1.7	1.8	1.9	2.4	2.5
Acid Leachable SO ₄ -S	% S	0.02	0.02	0.08	0.19	0.19	0.26	0.35	0.50
Carbon (total)	% C	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.8
Carbonate (CO ₃)	% CO ₃	1.7	2.4	3.4	3.7	3.6	4.1	4.4	4.6
NP-Ca	kg CaCO ₃ /t	29	40	56	61	60	68	74	76
NP-Ca/AP	ratio	0.54	0.69	1.1	1.4	1.2	1.5	1.7	1.9
Arsenic	mg/kg	7900	8260	9450	10000	10581	12000	13700	14000

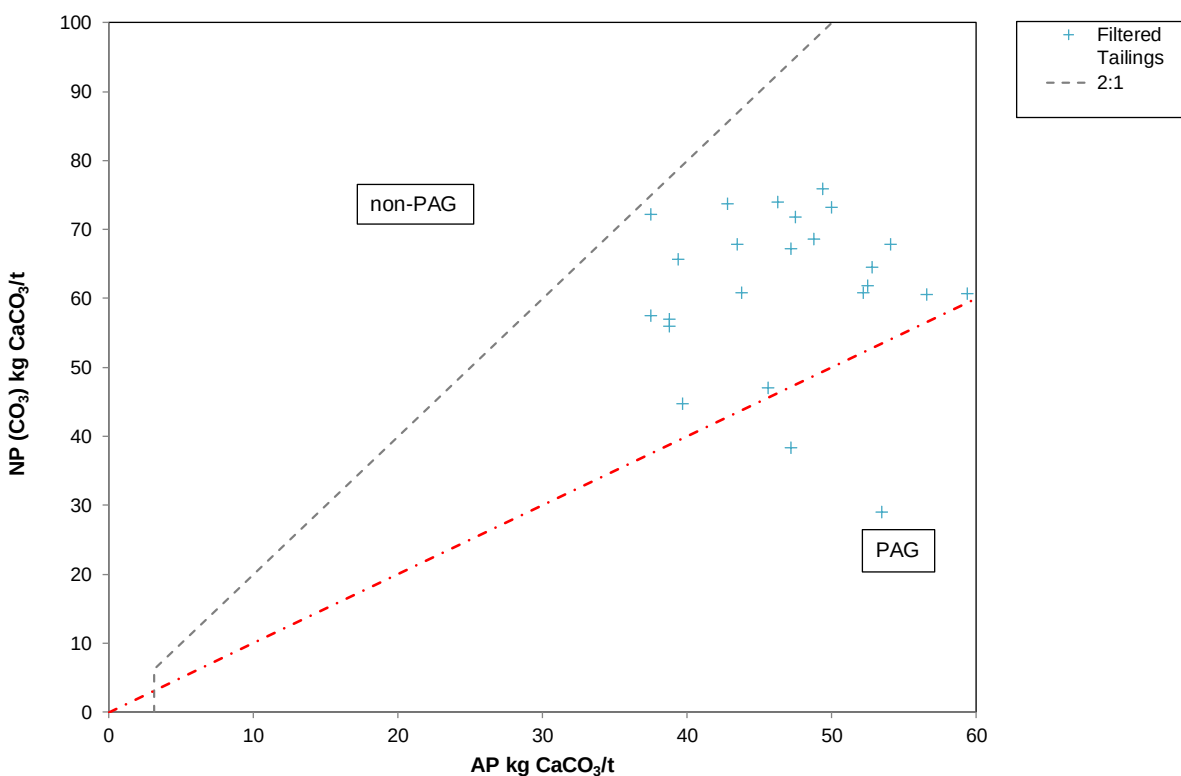


Figure 7: Operational Filtered Tailings ARD classification.

Project prediction studies in the FEIS estimated an NPR of 2.7 for the tailings, although that estimate was done using NP from titration (i.e. modified Sobek), which is slightly less conservative than the approach used herein. When the modified Sobek NP is used for the operational studies, the NPR is 1.8, slightly higher than 1.4.

Despite the PAG classification of the operational tailings samples, Agnico Eagle does not consider the tailings to pose an ARD risk for the site for a number of reasons:

- the tailings are being stored in a facility that will freeze back (i.e. re-develop permafrost) and inhibit water movement within a few years post-operations;
- placement of the tailings includes compacting by a vibrator packer and sloping to shed water off the facility, which will lower oxygen diffusion into the tailings and limit water contact, both established mechanisms to reduce ARD;
- there is enough carbonate in the tailings that ARD may never occur as the actual ratio that ARD onset is expected is much closer to 1.0;
- if ARD could develop, permafrost will develop at least one hundred years before the onset of ARD due to the amount of carbonate in the tailings and arctic climate slowing reaction rates; and
- progressive reclamation is a part of the facility management for closure, meaning a cover will be placed over most of the tailings before the mine ceases operations.

5.2 METAL LEACHING

All regulated elements were analyzed in solid samples are included in Attachment F. Given the presence of arsenic in the ore rock and background concentrations in the area, results for this element are summarized below. A statistical summary is provided in Table 3 and the arsenic results are provided in Figure 8.

Arsenic concentrations ranged from a minimum of 7900 mg/kg to a maximum of 14,000 mg/kg, with a median of 10,000 mg/kg. These values are higher when compared to waste rock and the containment ponds and this is not unexpected as the ore is associated with sulphides, most predominately pyrrhotite and arsenopyrite.

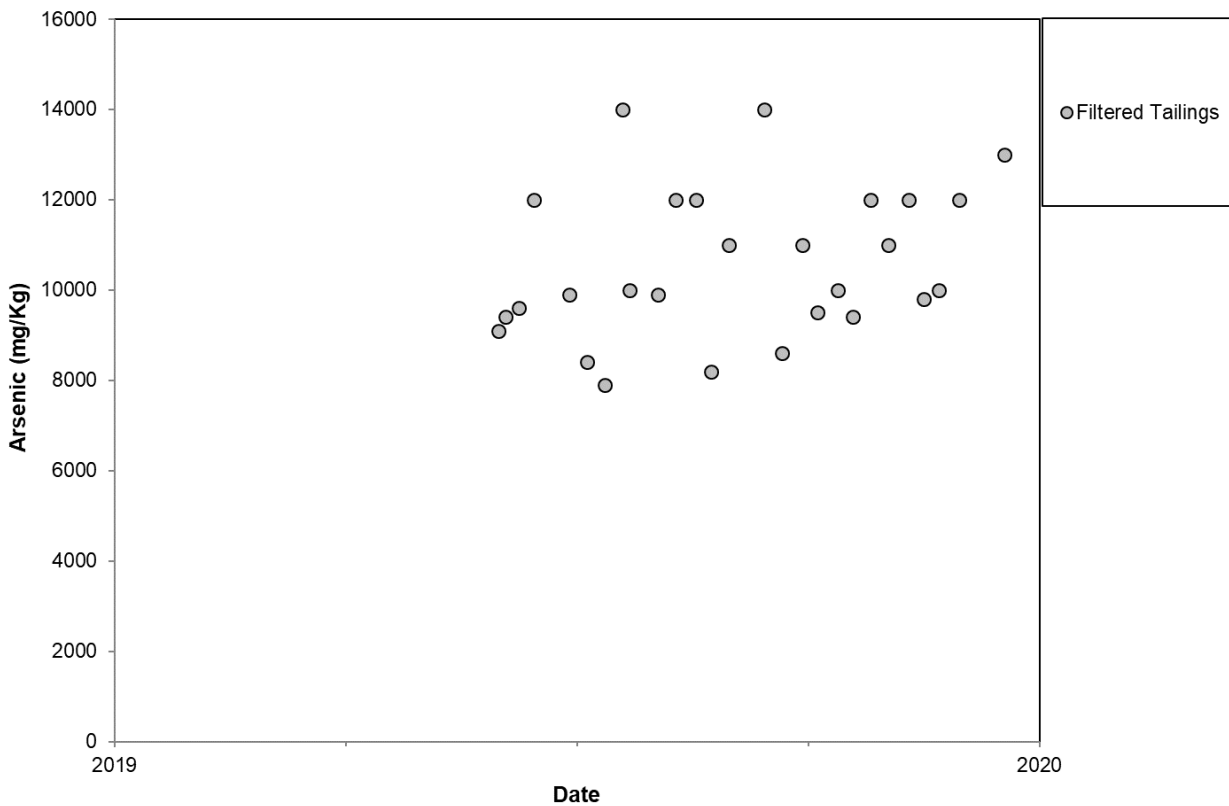


Figure 8: Solid Phase Arsenic Results in 2019 Operational Tailings.

6 CONCLUSIONS

Based on geochemical characterization results obtained to date for the waste rock and containment pond samples, there is low risk for ARD or metal leaching from the materials. Results are within project prediction studies for the project. The filtered tailings results are showing a slightly lower NPR than what was predicted in the baseline study, but are still assessed to pose a low risk for ARD as a result of the management system and close approach developed for the storage facility.

Sample collection for operational waste rock, tailings, and contact water for all mine waste facilities will continue in 2020, with results reviewed internally as soon as they become available to ensure there is no risk to the receiving environment.

APPENDIX A: WASTE ROCK ACID-BASE ACCOUNTING DATA

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - K0L 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

ABA - Modified Sobek

Project : PO#OL-664693

28-January-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Date Rec. : 14 January 2019

LR Report: CA15160-JAN19

Baker Lake
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 X0C 0A0, Canada

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Phone: (819) 759-3555 x3928

Fax:(819) 759-3663

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAML116501- RP1-425-450-M V	6: CAML11650-R P3-375-400-MV	7: CAML116503- FW1-375-W-MV V
Paste pH	23-Jan-19	15:35	26-Jan-19	16:02	8.16	8.39	8.92
Fizz Rate [---]	24-Jan-19	08:18	26-Jan-19	16:02	3	3	3
Sample weight [g]	24-Jan-19	08:18	26-Jan-19	16:02	2.01	2.02	2.01
HCl Added [mL]	24-Jan-19	08:18	26-Jan-19	16:02	144.30	166.10	135.60
HCl [Normality]	24-Jan-19	08:18	26-Jan-19	16:02	0.10	0.10	0.10
NaOH [Normality]	24-Jan-19	08:18	26-Jan-19	16:02	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	24-Jan-19	08:18	26-Jan-19	16:02	40.88	67.75	42.71
Final pH	24-Jan-19	08:18	26-Jan-19	16:02	1.73	1.51	1.55
NP [t CaCO ₃ /1000 t]	24-Jan-19	08:18	26-Jan-19	16:02	257	243	231
AP [t CaCO ₃ /1000 t]	---	---	26-Jan-19	16:03	9.06	5.31	5.31
Net NP [t CaCO ₃ /1000 t]	---	---	26-Jan-19	16:03	248	238	226
NP/AP [ratio]	---	---	26-Jan-19	16:03	28.4	45.8	43.5
Sulphur (total) [%]	23-Jan-19	15:02	26-Jan-19	13:10	0.361	0.191	0.256
Acid Leachable SO ₄ -S [%]	---	---	26-Jan-19	13:10	0.07	0.02	0.09
Sulphide [%]	25-Jan-19	15:19	26-Jan-19	13:10	0.29	0.17	0.17
Carbon (total) [%]	23-Jan-19	15:02	26-Jan-19	13:10	3.37	3.38	2.79
Carbonate [%]	25-Jan-19	11:33	25-Jan-19	13:58	14.4	15.4	12.9

Analysis	8: CAML116504- DP1-175-157-K SC	9: CAML116505- FW1-325-W-KS C	10: CAML116506- DP1-325-163-M V	11: CAML116506- DP1-325-163-M V S-DUP
Paste pH	8.13	7.96	8.16	8.20
Fizz Rate [---]	3	3	3	3
Sample weight [g]	1.98	2.01	1.99	1.98
HCl Added [mL]	55.30	53.10	173.20	150.50
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10

Analysis	8: CAMLM116504- DP1-175-157-K SC	9: CAMLM116505- FW1-325-W-KS C	10: CAMLM116506- DP1-325-163-M V	11: CAMLM116506- DP1-325-163-M V S-DUP
NaOH to pH=8.3 [mL]	26.54	21.59	65.21	56.63
Final pH	1.53	1.72	1.50	1.51
NP [t CaCO3/1000 t]	72.6	78.4	271	237
AP [t CaCO3/1000 t]	4.38	9.06	10.6	12.8
Net NP [t CaCO3/1000 t]	68.2	69.3	261	224
NP/AP [ratio]	16.6	8.65	25.5	18.5
Sulphur (total) [%]	0.168	0.317	0.375	0.584
Acid Leachable SO4-S [%]	0.03	0.03	0.04	0.17
Sulphide [%]	0.14	0.29	0.34	0.41
Carbon (total) [%]	1.19	1.17	3.50	3.08
Carbonate [%]	4.47	3.84	15.2	13.0

*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.

Sample IDs taken from bags. List was not provided.

Chris Sullivan



Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

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MEL

Project : ABA - Modified Sobek

28-March-2019

Date Rec. : 05 March 2019
LR Report: CA15067-MAR19
Reference: ABA - Modified Sobek

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: CAML106701- RP3-400-425-M V	6: CAML106702- FW1-375-W-SE D	7: CAML106703- FW1-275-W-SE D	8: CAML106704- FW1-175-W-MV D	9: CAML106705- DP-1-175-162-M V	10: CAML106706- FW1-150-W-MV D	11: CAML106707- FW1-150-W-MV S-DUP
Sample Date & Time					5-Mar-19	5-Mar-19	5-Mar-19	5-Mar-19	5-Mar-19	5-Mar-19	5-Mar-19
Paste pH [no unit]	19-Mar-19	15:16	20-Mar-19	09:02	8.17	8.12	10.54	8.26	8.38	8.43	8.49
Fizz Rate [no unit]	18-Mar-19	09:54	20-Mar-19	09:02	4	4	4	4	4	4	4
Sample weight [g]	18-Mar-19	09:54	20-Mar-19	09:02	1.98	1.99	1.99	1.98	2.02	2.00	2.03
HCl_add [mL]	19-Mar-19	07:56	20-Mar-19	09:02	137.40	152.00	103.00	137.20	155.70	132.80	124.60
HCl [Normality]	18-Mar-19	09:54	20-Mar-19	09:02	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	18-Mar-19	09:54	20-Mar-19	09:02	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	19-Mar-19	07:56	20-Mar-19	09:02	49.42	63.11	26.92	55.45	61.01	50.75	47.24
Final pH [no unit]	19-Mar-19	07:56	20-Mar-19	09:02	1.64	1.63	1.90	1.61	1.60	1.62	1.62
NP [t CaCO3/1000 t]	19-Mar-19	07:56	20-Mar-19	09:02	222	223	191	206	234	205	190
AP [t CaCO3/1000 t]	20-Mar-19	09:03	20-Mar-19	09:03	6.56	9.06	9.06	5.31	5.00	2.50	15.9
Net NP [t CaCO3/1000 t]	20-Mar-19	09:03	20-Mar-19	09:03	216	214	182	201	229	203	175
NP/AP [ratio]	20-Mar-19	09:03	20-Mar-19	09:03	33.9	24.6	21.1	38.9	46.9	82.0	12.0
S [%]	19-Mar-19	10:36	19-Mar-19	16:13	0.225	0.298	0.319	0.175	0.167	0.115	0.575
Acid Leachable SO4-S [%]	19-Mar-19	16:13	19-Mar-19	16:13	< 0.02	< 0.02	0.03	< 0.02	< 0.02	0.04	0.06
Sulphide [%]	19-Mar-19	14:19	19-Mar-19	16:13	0.21	0.29	0.29	0.17	0.16	0.08	0.51
C [%]	19-Mar-19	10:36	19-Mar-19	11:12	2.72	2.92	2.44	2.72	3.06	2.57	2.45
CO3 [%]	19-Mar-19	10:51	19-Mar-19	11:12	11.8	10.8	8.85	11.8	14.1	11.7	10.5
Weight [g]	---	---	---	---	3100	2946	3559	2513	2694	1675	1334

*NP (Neutralization Potential)



SGS Canada Inc.

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MEL

Project : ABA - Modified Sobek

LR Report : CA15067-MAR19

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)

Weight of Sample

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

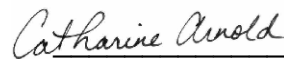
*Net NP (Net Neutralization Potential) = NP-AP

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.

No dates samples were provided so the date received has been entered as the date sampled as per the client.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

**SGS Canada Inc.**

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26-April-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Baker Lake,
Canada, X0C 0A0
Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

Date Rec. : 03 April 2019
LR Report: CA14157-APR19
Reference: ABA - Modified Sobek

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: CAMLM106708- FW1-275W-SED	6: CAMLM106709- FW1-325W-SED	7: CAMLM106710- FW1-325W-SED
Sample Date & Time					28-Mar-19	28-Mar-19	28-Mar-19
Paste pH [no unit]	16-Apr-19	09:31	18-Apr-19	16:01	8.29	8.32	8.39
Fizz Rate [no unit]	16-Apr-19	09:31	18-Apr-19	16:01	3	3	4
Sample weight [g]	16-Apr-19	09:31	18-Apr-19	16:01	2.00	2.01	2.04
HCl_add [mL]	16-Apr-19	09:31	18-Apr-19	16:01	49.50	70.40	170.00
HCl [Normality]	16-Apr-19	09:31	18-Apr-19	16:01	0.10	0.10	0.10
NaOH [Normality]	16-Apr-19	09:31	18-Apr-19	16:01	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Apr-19	09:31	18-Apr-19	16:01	24.45	42.65	75.24
Final pH [no unit]	16-Apr-19	09:31	18-Apr-19	16:01	1.59	1.58	1.57
NP [t CaCO3/1000 t]	16-Apr-19	09:31	18-Apr-19	16:01	62.6	69.0	232
AP [t CaCO3/1000 t]	18-Apr-19	16:13	18-Apr-19	16:01	9.38	37.8	14.1
Net NP [t CaCO3/1000 t]	18-Apr-19	16:13	18-Apr-19	16:01	53.2	31.2	218
NP/AP [ratio]	18-Apr-19	16:13	18-Apr-19	16:01	6.68	1.82	16.5
S [%]	16-Apr-19	14:03	17-Apr-19	11:24	0.480	1.24	0.547
Acid Leachable SO4-S [%]	17-Apr-19	11:48	17-Apr-19	11:24	0.18	0.03	0.10
Sulphide [%]	17-Apr-19	11:23	17-Apr-19	11:24	0.30	1.21	0.45
C [%]	16-Apr-19	14:03	17-Apr-19	14:14	0.915	1.16	3.33
CO3 [%]	17-Apr-19	14:12	17-Apr-19	14:14	2.81	3.58	15.0

Analysis	8: CAMLM106710-CAMLM106711- FW1-325W-SEDRP3-400-425MV DUP	9: CAMLM106711- FW1-150W-MV	10: CAMLM106712- FW1-175W-MV	11: CAMLM106713- FW2-400E-SED	12: CAMLM106714- FW2-400E-SED
Sample Date & Time	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19
Paste pH [no unit]	8.42	8.96	8.74	8.39	7.99
Fizz Rate [no unit]	4	4	4	4	4
Sample weight [g]	1.99	2.05	2.03	1.99	2.00
HCl_add [mL]	163.20	64.00	148.00	152.00	64.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10

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LR Report : CA14157-APR19

Analysis	8: CAMLM106710-CAMLM106711- FW1-325W-SEDRP3-400-425MV DUP	9: CAMLM106712- FW1-150W-MV	10: CAMLM106713- FW1-175W-MV	11: CAMLM106714- FW2-400E-SED	12:
Vol NaOH to pH=8.3 [mL]	69.34	23.32	57.65	62.49	32.37
Final pH [no unit]	1.62	1.78	1.61	1.63	1.62
NP [t CaCO3/1000 t]	236	99.2	222	225	79.1
AP [t CaCO3/1000 t]	10.3	2.81	1.56	2.19	7.50
Net NP [t CaCO3/1000 t]	225	96.4	221	223	71.6
NP/AP [ratio]	22.9	35.3	142	103	10.5
S [%]	0.360	0.128	0.172	0.113	0.308
Acid Leachable SO4-S [%]	0.03	0.04	0.12	0.04	0.07
Sulphide [%]	0.33	0.09	0.05	0.07	0.24
C [%]	3.44	1.16	2.96	3.25	1.22
CO3 [%]	15.7	5.28	14.8	15.8	3.67

*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.

No dates samples were provided so the date received has been entered as the date sampled as per the client.

Catharine Arnold
Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety





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MEL

18-June-2019

Date Rec. : 30 April 2019

LR Report: CA15480-APR19

Reference: ABA - Modified Sobek

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: CAMLM117551- FW1-175-W-MV	6: CAMLM117552- FW1-150-W-MV	7: CAMLM117553- FW2-400-E-SED	8: CAMLM117554- RP3-400-169-M R	9: CAMLM117555- RP3-400-425-M V	10: CAMLM117556- FW3-375-E-SED
Sample Date & Time					28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19
Paste pH [no unit]	21-May-19	08:40	22-May-19	17:09	8.38	8.06	8.65	8.13	8.20	8.45
Fizz Rate [no unit]	21-May-19	08:40	22-May-19	16:58	4	4	4	4	4	4
Sample weight [g]	21-May-19	08:40	22-May-19	16:58	1.98	2.04	1.99	2.05	2.05	1.98
HCl Added [mL]	21-May-19	08:40	22-May-19	16:58	175.00	196.00	56.00	202.00	183.00	170.00
HCl [Normality]	21-May-19	08:40	22-May-19	16:58	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	21-May-19	08:40	22-May-19	16:58	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	21-May-19	08:40	22-May-19	16:58	79.14	94.34	36.84	98.96	86.96	83.18
Final pH [no unit]	21-May-19	08:40	22-May-19	16:58	1.60	1.59	1.62	1.56	1.59	1.55
NP [t CaCO3/1000 t]	21-May-19	08:40	22-May-19	16:58	242	249	48.1	251	234	219
AP [t CaCO3/1000 t]	23-May-19	14:54	23-May-19	13:28	7.19	8.44	3.75	6.88	4.38	12.2
Net NP [t CaCO3/1000 t]	23-May-19	14:54	23-May-19	13:28	235	241	44.4	244	230	207
NP/AP [ratio]	23-May-19	14:54	23-May-19	13:28	33.7	29.5	12.8	36.6	53.5	18.0
Sulphur (total) [%]	21-May-19	15:09	23-May-19	13:28	0.265	0.342	0.214	0.272	0.176	0.581
Acid Leachable SO4-S [%]	23-May-19	14:53	23-May-19	13:28	0.04	0.07	0.09	0.05	0.04	0.19
Sulphide [%]	23-May-19	13:24	23-May-19	13:28	0.23	0.27	0.12	0.22	0.14	0.39
Carbon (total) [%]	21-May-19	15:09	22-May-19	13:54	3.28	3.47	0.649	3.60	3.34	3.24

Online LIMS

0001788842



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LR Report :

CA15480-APR19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAML117551- FW1-175-W-MV	6: CAML117552- FW1-150-W-MV	7: CAML117553- FW2-400-E-SED	8: CAML117554- RP3-400-169-M R	9: CAML117555- RP3-400-425-M V	10: CAML117556- FW3-375-E-SED
Carbonate [%]	22-May-19	13:51	22-May-19	13:54	14.1	13.8	1.33	14.6	14.0	13.4

Analysis	11: CAML117557- FW3-375-E-SED
Sample Date & Time	28-Mar-19
Paste pH [no unit]	8.40
Fizz Rate [no unit]	4
Sample weight [g]	2.01
HCl Added [mL]	182.00
HCl [Normality]	0.10
NaOH [Normality]	0.10
NaOH to pH=8.3 [mL]	89.04
Final pH [no unit]	1.55
NP [t CaCO3/1000 t]	231
AP [t CaCO3/1000 t]	10.0
Net NP [t CaCO3/1000 t]	221
NP/AP [ratio]	23.1
Sulphur (total) [%]	0.445
Acid Leachable SO4-S [%]	0.12
Sulphide [%]	0.32
Carbon (total) [%]	3.39
Carbonate [%]	14.4

*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.



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

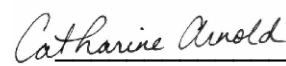
Phone: 705-652-2000 FAX: 705-652-6365

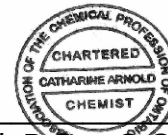
MEL

LR Report :

CA15480-APR19

No dates samples were provided so the date received has been entered as the date sampled as per the client.


Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety





SGS Canada Inc.

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Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

Meliadine

, Nunavut

X0C 0A0, Canada

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Fax:(819) 759-3663

MEL

Project : PO#676765

16-June-2019

Date Rec. : 27 May 2019

LR Report: CA15536-MAY19

Reference: ABA - Modified Sobek

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: CAML117558-CAML117559-DP1-150-152-M D	6: CAML117560-CAML117561-DP1-350-163-M V	7: CAML117562-CAML117563-DP1-400-169-M V	8: CAML117564-CAML117565-FW1-150-E-MV W	9: CAML117566-CAML117567-FW1-150-E-MV W	10: CAML117568-CAML117569-DP1-175-153-M V	11: CAML117570-CAML117571-DP1-175-153-M V
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Paste pH [no unit]	12-Jun-19	08:31	13-Jun-19	13:06	8.31	8.46	8.52	9.02	8.08	8.06	8.25
Fizz Rate [no unit]	12-Jun-19	08:31	13-Jun-19	13:06	4	4	4	4	4	4	4
Sample weight [g]	12-Jun-19	08:31	13-Jun-19	13:06	1.97	1.98	2.03	2.01	2.03	2.00	2.05
HCl_add [mL]	12-Jun-19	08:31	13-Jun-19	13:06	155.00	161.00	177.00	191.00	160.00	151.00	145.00
HCl [Normality]	12-Jun-19	08:31	13-Jun-19	13:06	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	12-Jun-19	08:31	13-Jun-19	13:06	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	12-Jun-19	08:31	13-Jun-19	13:06	42.13	56.31	67.87	86.71	54.28	40.63	61.22
Final pH [no unit]	12-Jun-19	08:31	13-Jun-19	13:06	1.75	1.70	1.58	1.57	1.64	1.74	1.60
NP [t CaCO3/1000 t]	12-Jun-19	08:31	13-Jun-19	13:06	286	264	269	259	260	276	204
AP [t CaCO3/1000 t]	14-Jun-19	17:22	14-Jun-19	17:22	8.44	6.25	4.38	10.3	2.81	3.44	18.4
Net NP [t CaCO3/1000 t]	14-Jun-19	17:22	14-Jun-19	17:22	278	258	264	249	258	272	186
NP/AP [ratio]	14-Jun-19	17:22	14-Jun-19	17:22	34.0	42.3	61.4	25.2	92.6	80.3	11.1
S [%]	13-Jun-19	09:37	14-Jun-19	17:22	0.268	0.202	0.156	0.325	0.087	0.127	0.636
Acid Leachable SO4-S [%]	14-Jun-19	17:22	14-Jun-19	17:22	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.05
Sulphide [%]	14-Jun-19	11:43	14-Jun-19	17:22	0.27	0.20	0.14	0.33	0.09	0.11	0.59
C [%]	13-Jun-19	09:37	14-Jun-19	08:14	3.55	3.40	3.55	3.68	3.12	3.36	2.83



SGS Canada Inc.

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MEL

Project : PO#676765

LR Report : CA15536-MAY19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561-CAMLM117562-CAMLM117563-CAMLM117564- FW1-400-W-SE DP1-150-152-M DP1-350-163-M DP1-400-169-M FW1-150-E-MV FW1-150-E-MV DP1-175-153-M	6: D	7: V	8: V	9: W	10:	11: V
CO3 [%]	13-Jun-19	14:12	14-Jun-19	08:14	16.0	15.2	16.6	15.9	14.8	15.7	10.6

*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

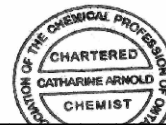
*Net NP (Net Neutralization Potential) = NP-AP

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.

Catharine Arnold



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



SGS Canada Inc.

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MEL

12-July-2019

Date Rec. : 25 June 2019

LR Report: CA15860-JUN19

Reference: ABA - Modified Sobek

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAML117565- DP2-400-137-SE D	6: CAML117566- DP1-275-149-SE D	7: CAML117567- RA1-275W-SED/ MV	8: CAML117568- DP2-375-136-SE D	9: CAML117569- DP2-375-129-SE D	10: CAML117570- DP2-375-129-SE D	11: CAML117571- DP1-225-158-MV D
Sample Date & Time					16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19
Paste pH [no unit]	08-Jul-19	08:53	09-Jul-19	16:52	8.06	8.72	8.19	8.51	8.52	8.42	8.41
Fizz Rate [no unit]	08-Jul-19	08:53	09-Jul-19	16:52	1	3	3	3	3	3	4
Sample weight [g]	08-Jul-19	08:53	09-Jul-19	16:52	2.04	1.96	1.99	1.95	1.99	2.04	1.97
HCl_add [mL]	08-Jul-19	08:53	09-Jul-19	16:52	20.00	28.00	117.00	45.00	48.00	44.00	90.00
HCl [Normality]	08-Jul-19	08:53	09-Jul-19	16:52	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	08-Jul-19	08:53	09-Jul-19	16:52	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	08-Jul-19	08:53	09-Jul-19	16:52	19.53	12.13	41.80	22.99	21.43	22.12	37.12
Final pH [no unit]	08-Jul-19	08:53	09-Jul-19	16:52	1.00	1.76	1.57	1.59	1.62	1.53	1.58
NP [t CaCO3/1000 t]	08-Jul-19	08:53	09-Jul-19	16:52	1.2	40.5	189	56.4	66.8	53.6	134
AP [t CaCO3/1000 t]	10-Jul-19	09:46	09-Jul-19	16:52	0.62	3.12	8.12	6.56	5.00	5.00	36.6
Net NP [t CaCO3/1000 t]	10-Jul-19	09:46	09-Jul-19	16:52	0.58	37.4	181	49.8	61.8	48.6	97.6
NP/AP [ratio]	10-Jul-19	09:46	09-Jul-19	16:52	1.94	13.0	23.2	8.59	13.4	10.7	3.67
S [%]	03-Jul-19	13:08	04-Jul-19	08:40	< 0.005	0.129	0.259	0.243	0.212	0.244	1.39
Acid Leachable SO4-S [%]	04-Jul-19	10:38	04-Jul-19	08:40	<0.02	0.03	< 0.02	0.03	0.05	0.08	0.22
Sulphide [%]	03-Jul-19	15:24	04-Jul-19	08:40	< 0.02	0.10	0.26	0.21	0.16	0.16	1.17
C [%]	03-Jul-19	13:08	03-Jul-19	15:32	0.011	0.556	2.33	0.791	0.875	0.781	1.93
CO3 [%]	03-Jul-19	15:30	03-Jul-19	15:32	< 0.025	1.77	9.74	3.02	2.08	1.51	6.35

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



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MEL

LR Report :

CA15860-JUN19

Weight of Sample

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

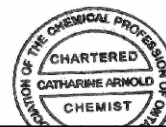
*Net NP (Net Neutralization Potential) = NP-AP

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.

Catharine Arnold



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

Meliadine,

Canada, X0C 0A0

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

MEL

07-October-2019

Date Rec. : 13 September 2019

LR Report: CA15235-SEP19

Reference: ABA - Modified Sobek

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: CAML116508- FW2-375E-LJ	6: CAML116509- DP1-425-127S- ED-LJ	7: CAML116510- DP1-425-127T- ED-LJ	8: CAML116511- FW2-425-E-SED	9: CAML116512- DP1-324-145- SE D/LJ	10: CAML116513- SC1-300E-MV	11: CAML116514- SC1-300E-MV
Sample Date & Time					20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19
Paste pH [no unit]	25-Sep-19	09:16	26-Sep-19	14:07	8.81	8.86	8.66	8.50	5.54	8.78	8.73
Fizz Rate [no unit]	25-Sep-19	09:16	26-Sep-19	14:07	4	4	4	4	4	4	4
Sample weight [g]	25-Sep-19	09:16	26-Sep-19	14:07	1.98	1.99	2.02	2.01	2.01	1.97	1.99
HCl_add [mL]	26-Sep-19	09:17	26-Sep-19	14:07	56.00	40.00	57.00	62.00	57.00	173.00	156.00
HCl [Normality]	25-Sep-19	09:16	26-Sep-19	14:07	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	25-Sep-19	09:16	26-Sep-19	14:07	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26-Sep-19	09:17	26-Sep-19	14:07	27.07	18.73	32.64	28.35	23.75	78.72	63.53
Final pH [no unit]	26-Sep-19	09:17	26-Sep-19	14:07	1.71	1.91	1.56	1.67	1.72	1.57	1.66
NP [t CaCO3/1000 t]	26-Sep-19	09:17	26-Sep-19	14:07	73.1	53.4	60.3	83.7	82.7	239	232
AP [t CaCO3/1000 t]	04-Oct-19	15:19	04-Oct-19	15:19	12.2	3.12	1.56	3.44	16.2	8.44	7.81
Net NP [t CaCO3/1000 t]	04-Oct-19	15:19	04-Oct-19	15:19	60.9	50.3	58.7	80.3	66.4	231	224
NP/AP [ratio]	04-Oct-19	15:19	04-Oct-19	15:19	6.00	17.1	38.6	24.3	5.09	28.4	29.7
S [%]	03-Oct-19	10:33	04-Oct-19	15:19	0.482	0.132	0.059	0.149	0.620	0.334	0.323
Acid Leachable SO4-S [%]	04-Oct-19	15:19	04-Oct-19	15:19	0.09	0.03	< 0.02	0.04	0.10	0.06	0.07
Sulphide [%]	04-Oct-19	14:48	04-Oct-19	15:19	0.39	0.10	0.05	0.11	0.52	0.27	0.25
C [%]	03-Oct-19	10:33	03-Oct-19	14:14	1.26	0.707	0.818	1.15	1.42	3.44	3.36
CO3 [%]	03-Oct-19	13:55	03-Oct-19	14:14	4.84	2.63	3.25	4.40	4.65	15.9	14.6

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



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MEL

LR Report :

CA15235-SEP19

Weight of Sample

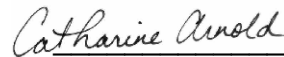
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.



Catharine Arnold, B.Sc., C.Chem
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MEL

Project : PO#676765

03-December-2019

Date Rec. : 16 August 2019

LR Report: CA15279-AUG19

Reference: ABA - Modified Sobek

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAML116515-DP1-425-127S- KSc/LJ	6: CAML116516-DP1-425-127T- KSc/LJ	7: CAML116517-DP3-357-127-K Sc	8: CAML116518-DP2-375-137-K Sc	9: CAML116519-DP1-400-167-M V	10: CAML116520-DP1-400-171-M V	11: CAML116521-DP1-400-171-M V
Sample Date & Time					12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19
Paste pH [no unit]	04-Sep-19	10:10	06-Sep-19	11:37	8.34	8.29	9.31	8.84	8.49	9.18	9.18
Fizz Rate [no unit]	04-Sep-19	10:10	06-Sep-19	11:37	3	3	1	2	3	3	3
Sample weight [g]	04-Sep-19	10:10	06-Sep-19	11:37	1.96	2.01	1.97	1.96	1.96	2.01	2.01
HCl_add [mL]	05-Sep-19	07:48	06-Sep-19	11:37	66.00	56.00	33.00	47.50	183.00	138.00	177.10
HCl [Normality]	04-Sep-19	10:10	06-Sep-19	11:37	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	04-Sep-19	10:10	06-Sep-19	11:37	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	05-Sep-19	07:48	06-Sep-19	11:37	31.80	26.16	18.91	27.20	82.14	38.57	78.77
Final pH [no unit]	05-Sep-19	07:48	06-Sep-19	11:37	1.68	1.87	1.66	1.66	1.52	1.92	1.57
NP [t CaCO3/1000 t]	05-Sep-19	07:48	06-Sep-19	11:37	87.2	74.2	35.8	51.8	257	247	245
AP [t CaCO3/1000 t]	06-Sep-19	11:37	06-Sep-19	11:37	8.13	8.44	4.06	3.44	6.25	5.63	4.06
Net NP [t CaCO3/1000 t]	06-Sep-19	11:37	06-Sep-19	11:37	79.1	65.8	31.7	48.4	251	242	241
NP/AP [ratio]	06-Sep-19	11:37	06-Sep-19	11:37	10.7	8.79	8.81	15.1	41.2	44.0	60.2
S [%]	05-Sep-19	13:16	06-Sep-19	11:45	0.410	0.411	0.188	0.133	0.262	0.247	0.219
Acid Leachable SO4-S [%]	06-Sep-19	11:37	06-Sep-19	11:45	0.15	0.14	0.06	0.02	0.06	0.07	0.09
Sulphide [%]	06-Sep-19	10:38	06-Sep-19	11:45	0.26	0.27	0.13	0.11	0.20	0.18	0.13
C [%]	05-Sep-19	13:16	06-Sep-19	11:42	1.22	1.02	0.484	0.714	3.31	3.19	3.31
CO3 [%]	05-Sep-19	15:59	06-Sep-19	11:42	3.60	2.92	1.60	2.23	14.6	14.0	13.9

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



MEL

SGS Canada Inc.

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29-November-2019

Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

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 Canada, X0C 0A0
 Phone: (819) 759-3555, Fax:(819) 759-3663

Date Rec. : 16 September 2019
LR Report: CA15243-SEP19
Reference: ABA - Modified Sobek

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLM12802 6-DP1-375-16 3-KSC	6: CAMLM12802 7-DP1-375-16 3-KSC	7: CAMLM12802 8-DP3-375-12 7-KSC
Sample Date & Time					11-Sep-19	11-Sep-19	11-Sep-19
Paste pH [no unit]	03-Oct-19	09:24	04-Oct-19	14:38	8.88	8.80	9.42
Fizz Rate [no unit]	03-Oct-19	09:24	04-Oct-19	14:38	3	3	3
Sample weight [g]	03-Oct-19	09:24	04-Oct-19	14:38	2.02	2.02	1.98
HCl_add [mL]	03-Oct-19	09:24	04-Oct-19	14:38	42.50	37.50	31.00
HCl [Normality]	03-Oct-19	09:24	04-Oct-19	14:38	0.10	0.10	0.10
NaOH [Normality]	03-Oct-19	09:24	04-Oct-19	14:38	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	03-Oct-19	09:24	04-Oct-19	14:38	22.56	22.59	17.28
Final pH [no unit]	03-Oct-19	09:24	04-Oct-19	14:38	1.60	1.52	1.55
NP [t CaCO3/1000 t]	03-Oct-19	09:24	04-Oct-19	14:38	49.3	36.9	34.7
AP [t CaCO3/1000 t]	04-Oct-19	15:19	04-Oct-19	15:19	4.69	3.75	2.50
Net NP [t CaCO3/1000 t]	04-Oct-19	15:19	04-Oct-19	15:19	44.6	33.2	32.2
NP/AP [ratio]	04-Oct-19	15:19	04-Oct-19	15:19	10.5	9.84	13.9
S [%]	03-Oct-19	10:33	04-Oct-19	15:19	0.222	0.211	0.131
Acid Leachable SO4-S [%]	04-Oct-19	15:19	04-Oct-19	15:19	0.07	0.09	0.05
Sulphide [%]	04-Oct-19	14:48	04-Oct-19	15:19	0.15	0.12	0.08
C [%]	03-Oct-19	10:33	03-Oct-19	14:14	0.679	0.529	0.467
CO3 [%]	03-Oct-19	13:55	03-Oct-19	14:14	0.060	2.39	2.10
CO3 [%]	26-Nov-19	15:33	27-Nov-19	12:13	2.56	1.96	1.85

Analysis	8: CAMLM12802 9-DP2-400-13 7-KSC	9: CAMLM12803 0-DP2-400-13 9-KSC	10: CAMLM12803 1-FW2-350-W- KSC	11: CAMLM12803 2-DP1-275-14 8-KSC
Sample Date & Time	11-Sep-19	11-Sep-19	11-Sep-19	11-Sep-19
Paste pH [no unit]	8.91	8.83	8.55	8.28

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LR Report : CA15243-SEP19

Analysis	8: CAMLM12802 9-DP2-400-13 7-KSC	9: CAMLM12803 0-DP2-400-13 9-KSC	10: CAMLM12803 1-FW2-350-W- KSC	11: CAMLM12803 2-DP1-275-14 8-KSC
Fizz Rate [no unit]	3	3	3	3
Sample weight [g]	2.02	2.00	2.02	1.98
HCl_add [mL]	42.00	39.00	51.00	73.00
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]	22.83	21.91	24.97	22.26
Final pH [no unit]	1.58	1.54	1.72	1.79
NP [t CaCO ₃ /1000 t]	47.4	42.7	64.4	128
AP [t CaCO ₃ /1000 t]	2.81	2.50	3.12	9.69
Net NP [t CaCO ₃ /1000 t]	44.6	40.2	61.3	118
NP/AP [ratio]	16.9	17.1	20.6	13.2
S [%]	0.178	0.121	0.145	0.440
Acid Leachable SO ₄ -S [%]	0.09	0.04	0.04	0.13
Sulphide [%]	0.09	0.08	0.10	0.31
C [%]	0.606	0.540	0.930	1.67
CO ₃ [%]	1.74	2.41	3.12	6.44
CO ₃ [%]	2.22	1.95	3.22	6.37

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)

Weight of Sample

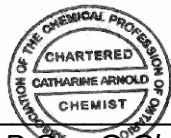
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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MEL

Project : PO#676765

LR Report : CA15279-AUG19

Weight of Sample

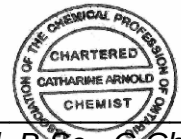
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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MEL

15-November-2019

Date Rec. : 15 October 2019

LR Report: CA15309-OCT19

Reference: ABA - Modified Sobek

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: CAML128033- DP1-275-148-KS C	6: CAML128034- DP2-325-150-KS C	7: CAML128035- DP2-325-152-KS C	8: CAML128036- FW3-400-E-KS C	9: CAML128037- DP2-400-140-KS C	10: CAML128038- FW2-350-W-KS C/IF	11: CAML128039- FW2-350-W-KS C/IF S-DUP
Sample Date & Time					10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19
Paste pH [no unit]	06-Nov-19	09:54	08-Nov-19	13:09	8.65	8.68	9.04	8.65	8.80	8.20	8.45
Fizz Rate [no unit]	06-Nov-19	09:54	08-Nov-19	13:09	4	4	4	4	2	4	4
Sample weight [g]	06-Nov-19	09:54	08-Nov-19	13:09	2.00	2.02	2.01	1.99	2.00	2.04	2.00
HCl_add [mL]	07-Nov-19	07:35	08-Nov-19	13:09	40.00	64.00	64.00	40.00	30.00	65.00	65.00
HCl [Normality]	06-Nov-19	09:54	08-Nov-19	13:09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	06-Nov-19	09:54	08-Nov-19	13:09	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	07-Nov-19	10:07	08-Nov-19	13:09	19.31	28.70	32.39	18.26	16.01	28.99	30.11
Final pH [no unit]	07-Nov-19	10:07	08-Nov-19	13:09	1.55	1.68	1.52	1.61	1.50	1.66	1.64
NP [t CaCO3/1000 t]	07-Nov-19	10:07	08-Nov-19	13:09	51.7	87.4	78.6	54.6	35.0	88.3	87.2
AP [t CaCO3/1000 t]	08-Nov-19	13:08	08-Nov-19	13:09	2.81	2.81	0.94	0.94	0.94	22.2	22.8
Net NP [t CaCO3/1000 t]	08-Nov-19	13:08	08-Nov-19	13:09	48.9	84.6	77.7	53.7	34.1	66.1	64.4
NP/AP [ratio]	08-Nov-19	13:08	08-Nov-19	13:09	18.4	31.1	83.8	58.2	37.3	3.98	3.82
S [%]	04-Nov-19	13:03	05-Nov-19	16:33	0.227	0.116	0.048	0.044	0.064	0.808	0.822
Acid Leachable SO4-S [%]	05-Nov-19	16:33	05-Nov-19	16:33	0.14	0.03	< 0.02	< 0.02	0.03	0.10	0.09
Sulphide [%]	05-Nov-19	16:02	05-Nov-19	16:33	0.09	0.09	0.03	0.03	0.03	0.71	0.73
C [%]	04-Nov-19	13:03	05-Nov-19	09:12	0.777	1.20	1.02	0.706	0.416	1.30	1.29
CO3 [%]	05-Nov-19	08:32	05-Nov-19	09:12	2.15	5.44	4.70	3.01	1.57	4.32	4.35

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



SGS Canada Inc.

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MEL

LR Report :

CA15309-OCT19

Weight of Sample

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

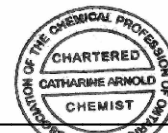
*Net NP (Net Neutralization Potential) = NP-AP

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.

Catharine Arnold



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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MEL

26-November-2019

Date Rec. : 11 November 2019

LR Report: CA15188-NOV19

Reference: ABA - Modified Sobek

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAML118651- FW2-400-141-K Sc	6: CAML118652- DP2-425-136-K c	7: CAML118653- DP2-350-141-K C/IF	8: CAML118654- DP2-350-142-K c	9: CAML118655- PL1-175-158-MV	10: CAML118656- PL1-150-W-MV	11: CAML118657- PL1-150-W-MV SDUP
Sample Date & Time					N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paste pH [no unit]	18-Nov-19	09:38	19-Nov-19	14:46	8.77	8.40	8.36	8.59	8.22	8.34	8.35
Fizz Rate [no unit]	18-Nov-19	09:38	19-Nov-19	14:46	2	3	3	3	3	3	3
Sample weight [g]	18-Nov-19	09:38	19-Nov-19	14:46	2.01	2.00	2.00	2.04	2.01	2.04	2.00
HCl_add [mL]	19-Nov-19	07:33	19-Nov-19	14:46	38.50	30.50	43.50	43.00	108.00	141.00	147.50
HCl [Normality]	18-Nov-19	09:38	19-Nov-19	14:46	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	18-Nov-19	09:38	19-Nov-19	14:46	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	19-Nov-19	10:17	19-Nov-19	14:46	15.34	13.69	22.11	23.52	46.08	56.19	57.35
Final pH [no unit]	19-Nov-19	10:17	19-Nov-19	14:46	1.58	1.78	1.69	1.57	1.53	1.55	1.52
NP [t CaCO3/1000 t]	19-Nov-19	10:17	19-Nov-19	14:46	57.6	42.0	53.5	47.8	154	208	225
AP [t CaCO3/1000 t]	19-Nov-19	15:31	19-Nov-19	15:28	0.62	1.25	3.44	12.5	57.5	1.88	1.56
Net NP [t CaCO3/1000 t]	19-Nov-19	15:31	19-Nov-19	15:28	57.0	40.8	50.1	35.3	96.5	206	224
NP/AP [ratio]	19-Nov-19	15:31	19-Nov-19	15:28	92.2	33.6	15.6	3.82	2.68	111	144
S [%]	15-Nov-19	11:09	19-Nov-19	15:28	0.053	0.067	0.148	0.406	2.22	0.105	0.076
Acid Leachable SO4-S [%]	19-Nov-19	15:31	19-Nov-19	15:28	0.03	0.03	0.04	< 0.02	0.38	0.04	0.03
Sulphide [%]	19-Nov-19	14:29	19-Nov-19	15:28	0.02	0.04	0.11	0.40	1.84	0.06	0.05
C [%]	15-Nov-19	11:09	19-Nov-19	15:15	0.723	0.557	0.890	0.811	2.17	2.63	2.88
CO3 [%]	18-Nov-19	15:19	19-Nov-19	15:15	2.99	1.97	3.43	2.83	8.32	11.8	13.2

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - K0L 2H0

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

MEL

LR Report :

CA15188-NOV19

Weight of Sample

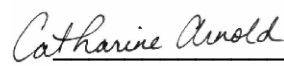
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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Agnico Eagle Mines Limited

Attn : Dan Gorton/Sean Arruda

Meliadine,

Canada, X0C 0A0

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

MEL

31-December-2019

Date Rec. : 13 December 2019

LR Report: CA15237-DEC19

Reference: ABA - Modified Sobek

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: CAMLM118658-FW1-150W-MV	6: CAMLM118659-DP2-375-134-K SC	7: CAMLM118660-DP3-375-146-K SC	8: CAMLM118661-FW2-350-W-KS C/LJ	9: CAMLM118662-DP3-375-138-K SC/LJ	10: CAMLM118663-DP1-175-147-M V	11: CAMLM118664-DP1-175-147-M V
Sample Date & Time					07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19
Paste pH [no unit]	23-Dec-19	09:23	28-Dec-19	08:22	8.74	8.69	8.71	8.71	8.78	8.60	8.63
Fizz Rate [no unit]	23-Dec-19	09:23	28-Dec-19	08:22	2	1	2	2	2	2	2
Sample weight [g]	23-Dec-19	09:23	28-Dec-19	08:22	2.05	2.00	2.01	2.00	2.04	2.02	2.02
HCl_add [mL]	24-Dec-19	10:03	28-Dec-19	08:22	255.00	28.50	46.50	30.50	41.00	178.00	176.50
HCl [Normality]	23-Dec-19	09:23	28-Dec-19	08:22	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	23-Dec-19	09:23	28-Dec-19	08:22	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	24-Dec-19	01:30	28-Dec-19	08:22	102	13.28	17.59	10.93	18.28	70.22	69.65
Final pH [no unit]	24-Dec-19	10:03	28-Dec-19	08:22	1.56	1.85	1.81	2.00	1.65	1.57	1.58
NP [t CaCO3/1000 t]	24-Dec-19	01:30	28-Dec-19	08:22	372	38.0	71.9	48.9	55.7	267	264
AP [t CaCO3/1000 t]	30-Dec-19	09:27	28-Dec-19	08:22	4.38	3.44	1.56	3.44	2.81	13.1	11.9
Net NP [t CaCO3/1000 t]	30-Dec-19	09:28	28-Dec-19	08:22	368	34.6	70.3	45.5	52.9	254	253
NP/AP [ratio]	30-Dec-19	09:28	28-Dec-19	08:22	85.1	11.1	46.0	14.2	19.8	20.3	22.3
S [%]	18-Dec-19	15:29	19-Dec-19	13:20	0.135	0.136	0.072	0.263	0.170	0.430	0.394
Acid Leachable SO4-S [%]	19-Dec-19	13:40	19-Dec-19	13:20	< 0.02	0.03	0.02	0.15	0.08	< 0.02	< 0.02
Sulphide [%]	19-Dec-19	13:17	19-Dec-19	13:20	0.14	0.11	0.05	0.11	0.09	0.42	0.38
C [%]	18-Dec-19	15:29	19-Dec-19	13:20	4.96	0.528	1.00	0.690	0.781	3.39	3.37
CO3 [%]	19-Dec-19	09:03	19-Dec-19	13:20	22.0	1.95	3.32	2.23	2.77	15.3	14.8

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



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Lakefield - Ontario - K0L 2H0

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MEL

LR Report :

CA15237-DEC19

Weight of Sample

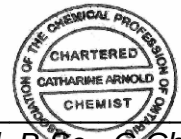
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

APPENDIX B: WASTE ROCK COMPOSITION DATA



SGS Canada Inc.

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Agnico Eagle Mines Limited

Attn : Eric Marcil

Meadowbank Division 20, Route 395

Cadillac, QC

J0Y 1C0, Canada

Phone: (819) 759-3644

Fax: (819) 759-3663

Project : PO#OL-676765

25-January-2019

Date Rec. : 14 January 2019

LR Report: CA15161-JAN19

Reference: PO#OL-676765

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: CAMLM116501- RP1-425-450-M V	6: CAMLM11650-R P3-375-400-MV	7: CAMLM116503- FW1-375-W-MVDP1-175-157-KS	8: CAMLM116504- FW1-325-W-KS C	9: CAMLM116505- DP1-325-163-M C	10: CAMLM116506- DP1-325-163-M V	11: CAMLM116506- DP1-325-163-M V S-DUP
Silver [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Aluminum [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	62000	64000	67000	71000	48000	59000	66000
Arsenic [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	45	680	16	570	91	96	160
Barium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	100	96	88	540	680	120	130
Beryllium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	0.42	0.52	0.30	1.2	1.5	0.45	0.53
Bismuth [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	< 0.09	< 0.09	< 0.09	0.18	0.36	< 0.09	0.099
Calcium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	83000	81000	95000	23000	29000	110000	90000
Cadmium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	0.35	0.27	0.14	0.11	0.14	0.25	0.21
Cobalt [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	47	46	47	12	9.3	53	62
Chromium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	160	110	140	33	42	110	110
Copper [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	100	84	110	22	24	140	140
Iron [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	80000	68000	73000	64000	160000	69000	76000
Potassium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	5700	9200	3500	16000	9900	7300	7800
Lithium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	42	33	55	24	21	36	38
Magnesium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	33000	21000	24000	8800	8600	18000	19000
Manganese [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	1600	2000	2000	320	360	2200	2000
Molybdenum [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	0.32	0.21	0.25	0.77	2.7	0.33	0.22
Sodium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	21000	18000	20000	26000	7300	14000	17000
Nickel [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	120	120	120	25	23	100	110



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

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

Project : PO#OL-676765

LR Report : CA15161-JAN19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM116501- RP1-425-450-M V	6: CAMLM11650-R P3-375-400-MV	7: CAMLM116503- FW1-375-W-MVDP1-175-157-KS	8: CAMLM116504- FW1-325-W-KS C	9: CAMLM116505- DP1-325-163-M C	10: CAMLM116506- DP1-325-163-M V	11: CAMLM116506- DP1-325-163-M V S-DUP
Phosphorus [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	230	230	260	390	670	230	270
Lead [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	24	21	11	39	59	9.1	10
Antimony [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	140	130	110	280	480	150	160
Titanium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	2800	4400	3900	2100	1600	4400	5100
Thallium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	0.23	0.35	0.19	0.43	0.27	0.36	0.39
Uranium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	0.089	0.087	0.068	1.2	1.0	0.20	0.11
Vanadium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	230	260	240	52	78	240	270
Yttrium [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	6.3	6.0	16	5.1	7.0	11	9.5
Zinc [µg/g]	23-Jan-19	13:46	24-Jan-19	10:42	100	110	100	68	59	93	110

Sample IDs taken from bags. List was not provided.

Chris Sullivan

Chris Sullivan, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety





SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

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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

MEL

09-May-2019

Date Rec. : 30 April 2019

LR Report: CA15481-APR19

Copy: #1

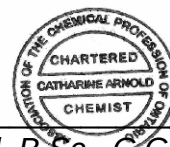
CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM117551- FW1-175-W-MV	6: CAMLM117552- FW1-150-W-MV	7: CAMLM117553- FW2-400-E-SED	8: CAMLM117554- RP3-400-169-M R	9: CAMLM117555- RP3-400-425-M V	10: CAMLM117556- FW3-375-E-SED	11: CAMLM117557- FW3-375-E-SED
Sample Date & Time					28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19
Ag [µg/g]	08-May-19	15:40	09-May-19	09:40	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	08-May-19	15:40	09-May-19	09:40	59000	54000	71000	58000	61000	56000	63000
As [µg/g]	08-May-19	15:40	09-May-19	09:40	210	1500	520	860	200	880	1100
Ba [µg/g]	08-May-19	15:40	09-May-19	09:40	230	110	680	110	110	100	110
Be [µg/g]	08-May-19	15:40	09-May-19	09:40	0.36	0.56	1.1	0.44	0.40	0.41	0.44
Bi [µg/g]	08-May-19	15:40	09-May-19	09:40	< 0.09	< 0.09	0.14	0.11	< 0.09	< 0.09	< 0.09
Ca [µg/g]	08-May-19	15:40	09-May-19	09:40	79000	87000	13000	89000	80000	81000	81000
Cd [µg/g]	08-May-19	15:40	09-May-19	09:40	0.12	0.19	0.12	0.21	0.18	0.19	0.16
Co [µg/g]	08-May-19	15:40	09-May-19	09:40	51	44	20	47	52	47	50
Cr [µg/g]	08-May-19	15:40	09-May-19	09:40	150	95	180	97	210	93	210
Cu [µg/g]	08-May-19	15:40	09-May-19	09:40	110	97	44	130	130	120	110
Fe [µg/g]	08-May-19	15:40	09-May-19	09:40	71000	72000	57000	73000	78000	67000	74000
K [µg/g]	08-May-19	15:40	09-May-19	09:40	7300	7800	22000	8900	10000	7300	8500
Li [µg/g]	08-May-19	15:40	09-May-19	09:40	39	29	25	32	35	32	37
Mg [µg/g]	08-May-19	15:40	09-May-19	09:40	23000	21000	14000	23000	28000	17000	20000
Mn [µg/g]	08-May-19	15:40	09-May-19	09:40	1900	2000	390	2000	1700	1900	2000
Mo [µg/g]	08-May-19	15:40	09-May-19	09:40	0.29	0.39	1.7	0.35	0.31	0.72	0.47
Na [µg/g]	08-May-19	15:40	09-May-19	09:40	16000	17000	15000	15000	14000	15000	15000
Ni [µg/g]	08-May-19	15:40	09-May-19	09:40	120	120	70	120	140	100	130
P [µg/g]	08-May-19	15:40	09-May-19	09:40	220	240	470	230	230	240	270

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM117551- FW1-175-W-MV	6: CAMLM117552- FW1-150-W-MV	7: CAMLM117553- FW2-400-E-SED	8: CAMLM117554- RP3-400-169-M R	9: CAMLM117555- RP3-400-425-M V	10: CAMLM117556- FW3-375-E-SED	11: CAMLM117557- FW3-375-E-SED
Pb [µg/g]	08-May-19	15:40	09-May-19	09:40	12	45	17	14	13	10	12
Sb [µg/g]	08-May-19	15:40	09-May-19	09:40	< 0.8	0.97	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	08-May-19	15:40	09-May-19	09:40	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	08-May-19	15:40	09-May-19	09:40	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	08-May-19	15:40	09-May-19	09:40	140	170	230	130	140	120	140
Ti [µg/g]	08-May-19	15:40	09-May-19	09:40	3000	3800	3100	3900	4200	3500	3600
Tl [µg/g]	08-May-19	15:40	09-May-19	09:40	0.29	0.30	0.51	0.26	0.29	0.27	0.33
U [µg/g]	08-May-19	15:40	09-May-19	09:40	0.091	0.15	1.6	0.10	0.065	0.11	0.13
V [µg/g]	08-May-19	15:40	09-May-19	09:40	230	220	110	240	260	220	250
Y [µg/g]	08-May-19	15:40	09-May-19	09:40	6.1	8.6	7.4	6.9	8.7	8.1	7.4
Zn [µg/g]	08-May-19	15:40	09-May-19	09:40	82	83	81	97	95	77	92

Chromium may not recover completely depending on sample matrix.

Catharine Arnold

 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety



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Attn : Meliadine Coordinator

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Canada, X0C 0A0

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

MEL

28-March-2019

Date Rec. : 05 March 2019
LR Report: CA15068-MAR19

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: CAML106701- RP3-400-425-M V	6: CAML106702- FW1-375-W-SE D	7: CAML106703- FW1-275-W-SE D	8: CAML106704- FW1-175-W-MV DP-1-175-162-M V	9: CAML106705- FW1-150-W-MV V	10: CAML106706- FW1-150-W-MV S-DUP	11: CAML106707- FW1-150-W-MV S-DUP
Sample Date & Time					05-Mar-19	05-Mar-19	05-Mar-19	05-Mar-19	05-Mar-19	05-Mar-19	05-Mar-19
Ag [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	72000	74000	72000	69000	66000	73000	66000
As [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	140	330	240	1200	33	56	47
Ba [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	66	160	260	410	450	30	31
Be [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	0.46	0.50	0.61	0.47	0.39	0.31	0.33
Bi [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	< 0.09	0.11	0.18	< 0.09	< 0.09	< 0.09	< 0.09
Ca [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	81000	77000	69000	68000	76000	75000	73000
Cd [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	0.17	0.17	0.19	0.23	0.14	0.097	0.12
Co [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	55	51	46	44	50	50	50
Cr [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	150	180	140	150	120	110	120
Cu [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	170	120	100	76	120	92	120
Fe [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	80000	74000	67000	78000	78000	80000	73000
K [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	4400	8800	11000	7200	5100	3100	3300
Li [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	39	38	33	40	46	39	34
Mg [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	25000	25000	22000	25000	26000	21000	18000
Mn [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	1900	1800	1500	1700	1800	1800	1800
Mo [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	0.28	1.3	0.68	0.82	0.21	0.15	0.21
Na [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	23000	19000	20000	17000	13000	20000	17000
Ni [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	150	120	100	110	120	110	100



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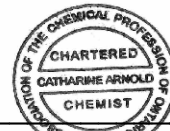
MEL

LR Report :

CA15068-MAR19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM106701- RP3-400-425-M V	6: CAMLM106702- FW1-375-W-SE D	7: CAMLM106703- FW1-275-W-SE D	8: CAMLM106704- FW1-175-W-MV DP-1-175-162-M V	9: CAMLM106705- FW1-150-W-MV FW1-150-W-MV S-DUP	10: CAMLM106706- FW1-150-W-MV FW1-150-W-MV S-DUP	11: CAMLM106707- FW1-150-W-MV FW1-150-W-MV S-DUP
P [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	220	290	320	300	230	290	260
Pb [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	7.0	18	18	16	12	3.8	4.6
Sb [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	1.1	< 0.8	< 0.8	0.94	< 0.8	< 0.8	< 0.8
Se [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	0.72
Sn [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	140	140	260	180	160	120	130
Ti [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	4500	3800	3600	3900	3600	4800	4500
Tl [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	0.15	0.27	0.31	0.25	0.21	0.11	0.13
U [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	0.12	0.18	0.36	0.22	0.066	0.080	0.061
V [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	280	240	220	260	260	290	260
Y [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	11	11	9.5	8.5	7.1	10	9.3
Zn [µg/g]	18-Mar-19	17:16	19-Mar-19	10:39	110	130	95	110	100	99	85

No dates sampled were provided so the date received has been entered as the date sampled as per the client.

Catharine Arnold

 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety



MEL

SGS Canada Inc.

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26-April-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Date Rec. : 03 April 2019
LR Report: CA14158-APR19

Baker Lake,
Canada, X0C 0A0
Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Approval Date	4: Analysis Approval Time	5: CAMLM106708- FW1-275W-SED	6: CAMLM106709- FW1-325W-SED	7: CAMLM106710- FW1-325W-SED	8: CAMLM106711- FW1-325W-SED	9: CAMLM106712- FW1-400-425MV DUP
Sample Date & Time					28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19	28-Mar-19
Ag [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	74000	48000	63000	65000	65000
As [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	760	51	440	900	62
Ba [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	1000	420	120	150	16
Be [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	1.3	0.83	0.47	0.60	0.33
Bi [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	0.36	0.28	0.30	0.27	0.56
Ca [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	18000	23000	79000	76000	92000
Cd [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	0.12	< 0.02	0.23	0.23	0.060
Co [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	26	8.8	58	46	50
Cr [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	92	34	120	130	220
Cu [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	52	26	150	110	130
Fe [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	81000	160000	87000	79000	80000
K [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	19000	7900	10000	12000	750
Li [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	21	19	31	30	17
Mg [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	14000	9700	19000	19000	32000
Mn [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	470	370	2500	2300	1400
Mo [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	1.8	5.0	0.49	0.60	0.51
Na [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	18000	3900	15000	15000	13000
Ni [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	66	19	100	110	110
P [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	690	780	230	260	190
Pb [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	50	4.1	13	13	4.1
Sb [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	< 0.8	< 0.8	< 0.8	< 0.8	2.0
Se [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	260	220	140	150	230
Ti [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	3000	1600	4400	4700	4400
Tl [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	0.41	0.18	0.35	0.42	< 0.02
U [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	1.4	1.0	0.078	0.10	0.094
V [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	110	40	250	250	240
Y [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	8.9	7.7	8.2	8.1	15
Zn [µg/g]	16-Apr-19	16:22	17-Apr-19	16:02	110	59	140	130	66

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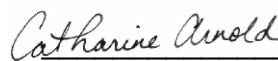
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Lakefield - Ontario - KOL 2H0

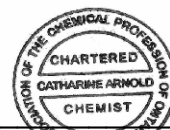
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA14158-APR19

Analysis	10: CAMLM106712- FW1-150W-MV	11: CAMLM106713- FW1-175W-MV	12: CAMLM106714- FW2-400E-SED
Sample Date & Time	28-Mar-19	28-Mar-19	28-Mar-19
Ag [µg/g]	< 1	< 1	< 1
Al [µg/g]	65000	62000	45000
As [µg/g]	53	140	280
Ba [µg/g]	120	190	820
Be [µg/g]	0.37	0.47	0.88
Bi [µg/g]	0.15	0.12	0.32
Ca [µg/g]	79000	70000	26000
Cd [µg/g]	0.070	0.11	0.053
Co [µg/g]	54	46	10
Cr [µg/g]	100	100	40
Cu [µg/g]	86	65	13
Fe [µg/g]	78000	61000	150000
K [µg/g]	6500	7400	8100
Li [µg/g]	45	34	22
Mg [µg/g]	21000	20000	9700
Mn [µg/g]	2000	1700	420
Mo [µg/g]	0.30	0.43	1.3
Na [µg/g]	11000	17000	8800
Ni [µg/g]	100	97	26
P [µg/g]	270	260	650
Pb [µg/g]	4.4	8.7	44
Sb [µg/g]	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6
Sr [µg/g]	110	170	390
Ti [µg/g]	3700	2900	2000
Tl [µg/g]	0.30	0.30	0.21
U [µg/g]	0.068	0.22	1.2
V [µg/g]	260	200	47
Y [µg/g]	11	6.3	7.5
Zn [µg/g]	100	80	64



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Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

Meliadine

, Nunavut

X0C 0A0, Canada

Phone: (819) 759-3555

Fax:(819) 759-3663

MEL

Project : PO#676765

16-June-2019

Date Rec. : 27 May 2019

LR Report: CA15537-MAY19

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: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- FW1-400-W-SE DP1-150-152-M D	6: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- DP1-150-152-M V	7: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- DP1-350-163-M V	8: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- DP1-400-169-M W	9: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- FW1-150-E-MV	10: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- FW1-150-E-MV DP1-175-153-M	11: Analysis CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561- V
Sample Date & Time					NA	NA	NA	NA	NA	NA	NA
Ag [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	60000	66000	61000	57000	57000	56000	65000
As [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	54	160	190	2300	7.0	6.4	5900
Ba [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	90	140	85	120	62	69	560
Be [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	0.43	0.47	0.33	0.80	0.30	0.29	1.1
Bi [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	0.14
Ca [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	110000	88000	94000	82000	100000	110000	68000
Cd [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	0.20	0.21	0.096	0.18	0.13	0.15	0.20
Co [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	60	73	45	44	50	49	45
Cr [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	120	180	170	130	160	160	200
Cu [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	160	160	100	91	120	140	88
Fe [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	70000	64000	66000	61000	74000	74000	78000
K [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	7300	6500	6900	13000	3200	3600	16000
Li [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	47	52	53	30	53	52	40
Mg [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	17000	26000	23000	19000	25000	25000	19000
Mn [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	2500	1700	1700	1900	2300	2400	1600
Mo [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	0.31	1.5	0.26	0.94	0.26	0.26	2.6



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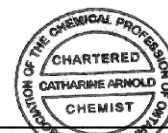
Project : PO#676765

LR Report : CA15537-MAY19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM117558-CAMLM117559-CAMLM117560-CAMLM117561-CAMLM117562-CAMLM117563-CAMLM117564-FW1-400-W-SE DP1-150-152-M DP1-350-163-M DP1-400-169-M	6: FW1-400-W-SE DP1-150-152-M DP1-350-163-M DP1-400-169-M	7: FW1-400-W-SE DP1-150-152-M DP1-350-163-M DP1-400-169-M	8: FW1-400-W-SE DP1-150-152-M DP1-350-163-M DP1-400-169-M	9: FW1-150-E-MV FW1-150-E-MV DP1-175-153-M	10: FW1-150-E-MV FW1-150-E-MV DP1-175-153-M	11: FW1-150-E-MV FW1-150-E-MV DP1-175-153-M
					D	V	V	W			V
Na [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	15000	15000	14000	14000	17000	16000	9100
Ni [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	110	130	110	100	140	130	100
P [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	270	260	260	230	190	190	360
Pb [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	7.9	25	5.7	13	9.0	9.1	19
Sb [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	0.81	< 0.8	< 0.8	1.2	< 0.8	< 0.8	2.1
Se [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	150	140	170	140	130	130	170
Ti [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	4700	1900	3400	3600	3400	3200	3500
Tl [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	0.26	0.25	0.33	0.44	0.12	0.14	0.59
U [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	0.16	0.17	0.084	0.077	0.12	0.11	0.54
V [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	260	250	230	220	240	230	210
Y [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	15	7.1	8.3	7.9	12	12	9.1
Zn [µg/g]	11-Jun-19	21:00	12-Jun-19	10:20	100	97	100	95	92	88	120

Sample IDs taken from bags. List was not provided.
Chromium may not recover completely depending on sample matrix.

Catharine Arnold
Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety





SGS Canada Inc.

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MEL

12-July-2019

Date Rec. : 25 June 2019

LR Report: CA15861-JUN19

Copy: #1

CERTIFICATE OF ANALYSIS

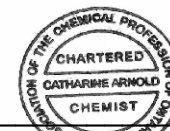
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML117565- DP2-400-137-SE D	6: CAML117566- DP1-275-149-SE D	7: CAML117567- RA1-275W-SED/ MV	8: CAML117568- DP2-375-136-SE D	9: CAML117569- DP2-375-129-SE D	10: CAML117570- DP2-375-129-SE D	11: CAML117571- DP1-225-158-MV D
Sample Date & Time					16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19	16-Jun-19
Ag [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	50000	75000	62000	59000	69000	68000	58000
As [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	4.1	140	210	97	640	930	970
Ba [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	34	490	1300	430	630	640	290
Be [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	2.7	1.2	0.88	0.98	1.3	1.3	0.85
Bi [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	0.23	0.13	0.17	0.12	0.34	0.28	0.26
Ca [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	3600	14000	76000	20000	19000	15000	42000
Cd [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	0.059	0.093	0.17	0.066	0.18	0.15	0.36
Co [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	0.40	16	41	12	22	23	37
Cr [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	40	74	140	44	100	93	110
Cu [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	8.9	35	90	71	50	67	130
Fe [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	5600	63000	72000	94000	53000	48000	82000
K [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	35000	18000	7800	11000	20000	21000	13000
Li [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	17	31	50	25	28	26	39
Mg [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	410	12000	20000	9100	15000	13000	17000
Mn [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	240	320	1800	370	440	380	1000
Mo [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	5.3	1.2	0.66	0.92	1.6	2.2	1.3
Na [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	20000	21000	15000	17000	17000	19000	12000
Ni [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	1.8	47	94	31	73	71	78
P [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	22	480	460	560	500	510	560

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML117565- DP2-400-137-SE D	6: CAML117566- DP1-275-149-SE D	7: CAML117567- RA1-275W-SED/ MV	8: CAML117568- DP2-375-136-SE D	9: CAML117569- DP2-375-129-SE D	10: CAML117570- DP2-375-129-SE D	11: CAML117571- DP1-225-158-MV D
Pb [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	25	15	44	13	30	28	21
Sb [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	0.97
Sn [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	19	230	340	270	300	290	170
Ti [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	430	2500	3900	2200	3300	3300	4100
Tl [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	0.65	0.32	0.21	0.17	0.44	0.46	0.42
U [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	4.3	1.5	0.49	0.98	1.5	1.6	0.82
V [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	1.7	92	200	60	110	110	210
Y [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	14	6.1	15	5.6	7.1	6.5	8.0
Zn [µg/g]	05-Jul-19	14:00	05-Jul-19	15:31	22	78	120	65	100	96	250

Chromium may not recover completely depending on sample matrix.

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MEL

07-October-2019

Date Rec. : 13 September 2019

LR Report: CA15236-SEP19

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: CAML116508- FW2-375E-LJ	6: CAML116509- DP1-425-127S- ED-LJ	7: CAML116510- DP1-425-127T- ED-LJ	8: CAML116511- FW2-425-E-SED	9: CAML116512- DP1-324-145- SE D/LJ	10: CAML116513- SC1-300E-MV	11: CAML116514- SC1-300E-MV
Sample Date & Time					20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19	20-Jul-19
Ag [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	28000	68000	74000	73000	34000	70000	71000
As [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	180	8.2	37	150	12	49	49
Ba [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	280	490	510	1200	170	43	52
Be [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	1.1	1.2	1.4	1.3	0.66	0.34	0.36
Bi [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	0.14	0.15	0.13	0.15	0.15	< 0.09	< 0.09
Ca [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	31000	22000	26000	33000	32000	78000	76000
Cd [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	0.13	0.060	0.080	0.090	0.15	0.13	0.13
Co [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	4.4	8.8	9.5	12	5.6	51	49
Cr [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	16	24	23	29	15	97	100
Cu [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	16	31	14	27	26	88	96
Fe [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	260000	100000	85000	74000	230000	71000	72000
K [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	7000	11000	12000	15000	4700	3900	3900
Li [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	13	36	33	32	9.8	41	42
Mg [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	8700	8400	8300	8500	8300	22000	22000
Mn [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	450	300	350	480	510	1900	1900
Mo [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	1.2	0.93	0.78	0.67	1.2	0.24	0.25
Na [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	850	21000	28000	28000	8500	28000	28000
Ni [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	11	20	21	25	11	120	120
P [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	800	460	450	510	580	220	230



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Project : PO#676765

03-December-2019

Date Rec. : 16 August 2019

LR Report: CA15280-AUG19

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Approval Date	4: Analysis Approval Time	5: CAML116515- DP1-425-127S-K Sc/LJ	6: CAML116516- DP1-425-127T-K Sc/LJ	7: CAML116517- DP3-357-127-KS c	8: CAML116518- DP2-375-137-KS c	9: CAML116519- DP1-400-167-MV c	10: CAML116520- DP1-400-171-MV c	11: CAML116521- DP1-400-171-MV c
Sample Date & Time					12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19	12-Aug-19
Ag [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	45000	51000	87000	74000	34000	72000	67000
As [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	38	360	300	510	75	140	120
Ba [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	240	160	660	520	90	110	110
Be [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	0.55	0.53	1.0	0.97	0.20	0.46	0.48
Bi [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	0.13	0.15	0.61	0.16	< 0.09	0.22	< 0.09
Ca [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	33000	28000	11000	17000	47000	92000	90000
Cd [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	0.12	0.11	0.10	0.078	0.088	0.19	0.16
Co [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	7.3	7.9	18	9.6	22	49	45
Cr [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	67	62	97	45	60	130	120
Cu [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	24	26	26	22	46	110	110
Fe [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	160000	150000	45000	70000	28000	58000	53000
K [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	3700	2700	20000	15000	4900	8300	8200
Li [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	19	23	25	29	20	49	45
Mg [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	8600	10000	12000	9600	8700	20000	19000
Mn [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	430	420	300	270	1000	2300	2200
Mo [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	1.9	0.86	2.1	0.91	0.31	0.49	0.69
Na [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	14000	12000	21000	19000	8000	15000	14000
Ni [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	16	20	61	23	54	120	110
P [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	610	570	420	440	140	300	290



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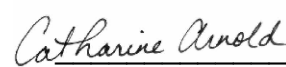
MEL

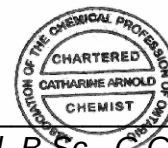
Project : PO#676765

LR Report : CA15280-AUG19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML116515- Sc/LJ	6: CAML116516- Sc/LJ	7: CAML116517- c	8: CAML116518- c	9: CAML116519- c	10: CAML116520- c	11: CAML116521- c
Pb [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	9.4	8.7	24	12	2.4	6.4	6.1
Sb [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	490	440	290	260	65	160	150
Ti [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	1300	1600	2900	2100	1900	4100	3900
Tl [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	0.095	0.075	0.48	0.30	0.21	0.35	0.38
U [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	0.77	0.90	1.5	1.1	0.069	0.48	0.10
V [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	39	42	100	50	120	270	250
Y [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	6.0	6.1	8.3	6.5	5.8	9.9	9.3
Zn [µg/g]	09-Sep-19	20:15	10-Sep-19	11:54	58	76	71	66	41	88	81

Sample IDs taken from bags. List was not provided.
Chromium may not recover completely depending on sample matrix.


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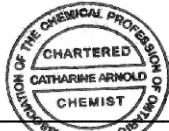
MEL

LR Report :

CA15236-SEP19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML116508- FW2-375E-LJ	6: CAML116509- DP1-425-127S-S ED-LJ	7: CAML116510- DP1-425-127T-S ED-LJ	8: CAML116511- FW2-425-E-SED D/LJ	9: CAML116512- DP1-324-145-SE D/LJ	10: CAML116513- SC1-300E-MV	11: CAML116514- SC1-300E-MV
Pb [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	12	9.7	12	53	6.0	11	12
Sb [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	310	470	420	540	300	100	100
Ti [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	1100	2500	2700	3100	1000	5100	5200
Tl [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	0.16	0.22	0.24	0.30	0.11	0.14	0.14
U [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	0.58	0.91	0.93	0.86	0.62	0.057	0.070
V [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	24	47	45	62	20	250	250
Y [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	6.3	5.3	6.1	6.9	4.9	5.3	5.4
Zn [µg/g]	04-Oct-19	12:00	04-Oct-19	16:29	42	56	50	55	50	84	84

Chromium may not recover completely depending on sample matrix.

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MEL

07-October-2019

Date Rec. : 16 September 2019

LR Report: CA15244-SEP19

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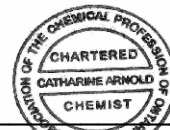
CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML128026- DP1-375-163-KS	6: CAML128027- DP1-375-163-KS	7: CAML128028- DP3-375-127-KS	8: CAML128029- DP2-400-137-KS	9: CAML128030- DP2-400-139-KS	10: CAML128031- FW2-350-W-KS	11: CAML128032- DP1-275-148-KS
					C	C	C	C	C	C	C
Sample Date & Time					11-Sep-19	11-Sep-19	11-Sep-19	11-Sep-19	11-Sep-19	11-Sep-19	11-Sep-19
Ag [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	80000	78000	79000	73000	74000	73000	71000
As [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	250	230	230	49	24	71	500
Ba [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	450	430	660	550	540	620	370
Be [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	1.2	1.2	1.3	1.3	1.3	1.5	1.0
Bi [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	0.15	0.14	0.13	0.22	0.18	0.13	0.24
Ca [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	16000	12000	11000	18000	16000	23000	48000
Cd [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	0.15	0.13	0.12	0.062	0.066	0.081	0.16
Co [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	24	21	18	9.3	9.4	11	25
Cr [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	98	95	70	22	24	25	100
Cu [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	36	30	34	21	33	19	86
Fe [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	83000	80000	36000	76000	87000	79000	79000
K [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	16000	15000	19000	17000	16000	14000	13000
Li [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	42	42	27	38	43	29	45
Mg [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	17000	16000	12000	10000	11000	8400	17000
Mn [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	480	410	300	340	360	330	900
Mo [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	1.5	1.4	1.3	0.68	0.67	0.85	0.93
Na [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	15000	16000	27000	17000	15000	23000	13000
Ni [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	74	67	57	21	22	23	83
P [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	570	570	430	490	430	490	430

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAMLM128026- DP1-375-163-KS C	6: CAMLM128027- DP1-375-163-KS C	7: CAMLM128028- DP3-375-127-KS C	8: CAMLM128029- DP2-400-137-KS C	9: CAMLM128030- DP2-400-139-KS C	10: CAMLM128031- FW2-350-W-KS C	11: CAMLM128032- DP1-275-148-KS C
Pb [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	14	11	8.0	13	13	7.5	17
Sb [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	200	180	270	230	200	330	220
Ti [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	4400	4300	4000	3000	2700	2900	3300
Tl [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	0.37	0.35	0.47	0.30	0.28	0.31	0.34
U [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	1.4	1.4	1.6	1.4	1.3	1.1	0.85
V [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	130	120	92	50	51	53	160
Y [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	7.9	7.4	6.6	6.0	5.8	5.9	11
Zn [µg/g]	04-Oct-19	12:00	04-Oct-19	16:59	100	100	73	56	67	47	99

Chromium may not recover completely depending on sample matrix.

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MEL

15-November-2019

Date Rec. : 15 October 2019

LR Report: CA15310-OCT19

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: CAMLML128033- DP1-275-148-KS	6: CAMLML128034- DP2-325-150-KS	7: CAMLML128035- DP2-325-152-KS	8: CAMLML128036- FW3-400-E-KS	9: CAMLML128037- DP2-400-140-KS	10: CAMLML128038- FW2-350-W-KS	11: CAMLML128039- FW2-350-W-KS
					C	C	C		C	C/IF	C/IF S-DUP
Sample Date & Time					10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19	10-Oct-19
Ag [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	74000	51000	66000	64000	74000	40000	42000
As [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	590	64	11	7.7	20	520	440
Ba [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	600	390	650	500	640	440	450
Be [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	1.3	0.82	1.4	1.0	1.2	1.0	1.0
Bi [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	0.51	< 0.09	0.12	0.15	0.22	0.24	0.25
Ca [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	14000	33000	29000	20000	14000	31000	31000
Cd [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	0.11	0.085	0.089	0.081	0.053	0.13	0.18
Co [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	20	8.2	9.6	7.3	8.7	7.2	7.4
Cr [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	94	43	43	32	30	52	63
Cu [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	56	14	11	16	18	40	41
Fe [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	48000	120000	70000	58000	57000	130000	140000
K [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	21000	9100	15000	18000	22000	15000	15000
Li [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	24	27	25	34	40	16	16
Mg [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	13000	9500	7900	11000	10000	7900	8200
Mn [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	380	470	370	310	270	390	400
Mo [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	1.9	1.3	0.83	0.70	0.79	2.2	2.7
Na [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	24000	11000	24000	18000	23000	3300	3400
Ni [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	61	18	25	20	21	19	20
P [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	500	600	530	440	500	520	550



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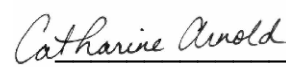
MEL

LR Report :

CA15310-OCT19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML128033- DP1-275-148-KS C	6: CAML128034- DP2-325-150-KS C	7: CAML128035- DP2-325-152-KS C	8: CAML128036- FW3-400-E-KSC C	9: CAML128037- DP2-400-140-KS C	10: CAML128038- FW2-350-W-KS C/IF	11: CAML128039- FW2-350-W-KS C/IF S-DUP
Pb [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	53	7.1	8.1	9.3	9.4	37	39
Sb [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	260	340	470	220	250	290	300
Ti [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	3000	1700	2400	2000	2300	1400	1400
Tl [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	0.48	0.21	0.28	0.29	0.38	0.35	0.36
U [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	1.6	0.81	0.86	1.3	1.6	0.85	0.87
V [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	97	41	58	43	50	40	41
Y [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	6.6	6.7	6.7	5.5	6.5	6.1	6.4
Zn [µg/g]	06-Nov-19	14:38	07-Nov-19	10:17	79	55	50	56	63	45	48

Chromium may not recover completely depending on sample matrix.



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MEL

26-November-2019

Date Rec. : 11 November 2019

LR Report: CA15189-NOV19

Copy: #1

CERTIFICATE OF ANALYSIS

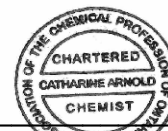
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML118651- FW2-400-141-K	6: CAML118652- DP2-425-136-K	7: CAML118653- SDP2-350-141-K	8: CAML118654- SDP2-350-142-K	9: CAML118655- SDP1-175-158-MV	10: CAML118656- PL1-150-W-MV	11: CAML118657- PL1-150-W-MV DUP
Sample Date & Time					N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ag [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	71000	64000	52000	50000	53000	64000	60000
As [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	18	9.2	74	51	8700	71	60
Ba [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	620	510	270	430	280	75	93
Be [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	1.1	1.3	0.72	1.0	0.70	0.32	0.30
Bi [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	0.13	0.093	< 0.09	0.18	0.22	< 0.09	< 0.09
Ca [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	25000	19000	22000	18000	56000	73000	76000
Cd [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	0.067	0.070	0.094	0.13	0.14	0.10	0.088
Co [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	11	8.7	7.9	13	35	51	48
Cr [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	30	37	56	91	100	140	120
Cu [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	27	18	12	52	140	100	94
Fe [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	35000	97000	170000	150000	100000	77000	69000
K [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	19000	11000	6700	14000	8100	2500	3500
Li [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	28	31	25	24	52	65	57
Mg [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	7200	8000	12000	13000	20000	31000	27000
Mn [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	260	320	360	380	1200	1700	1700
Mo [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	0.44	0.89	1.1	1.1	0.92	0.18	0.12
Na [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	30000	26000	8700	11000	13000	23000	21000
Ni [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	23	22	27	49	81	150	140
P [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	390	480	680	680	380	220	200

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: CAML118651- FW2-400-141-K Sc	6: CAML118652- DP2-425-136-K c	7: CAML118653- DP2-350-141-K C/IF	8: CAML118654- DP2-350-142-K c	9: CAML118655- PL1-150-W-MV	10: CAML118656- PL1-150-W-MV	11: CAML118657- PL1-150-W-MV DUP
Pb [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	9.1	7.2	4.8	11	15	8.7	6.8
Sb [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	< 0.8	< 0.8	< 0.8	< 0.8	2.4	< 0.8	< 0.8
Se [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	< 0.7	< 0.7	< 0.7	< 0.7	0.99	< 0.7	< 0.7
Sn [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	390	380	230	200	190	84	86
Ti [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	2400	2100	1700	2100	1900	1600	1300
Tl [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	0.30	0.23	0.15	0.30	0.26	0.074	0.11
U [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	1.0	0.87	0.95	1.1	0.36	0.065	0.060
V [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	53	50	50	74	180	250	230
Y [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	6.4	5.8	6.6	6.4	8.3	7.5	7.2
Zn [µg/g]	20-Nov-19	12:15	20-Nov-19	15:33	56	55	99	85	81	95	85

Chromium may not recover completely depending on sample matrix.

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MEL

24-December-2019

Date Rec. : 13 December 2019

LR Report: CA15238-DEC19

Reference: Bulk Metals

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: CAMLM118658- FW1-150W-MV	6: CAMLM118659- DP2-375-134-K SC	7: CAMLM118660- DP3-375-146-K SC	8: CAMLM118661- FW2-350-W-KS C/LJ	9: CAMLM118662- DP3-375-138-K SC/LJ	10: CAMLM118663- DP1-175-147-M V	11: CAMLM118664- DP1-175-147-M V
Sample Date & Time					07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19	07-Dec-19
Ag [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	51000	65000	71000	68000	70000	64000	62000
As [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	140	120	110	32	87	68	74
Ba [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	210	760	510	510	570	200	220
Be [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	0.40	1.1	1.0	1.0	1.1	0.50	0.44
Bi [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	< 0.09	0.14	< 0.09	0.25	0.17	0.10	< 0.09
Ca [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	130000	12000	22000	14000	15000	94000	90000
Cd [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	0.23	0.12	0.068	0.11	0.086	0.57	0.44
Co [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	43	13	11	19	23	53	55
Cr [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	120	97	47	110	100	130	130
Cu [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	84	20	20	61	30	160	170
Fe [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	57000	110000	39000	32000	39000	65000	62000
K [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	8000	16000	14000	17000	19000	5700	4800
Li [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	35	24	18	20	24	57	53
Mg [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	23000	13000	8100	11000	12000	20000	20000
Mn [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	2600	250	270	330	350	2600	2400

Online LIMS

000197256



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MEL

LR Report :

CA15238-DEC19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Approval Date	4: Analysis Approval Time	5: CAMLM118658- FW1-150W-MV	6: CAMLM118659- DP2-375-134-K SC	7: CAMLM118660- DP3-375-146-K SC	8: CAMLM118661- FW2-350-W-KS C/LJ	9: CAMLM118662- DP3-375-138-K SC/LJ	10: CAMLM118663- DP1-175-147-M V	11: CAMLM118664- DP1-175-147-M V
Mo [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	0.66	0.96	0.46	1.3	1.7	0.30	0.25
Na [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	10000	8100	32000	25000	21000	15000	16000
Ni [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	110	48	23	57	60	110	120
P [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	180	490	330	380	420	250	250
Pb [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	10	30	7.4	12	12	9.7	9.1
Sb [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	0.81	0.71
Sn [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	160	230	400	280	280	160	140
Ti [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	2200	2700	2400	2700	2700	3400	3500
Tl [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	0.33	0.40	0.28	0.37	0.43	0.25	0.22
U [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	0.088	1.6	0.83	1.6	1.5	0.15	0.27
V [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	200	76	47	83	84	230	230
Y [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	7.4	7.3	5.5	5.6	6.4	7.7	6.9
Zn [µg/g]	20-Dec-19	13:44	23-Dec-19	09:25	65	91	59	60	68	160	130

Chromium may not recover completely depending on sample matrix.

Catharine Arnold

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APPENDIX C: CONTAINMENT AND SEDIMENTATION ACID-BASE
ACCOUNTING DATA



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MEL

Project : PO#OL-664693

07-June-2019

Date Rec. : 22 May 2019
LR Report: CA15440-MAY19
Reference: PO#

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: CP3-001	6: CP3-002	7: CP3-003	8: CP3-004	9: CP4-001a	10: CP4-001b	11: CP4-003
Sample Date & Time					18-May-19	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19
Paste pH [no unit]	03-Jun-19	09:33	06-Jun-19	15:49	8.82	8.98	9.04	8.96	9.24	9.04	9.00
Fizz Rate [no unit]	03-Jun-19	09:33	06-Jun-19	15:49	3	3	3	3	3	3	3
Sample weight [g]	03-Jun-19	09:33	06-Jun-19	15:49	2.00	2.00	1.99	1.99	2.01	2.01	2.04
HCl_add [mL]	03-Jun-19	09:33	06-Jun-19	15:49	40.80	43.50	42.50	45.00	27.00	46.00	47.00
HCl [Normality]	03-Jun-19	09:33	06-Jun-19	15:49	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	03-Jun-19	09:33	06-Jun-19	15:49	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	03-Jun-19	09:33	06-Jun-19	15:49	26.28	27.19	23.32	23.91	17.01	23.64	20.46
Final pH [no unit]	03-Jun-19	09:33	06-Jun-19	15:49	1.53	1.53	1.74	1.71	1.67	1.65	1.75
NP [t CaCO3/1000 t]	03-Jun-19	09:33	06-Jun-19	15:49	36.3	40.8	48.2	53.0	24.9	55.6	65.0
AP [t CaCO3/1000 t]	06-Jun-19	15:49	06-Jun-19	15:49	2.81	2.19	3.12	4.06	4.38	4.38	5.31
Net NP [t CaCO3/1000 t]	06-Jun-19	15:49	06-Jun-19	15:49	33.5	38.6	45.1	48.9	20.5	51.2	59.7
NP/AP [ratio]	06-Jun-19	15:49	06-Jun-19	15:49	12.9	18.7	15.4	13.0	5.69	12.7	12.2
S [%]	05-Jun-19	09:34	05-Jun-19	13:42	0.157	0.097	0.133	0.162	0.210	0.129	0.198
Acid Leachable SO4-S [%]	05-Jun-19	13:42	05-Jun-19	13:42	0.07	0.03	0.03	0.03	0.07	< 0.02	0.03
Sulphide [%]	05-Jun-19	11:09	05-Jun-19	13:42	0.09	0.07	0.10	0.13	0.14	0.14	0.17
C [%]	05-Jun-19	09:34	05-Jun-19	13:42	0.375	0.562	0.578	0.661	0.206	0.551	0.779

Online LIMS

000175988

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CP3-001	6: CP3-002	7: CP3-003	8: CP3-004	9: CP4-001a	10: CP4-001b	11: CP4-003
CO3 [%]	05-Jun-19	13:33	05-Jun-19	13:42	0.914	1.52	1.86	1.99	0.370	2.38	3.03

Analysis	12: CP4-004	13: CP3-005	14: CP3-006	15: CP3-007	16: CP3-008
Sample Date & Time	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19
Paste pH [no unit]	9.03	8.86	8.78	8.88	9.03
Fizz Rate [no unit]	3	3	3	3	3
Sample weight [g]	2.00	2.03	2.04	1.98	2.00
HCl_add [mL]	44.00	29.00	46.50	48.00	46.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23.83	17.08	24.20	26.09	25.45
Final pH [no unit]	1.63	1.72	1.71	1.72	1.63
NP [t CaCO3/1000 t]	50.4	29.4	54.7	55.3	51.4
AP [t CaCO3/1000 t]	3.75	5.00	4.06	4.06	3.75
Net NP [t CaCO3/1000 t]	46.6	24.4	50.6	51.2	47.6
NP/AP [ratio]	13.4	5.88	13.5	13.6	13.7
S [%]	0.152	0.239	0.154	0.181	0.167
Acid Leachable SO4-S [%]	0.03	0.08	0.02	0.05	0.05
Sulphide [%]	0.12	0.16	0.13	0.13	0.12
C [%]	0.604	0.320	0.722	0.726	0.641
CO3 [%]	2.34	0.600	2.08	1.89	2.17

*NP (Neutralization Potential)
= 50 x (N of HCL x Total HCL added - N NaOH x 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.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

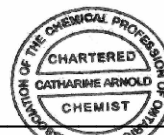
Phone: 705-652-2000 FAX: 705-652-6365

MEL

Project : PO#OL-664693

LR Report : CA15440-MAY19

Catharine Arnold
Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



**SGS Canada Inc.**

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ABA - Modified Sobek

Project : PO#OL-664693

15-January-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Baker Lake
, Nunavut
X0C 0A0, Canada

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

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.

**SGS Canada Inc.**

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ABA - Modified Sobek

Project : PO#OL-664693

06-May-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Baker Lake
 , Nunavut
 X0C 0A0, Canada

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

Date Rec. : 24 April 2019
 LR Report: CA15414-APR19

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	5: SP2-BH554	6: SP2-BH339	7: SP2-BH259	8: SP2-BH806	9: SP2-BH711	10: SP2-BH257	11: SP2-BH457	12: SP2-BH326
Sample Date & Time	15-Feb-19	09-Mar-19	06-Mar-19	09-Feb-19	09-Feb-19	14-Dec-18	09-Mar-19	06-Mar-19
Paste pH [no unit]	8.70	8.91	9.32	9.14	9.14	9.40	9.28	9.28
Fizz Rate [no unit]	1	3	2	2	2	2	2	2
Sample weight [g]	1.96	2.00	1.97	2.02	2.00	2.02	1.99	1.99
HCl_add [mL]	38.20	56.20	30.50	37.50	35.90	28.40	28.00	28.20
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]	18.14	17.64	11.66	15.81	16.23	9.18	10.80	10.00
Final pH [no unit]	1.62	1.75	1.87	1.56	1.57	1.83	1.83	1.91
NP [t CaCO3/1000 t]	51.2	96.4	47.8	53.7	49.2	47.6	43.2	45.7
AP [t CaCO3/1000 t]	5.31	4.06	3.75	4.06	4.06	3.44	4.38	3.12
Net NP [t CaCO3/1000 t]	45.9	92.3	44.0	49.6	45.1	44.2	38.8	42.6
NP/AP [ratio]	9.64	23.7	12.7	13.2	12.1	13.8	9.87	14.6
S [%]	0.246	0.232	0.278	0.212	0.216	0.204	0.215	0.209
Acid Leachable SO4-S [%]	0.08	0.10	0.16	0.08	0.09	0.09	0.08	0.11
Sulphide [%]	0.17	0.13	0.12	0.13	0.13	0.11	0.14	0.10
C [%]	0.687	1.25	0.648	0.725	0.681	0.658	0.574	0.637
CO3 [%]	2.44	5.42	2.36	2.84	2.61	2.86	2.11	2.54
Weight [g]	---	6310	7796	642	531	664	554	627
Split	---	1	1	1	1	1	1	1
Pulv200M [250g]	---	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

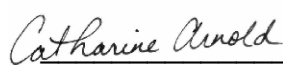
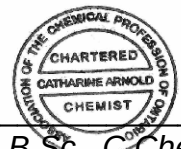
*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material

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

SGS Canada Inc.

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

ABA - Modified Sobek**Project :** PO#OL-664693**LR Report :** CA15414-APR19



Catharine Arnold, B.Sc., C.Chem
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MEL

SGS Canada Inc.

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06-May-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Baker Lake,
Canada, X0C 0A0
Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

Date Rec. : 17 April 2019
LR Report: CA15315-APR19
Reference: ABA - Modified Sobek

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: WR-SP2-Grab 1	6: WR-SP2-Grab 2
Sample Date & Time					13-Apr-19	13-Apr-19
Paste pH [no unit]	02-May-19	16:33	03-May-19	15:28	9.32	9.25
Fizz Rate [no unit]	02-May-19	10:30	03-May-19	15:28	2	2
Sample weight [g]	02-May-19	10:30	03-May-19	15:28	1.97	1.98
HCl_add [mL]	03-May-19	08:02	03-May-19	15:28	40.20	43.30
HCl [Normality]	02-May-19	10:30	03-May-19	15:28	0.10	0.10
NaOH [Normality]	02-May-19	10:30	03-May-19	15:28	0.10	0.10
Vol NaOH to pH=8.3 [mL]	03-May-19	08:02	03-May-19	15:28	19.78	17.71
Final pH [no unit]	03-May-19	08:02	03-May-19	15:28	1.83	1.92
NP [t CaCO ₃ /1000 t]	03-May-19	08:02	03-May-19	15:28	51.8	64.6
AP [t CaCO ₃ /1000 t]	06-May-19	14:41	06-May-19	14:32	5.00	3.44
Net NP [t CaCO ₃ /1000 t]	06-May-19	14:41	06-May-19	14:32	46.8	61.2
NP/AP [ratio]	06-May-19	14:41	06-May-19	14:32	10.4	18.8
S [%]	02-May-19	14:58	06-May-19	14:32	0.230	0.222
Acid Leachable SO ₄ -S [%]	06-May-19	14:41	06-May-19	14:32	0.07	0.11
Sulphide [%]	06-May-19	14:14	06-May-19	14:32	0.16	0.11
C [%]	02-May-19	14:58	06-May-19	14:17	0.644	0.883
CO ₃ [%]	06-May-19	13:35	06-May-19	14:17	2.27	3.40

*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.

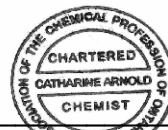
No dates samples were provided so the date received has been entered as the date sampled as per the client.

SGS Canada Inc.

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LR Report : CA15315-APR19

Catharine Arnold
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Environment, Health & Safety



APPENDIX D: CONTAINMENT AND SEDIMENTATION POND ROCK
COMPOSITION DATA



SGS Canada Inc.

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Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

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Canada, X0C 0A0

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MEL

07-June-2019

Date Rec. : 22 May 2019

LR Report: CA15441-MAY19

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Approval Date	4: Approval Time	5: CP3-001	6: CP3-002	7: CP3-003	8: CP3-004	9: CP4-001a	10: CP4-001b	11: CP4-003	12: CP4-004	13: CP3-005
Sample Date & Time					18-May-19	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19	18-May-19
Ag [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	80000	73000	76000	82000	76000	84000	82000	76000	73000
As [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	60	45	80	120	13	33	12	34	280
Ba [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	550	580	410	500	520	570	610	610	400
Be [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.1	1.1
Bi [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	0.15	0.18	0.17	0.25	0.15	0.17	0.20	0.25	0.53
Ca [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	14000	17000	16000	26000	13000	19000	23000	14000	13000
Cd [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	0.087	0.086	0.089	0.12	0.043	0.090	0.15	0.095	0.14
Co [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	27	22	22	32	21	25	23	21	23
Cr [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	170	160	120	130	120	120	110	120	140
Cu [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	46	50	43	64	36	60	62	51	51
Fe [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	52000	44000	43000	57000	37000	47000	38000	34000	41000
K [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	18000	18000	15000	18000	12000	20000	18000	21000	13000
Li [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	42	32	30	35	37	48	40	28	33
Mg [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	19000	16000	15000	19000	15000	19000	17000	13000	15000
Mn [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	550	640	510	750	320	520	490	380	440
Mo [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	1.3	2.7	1.9	2.1	1.3	2.1	1.0	2.1	1.6
Na [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	24000	21000	27000	23000	35000	21000	25000	21000	29000
Ni [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	80	68	65	75	74	79	69	67	70
P [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	600	510	510	580	430	540	530	470	470
Pb [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	9.3	9.9	10	15	7.4	10	11	9.9	17

Online LIMS

0001776003



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MEL

LR Report :

CA15441-MAY19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Approval Date	4: Analysis Approval Time	5: CP3-001	6: CP3-002	7: CP3-003	8: CP3-004	9: CP4-001a	10: CP4-001b	11: CP4-003	12: CP4-004	13: CP3-005
Sb [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	290	280	320	310	280	410	440	300	270
Ti [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	3700	3300	2700	3600	3000	1600	980	2000	2700
Tl [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	0.39	0.31	0.34	0.39	0.25	0.39	0.40	0.40	0.23
U [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	1.5	1.4	1.4	1.5	1.5	1.5	1.5	1.6	1.5
V [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	160	130	120	180	110	140	110	94	120
Y [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	12	10	10	15	11	9.2	9.9	7.3	10
Zn [µg/g]	03-Jun-19	14:39	04-Jun-19	09:08	110	75	84	94	53	91	82	64	86

Analysis	14: CP3-006	15: CP3-007	16: CP3-008
Sample Date & Time	18-May-19	18-May-19	18-May-19
Ag [µg/g]	< 1	< 1	< 1
Al [µg/g]	74000	87000	81000
As [µg/g]	57	61	370
Ba [µg/g]	550	640	520
Be [µg/g]	1.1	1.3	1.2
Bi [µg/g]	0.19	0.27	0.28
Ca [µg/g]	17000	17000	14000
Cd [µg/g]	0.11	0.090	0.071
Co [µg/g]	23	22	21
Cr [µg/g]	110	120	120
Cu [µg/g]	45	58	53
Fe [µg/g]	43000	42000	40000
K [µg/g]	16000	23000	19000
Li [µg/g]	35	40	36
Mg [µg/g]	15000	17000	16000
Mn [µg/g]	500	470	420
Mo [µg/g]	2.1	1.3	2.5
Na [µg/g]	22000	21000	23000
Ni [µg/g]	63	76	72
P [µg/g]	490	570	480
Pb [µg/g]	11	14	14



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

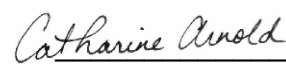
Phone: 705-652-2000 FAX: 705-652-6365

MEL

LR Report :

CA15441-MAY19

Analysis	14: CP3-006	15: CP3-007	16: CP3-008
Sb [µg/g]	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6
Sr [µg/g]	300	360	330
Ti [µg/g]	2300	1800	1400
Tl [µg/g]	0.35	0.44	0.38
U [µg/g]	1.4	1.6	1.5
V [µg/g]	120	120	110
Y [µg/g]	9.3	12	8.6
Zn [µg/g]	77	81	79



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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

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
, Nunavut
X0C 0A0, Canada

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

MEL

Project : PO#OL-664693

13-May-2019

Date Rec. : 24 April 2019
LR Report: CA15415-APR19

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Time	3: Analysis Completed Date	4: Analysis Completed Time	5: SP2-BH554	6: SP2-BH339	7: SP2-BH259	8: SP2-BH806	9: SP2-BH711	10: SP2-BH257	11: SP2-BH457	12: SP2-BH326
Sample Date & Time					15-Feb-19	09-Mar-19	06-Mar-19	09-Feb-19	09-Feb-19	14-Dec-18	09-Mar-19	06-Mar-19
Ag [µg/g]	08-May-19	15:40	13-May-19	11:19	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Al [µg/g]	08-May-19	15:40	13-May-19	11:19	67000	62000	68000	70000	71000	66000	73000	74000
As [µg/g]	08-May-19	15:40	13-May-19	11:19	81	20	40	160	53	54	51	76
Ba [µg/g]	08-May-19	15:40	13-May-19	11:19	500	250	500	510	490	510	530	540
Be [µg/g]	08-May-19	15:40	13-May-19	11:19	0.99	0.72	0.89	0.94	0.94	0.93	0.98	0.96
Bi [µg/g]	08-May-19	15:40	13-May-19	11:19	0.16	0.26	0.20	0.22	0.21	0.20	0.24	0.49
Ca [µg/g]	08-May-19	15:40	13-May-19	11:19	14000	29000	14000	15000	14000	13000	14000	12000
Cd [µg/g]	08-May-19	15:40	13-May-19	11:19	0.082	0.22	0.091	0.078	0.073	0.092	0.088	0.062
Co [µg/g]	08-May-19	15:40	13-May-19	11:19	22	29	22	22	21	23	21	25
Cr [µg/g]	08-May-19	15:40	13-May-19	11:19	80	140	80	79	76	72	63	160
Cu [µg/g]	08-May-19	15:40	13-May-19	11:19	45	97	61	44	47	40	43	49
Fe [µg/g]	08-May-19	15:40	13-May-19	11:19	42000	53000	38000	39000	39000	38000	40000	38000
K [µg/g]	08-May-19	15:40	13-May-19	11:19	18000	8000	17000	20000	19000	18000	19000	21000
Li [µg/g]	08-May-19	15:40	13-May-19	11:19	27	36	27	27	27	27	31	31
Mg [µg/g]	08-May-19	15:40	13-May-19	11:19	13000	16000	13000	13000	12000	13000	14000	14000
Mn [µg/g]	08-May-19	15:40	13-May-19	11:19	330	790	390	340	290	410	370	280
Mo [µg/g]	08-May-19	15:40	13-May-19	11:19	1.2	5.6	1.7	1.3	2.2	1.2	3.1	2.8
Na [µg/g]	08-May-19	15:40	13-May-19	11:19	20000	20000	23000	20000	19000	20000	21000	15000
Ni [µg/g]	08-May-19	15:40	13-May-19	11:19	72	62	72	75	73	75	72	84
P [µg/g]	08-May-19	15:40	13-May-19	11:19	510	410	450	450	440	440	450	440



SGS Canada Inc.

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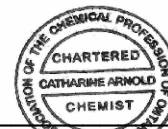
Project : PO#OL-664693

LR Report : CA15415-APR19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: SP2-BH554	6: SP2-BH339	7: SP2-BH259	8: SP2-BH806	9: SP2-BH711	10: SP2-BH257	11: SP2-BH457	12: SP2-BH326
Pb [µg/g]	08-May-19	15:40	13-May-19	11:19	10	27	8.4	16	7.5	8.4	11	8.6
Sb [µg/g]	08-May-19	15:40	13-May-19	11:19	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	08-May-19	15:40	13-May-19	11:19	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	08-May-19	15:40	13-May-19	11:19	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	08-May-19	15:40	13-May-19	11:19	290	360	320	280	280	290	310	270
Ti [µg/g]	08-May-19	15:40	13-May-19	11:19	2100	4400	1500	1700	1900	1700	1100	2600
Tl [µg/g]	08-May-19	15:40	13-May-19	11:19	0.42	0.18	0.37	0.43	0.41	0.38	0.41	0.45
U [µg/g]	08-May-19	15:40	13-May-19	11:19	1.7	1.2	1.8	1.7	1.7	1.6	1.6	1.7
V [µg/g]	08-May-19	15:40	13-May-19	11:19	99	180	92	100	100	98	100	120
Y [µg/g]	08-May-19	15:40	13-May-19	11:19	6.3	8.2	6.2	6.0	6.1	5.7	6.8	7.2
Zn [µg/g]	08-May-19	15:40	13-May-19	11:19	74	100	81	68	66	75	79	70

Chromium may not recover completely depending on sample matrix.

Catharine Arnold
 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety





MEL

SGS Canada Inc.

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09-May-2019

Agnico Eagle Mines Limited

Attn : Meliadine Coordinator

Date Rec. : 17 April 2019

LR Report: CA15316-APR19

Baker Lake,
Canada, X0C 0A0
Phone: (819) 759-3555 x3928, Fax:(819) 759-3663

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: WR-SP2-Grab 1	6: WR-SP2-Grab 2
Sample Date & Time					13-Apr-19	13-Apr-19
Ag [µg/g]	08-May-19	15:40	09-May-19	09:41	< 1	< 1
Al [µg/g]	08-May-19	15:40	09-May-19	09:41	76000	69000
As [µg/g]	08-May-19	15:40	09-May-19	09:41	40	48
Ba [µg/g]	08-May-19	15:40	09-May-19	09:41	600	490
Be [µg/g]	08-May-19	15:40	09-May-19	09:41	1.1	0.90
Bi [µg/g]	08-May-19	15:40	09-May-19	09:41	0.21	0.20
Ca [µg/g]	08-May-19	15:40	09-May-19	09:41	14000	17000
Cd [µg/g]	08-May-19	15:40	09-May-19	09:41	0.082	0.075
Co [µg/g]	08-May-19	15:40	09-May-19	09:41	23	19
Cr [µg/g]	08-May-19	15:40	09-May-19	09:41	95	76
Cu [µg/g]	08-May-19	15:40	09-May-19	09:41	53	62
Fe [µg/g]	08-May-19	15:40	09-May-19	09:41	40000	39000
K [µg/g]	08-May-19	15:40	09-May-19	09:41	22000	18000
Li [µg/g]	08-May-19	15:40	09-May-19	09:41	29	25
Mg [µg/g]	08-May-19	15:40	09-May-19	09:41	14000	14000
Mn [µg/g]	08-May-19	15:40	09-May-19	09:41	400	480
Mo [µg/g]	08-May-19	15:40	09-May-19	09:41	1.4	1.2
Na [µg/g]	08-May-19	15:40	09-May-19	09:41	20000	20000
Ni [µg/g]	08-May-19	15:40	09-May-19	09:41	82	68
P [µg/g]	08-May-19	15:40	09-May-19	09:41	450	380
Pb [µg/g]	08-May-19	15:40	09-May-19	09:41	9.8	7.4
Sb [µg/g]	08-May-19	15:40	09-May-19	09:41	< 0.8	< 0.8
Se [µg/g]	08-May-19	15:40	09-May-19	09:41	< 0.7	< 0.7
Sn [µg/g]	08-May-19	15:40	09-May-19	09:41	< 6	< 6
Sr [µg/g]	08-May-19	15:40	09-May-19	09:41	310	290
Ti [µg/g]	08-May-19	15:40	09-May-19	09:41	2000	1900
Tl [µg/g]	08-May-19	15:40	09-May-19	09:41	0.47	0.39
U [µg/g]	08-May-19	15:40	09-May-19	09:41	1.7	1.6

SGS Canada Inc.

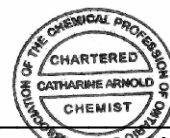
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA15316-APR19

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: WR-SP2-Grab 1	6: WR-SP2-Grab 2
V [µg/g]	08-May-19	15:40	09-May-19	09:41	120	98
Y [µg/g]	08-May-19	15:40	09-May-19	09:41	6.8	6.8
Zn [µg/g]	08-May-19	15:40	09-May-19	09:41	80	68

Chromium may not recover completely depending on sample matrix.

Catharine Arnold
Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



APPENDIX E: FILTERED TAILINGS ACID-BASE ACCOUNTING DATA

**SGS Canada Inc.**

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Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

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 Canada, X0C 0A0
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MEL

Project : ABA - Modified Sobek

13-August-2019

Date Rec. : 05 July 2019
 LR Report: CA15081-JUL19
 Reference: PO# 770080

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: Tailings-Solid 6/02/19	6: Tailings-Solid 6/05/19
Sample Date & Time					02-Jun-19 14:30	05-Jun-19 07:45
Paste pH [no unit]	08-Aug-19	10:30	09-Aug-19	16:27	8.25	8.23
Fizz Rate [no unit]	08-Aug-19	10:30	09-Aug-19	16:27	4	4
Sample weight [g]	08-Aug-19	10:30	09-Aug-19	16:27	2.04	2.01
HCl_add [mL]	09-Aug-19	08:30	09-Aug-19	16:27	90.00	85.00
HCl [Normality]	08-Aug-19	10:30	09-Aug-19	16:27	0.10	0.10
NaOH [Normality]	08-Aug-19	10:30	09-Aug-19	16:27	0.10	0.10
Vol NaOH to pH=8.3 [mL]	09-Aug-19	10:50	09-Aug-19	16:27	53.54	49.97
Final pH [no unit]	09-Aug-19	10:50	09-Aug-19	16:27	1.66	1.55
NP [t CaCO3/1000 t]	09-Aug-19	10:50	09-Aug-19	16:27	89.4	87.1
AP [t CaCO3/1000 t]	09-Aug-19	16:51	09-Aug-19	16:27	45.6	38.8
Net NP [t CaCO3/1000 t]	09-Aug-19	16:51	09-Aug-19	16:27	43.8	48.4
NP/AP [ratio]	09-Aug-19	16:51	09-Aug-19	16:27	1.96	2.25
S [%]	08-Aug-19	10:31	08-Aug-19	14:53	1.53	1.40
Acid Leachable SO4-S [%]	09-Aug-19	16:11	08-Aug-19	14:53	0.07	0.16
Sulphide [%]	09-Aug-19	15:57	08-Aug-19	14:53	1.46	1.24
C [%]	08-Aug-19	10:30	08-Aug-19	14:25	1.41	1.34
CO3 [%]	08-Aug-19	14:03	08-Aug-19	14:25	2.82	3.42

Analysis	7: Tailings-Solid 6/10/19	8: Tailings-Solid 6/16/19	9: Tailings-Solid 6/30/19
Sample Date & Time	10-Jun-19 10:00	16-Jun-19 11:00	30-Jun-19 10:40
Paste pH [no unit]	8.21	8.16	8.25
Fizz Rate [no unit]	4	4	4
Sample weight [g]	2.03	1.98	2.03
HCl_add [mL]	90.00	85.00	81.00

Analysis	7: Tailings-Solid 6/10/19	8: Tailings-Solid 6/16/19	9: Tailings-Solid 6/30/19
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	55.49	52.78	48.48
Final pH [no unit]	1.65	1.55	1.58
NP [t CaCO3/1000 t]	85.0	81.4	80.1
AP [t CaCO3/1000 t]	53.4	66.6	47.2
Net NP [t CaCO3/1000 t]	31.6	14.8	32.9
NP/AP [ratio]	1.59	1.22	1.70
S [%]	1.91	2.16	1.69
Acid Leachable SO4-S [%]	0.20	0.03	0.18
Sulphide [%]	1.71	2.13	1.51
C [%]	1.38	1.48	1.25
CO3 [%]	1.74	2.93	2.30

*NP (Neutralization Potential)

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

Weight of Sample

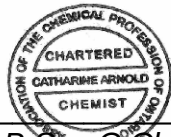
*AP (Acid Potential) = % Sulphide Sulphur $\times$ 31.25

*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.

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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MEL

12-September-2019

Date Rec. : 09 August 2019
LR Report: CA14331-AUG19
Reference: PO# 770080

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time Completed	5: Talings-Solid (sys_loc_code=Tai lings-solid) Jul 7	6: Talings-Solid (sys_loc_code=Tai lings-solid) Jul 14	7: Talings-Solid (sys_loc_code=Tai lings-solid) Jul 21	8: Talings-Solid (sys_loc_code=Tai lings-solid) Jul 24
Sample Date & Time					07-Jul-19 14:30	14-Jul-19 07:45	21-Jul-19 10:00	24-Jul-19 11:00
Paste pH [no unit]	22-Aug-19	08:33	23-Aug-19	14:26	8.25	8.32	8.19	8.32
Fizz Rate [no unit]	22-Aug-19	08:33	23-Aug-19	14:26	2	3	3	3
Sample weight [g]	22-Aug-19	08:33	23-Aug-19	14:26	2.02	1.98	2.00	1.98
HCl_add [mL]	23-Aug-19	06:30	23-Aug-19	14:26	60.00	60.00	81.70	76.00
HCl [Normality]	22-Aug-19	08:33	23-Aug-19	14:26	0.10	0.10	0.10	0.10
NaOH [Normality]	22-Aug-19	08:33	23-Aug-19	14:26	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23-Aug-19	10:02	23-Aug-19	14:26	27.17	26.97	50.23	43.33
Final pH [no unit]	23-Aug-19	10:02	23-Aug-19	14:26	1.89	1.82	1.55	1.57
NP [t CaCO3/1000 t]	23-Aug-19	10:02	23-Aug-19	14:26	81.3	83.4	78.7	82.5
AP [t CaCO3/1000 t]	28-Aug-19	11:09	28-Aug-19	11:07	39.7	37.5	75.6	52.2
Net NP [t CaCO3/1000 t]	28-Aug-19	11:09	28-Aug-19	11:07	41.6	45.9	3.08	30.3
NP/AP [ratio]	28-Aug-19	11:09	28-Aug-19	11:07	2.05	2.22	1.04	1.58
S [%]	26-Aug-19	11:24	28-Aug-19	11:07	1.46	1.38	2.51	1.88
Acid Leachable SO4-S [%]	28-Aug-19	11:09	28-Aug-19	11:07	0.19	0.18	0.09	0.21
Sulphide [%]	28-Aug-19	11:06	28-Aug-19	11:07	1.27	1.20	2.42	1.67
C [%]	26-Aug-19	11:24	26-Aug-19	14:07	1.27	1.34	1.50	1.46
CO3 [%]	26-Aug-19	14:06	26-Aug-19	14:07	2.68	3.45	3.07	3.65

*NP (Neutralization Potential)
= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



SGS Canada Inc.

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MEL

LR Report :

CA14331-AUG19

Weight of Sample

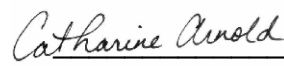
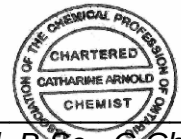
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

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

Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

Meliadine,

Canada, X0C 0A0

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

MEL

12-September-2019

Date Rec. : 30 August 2019

LR Report: CA15533-AUG19

Reference: PO# 770080- ABA - Modified Sobek

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: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug4	6: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug11	7: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug19	8: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug25
Sample Date & Time					04-Aug-19 07:55	11-Aug-19 11:42	19-Aug-19 08:56	25-Aug-19 14:00
Paste pH [no unit]	10-Sep-19	12:38	10-Sep-19	13:24	8.24	8.21	8.29	8.35
Fizz Rate [no unit]	09-Sep-19	10:13	10-Sep-19	13:24	2	2	2	2
Sample weight [g]	09-Sep-19	10:13	10-Sep-19	13:24	1.98	2.03	2.01	2.00
HCl_add [mL]	10-Sep-19	08:12	10-Sep-19	13:24	69.80	68.40	69.30	67.90
HCl [Normality]	09-Sep-19	10:13	10-Sep-19	13:24	0.10	0.10	0.10	0.10
NaOH [Normality]	09-Sep-19	10:13	10-Sep-19	13:24	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	10-Sep-19	08:12	10-Sep-19	13:24	36.82	34.85	36.16	32.04
Final pH [no unit]	10-Sep-19	08:12	10-Sep-19	13:24	1.69	1.89	1.77	1.77
NP [t CaCO3/1000 t]	10-Sep-19	08:12	10-Sep-19	13:24	83.3	82.6	82.4	89.6
AP [t CaCO3/1000 t]	11-Sep-19	09:18	11-Sep-19	09:18	43.8	65.9	52.5	37.5
Net NP [t CaCO3/1000 t]	11-Sep-19	09:18	11-Sep-19	09:18	39.6	16.7	29.9	52.1
NP/AP [ratio]	11-Sep-19	09:18	11-Sep-19	09:18	1.90	1.25	1.57	2.39
S [%]	10-Sep-19	09:02	11-Sep-19	09:18	1.70	2.27	1.89	1.44
Acid Leachable SO4-S [%]	11-Sep-19	09:18	11-Sep-19	09:18	0.30	0.16	0.21	0.24
Sulphide [%]	11-Sep-19	08:40	11-Sep-19	09:18	1.40	2.11	1.68	1.20
C [%]	10-Sep-19	09:02	10-Sep-19	14:47	1.59	1.75	1.51	1.42

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time (sys_loc_code=Taili ngs-solid) Aug4	5: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug4	6: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug11	7: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug19	8: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug25
CO3 [%]	10-Sep-19	13:46	10-Sep-19	14:47	3.65	3.38	3.71	4.33

*NP (Neutralization Potential)

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

Weight of Sample

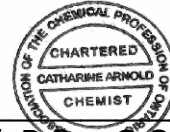
*AP (Acid Potential) = % Sulphide Sulphur $\times$ 31.25

*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.

Catharine Arnold

 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety



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MEL

24-October-2019

Date Rec. : 04 October 2019

LR Report: CA14140-OCT19

Reference: P.O#770080

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date	4: Analysis Completed Time	5: Tailings-solid (sys_loc_cod=Tailin gs-solid) Sept 1	6: Tailings-solid (sys_loc_cod=Tailin gs-solid) Sept 15	7: Tailings-solid (sys_loc_cod=Tailin gs-solid) Sept 22	8: Tailings-solid (sys_loc_cod=Tailin gs-solid) Sept 30
Sample Date & Time					01-Sep-19 13:00	15-Sep-19 13:00	22-Sep-19 13:00	30-Sep-19 13:00
Paste pH [no unit]	22-Oct-19	10:42	24-Oct-19	09:20	8.43	8.52	8.52	8.47
Fizz Rate [no unit]	22-Oct-19	10:42	24-Oct-19	09:20	4	4	4	4
Sample weight [g]	22-Oct-19	10:42	24-Oct-19	09:20	1.97	2.03	1.96	2.00
HCl_add [mL]	23-Oct-19	08:49	24-Oct-19	09:20	80.20	78.30	60.70	82.10
HCl [Normality]	22-Oct-19	10:42	24-Oct-19	09:20	0.10	0.10	0.10	0.10
NaOH [Normality]	22-Oct-19	10:42	24-Oct-19	09:20	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23-Oct-19	08:49	24-Oct-19	09:20	42.13	42.04	27.80	46.60
Final pH [no unit]	23-Oct-19	08:49	24-Oct-19	09:20	1.61	1.75	1.88	1.52
NP [t CaCO3/1000 t]	23-Oct-19	08:49	24-Oct-19	09:20	96.6	89.3	83.9	88.8
AP [t CaCO3/1000 t]	24-Oct-19	14:07	24-Oct-19	14:07	39.4	59.1	39.1	43.4
Net NP [t CaCO3/1000 t]	24-Oct-19	14:07	24-Oct-19	14:07	57.2	30.2	44.8	45.4
NP/AP [ratio]	24-Oct-19	14:07	24-Oct-19	14:07	2.45	1.51	2.15	2.04
S [%]	22-Oct-19	11:38	24-Oct-19	14:07	1.54	2.40	1.60	1.69
Acid Leachable SO4-S [%]	24-Oct-19	14:07	24-Oct-19	14:07	0.28	0.50	0.36	0.30
Sulphide [%]	24-Oct-19	13:54	24-Oct-19	14:07	1.26	1.89	1.25	1.39
C [%]	22-Oct-19	11:38	23-Oct-19	13:43	1.52	1.51	1.35	1.51
CO3 [%]	22-Oct-19	13:46	23-Oct-19	13:43	3.94	3.64	3.36	4.07

*NP (Neutralization Potential)

= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



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MEL

LR Report :

CA14140-OCT19

Weight of Sample

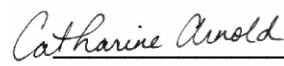
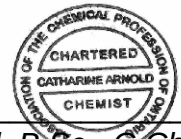
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

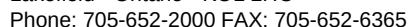
*Net NP (Net Neutralization Potential) = NP-AP

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.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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Copy: #1

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: AnalysisTailings-solid(sys_ Completedloc_cod=Tailings-sloc_cod=Tailings-s Timeolid)Oct6	5: Tailings-solid(sys_ sloc_cod=Tailings-sloc_cod=Tailings-s olid)Oct14	6: Tailings-solid(sys_ sloc_cod=Tailings-sloc_cod=Tailings-s olid)Oct20	7: Tailings-solid(sys_ sloc_cod=Tailings-sloc_cod=Tailings-s olid)Oct27	8:
Sulphide [%]	08-Nov-19	10:59	08-Nov-19	13:45	1.37	1.52	1.48	1.58
C [%]	07-Nov-19	11:43	07-Nov-19	14:34	1.59	1.51	1.55	1.60
CO3 [%]	07-Nov-19	14:11	07-Nov-19	14:34	4.42	4.31	4.44	4.55

*NP (Neutralization Potential)
= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)

Weight of Sample

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

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

$$\text{NP/AP Ratio} = \text{NP/AP}$$

*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.

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety

Agnico Eagle Mines Limited

Attn : Dan Gorton/Sean Arruda

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MEL

Project : ABA - Modified Sobek

23-December-2019

Date Rec. : 02 December 2019

LR Report: CA15007-DEC19

Reference: P.O#770080

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	AnalysisTime_completed	Tailings-solid(sys_loTailings-solid(sys_loTailings-solid(sys_loTailings-solid(sys_lo d) Nov 3	Tailings-solid(sys_loTailings-solid(sys_loTailings-solid(sys_lo d) Nov 11	Tailings-solid(sys_loTailings-solid(sys_loTailings-solid(sys_lo d) Nov 17	Tailings-solid(sys_loTailings-solid(sys_loTailings-solid(sys_lo d) Nov 23
Sample Date & Time					03-Nov-19 11:45	11-Nov-19 12:00	17-Nov-19 16:08	23-Nov-19 15:00
Paste pH [no unit]	05-Dec-19	09:20	06-Dec-19	14:28	8.16	8.28	8.17	8.27
Fizz Rate [no unit]	05-Dec-19	09:20	06-Dec-19	14:28	3	3	3	3
Sample weight [g]	05-Dec-19	09:20	06-Dec-19	14:28	2.02	2.01	2.00	2.01
HCl_add [mL]	06-Dec-19	08:30	06-Dec-19	14:28	78.50	79.50	78.00	83.00
HCl [Normality]	05-Dec-19	09:20	06-Dec-19	14:28	0.10	0.10	0.10	0.10
NaOH [Normality]	05-Dec-19	09:20	06-Dec-19	14:28	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	06-Dec-19	09:41	06-Dec-19	14:28	42.40	44.10	42.08	42.08
Final pH [no unit]	06-Dec-19	09:41	06-Dec-19	14:28	1.78	1.77	1.74	1.58
NP [t CaCO3/1000 t]	06-Dec-19	09:41	06-Dec-19	14:28	89.3	88.1	89.8	102
AP [t CaCO3/1000 t]	12-Dec-19	11:46	12-Dec-19	11:46	54.7	59.4	56.9	47.8
Net NP [t CaCO3/1000 t]	12-Dec-19	11:46	12-Dec-19	11:46	34.6	28.7	32.9	54.0
NP/AP [ratio]	12-Dec-19	11:46	12-Dec-19	11:46	1.63	1.48	1.58	2.13
S [%]	05-Dec-19	11:59	12-Dec-19	11:46	1.71	1.83	1.75	1.53
Acid Leachable SO4-S [%]	12-Dec-19	11:45	12-Dec-19	11:46	< 0.02	< 0.02	< 0.02	< 0.02
Sulphide [%]	12-Dec-19	10:31	12-Dec-19	11:46	1.75	1.90	1.82	1.53
C [%]	05-Dec-19	11:59	05-Dec-19	15:13	1.38	1.28	1.32	1.22
CO3 [%]	05-Dec-19	14:53	05-Dec-19	15:13	3.87	3.63	4.07	4.03

*NP (Neutralization Potential)
= 50 x (N of HCL x Total HCL added - N NaOH x NaOH added)



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MEL

Project : ABA - Modified Sobek

LR Report : CA15007-DEC19

Weight of Sample

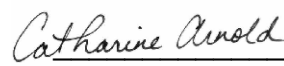
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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.



Catharine Arnold, B.Sc., C.Chem
Project Specialist,
Environment, Health & Safety



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MEL

Project : ABA - Modified Sobek

22-January-2020

Date Rec. : 06 January 2020

LR Report: CA14045-JAN20

Reference: P.O# 770080

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Tailings-solid(sys_ Completed oc_code=Tailings-s Time olid) Dec 01	5: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 19	6: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 19
Sample Date & Time				01-Dec-19 10:00	19-Dec-19 10:00	
Paste pH [no unit]	13-Jan-20	09:42	17-Jan-20	12:37	8.33	8.44
Fizz Rate [no unit]	13-Jan-20	09:42	17-Jan-20	12:37	4	4
Sample weight [g]	13-Jan-20	09:42	17-Jan-20	12:37	1.99	2.03
HCl_add [mL]	14-Jan-20	07:17	17-Jan-20	12:37	66.00	70.00
HCl [Normality]	13-Jan-20	09:42	17-Jan-20	12:37	0.10	0.10
NaOH [Normality]	13-Jan-20	09:42	17-Jan-20	12:37	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14-Jan-20	09:36	17-Jan-20	12:37	34.81	35.54
Final pH [no unit]	14-Jan-20	09:36	17-Jan-20	12:37	1.52	1.54
NP [t CaCO3/1000 t]	14-Jan-20	09:36	17-Jan-20	12:37	78.4	84.9
AP [t CaCO3/1000 t]	22-Jan-20	09:23	22-Jan-20	09:24	49.4	50.0
Net NP [t CaCO3/1000 t]	22-Jan-20	09:23	22-Jan-20	09:24	29.0	34.9
NP/AP [ratio]	22-Jan-20	09:23	22-Jan-20	09:24	1.59	1.70
S [%]	09-Jan-20	17:09	22-Jan-20	09:23	1.58	1.76
Acid Leachable SO4-S [%]	22-Jan-20	07:12	22-Jan-20	09:23	< 0.02	0.16

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 01	6: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 19
Sulphide [%]	22-Jan-20	07:10	22-Jan-20	09:23	1.58	1.60
C [%]	09-Jan-20	17:09	14-Jan-20	08:53	1.20	1.29
CO3 [%]	14-Jan-20	08:08	14-Jan-20	08:53	4.12	4.39

*NP (Neutralization Potential)

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

Weight of Sample

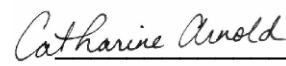
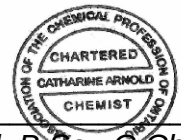
*AP (Acid Potential) = % Sulphide Sulphur $\times$ 31.25

*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.



 Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
 Environment, Health & Safety

APPENDIX F: FILTERED TAILINGS COMPOSITION DATA



SGS Canada Inc.

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MEL

19-July-2019

Date Rec. : 05 July 2019
LR Report: CA15082-JUL19
Reference: PO# 770080

Copy: #1

CERTIFICATE OF ANALYSIS

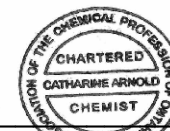
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-Solid 6/02/19	6: Tailings-Solid 6/05/19	7: Tailings-Solid 6/10/19	8: Tailings-Solid 6/16/19	9: Tailings-Solid 6/30/19
Sample Date & Time					02-Jun-19 14:30	05-Jun-19 07:45	10-Jun-19 10:00	16-Jun-19 11:00	30-Jun-19 10:40
Ag [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	< 1	< 1	1	< 1	< 1
Al [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	47000	45000	44000	43000	48000
As [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	9100	9400	9600	12000	9900
Ba [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	590	520	410	480	520
Be [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	1.0	1.0	0.85	0.94	0.91
Bi [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	1.0	0.73	1.3	1.1	1.2
Ca [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	30000	31000	28000	29000	27000
Cd [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	0.23	0.19	0.22	0.23	0.21
Co [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	13	11	12	12	13
Cr [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	160	140	200	160	200
Cu [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	120	75	160	120	140
Fe [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	120000	120000	110000	120000	100000
K [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	12000	12000	12000	13000	13000
Li [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	18	16	15	15	15
Mg [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	11000	10000	9500	10000	9900
Mn [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	490	490	430	460	460

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-Solid 6/02/19	6: Tailings-Solid 6/05/19	7: Tailings-Solid 6/10/19	8: Tailings-Solid 6/16/19	9: Tailings-Solid 6/30/19
Mo [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	9.8	8.2	12	7.8	9.9
Na [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	12000	11000	15000	11000	16000
Ni [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	33	29	31	31	35
P [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	610	610	500	590	500
Pb [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	500	350	770	410	660
Sb [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	2.7	2.9	2.8	3.1	2.8
Se [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	0.96	0.84	1.1	1.1	1.0
Sn [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	240	220	190	210	190
Ti [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	1900	1700	1800	1700	1800
Tl [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	0.33	0.30	0.29	0.33	0.36
U [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	1.1	0.99	0.98	1.0	1.1
V [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	64	62	61	61	68
Y [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	7.3	6.8	7.4	6.5	6.5
Zn [µg/g]	16-Jul-19	18:35	17-Jul-19	15:06	82	74	67	71	79

Sample IDs taken from bags. List was not provided.
Chromium may not recover completely depending on sample matrix.

Catharine Arnold
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Project Specialist,
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MEL

SGS Canada Inc.

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26-August-2019

Agnico Eagle Mines Limited

Attn : Dan Gorton/Jennifer Brown

Meliadine,
Canada, X0C 0A0
Phone: (819) 759-3555, Fax:(819) 759-3663

Date Rec. : 09 August 2019
LR Report: CA14332-AUG19
Reference: PO# 770080

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval (sys_loc_code=Tai Time	5: Talings-Solid lings-solid) Jul 7	6: Talings-Solid lings-solid) Jul 14	7: Talings-Solid lings-solid) Jul 21	8: Talings-Solid lings-solid) Jul 24
Sample Date & Time					07-Jul-19 14:30	14-Jul-19 07:45	21-Jul-19 10:00	24-Jul-19 11:00
Ag [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	< 1	< 1	< 1	< 1
Al [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	53000	47000	39000	44000
As [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	8400	7900	14000	10000
Ba [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	450	540	280	350
Be [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	1.0	1.1	1.0	1.2
Bi [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	1.4	1.3	1.0	0.94
Ca [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	30000	30000	27000	29000
Cd [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	0.35	0.70	0.30	0.65
Co [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	15	16	9.4	14
Cr [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	50	45	33	38
Cu [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	180	150	140	170
Fe [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	95000	120000	160000	140000
K [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	12000	11000	9200	11000
Li [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	17	16	16	16
Mg [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	9700	9400	8900	9100
Mn [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	500	470	420	450
Mo [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	10	8.7	7.0	6.4
Na [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	16000	8800	7100	7500
Ni [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	37	35	23	29
P [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	460	580	680	680
Pb [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	600	600	520	560
Sb [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	2.5	2.3	3.6	2.8
Se [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	0.97	0.97	1.4	1.1
Sn [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	< 6	< 6	< 6	< 6
Sr [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	230	240	260	270
Ti [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	1800	1300	1200	1300
Tl [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	0.40	0.43	0.33	0.42
U [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	1.1	1.0	0.95	1.1
V [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	73	64	48	57
Y [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	6.5	6.9	6.0	6.9
Zn [µg/g]	21-Aug-19	16:42	22-Aug-19	10:08	100	180	99	180

Sample IDs taken from bags. List was not provided.
Chromium may not recover completely depending on sample matrix.

SGS Canada Inc.

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LR Report : CA14332-AUG19

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MEL

12-September-2019

Date Rec. : 30 August 2019
LR Report: CA15534-AUG19
Reference: PO#770080

Copy: #1

CERTIFICATE OF ANALYSIS

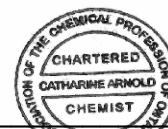
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug4	6: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug11	7: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug19	8: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug25
Sample Date & Time					04-Aug-19 07:55	11-Aug-19 11:42	19-Aug-19 08:56	25-Aug-19 14:00
Ag [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	< 1	< 1	< 1	< 1
Al [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	43000	39000	47000	48000
As [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	9900	12000	12000	8200
Ba [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	390	300	350	470
Be [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	0.96	0.86	0.92	0.94
Bi [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	1.1	1.1	0.91	1.0
Ca [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	18000	18000	19000	19000
Cd [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	0.42	0.31	0.45	0.46
Co [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	13	11	11	15
Cr [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	42	34	45	50
Cu [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	110	170	130	90
Fe [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	130000	150000	140000	110000
K [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	14000	11000	13000	14000
Li [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	16	15	18	18
Mg [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	9200	9200	10000	10000
Mn [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	440	440	440	500

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug4	6: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug11	7: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug19	8: Tailings-Solid (sys_loc_code=Taili ngs-solid) Aug25
Mo [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	7.0	6.0	6.6	10
Na [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	7200	7600	9100	10000
Ni [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	30	24	28	34
P [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	570	640	620	510
Pb [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	330	380	430	450
Sb [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	3.1	3.2	3.2	2.6
Se [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	0.92	1.2	1.1	0.99
Sn [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	< 6	< 6	< 6	< 6
Sr [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	250	250	270	250
Ti [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	1600	1500	1800	1800
Tl [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	0.41	0.30	0.35	0.39
U [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	1.1	0.96	1.0	1.0
V [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	56	52	59	70
Y [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	7.0	6.2	6.8	6.7
Zn [µg/g]	09-Sep-19	19:09	10-Sep-19	10:36	130	92	71	98

Sample IDs taken from bags. List was not provided.
Chromium may not recover completely depending on sample matrix.

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MEL

24-October-2019

Date Rec. : 04 October 2019

LR Report: CA14141-OCT19

Reference: P.O#770080

Copy: #1

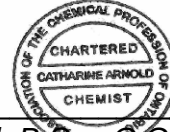
CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 1	6: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 15	7: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 22	8: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 30
Sample Date & Time					01-Sep-19 13:00	15-Sep-19 13:00	22-Sep-19 13:00	30-Sep-19 13:00
Ag [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	< 1	< 1	< 1	< 1
Al [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	50000	46000	48000	43000
As [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	11000	14000	8600	11000
Ba [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	570	620	550	570
Be [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	1.2	1.1	1.1	1.1
Bi [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	1.0	1.2	1.1	1.1
Ca [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	30000	29000	27000	29000
Cd [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	0.43	0.51	0.55	0.73
Co [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	15	12	13	14
Cr [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	57	46	46	55
Cu [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	110	120	120	150
Fe [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	110000	140000	110000	130000
K [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	14000	13000	12000	13000
Li [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	21	20	19	18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 1	6: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 15	7: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 22	8: Tailings-solid (sys_loc_cod=Taili ngs-solid) Sept 30
Mg [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	11000	10000	9200	10000
Mn [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	470	440	390	490
Mo [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	7.4	11	12	7.7
Na [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	10000	9300	12000	7100
Ni [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	38	32	32	34
P [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	590	700	530	630
Pb [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	310	400	490	330
Sb [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	3.1	3.3	2.5	2.8
Se [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	1.0	1.4	1.2	1.3
Sn [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	< 6	< 6	< 6	< 6
Sr [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	270	300	260	270
Ti [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	1700	1600	1600	1400
Tl [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	0.41	0.36	0.37	0.42
U [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	1.1	1.1	1.1	1.1
V [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	78	65	63	68
Y [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	7.2	7.1	6.8	7.0
Zn [µg/g]	22-Oct-19	17:00	23-Oct-19	15:19	120	87	88	120

Chromium may not recover completely depending on sample matrix.

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MEL

28-January-2020

Date Rec. : 31 October 2019

LR Report: CA19197-OCT19

Reference: P.O#770080

Copy: #2

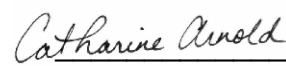
CERTIFICATE OF ANALYSIS

Final Report - Reissue

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid(sys _loc_cod=Tailings -solid)Oct6	6: Tailings-solid(sys _loc_cod=Tailings -solid)Oct14	7: Tailings-solid(sys _loc_cod=Tailings -solid)Oct20	8: Tailings-solid(sys _loc_cod=Tailings -solid)Oct27
Sample Date & Time					06-Oct-19 12:00	14-Oct-19 12:00	20-Oct-19 11:33	27-Oct-19 10:00
Ag [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	< 1	< 1	< 1	< 1
Al [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	44000	43000	47000	49000
As [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	9500	10000	9400	12000
Ba [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	580	520	500	530
Be [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	1.0	0.96	0.92	0.97
Bi [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	0.79	0.95	0.83	1.0
Ca [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	28000	27000	27000	30000
Cd [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	0.54	0.49	0.91	0.73
Co [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	14	14	17	18
Cr [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	70	79	78	89
Cu [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	130	120	130	160
Fe [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	130000	120000	100000	110000
K [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	14000	14000	14000	15000
Li [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	17	16	16	17

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid(sys Tailings_loc_cod=Tailings -solid)Oct6	6: Tailings-solid(sys Tailings_loc_cod=Tailings -solid)Oct14	7: Tailings-solid(sys Tailings_loc_cod=Tailings -solid)Oct20	8: Tailings-solid(sys Tailings_loc_cod=Tailings -solid)Oct27
Mg [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	10000	10000	9900	11000
Mn [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	490	470	490	540
Mo [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	5.5	5.7	5.4	6.7
Na [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	7600	7500	10000	9900
Ni [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	35	34	38	41
P [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	620	570	520	540
Pb [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	290	400	260	240
Sb [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	2.8	2.8	2.6	3.2
Se [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	0.92	1.0	1.1	1.2
Sn [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	< 6	< 6	< 6	< 6
Sr [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	270	250	240	250
Ti [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	1700	1600	1700	1900
Tl [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	0.41	0.39	0.44	0.49
U [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	1.1	1.1	1.1	1.1
V [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	64	61	73	81
Y [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	6.7	6.5	6.8	7.3
Zn [µg/g]	06-Nov-19	14:38	18-Nov-19	10:22	99	100	200	210

Chromium may not recover completely depending on sample matrix.



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MEL

24-December-2019

Date Rec. : 02 December 2019

LR Report: CA15008-DEC19

Reference: P.O#770080

Copy: #2

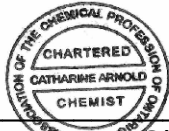
CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid(sys_ oc_code=Tailings-s olid) Nov 3	6: Tailings-solid(sys_ oc_code=Tailings-s olid) Nov 11	7: Tailings-solid(sys_ oc_code=Tailings-s olid) Nov 17	8: Tailings-solid(sys_ oc_code=Tailings-s olid) Nov 23
Sample Date & Time					03-Nov-19 11:45	11-Nov-19 12:00	17-Nov-19 16:08	23-Nov-19 15:00
Ag [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	< 1	< 1	< 1	< 1
Al [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	47000	44000	41000	44000
As [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	11000	12000	9800	10000
Ba [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	420	400	320	470
Be [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	1.0	1.1	1.0	1.1
Bi [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	0.82	0.86	0.88	0.89
Ca [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	27000	26000	28000	27000
Cd [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	0.39	0.29	0.27	0.34
Co [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	14	11	9.7	10
Cr [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	81	72	73	76
Cu [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	100	100	110	96
Fe [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	120000	130000	130000	130000
K [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	14000	13000	12000	14000
Li [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	19	18	17	19
Mg [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	11000	9900	9700	9500
Mn [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	440	410	420	400

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Tailings-solid(sys_l Approval oc_code=Tailings-s Time	5: Tailings-solid(sys_l oc_code=Tailings-s olid) Nov 3	6: Tailings-solid(sys_l oc_code=Tailings-s olid) Nov 11	7: Tailings-solid(sys_l oc_code=Tailings-s olid) Nov 17	8: Tailings-solid(sys_l oc_code=Tailings-s olid) Nov 23
Mo [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	7.5	6.8	8.2	7.7
Na [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	8600	8200	7800	7100
Ni [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	31	27	25	26
P [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	600	600	620	590
Pb [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	310	380	380	280
Sb [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	2.8	3.2	2.9	3.2
Se [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	0.95	0.84	0.77	< 0.7
Sn [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	< 6	< 6	< 6	< 6
Sr [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	250	250	250	240
Ti [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	1700	1600	1500	1500
Tl [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	0.38	0.35	0.35	0.38
U [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	1.0	1.0	1.0	1.1
V [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	61	52	49	51
Y [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	6.5	7.5	6.3	6.3
Zn [µg/g]	20-Dec-19	13:44	24-Dec-19	09:20	99	73	72	80

Chromium may not recover completely depending on sample matrix.

Catharine Arnold

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MEL

22-January-2020

Date Rec. : 06 January 2020

LR Report: CA14046-JAN20

Reference: P.O#770080

Copy: #1

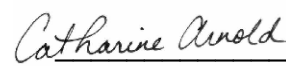
CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 01	6: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 19
Sample Date & Time					01-Dec-19 10:00	19-Dec-19 10:00
Ag [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	< 1	< 1
Al [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	44000	45000
As [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	12000	13000
Ba [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	490	500
Be [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	1.9	1.3
Bi [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	1.2	1.7
Ca [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	26000	28000
Cd [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	0.22	0.45
Co [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	10	14
Cr [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	50	60
Cu [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	95	100
Fe [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	130000	110000
K [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	13000	14000
Li [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	17	17

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Approval Date	4: Analysis Approval Time	5: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 01	6: Tailings-solid(sys_ oc_code=Tailings-s olid) Dec 19
Mg [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	9600	10000
Mn [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	400	470
Mo [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	9.3	9.8
Na [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	8300	9900
Ni [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	26	35
P [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	600	590
Pb [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	390	420
Sb [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	3.2	3.3
Se [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	0.86	1.1
Sn [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	< 6	< 6
Sr [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	230	240
Ti [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	1400	1300
Tl [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	0.40	0.41
U [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	1.1	1.1
V [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	53	66
Y [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	8.4	6.2
Zn [µg/g]	17-Jan-20	18:30	21-Jan-20	15:30	81	99

Chromium may not recover completely depending on sample matrix.



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