

Appendix 10: 2022 Metal Leaching and Acid Rock Drainage Monitoring Report



AGNICO EAGLE
MELIADINE

Meliadine Gold Mine

2022 Metal Leaching and Acid Rock Drainage Monitoring Report

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March 2023

Table of Contents

1	Introduction	1
2	Sampling	1
2.1	Underground Waste Rock	1
2.2	Tiriganiaq Open Pit 1 Waste Rock	3
2.3	Filtered Tailings.....	5
3	Laboratory Testing	6
4	Results & Discussion	6
4.1	Underground Waste Rock	7
4.1.1	ARD Potential.....	7
4.1.2	Metal Leaching	8
4.2	Tiriganiaq Open Pit 1 Waste Rock.....	10
4.2.1	ARD Potential.....	10
4.2.2	Metal Leaching	11
4.3	Filtered Tailings.....	12
4.3.1	ARD Potential.....	12
4.3.2	Metal Leaching	15
4.4	Quality Assurance/Quality Control	16
5	Conclusion	17
6	References.....	18

List of Tables

Table 1: Summary Statistics for 2022 ARD and Arsenic Underground Results.	7
Table 2: Summary Statistics for 2022 ARD and Arsenic TIR01 Results.....	10
Table 3: Summary Statistics for 2022 ARD and Arsenic Filtered Tailings Results.....	12

List of Figures

Figure 1 : Isometric view looking southwest and down of the Tiriganiaq Underground ARD/ML sampling locations (in red).	2
Figure 2: Plan view of the TIR01 planned pit (in grey) showing ARD/ML sampling locations.	4
Figure 3: Close-up of current TIR01 pit showing ARD/ML sampling locations.....	4
Figure 4: Vertical cross section of TIR01 ARD/ML sampling locations, looking west.	5
Figure 5: General site plan view with TIR01 open pit identified in addition to other site facilities.	5

Figure 6: ARD classification for 2022 Underground Waste Rock samples 8

Figure 7: Arsenic concentrations in 2022 Underground Waste Rock samples compared to values from project prediction studies. 9

Figure 8: ARD classification for 2022 TIR01 waste rock samples. 11

Figure 9: Arsenic concentrations in TIR01 waste rock samples compared to values from project prediction studies. 12

Figure 10: ARD classification of 2022 Operational Filtered Tailings samples. 13

Figure 11: NPR versus time for Operational Filtered Tailings samples..... 14

Figure 12: Solid Phase Arsenic results from 2019-2022 Operational Tailings samples 15

List of Appendices

- Appendix A: Underground Waste Rock Laboratory Certificates of Analysis
- Appendix B: TIR01 Waste Rock Laboratory Certificates of Analysis
- Appendix C: Filtered Tailings Laboratory Certificates of Analysis

1 INTRODUCTION

Agnico Eagle Mines Ltd. (Agnico Eagle) operates the Meliadine Gold Mine (the Mine) located approximately 25 kilometers (km) north of Rankin Inlet, Nunavut, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. The Mine is subject to the terms and conditions of both the amended Project Certificate 006 issued by the Nunavut Impact Review Board (NIRB) in accordance with the Nunavut Land Claims Agreement Article 12.5.12 on March 2, 2022 (NIRB, 2022) and Amended Water Licence No. 2AM-MEL1631 (the Licence), issued by the Nunavut Water Board (NWB) on May 13, 2021 (NWB, 2021).

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 acid rock drainage and metal leaching (ARD/ML) potential of excavated materials on-site.

As per Schedule B, Item 9 of the Licence, this report provides the ARD/ML characterization results of all samples collected in 2022 for geochemical analysis, including waste rock from the underground and open pit development areas, and filtered tailings from the Process Plant.

The Meliadine geological setting and baseline geochemical study are included in the Final Environmental Impact Statement (FEIS) for the Meliadine Gold Mine (Golder, 2014). The baseline geochemical study found that there was a low potential for ARD generation in the Tiriganiaq deposit. Arsenic was identified as the principal metal leaching constituent of concern due to the presence of both elevated arsenic concentrations and occurrence of arsenopyrite and because arsenic can be mobile under the neutral conditions which are likely to prevail at Meliadine (Golder 2014).

As the project baseline studies established that geochemical 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 practices are protective of the receiving environment. Results from this program are used to inventory the geochemical characteristics of the mined materials and not to make management decisions.

2 SAMPLING

2.1 UNDERGROUND WASTE ROCK

In 2022, 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 100 to 475 (i.e. 100 m to 475 m below ground surface). The samples were taken in footwall drives and from draw-points between loads. The samples are mainly taken from sedimentary rock with or without minor Iron Formation and from volcanic rock.

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

- Monthly sampling recovered 6 samples plus one replicate for a total of 7 samples per month.
- The choice of the sample location has been 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.

Each sample was approximately 1 kg and generally representative of the lithology being sampled.

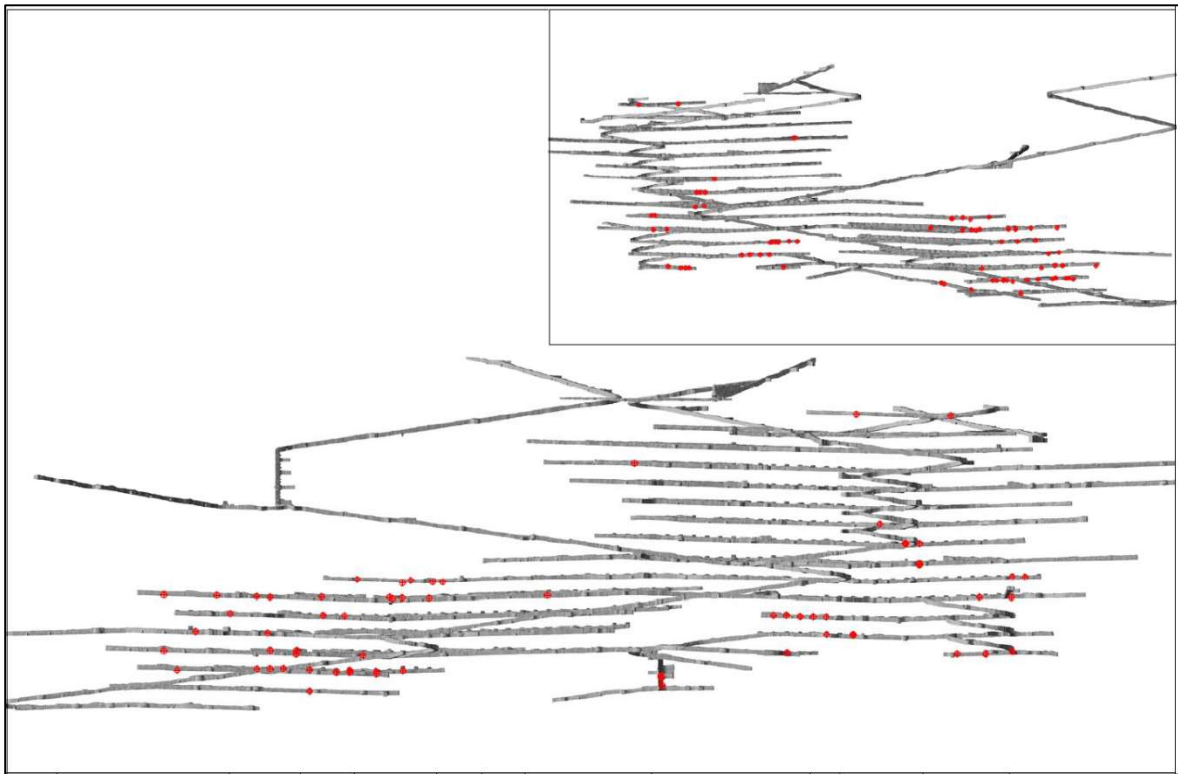


Figure 1 : Isometric view looking southwest and down of the Tiriganiaq Underground ARD/ML sampling locations (in red).

2.2 TIRIGANIAQ OPEN PIT 1 WASTE ROCK

In 2022, 336 samples were collected from the waste rock mined out of the TIR01 pit. The location of the samples is shown in Figures 2 and 3. Samples were selected with the intention of representing the quantity of material moved.

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

- Samples are collected from the cuttings piles associated with the production blast holes which are created by the reverse circulation (RC) drills in the pit. The distribution is as follows:
 - One ARD sample for every 12,500 tonnes of material moved; and
 - One duplicate for every 100,000 tonnes of material moved.
- The waste rock samples were taken from the greywacke and siltstone bands of the SAM Formation in the north of the pit and the Mafic Volcanics from the Wesmeg Formation from the south. The sample counts are as follows:
 - 285 Samples from the SAM Formation;
 - 47 Samples from the Wesmeg Formation; and
 - 4 Samples from the overburden.
 - Duplicates are included in the count for where samples were located.
- As the sampling method changed to target material, there were samples collected on all patterns (and benches) mined during 2022.

Each sample collected was approximately 1 kg and generally representative of the lithology being sampled.

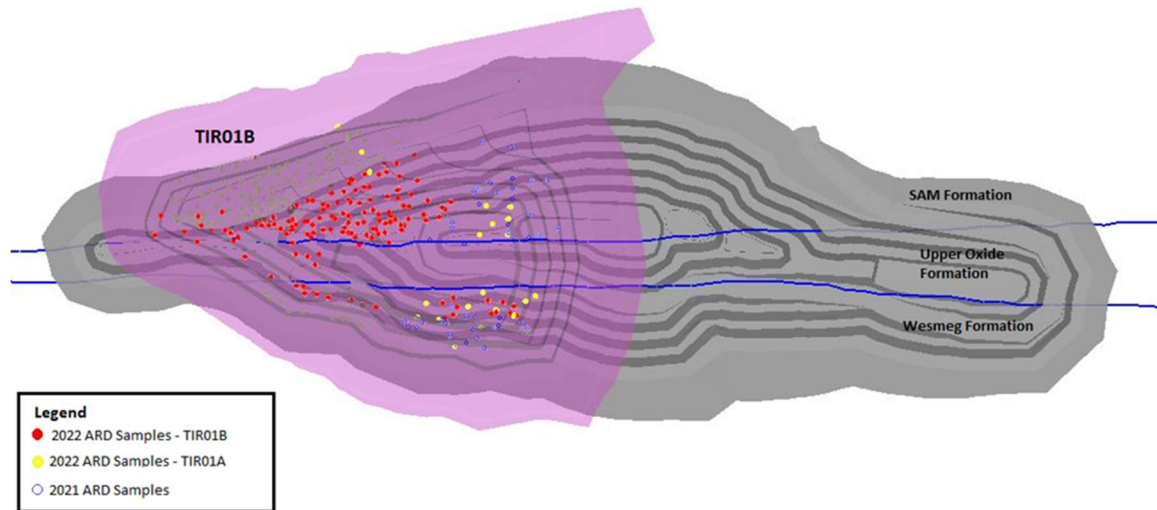


Figure 2: Plan view of the TIR01 planned pit (in grey) showing ARD/ML sampling locations.

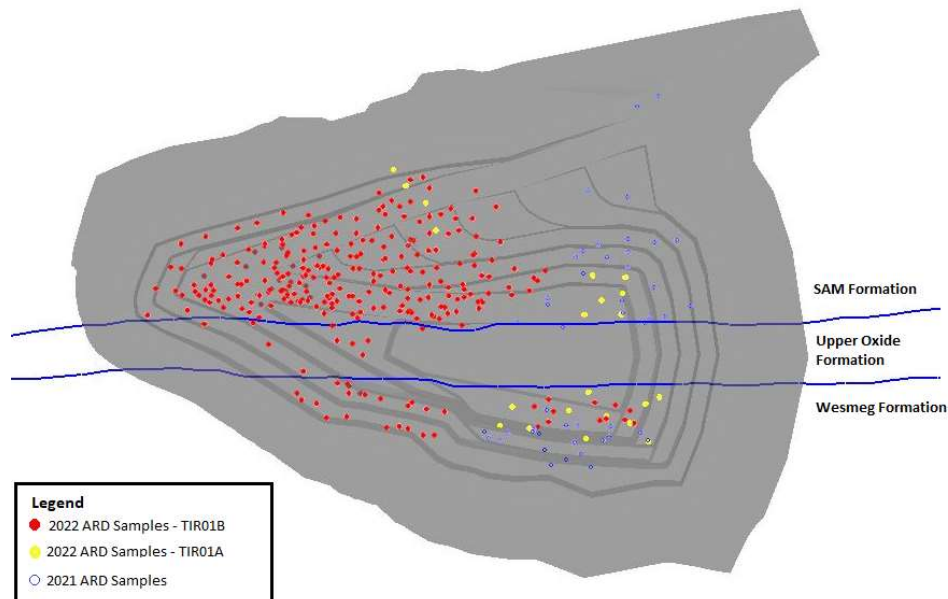


Figure 3: Close-up of current TIR01 pit showing ARD/ML sampling locations.

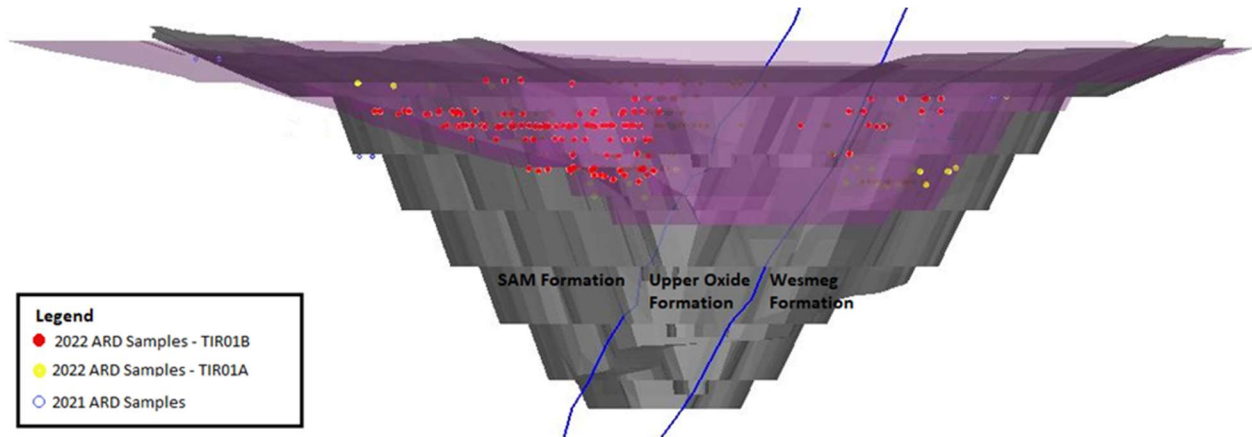


Figure 4: Vertical cross section of TIR01 ARD/ML sampling locations, looking west.

The location of TIR01 is presented in Figure 6 below.



Figure 5: General site plan view with TIR01 open pit identified in addition to other site facilities.

2.3 FILTERED TAILINGS

In 2022, 56 filtered tailings samples were taken at Meliadine, from processing of the underground and open pit ore. Two different types of samples of approximately 1 kg were taken on a regular basis throughout the year, except for occurrences when the process plant was shut down:

- Samples were taken in the mill immediately after the filter press on an approximate two week frequency; and
- Samples were collected consisting of a two week composite of 200 g of tailings collected daily after the filter press.

3 LABORATORY TESTING

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

- Acid-base accounting (ABA)
 - Paste pH
 - Total sulphur (LECO)
 - Sulphate sulphur (HCl leach)
 - Total carbon (LECO)
 - Carbonate (CO₃) by the difference of total carbon and total carbon analysis of the residue remaining following an HCl leach.
 - Neutralization potential (modified Sobek)
- Elemental analysis by aqua regia digestion and ICP-MS finish.

Following an investigation in 2021, SGS Lakefield changed the analytical method used to assess carbonate content from a pyrolysis technique to hydrochloric acid leach (ASTM E1915, MEND 2009) after it was revealed the former method was resulting in a bias low carbonate content. As such, assessment of carbonate content by hydrochloric acid leach was used on all samples analyzed in 2022. Details of the investigation and outcome can be found in the 2021 Metal Leaching and Acid Rock Drainage Monitoring Report submitted as Appendix 10 of the 2021 Annual Report.

4 RESULTS & DISCUSSION

ARD Calculations Methodology

Based on Agnico Eagle's Geochemical Characterization Guide (2021), results of Modified Sobek NP should be compared with NP calculated from carbonate, and subsequently the more conservative method used to represent Neutralization Potential (NP) in NPR calculation and ARD assessment.

In 2022, NP quantified from the Modified Sobek titration method (NP-mod) was consistently lower when compared with NP calculated from carbonate (NP-Ca) and therefore NP-mod was used for ARD assessment. It should be noted that in previous years, NP-Ca was used since it was the more conservative parameter at the time of interpretation. The change to NP-mod in 2021 compared with previous years is attributed to carbonate content which was biased low in

laboratory analyses conducted prior to April 2021 with the pyrolysis method, as discussed in Section 3.

Furthermore, following the carbonate re-analysis investigation detailed in Section 3, SRK Consulting recommended the use of Modified Sobek NP (NP-mod) for ARD potential calculations moving forward (SRK 2021) due to the presence of the iron and manganese bearing carbonates (ankerite and siderite), which cause NP-Ca to overestimate actual NP.

Acid Potential (AP) was calculated based on the amount of sulphide sulphur, calculated by difference of total sulphur and sulphate sulphur, as per Agnico Eagle's Geochemical Characterization Guide (2021). As stated in Agnico Eagle's 2020 Metal Leaching and Acid Rock Drainage Monitoring Report, 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 AP is the presence of sulphide minerals at Meliadine.

The potential for ARD was assessed using NP/AP ratios (or neutralization potential ratios, NPR). 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). Ratios between 1 and 2 are considered *uncertain*, meaning that there is an uncertain chance that the samples in question have the potential to produce ARD.

4.1 UNDERGROUND WASTE ROCK

4.1.1 ARD POTENTIAL

Complete 2022 Tiriganiaq underground waste rock samples ABA laboratory results are provided in Appendix A, with summary statistics provided in Table 1.

Table 1: Summary Statistics for 2022 ARD and Arsenic Underground Results.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	7.7	8.4	8.7	8.8	8.8	9.0	9.2	9.4
NP-mod	kg CaCO ₃ /t	20	31	45	65	97	119	260	279
AP	kg CaCO ₃ /t	0.06	0.9	1.9	3.4	5.6	6.2	13.8	50.9
Sulphur (total)	% S	0.03	0.04	0.12	0.19	0.25	0.30	0.59	1.70
Acid Leachable SO ₄ -S	% S	0.04	0.04	0.05	0.07	0.10	0.11	0.22	0.41
Carbon (total)	% C	0.28	0.41	0.62	0.83	1.33	1.78	3.57	4.00
Carbonate (CO ₃)	% CO ₃	1.3	1.9	3.0	4.1	6.5	8.3	17.7	18.6
NP-Ca	kg CaCO ₃ /t	21.0	32.1	49.3	68.8	107.6	137.6	295.6	310.0
NP/AP	ratio	1.4	5.6	11.1	19.6	48.1	38.5	115.0	1044.8
Arsenic	mg/kg	5	10	31	86	359	185	1970	3500

Notes: P stands for percentile (e.g. P5 equals 5th percentile); NP-mod stands for NP by Modified Sobek titration method; NP-Ca stands for NP by carbonate content by TIC.

ARD classification for 2022 samples is presented in Figure 6. As predicted by Golder (2014), the majority of operational waste rock samples collected to date are non-PAG.

Two (2) 2022 samples fall within the “uncertain” classification. These samples represent a total of 3575 tonnes of waste, of which 2872 tonnes were brought to surface. Underground waste brought to surface was placed on the TSF for progressive reclamation covering.

These samples are considered a low risk given the excess neutralization in all other samples collected.

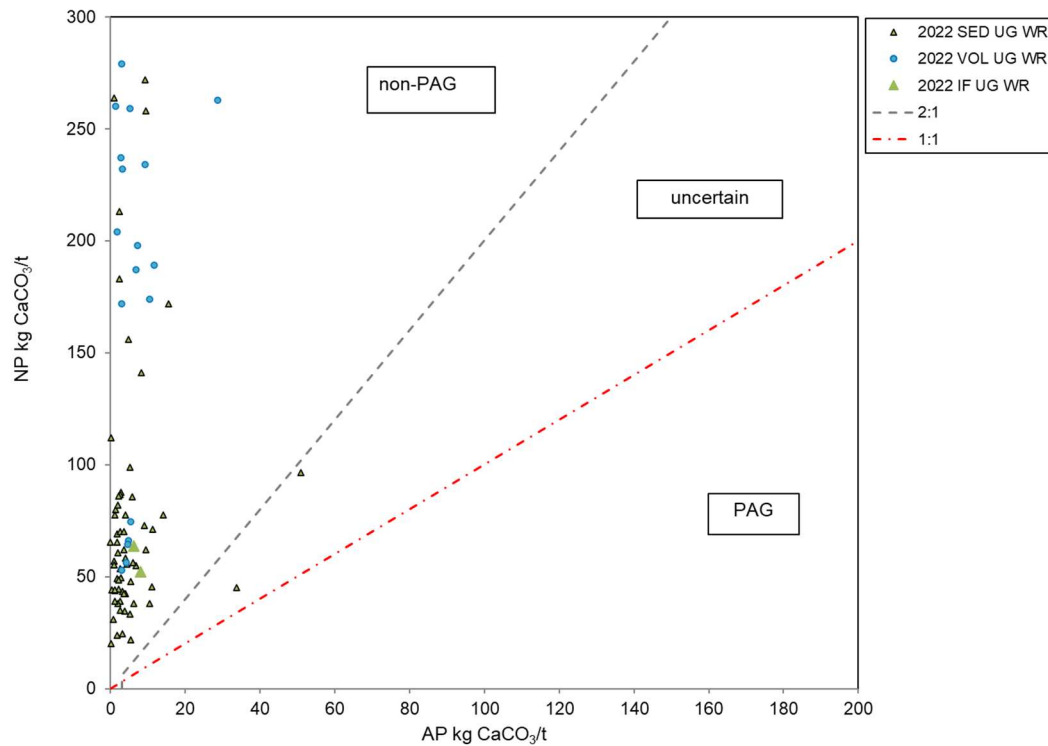


Figure 6: ARD classification for 2022 Underground Waste Rock samples

Note: SED is for sedimentary, VOL is for mafic volcanic, IF is 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 A.

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

shown in Figure 7, solid phase arsenic concentrations for samples collected between 2017 and 2022 mainly fall within the average concentration, with only one sample in the past six years exceeding the maximum concentration reported by Golder (2014).

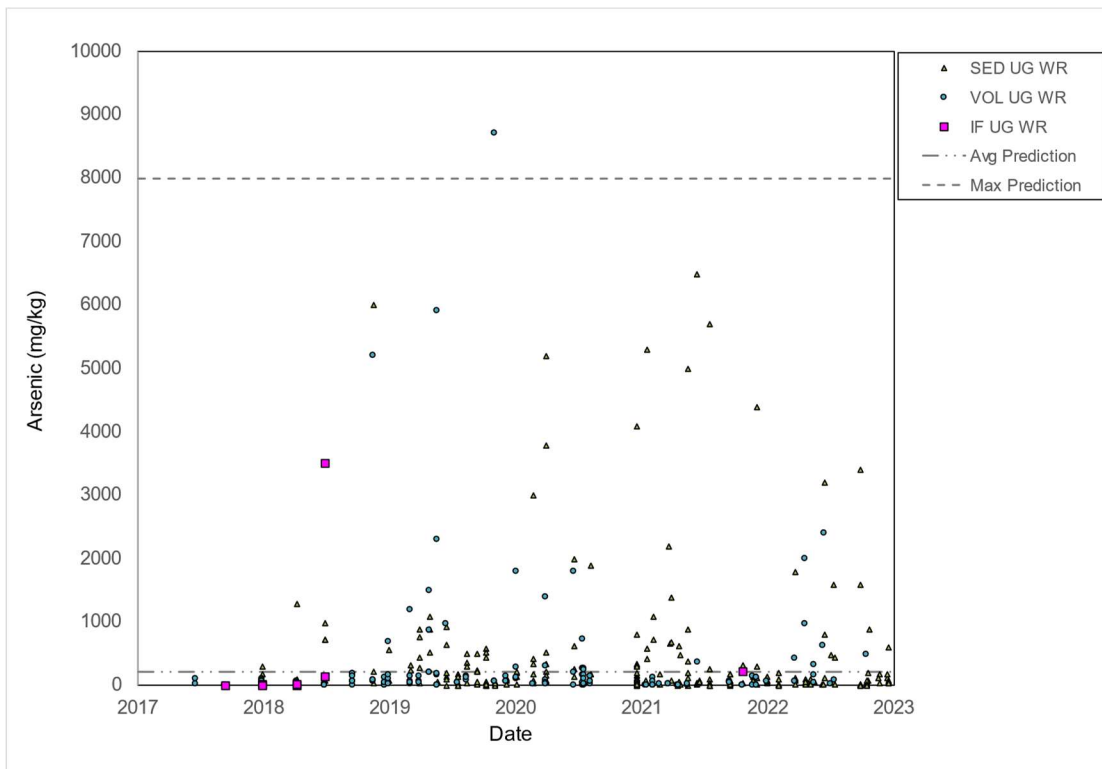


Figure 7: Arsenic concentrations in 2022 Underground Waste Rock samples compared to values from project prediction studies.

4.2 TIRIGANIAQ OPEN PIT 1 WASTE ROCK

4.2.1 ARD POTENTIAL

Complete 2022 TIR01 samples ABA laboratory results are provided in Appendix B, with summary statistics provided in Table 2.

Table 2: Summary Statistics for 2022 ARD and Arsenic TIR01 Results.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	8.1	8.5	8.8	9.0	8.9	9.1	9.3	9.5
NP-mod	kg CaCO ₃ /t	7	36	45	53	80	69	251	383
AP	kg CaCO ₃ /t	0.3	2.6	4.0	5.1	5.8	6.4	10.7	50.6
Sulphur (total)	% S	0.04	0.13	0.20	0.23	0.25	0.28	0.41	1.67
Acid Leachable SO ₄ -S	% S	0.04	0.04	0.04	0.06	0.07	0.09	0.13	0.34
Carbon (total)	% C	0.16	0.53	0.67	0.77	1.13	1.02	3.35	4.68
Carbonate (CO ₃)	% CO ₃	0.04	2.25	2.84	3.36	5.16	4.57	16.25	23.20
NP-Ca	kg CaCO ₃ /t	0.7	37.4	47.3	55.9	86.1	76.2	270.8	386.7
NP/AP	ratio	1	6	8	10	20	14	68	697
Arsenic	mg/kg	3	15	60	130	237	240	730	6700

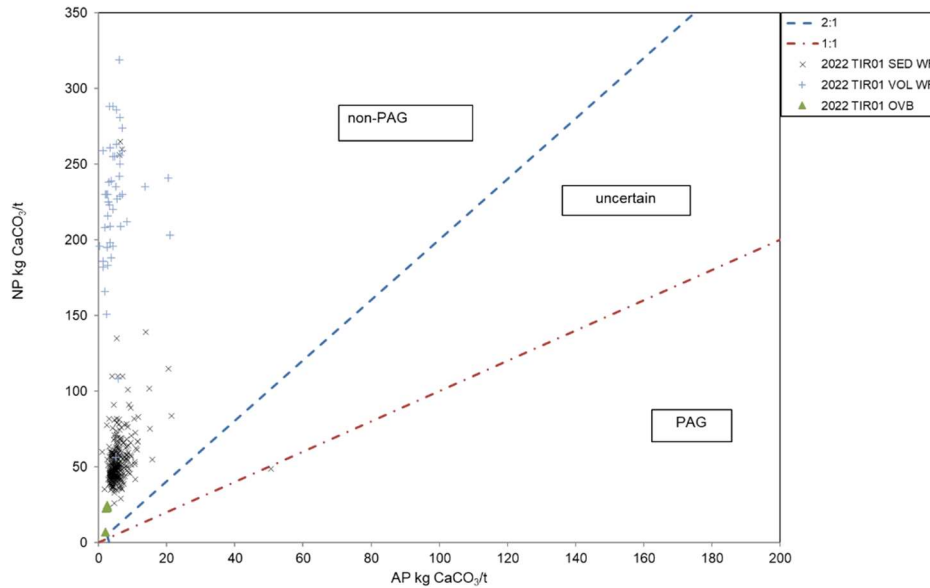
Notes: P stands for percentile (e.g. P5 equals 5th percentile); NP-mod stands for NP by Modified Sobek titration method; NP-Ca stands for NP by carbonate content by TIC.

Classification of TIR01 waste rock samples is provided in Figure 8. One sample collected in 2022 had an NPR below 1, with all remaining samples in 2022 yielding NPRs greater than 2. This sample, with an NPR of 0.96 (indicating PAG), was collected near a narrow, localized band of iron formation containing sulphides. This isolated zone terminates in the pit wall and does not continue in the rest of the future pit development area.

As TIR01 is often used to source rock for construction of infrastructure, an investigation was initiated into the potential for the rock represented by the PAG sample to have been used for fill outside of the waste rock storage facilities (WRSFs). The investigation revealed that the sample was collected from a large blast pattern consisting of 23,712 tonnes, of which 210 tonnes of rock was used as fill material on the mine service road to soften a road hump. The investigation concluded that the rock represented by the sample was not part of the material used for the roadwork and was instead deposited in WRSF.

As due diligence, Agnico Eagle will collect rock samples originating from this blast pattern from the fill used on the service road for additional ARD testing to confirm no PAG material was used.

This sample is considered low risk given the excess neutralization potential in the other samples collected in 2022.



Note: SED stands for sedimentary, VOL stands for mafic volcanic, OVB stands for overburden.

Figure 8: ARD classification for 2022 TIR01 waste rock samples.

4.2.2 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 2, with complete element composition results provided in Appendix B.

To ensure arsenic concentrations are within project predictions, results have been compiled and compared against average and maximum arsenic concentrations reported by Golder (2014). As shown in Figure 9, solid phase arsenic concentrations mainly fall within or slightly above the average concentration, with no samples exceeding the maximum concentration reported by Golder (2014).

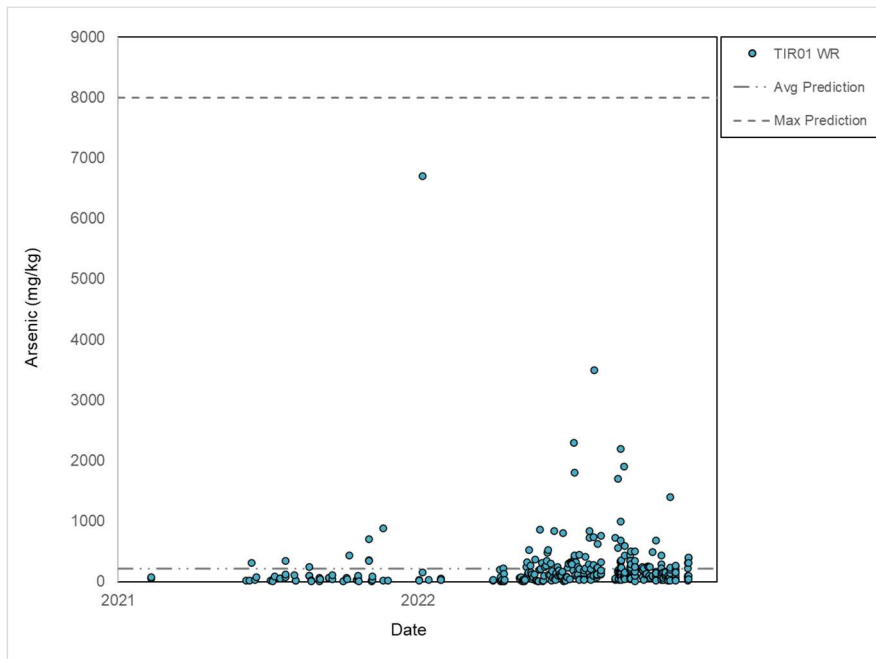


Figure 9: Arsenic concentrations in TIR01 waste rock samples compared to values from project prediction studies.

4.3 FILTERED TAILINGS

4.3.1 ARD POTENTIAL

Complete 2022 filtered tailings samples ABA laboratory results are provided in Appendix C with summary statistics provided in Table 3. The higher sulphur content in the filtered tailings compared to the waste rock is a result of the sulphides associated with gold in ore.

Table 3: Summary Statistics for 2022 ARD and Arsenic Filtered Tailings Results.

Parameter	Units	Min	P5	P25	Median	Mean	P75	P95	Max
Paste pH	s.u.	8.2	8.2	8.3	8.4	8.5	8.5	9.3	9.6
NP-mod	kg CaCO3/t	3	31	80	88	82	93	102	106
AP	kg CaCO3/t	23.4	27.7	32.2	36.1	36.9	41.8	48.5	50.9
Sulphur (total)	% S	1.07	1.12	1.18	1.29	1.33	1.46	1.69	1.75
Acid Leachable SO4-S	% S	0.04	0.05	0.08	0.14	0.15	0.19	0.31	0.47
Carbon (total)	% C	1.20	1.22	1.32	1.36	1.36	1.42	1.54	1.63
Carbonate (CO3)	% CO3	5.51	5.59	5.93	6.21	6.25	6.54	6.87	7.74
NP-Ca	kg CaCO3/t	92	93	99	103	104	109	114	129
NP/AP	ratio	0.1	1.0	1.9	2.4	2.29	2.8	3.2	3.5
Arsenic	mg/kg	5800	6500	7850	8800	9146	10000	12250	14000

Notes: P stands for percentile (e.g. P5 equals 5th percentile); NP-mod stands for NP by Modified Sobek titration method; NP-Ca stands for NP by carbonate content by TIC.

ARD classification for 2022 samples is provided in Figure 10. Samples collected in 2022 had an average NPR of 2.3, while three (3) samples had an NPR below 1.

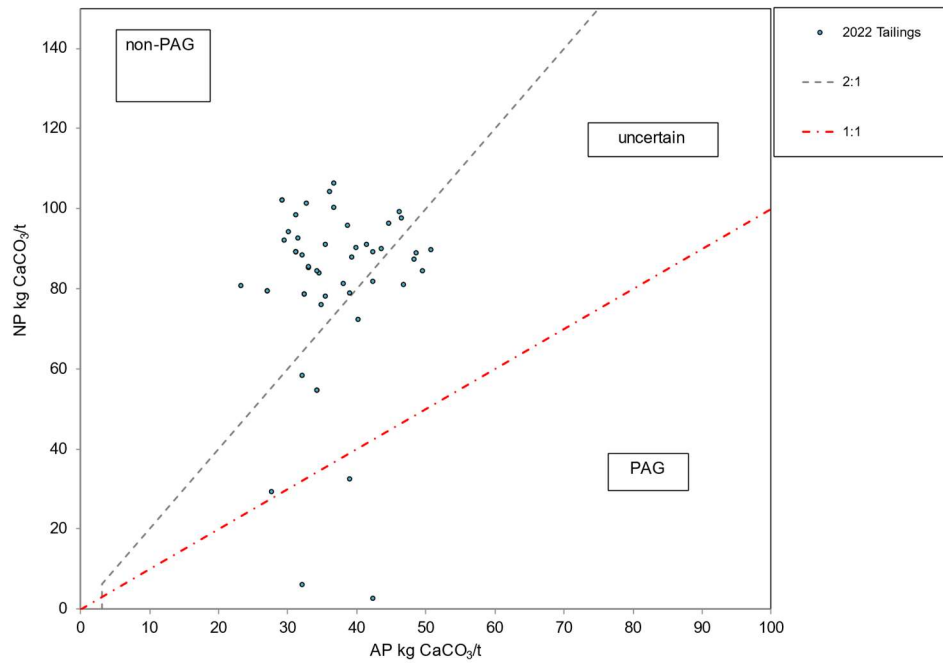


Figure 10: ARD classification of 2022 Operational Filtered Tailings samples.

Project prediction studies in the FEIS estimated an NPR of 2.7 for the tailings, using NP-mod. Filtered tailings NPR values over time are presented in Figure 11. A slight increasing trend is generally observed for NPR, indicating decreasing ARD potential. During early mining operations, some of the highest grade material was targeted, therefore ore with higher sulphur content was being processed. It is expected that this decreasing ARD potential will continue as the mine develops and lower grade material is produced from underground, and as the open pits continue to be developed.

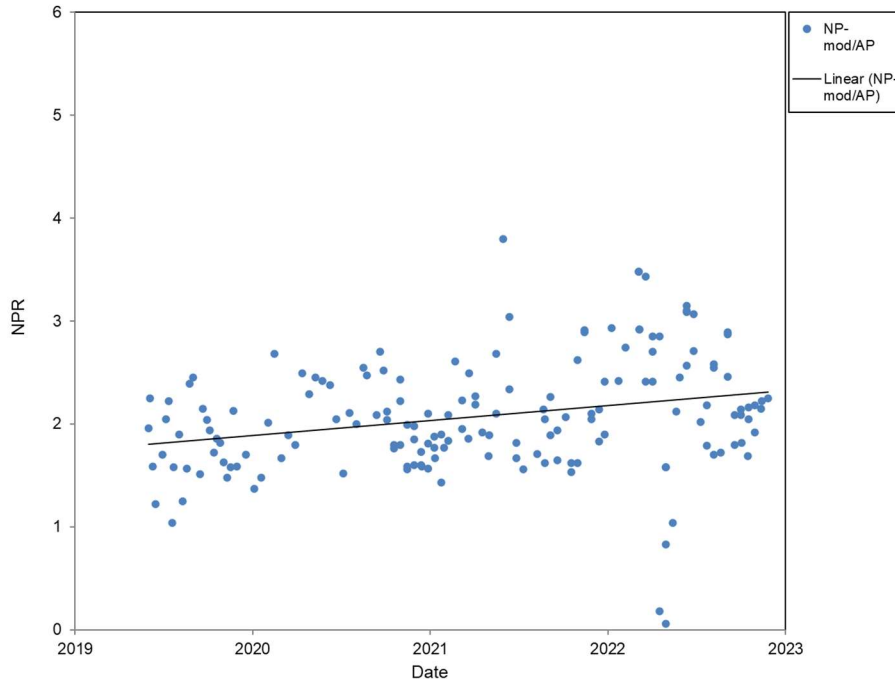


Figure 11: NPR versus time for Operational Filtered Tailings samples

Despite the presence of tailings samples classified as PAG and uncertain from 2019 to 2022 sampling, Agnico Eagle does not consider the tailings to pose an ARD risk for the site, for the following 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 freeze back will occur before (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. The late potential onset of acidic conditions is based on the slow oxidation rate of sulphides, and therefore slow rate of neutralization consumption of carbonates and if slow enough, silicate neutralization. While tailings may be classified as uncertain, they still contain enough carbonate to neutralize the acidity produced until many decades after operations have ended. Furthermore, it is also worth noting that the analytical laboratory completed an investigation showing that past carbonate analyses were biased low (section 3), meaning that there is more carbonate than previously shown, which would only extend the delay to consumption of carbonate; 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.

4.3.2 METAL LEACHING

A statistical summary for arsenic is provided in **Erreur ! Source du renvoi introuvable.3**, with complete element composition results provided in Appendix C. Given the presence of arsenic in the ore rock and background concentrations in the area, results for this element are summarized below and presented in Figure 12.

Arsenic concentrations in filtered tailings samples ranged from a minimum of 5,800 mg/kg to a maximum of 14,000 mg/kg, with a median of 8,800 mg/kg in 2022. These values are higher when compared to waste rock since ore is associated with increased abundances of sulphides, including arsenopyrite.

Forecasted arsenic concentrations in surface contact water across life of mine are provided in the water balance and water quality model (WBWQM) as part of the Annual Report.

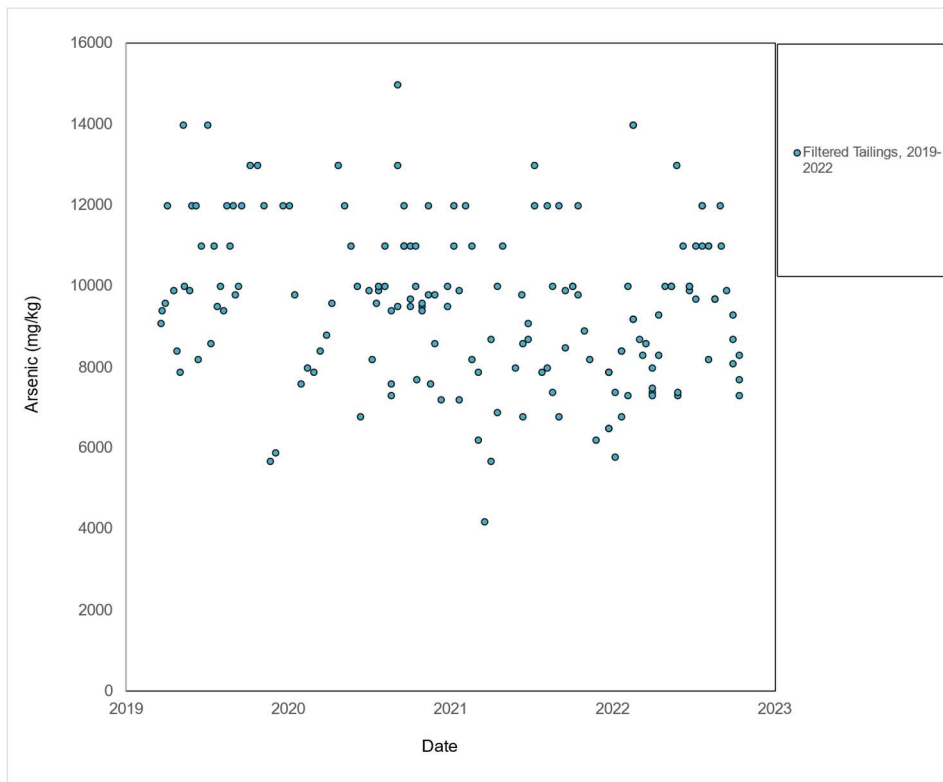


Figure 12: Solid Phase Arsenic results from 2019-2022 Operational Tailings samples

4.4 QUALITY ASSURANCE/QUALITY CONTROL

Internal laboratory quality assurance and quality control (QA/QC) testing was carried out at SGS, which involved analysis of duplicates, blanks and internal standards. Any laboratory duplicate results that does not adhere to the required precision specifications would trigger a re-analysis.

Field duplicates were collected in 2022 as part of the internal quality control procedures. Duplicate samples are collected simultaneously in the field at the same sampling location and using identical sampling procedures as the parent samples. Duplicates are used to assess sampling variability and sample homogeneity. In 2022:

- Nine (9) duplicates of underground waste rock were collected from a total of 75 samples, representing 12% of samples taken;
- Twenty seven (27) duplicates of open pit waste rock were collected from a total of 309 samples), representing 8.7% of samples taken;
- Six (6) duplicates were taken for the operational filtered tailings from a total of 50 samples, representing 12% of samples taken.

Overall, collected and analyzed duplicate samples represent 9.7% of the samples collected throughout 2022 for geochemical monitoring (434 samples in total).

5 CONCLUSION

Based on geochemical characterization results obtained to date for the waste rock samples from underground/open pit development areas, the risk for ARD or metal leaching from the excavated materials is considered low. Results are within the prediction studies for the project.

Two samples from the underground mine had NPRs between 1 and 2, indicating uncertain ARD potential. Despite this classification, these samples do not represent a risk due to the excess neutralization potential of the remaining underground waste rock samples collected in 2022. Arsenic concentrations in underground waste rock samples in 2022 were higher on average than the Golder (2014) average prediction but remain well below the maximum prediction.

One sample from the open pit mine had an NPR slightly below 1. However, this sample was collected near a narrow band of iron formation with sulphide mineralization. This zone terminates in the pit wall and does not continue in the rest of the future pit development area. Thus, the sample does not represent a risk due to the localization of this zone, and the excess neutralization potential of the remaining open pit waste rock samples collected in 2022. Arsenic concentrations in open pit waste rock samples in 2022 were slightly higher on average than the Golder (2014) average prediction but remain well below the maximum prediction.

The filtered tailings results show a slightly lower NPR than what was predicted in the baseline study. However, they are assessed to pose a low risk for ARD due to the management systems in place and closure approach developed for the storage facility. Indeed, for samples in uncertain and PAG classifications, it is important to put context on the classification in terms of the management and closure plan for the tailings. The classification indicates that the tailings samples in question have the potential to produce ARD. This classification is also for sulphidic material that is in a fully oxygenated atmosphere and above freezing conditions. The management of the tailings in a dry, compacted, and frozen facility will ensure that the potential of these tailings to produce ARD is inhibited. The progressive covering of the tailings during operations, limited oxygen availability, and low potential for contact with water further mitigate conditions for ARD generation.

Furthermore, it should be noted that during early mining operations, some of the highest grade material was targeted, which would also result in ore with highest sulphur content being processed. In 2022, filtered tailings ARD potential decreased compared to previous years. It is expected that this decreasing trend will continue as the mine develops, and lower grade material from underground, but notably the open pits is processed.

In conclusion, based on the 2022 monitoring results for ARD/ML characterization, no additional management criteria is required at the moment for mine waste materials at Meliadine, in line with the predictions from the project baseline studies (Golder 2014). Geochemical monitoring for operational waste rock, tailings and other excavated or construction material will continue in 2023 and results will be reviewed internally as they become available to ensure there is no risk to the receiving environment.

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SRK Consulting (Canada) Inc., 2021. Draft Technical Memo – Meliadine Mine Carbonate Bias Assessment.

Appendix A: Underground Waste Rock Laboratory
Certificates of Analysis



SGS Canada Inc.
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Phone: 705-652-2000 FAX: 705-652-6365

mel

Project : P.O# 770080

18-March-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 03 March 2022
LR Report: CA14059-MAR22

Meliadine
, Nunavut
X0C 0A0, Canada

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM18224 1 DP1-450-125 KSC-WA	CAMLM18224 2 CC1-425-109 KSC-WA	CAMLM18224 3 DP2-450-118 KSC-WA
Sample Date & Time					N/A	N/A	N/A
Paste pH [no unit]	10-Mar-22	08:30	14-Mar-22	09:49	8.97	8.82	8.40
Fizz Rate [no unit]	10-Mar-22	08:30	14-Mar-22	09:49	3	3	3
Sample weight [g]	10-Mar-22	08:30	14-Mar-22	09:49	2.02	1.99	2.11
HCl_add [mL]	11-Mar-22	06:30	14-Mar-22	09:49	53.10	71.70	67.00
HCl [Normality]	10-Mar-22	08:30	14-Mar-22	09:49	0.10	0.10	0.10
NaOH [Normality]	10-Mar-22	08:30	14-Mar-22	09:49	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11-Mar-22	08:36	14-Mar-22	09:49	20.77	37.16	34.22
Final pH [no unit]	11-Mar-22	08:36	14-Mar-22	09:49	1.90	1.54	1.73
NP [t CaCO3/1000 t]	11-Mar-22	08:36	14-Mar-22	09:49	80.0	86.8	77.7
AP [t CaCO3/1000 t]	18-Mar-22	10:29	18-Mar-22	10:30	1.25	2.50	14.1
Net NP [t CaCO3/1000 t]	18-Mar-22	10:29	18-Mar-22	10:30	78.8	84.3	63.6
NP/AP [ratio]	18-Mar-22	10:29	18-Mar-22	10:30	64.0	34.7	5.53
S [%]	17-Mar-22	17:36	18-Mar-22	10:30	0.082	0.134	0.732
Acid Leachable SO4-S [%]	18-Mar-22	10:29	18-Mar-22	10:30	0.04	0.05	0.28
Sulphide [%]	17-Mar-22	19:52	18-Mar-22	10:30	0.04	0.08	0.45
C [%]	17-Mar-22	17:36	18-Mar-22	10:30	1.06	1.29	1.12
CO3 (HCl) [%]	17-Mar-22	10:22	18-Mar-22	10:30	5.29	5.91	5.58

Analysis	8:	9:	10:	11:
	CAMLM18224 4 FW1-325-W KSC-WA	CAMLM18224 5 DP1-400-161 KSC-WA	CAMLM18224 6 DP2-300-166 KSC-WA	CAMLM18224 7 DP2-300-166 KSC-WA
Sample Date & Time	N/A	N/A	N/A	N/A
Paste pH [no unit]	8.63	8.56	9.19	9.20
Fizz Rate [no unit]	4	3	3	3

Analysis	8: CAMLM18224 4 FW1-325-W KSC-WA	9: CAMLM18224 5 DP1-400-161 KSC-WA	10: CAMLM18224 6 DP2-300-166 KSC-WA	11: CAMLM18224 7 DP2-300-166 KSC-WA
Sample weight [g]	2.06	2.06	2.02	2.10
HCl_add [mL]	53.50	140.00	42.70	39.00
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]	28.46	52.28	16.32	20.61
Final pH [no unit]	1.51	1.63	1.77	1.55
NP [t CaCO3/1000 t]	60.8	213	65.3	43.8
AP [t CaCO3/1000 t]	1.88	2.50	1.25	1.25
Net NP [t CaCO3/1000 t]	58.9	210	64.0	42.6
NP/AP [ratio]	32.4	85.2	52.2	35.0
S [%]	0.121	0.406	0.057	0.091
Acid Leachable SO4-S [%]	0.06	0.33	< 0.04	0.05
Sulphide [%]	0.06	0.08	< 0.04	0.04
C [%]	0.819	2.75	0.837	0.530
CO3 (HCl) [%]	4.10	13.8	4.15	2.64

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project : PO# 770080

18-March-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 03 March 2022
LR Report: CA14060-MAR22

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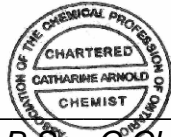
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAMLM182241 DP1-450-125 KSC-WA	6: CAMLM182242 CC1-425-109 KSC-WA	7: CAMLM182243 DP2-450-118 KSC-WA	8: CAMLM182244 FW1-325-W KSC-WA
Sample Date & Time					N/A	N/A	N/A	N/A
Ag [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	73000	63000	64000	75000
As [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	14	210	16	97
Ba [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	550	1200	370	550
Be [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	0.98	2	0.76	0.98
Bi [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	0.24	0.11	0.46	0.16
Ca [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	32000	32000	28000	16000
Cd [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	0.05	0.06	0.07	0.08
Co [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	10	4	10	17
Cr [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	16	33	10	99
Cu [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	16	14	89	30
Fe [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	95000	53000	88000	38000
K [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	16000	28000	11000	17000
Li [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	29	19	19	25
Mg [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	7900	6000	6900	12000
Mn [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	390	280	360	420
Mo [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	0.7	0.9	3.5	1.1
Ni [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	19	17	15	60
Pb [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	7	9	20	13
Sb [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	< 6	< 6	< 6	< 6
Sr [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	450	230	460	260
Ti [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	2200	1800	1700	2900
Tl [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	0.26	0.57	0.30	0.39
U [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	0.71	1.08	1.20	1.37
V [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	42	39	46	85
Y [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	5.93	6.33	7.03	7.37
Zn [µg/g]	16-Mar-22	12:53	18-Mar-22	13:06	50	24	62	64

Analysis	9: CAMLM182245 DP1-400-161 KSC-WA	10: CAMLM182246 DP2-300-166 KSC-WA	11: CAMLM182247 DP2-300-166 KSC-WA
Sample Date & Time	N/A	N/A	N/A
Ag [µg/g]	< 0.5	< 0.5	< 0.5
Al [µg/g]	67000	99000	98000
As [µg/g]	22	5.9	4.5
Ba [µg/g]	260	540	580
Be [µg/g]	0.57	0.93	0.94
Bi [µg/g]	< 0.09	< 0.09	0.10
Ca [µg/g]	95000	30000	20000
Cd [µg/g]	0.15	0.04	0.04
Co [µg/g]	54	10	12
Cr [µg/g]	170	14	19
Cu [µg/g]	115	20	27
Fe [µg/g]	74000	33000	42000
K [µg/g]	2500	16000	17000
Li [µg/g]	54	25	31
Mg [µg/g]	22000	5900	7800
Mn [µg/g]	2200	330	280
Mo [µg/g]	0.5	0.6	0.4
Ni [µg/g]	130	20	25
Pb [µg/g]	5	8	7
Sb [µg/g]	0.9	< 0.8	< 0.8
Se [µg/g]	0.8	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6
Sr [µg/g]	230	500	420
Ti [µg/g]	4900	3000	2900
Tl [µg/g]	0.05	0.27	0.31
U [µg/g]	0.31	1.11	1.12
V [µg/g]	250	42	47
Y [µg/g]	19.6	9.35	8.63
Zn [µg/g]	98	41	59

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Project Specialist,
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Project : PO# 770080

17-October-2022

Date Rec. : 29 September 2022
LR Report: CA19181-SEP22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAML187 051_KSC-WA	CAML187 052_KSC-WA	CAML187 053_KSC-WA
Sample Date & Time					N/A	N/A	N/A
Paste pH [no unit]	11-Oct-22	15:58	13-Oct-22	09:45	9.02	8.91	8.75
Fizz Rate [rating]	11-Oct-22	15:58	13-Oct-22	09:45	4	3	4
Sample weight [g]	11-Oct-22	15:58	13-Oct-22	09:45	1.97	2.06	1.98
HCl_add [mL]	11-Oct-22	15:58	13-Oct-22	09:45	65.00	72.00	140.00
HCl [Normality]	11-Oct-22	15:58	13-Oct-22	09:45	0.10	0.10	0.10
NaOH [Normality]	11-Oct-22	15:58	13-Oct-22	09:45	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11-Oct-22	15:58	13-Oct-22	09:45	34.45	53.65	72.02
Final pH [no unit]	11-Oct-22	15:58	13-Oct-22	09:45	1.67	1.54	1.61
NP [t CaCO3/1000 t]	11-Oct-22	15:58	13-Oct-22	09:45	77.5	44.5	172
AP [t CaCO3/1000 t]	13-Oct-22	16:17	13-Oct-22	16:17	1.25	1.25	15.6
Net NP [t CaCO3/1000 t]	13-Oct-22	16:17	13-Oct-22	16:17	76.2	43.2	156
NP/AP [ratio]	13-Oct-22	16:17	13-Oct-22	16:17	62.0	35.6	11.0
S [%]	12-Oct-22	07:09	13-Oct-22	16:16	0.095	0.071	0.556
Acid Leachable SO4-S [%]	13-Oct-22	16:16	13-Oct-22	16:16	0.06	< 0.04	0.06
Sulphide [%]	13-Oct-22	11:59	13-Oct-22	16:16	0.04	0.04	0.50
C [%]	12-Oct-22	07:09	13-Oct-22	16:16	0.780	0.572	2.45
CO3 (HCl) [%]	14-Oct-22	12:58	14-Oct-22	15:00	3.80	2.42	12.0

Analysis	8:	9:	10:	11:
	CAML187 054_KSC-WA	CAML187 055_KSC-WA	CAML187 056_KSC-WA	CAML187 057_KSC-WA
Sample Date & Time	N/A	N/A	N/A	N/A
Paste pH [no unit]	8.70	8.49	9.36	9.03
Fizz Rate [rating]	4	4	4	4
Sample weight [g]	1.98	2.00	2.09	2.09
HCl_add [mL]	115.00	70.00	60.00	55.00
HCl [Normality]	0.10	0.10	0.10	0.10

Analysis	8:	9:	10:	11:
	CAMLCM187 054_KSC-WA	CAMLCM187 055_KSC-WA	CAMLCM187 056_KSC-WA	CAMLCM187 057_KSC-WA
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	59.21	38.96	32.71	31.89
Final pH [no unit]	1.60	1.92	1.61	1.77
NP [t CaCO3/1000 t]	141	77.6	65.3	55.3
AP [t CaCO3/1000 t]	8.12	4.06	1.25	1.25
Net NP [t CaCO3/1000 t]	133	73.5	64.0	54.0
NP/AP [ratio]	17.3	19.1	52.2	44.2
S [%]	0.303	0.186	0.052	0.029
Acid Leachable SO4-S [%]	0.04	0.06	0.05	< 0.04
Sulphide [%]	0.26	0.13	< 0.04	< 0.04
C [%]	1.79	0.850	0.821	0.673
CO3 (HCl) [%]	8.72	4.16	4.02	3.28

ABA - Modified Sobek

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

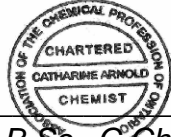
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

18-March-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 08 February 2022
LR Report: CA15155-FEB22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CALMM-2339 65 DP1-325-130 KSC-WA	CALMM-23396 6 FW1-325-W KSC-WA	CALMM-2339 67 DP2-425-119 KSC-WA
Sample Date & Time					08-Feb-22	08-Feb-22	08-Feb-22
Paste pH [no unit]	22-Feb-22	08:00	25-Feb-22	10:23	9.08	9.11	9.20
Fizz Rate [no unit]	22-Feb-22	08:00	25-Feb-22	10:23	2	3	3
Sample weight [g]	22-Feb-22	08:00	25-Feb-22	10:23	2.04	2.02	2.01
HCl_add [mL]	23-Feb-22	06:30	25-Feb-22	10:23	44.50	47.40	74.80
HCl [Normality]	22-Feb-22	08:00	25-Feb-22	10:23	0.10	0.10	0.10
NaOH [Normality]	22-Feb-22	08:00	25-Feb-22	10:23	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23-Feb-22	08:30	25-Feb-22	10:23	28.57	27.35	39.46
Final pH [no unit]	23-Feb-22	08:30	25-Feb-22	10:23	1.84	1.81	1.79
NP [t CaCO3/1000 t]	23-Feb-22	08:30	25-Feb-22	10:23	39.0	49.6	87.9
AP [t CaCO3/1000 t]	08-Mar-22	11:10	08-Mar-22	11:11	2.50	2.81	2.81
Net NP [t CaCO3/1000 t]	08-Mar-22	11:11	08-Mar-22	11:11	36.5	46.8	85.1
NP/AP [ratio]	08-Mar-22	11:11	08-Mar-22	11:11	15.6	17.6	31.3
S [%]	02-Mar-22	22:20	08-Mar-22	11:10	0.160	0.212	0.182
Acid Leachable SO4-S [%]	08-Mar-22	11:10	08-Mar-22	11:10	0.08	0.12	0.09
Sulphide [%]	07-Mar-22	21:48	08-Mar-22	11:10	0.08	0.09	0.09
C [%]	02-Mar-22	22:20	09-Mar-22	11:48	0.499	0.643	1.06
CO3 (HCl) [%]	09-Mar-22	09:31	09-Mar-22	11:48	2.28	3.08	5.19

Analysis	8:	9:	10:	11:
	CALMM-2339 68 DP2-425-119 KSC-WA	CALMM-2339 69 DP1-450-110 KSC-WA	CALMM-2339 70 DP1-300-166 KSC-WA	CALMM-23397 1 TL1-350-171 MV
Sample Date & Time	08-Feb-22	08-Feb-22	08-Feb-22	08-Feb-22
Paste pH [no unit]	9.05	8.94	8.93	8.72
Fizz Rate [no unit]	3	3	3	3

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Project : PO#1124452

LR Report : CA15155-FEB22

Analysis	8:	9:	10:	11:
	CALMM-2339 68 DP2-425-119 KSC-WA	CALMM-2339 69 DP1-450-110 KSC-WA	CALMM-2339 70 DP1-300-166 KSC-WA	CALMM-23397 1 TL1-350-171 MV
Sample weight [g]	2.03	2.05	2.09	1.98
HCl_add [mL]	60.00	132.20	54.30	140.00
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]	31.92	57.00	29.95	61.45
Final pH [no unit]	1.79	1.73	1.89	1.67
NP [t CaCO3/1000 t]	69.2	183	58.3	198
AP [t CaCO3/1000 t]	1.88	1.88	4.06	7.19
Net NP [t CaCO3/1000 t]	67.3	182	54.2	191
NP/AP [ratio]	36.9	97.8	14.4	27.6
S [%]	0.138	0.077	0.191	0.312
Acid Leachable SO4-S [%]	0.08	< 0.04	0.06	0.08
Sulphide [%]	0.06	0.06	0.13	0.23
C [%]	0.881	2.30	0.671	2.52
CO3 (HCl) [%]	4.31	11.4	3.28	12.5

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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 Project Specialist,
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Project : PO#OL-999004

24-February-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 08 February 2022

LR Report: CA15156-FEB22

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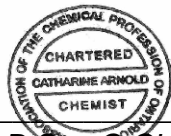
CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CALMM-233965 DP1-325-130 KSC-WA	6: CALMM-233966 FW1-325-W KSC-WA	7: CALMM-233967 DP2-425-119 KSC-WA	8: CALMM-233968 DP2-425-119 KSC-WA	9: CALMM-233969 DP1-450-110 KSC-WA
Sample Date & Time					08-Feb-22	08-Feb-22	08-Feb-22	08-Feb-22	08-Feb-22
Ag [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	< 0.5	< 0.5	0.7	< 0.5	< 0.5
Al [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	90000	80000	69000	72000	76000
As [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	87	51	56	140	79
Ba [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	630	550	3600	1700	88
Be [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	1	1	3	2	0.45
Bi [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	0.32	0.24	0.22	0.12	< 0.09
Ca [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	10000	13000	28000	23000	69000
Cd [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	0.07	0.10	2	0.90	0.11
Co [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	23	21	17	12	52
Cr [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	200	120	93	62	110
Cu [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	49	55	26	18	71
Fe [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	48000	39000	51000	42000	81000
K [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	22000	17000	23000	19000	6800
Li [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	38	26	52	36	56
Mg [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	17000	12000	21000	11000	24000
Mn [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	440	330	540	380	1700
Mo [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	2.8	1.3	6.2	3.0	0.5
Na [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	17000	27000	18000	25000	16000
Ni [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	90	73	100	51	110
P [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	560	610	3300	1400	290
Pb [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	25	11	540	140	6
Sb [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	< 0.8	< 0.8	< 0.8	< 0.8	0.9
Se [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	230	280	1100	690	120
Ti [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	3300	3100	3000	2500	4500
Tl [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	0.53	0.43	0.53	0.36	0.27
U [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	1.76	1.49	1.96	1.36	0.070
V [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	130	87	58	50	250
Y [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	8.56	6.83	14.3	8.34	11.5
Zn [µg/g]	16-Feb-22	21:32	17-Feb-22	12:35	87	69	320	150	130

Analysis	10:	11:
	CALMM-233970 CALMM-233971 DP1-300-166 TL1-350-171 MV KSC-WA	
Sample Date & Time	08-Feb-22	08-Feb-22
Ag [µg/g]	< 0.5	< 0.5
Al [µg/g]	73000	77000
As [µg/g]	86	11
Ba [µg/g]	440	46
Be [µg/g]	0.96	0.38
Bi [µg/g]	0.24	< 0.09
Ca [µg/g]	24000	79000
Cd [µg/g]	0.05	0.12
Co [µg/g]	14	52
Cr [µg/g]	40	110
Cu [µg/g]	37	110
Fe [µg/g]	79000	65000
K [µg/g]	12000	3000
Li [µg/g]	37	71
Mg [µg/g]	10000	21000
Mn [µg/g]	360	1900
Mo [µg/g]	0.6	0.6
Na [µg/g]	27000	20000
Ni [µg/g]	30	120
P [µg/g]	530	270
Pb [µg/g]	10	5
Sb [µg/g]	< 0.8	0.9
Se [µg/g]	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6
Sr [µg/g]	370	140
Ti [µg/g]	2400	4200
Tl [µg/g]	0.26	0.16
U [µg/g]	0.69	0.075
V [µg/g]	51	240
Y [µg/g]	5.39	13.3
Zn [µg/g]	78	92

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Project : PO#OL-999004

24-February-2022

Date Rec. : 08 February 2022
LR Report: CA15157-FEB22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CALMM-233965 DP1-325-130 KSC-WA	CALMM-233966 FW1-325-W KSC-WA	CALMM-233967 DP2-425-119 KSC-WA
Sample Date & Time					08-Feb-22	08-Feb-22	08-Feb-22
Sample weight [g]	15-Feb-22	09:30	16-Feb-22	09:00	250	250	250
Volume D.I. Water [mL]	15-Feb-22	09:30	16-Feb-22	09:00	750	750	750
Final pH [no unit]	15-Feb-22	09:30	16-Feb-22	09:00	9.19	9.30	9.17
pH [No unit]	18-Feb-22	14:28	22-Feb-22	11:19	8.59	8.67	8.14
Conductivity [uS/cm]	18-Feb-22	14:28	22-Feb-22	11:19	254	191	284
Alkalinity [mg/L as CaCO3]	18-Feb-22	14:28	22-Feb-22	11:19	54	61	59
SO4 [mg/L]	17-Feb-22	10:29	23-Feb-22	15:34	5	< 2	4
Hg [mg/L]	22-Feb-22	12:12	22-Feb-22	13:16	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.815	0.680	0.396
As [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.0275	0.0699	0.0739
Ba [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00204	0.00207	0.0301
B [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.149	0.204	0.056
Be [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	9.00	7.52	10.3
Cd [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.000155	0.000151	0.000101
Cr [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.00008	0.00009	< 0.00008
Cu [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.007	< 0.007	< 0.007
K [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	16.4	11.3	18.5
Li [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.0008	0.0010	0.0058
Mg [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	1.47	1.66	2.20
Mn [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00054	0.00058	0.00091
Mo [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00124	0.00055	0.00113
Na [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	21.8	18.3	24.5
Ni [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.0001	0.0001	0.0002
Pb [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.00009	< 0.00009	0.00057

Online LIMS


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Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time Completed Date	Analysis Completed Date	Analysis Completed Time	CALMM-233965 DP1-325-130 KSC-WA	CALMM-233966 FW1-325-W KSC-WA	CALMM-233967 DP2-425-119 KSC-WA
Sb [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.0059	0.0046	0.0074
Se [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00009	0.00006	0.00014
Si [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	1.32	1.98	2.05
Sn [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.0417	0.0291	0.213
Ti [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00014	0.00015	0.00008
Tl [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.000008	< 0.000005	0.000007
U [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.000039	0.000155	0.000034
W [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00668	0.00302	0.00194
Y [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.00002	< 0.00002	< 0.00002
V [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	0.00256	0.00427	0.00141
Zn [mg/L]	18-Feb-22	14:06	22-Feb-22	13:16	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:
	CALMM-233968 DP2-425-119 KSC-WA	CALMM-233969 DP1-450-110 KSC-WA	CALMM-233970 DP1-300-166 KSC-WA	CALMM-233971 TL1-350-171 MV
Sample Date & Time	08-Feb-22	08-Feb-22	08-Feb-22	08-Feb-22
Sample weight [g]	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	9.04	8.96	8.83	8.67
pH [No unit]	8.19	8.10	7.93	8.08
Conductivity [uS/cm]	406	246	341	509
Alkalinity [mg/L as CaCO3]	55	56	44	54
SO4 [mg/L]	9	< 2	10	11
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.409	0.647	0.504	0.380
As [mg/L]	0.0240	0.0111	0.0045	0.0015
Ba [mg/L]	0.0153	0.00140	0.00382	0.00192
B [mg/L]	0.154	0.123	0.026	0.042
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	0.00002	< 0.00001
Ca [mg/L]	12.8	9.16	13.0	21.1
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000159	0.000056	0.000039	0.000043
Cr [mg/L]	< 0.00008	< 0.00008	0.00022	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	19.5	6.19	8.01	4.23
Li [mg/L]	0.0039	0.0011	0.0012	0.0029
Mg [mg/L]	3.45	1.93	1.73	5.46
Mn [mg/L]	0.00122	0.00191	0.00111	0.00683
Mo [mg/L]	0.00166	0.00018	0.00074	0.00053

Analysis	8:	9:	10:	11:
	CALMM-233968 DP2-425-119 KSC-WA	CALMM-233969 DP1-450-110 KSC-WA	CALMM-233970 DP1-300-166 KSC-WA	CALMM-233971 TL1-350-171 MV
Na [mg/L]	47.0	12.2	37.7	59.2
Ni [mg/L]	0.0001	< 0.0001	< 0.0001	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0038	0.0031	0.0024	0.0014
Se [mg/L]	0.00009	0.00007	0.00010	0.00006
Si [mg/L]	1.81	0.95	1.40	1.14
Sn [mg/L]	< 0.00006	< 0.00006	0.00007	< 0.00006
Sr [mg/L]	0.205	0.0330	0.138	0.0981
Ti [mg/L]	0.00006	0.00006	0.00007	< 0.00005
Tl [mg/L]	0.000009	0.000016	< 0.000005	0.000009
U [mg/L]	0.000039	0.000010	0.000023	0.000005
W [mg/L]	0.00471	0.00227	0.00074	0.00079
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002
V [mg/L]	0.00097	0.00085	0.00029	0.00046
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

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Project : P.O# 770080

13-April-2022

Date Rec. : 03 March 2022
LR Report: CA14061-MAR22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed1 Time	5: CAMLM18224 DP1-450-125 KSC-WA	6: CAMLM18224 23 DP2-450-118 CC1-425-109 KSC-WA	7: CAMLM18224 4 FW1-325-W5 KSC-WA	8: CAMLM18224 DP1-400-161 KSC-WA	9: CAMLM18224 KSC-WA
Sample Date & Time					3-Mar-22	3-Mar-22	3-Mar-22	3-Mar-22	3-Mar-22
Sample weight [g]	24-Mar-22	15:45	25-Mar-22	15:19	250	250	250	250	250
Volume D.I. Water [mL]	24-Mar-22	15:45	25-Mar-22	15:19	750	750	750	750	750
Final pH [no unit]	25-Mar-22	14:44	25-Mar-22	15:19	9.16	8.88	8.78	9.06	8.90
pH [No unit]	28-Mar-22	15:14	29-Mar-22	12:03	8.13	8.11	8.10	8.66	7.96
Conductivity [uS/cm]	28-Mar-22	15:14	29-Mar-22	12:03	184	148	237	355	244
Alkalinity [mg/L as CaCO3]	28-Mar-22	15:14	30-Mar-22	10:47	47	62	69	69	40
SO4 [mg/L]	29-Mar-22	17:15	01-Apr-22	19:42	3.2	< 2	2.8	3.2	4.9
Hg [mg/L]	29-Mar-22	10:58	29-Mar-22	12:48	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	30-Mar-22	18:57	31-Mar-22	13:39	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	30-Mar-22	18:57	01-Apr-22	17:10	0.988	0.811	0.701	0.770	0.777
As [mg/L]	30-Mar-22	18:57	31-Mar-22	13:39	0.0055	0.0242	0.0017	0.0478	0.0010
Ba [mg/L]	30-Mar-22	18:57	04-Apr-22	15:40	0.00339	0.00585	0.00434	0.00459	0.00328
B [mg/L]	30-Mar-22	18:57	04-Apr-22	15:40	0.028	0.029	0.035	0.076	0.033
Be [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007

OnLine LIMS

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Project : P.O# 770080
LR Report : CA14061-MAR22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed1 Time	CAMLM18224 DP1-450-125 KSC-WA	CAMLM18224 CC1-425-109 KSC-WA	CAMLM18224 23 DP2-450-118 KSC-WA	CAMLM18224 4 FW1-325-W5 KSC-WA	CAMLM18224 DP1-400-161 KSC-WA
Bi [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	9.40	13.1	16.6	16.6	15.7
Cd [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	< 0.000003	0.000009	< 0.000003	0.000018	< 0.000003
Co [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	0.000258	0.000007	0.000038	0.000066	0.000026
Cr [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	< 0.00008	0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	< 0.0002	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	< 0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	13.7	20.5	14.4	21.8	3.51
Li [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	0.0020	0.0022	0.0018	0.0020	0.0018
Mg [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	1.29	1.52	2.72	4.22	2.04
Mn [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	0.00133	0.00113	0.00210	0.00101	0.00364
Mo [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	0.00014	0.00052	0.00043	0.00075	0.00029
Na [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	18.6	4.29	19.4	24.3	24.2
Ni [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	0.0003	< 0.0001	< 0.0001	0.0003	0.0002
Pb [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	0.0029	0.0010	0.0018	0.0041	0.0018
Se [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	0.00004	0.00009	0.00007	0.00016	0.00004
Si [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	1.86	1.39	1.43	1.67	1.22
Sn [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	0.138	0.110	0.182	0.0801	0.0842
Ti [mg/L]	30-Mar-22	18:57	05-Apr-22	13:37	< 0.00005	0.00035	< 0.00005	0.00051	< 0.00005
Tl [mg/L]	30-Mar-22	18:57	31-Mar-22	13:38	0.000011	< 0.000005	0.000014	0.000032	0.000008
U [mg/L]	30-Mar-22	18:57	31-Mar-22	13:37	0.000022	0.000009	0.000010	0.000033	0.000002
V [mg/L]	30-Mar-22	18:57	31-Mar-22	13:37	0.00061	0.00022	0.00018	0.00125	0.00063
Zn [mg/L]	30-Mar-22	18:57	05-Apr-22	13:38	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



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Project : P.O# 770080
LR Report : CA14061-MAR22

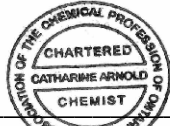
Analysis	10:	11:	12:	13:BLK:
	CAMLM18224 6 DP2-300-1667 KSC-WA	CAMLM18224 DP2-300-1667 KSC-WA	CAMLM18224 DP2-300-166 KSC-WA	\$D.I. Leachate Blank
Sample Date & Time	3-Mar-22	3-Mar-22		
Sample weight [g]	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	9.44	9.49	9.44	5.50
pH [No unit]	8.47	8.31	8.28	7.14
Conductivity [uS/cm]	210	142	166	14
Alkalinity [mg/L as CaCO3]	38	39	41	< 2
SO4 [mg/L]	3.6	2.5	2.4	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.737	1.34	1.28	---
As [mg/L]	0.0077	0.0057	0.0048	< 0.0002
Ba [mg/L]	0.00196	0.00138	0.00174	---
B [mg/L]	0.031	0.041	0.028	0.007
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	7.70	6.17	6.44	0.05
Cd [mg/L]	0.000017	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000105	0.000048	0.000052	< 0.000004
Cr [mg/L]	0.00013	0.00009	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	0.0010
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	8.60	9.32	10.4	0.022
Li [mg/L]	0.0015	0.0011	0.0012	< 0.0001
Mg [mg/L]	0.718	0.397	0.444	0.004
Mn [mg/L]	0.00068	0.00054	0.00044	0.00022
Mo [mg/L]	0.00264	0.00040	0.00025	---

OnLine LIMS

0002863989

Analysis	10: CAMLM18224 6 DP2-300-1667 KSC-WA	11: CAMLM18224 DP2-300-1667 KSC-WA	12: CAMLM18224 DP2-300-166 KSC-WA	13:BLK: \$D.I. Leachate Blank
Na [mg/L]	27.7	17.1	18.6	0.18
Ni [mg/L]	0.0001	< 0.0001	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0076	0.0058	0.0064	< 0.0009
Se [mg/L]	0.00004	0.00004	0.00008	< 0.00004
Si [mg/L]	2.87	2.70	2.48	< 0.02
Sn [mg/L]	0.00038	< 0.00006	< 0.00006	0.00011
Sr [mg/L]	0.0695	0.0435	0.0497	0.00018
Ti [mg/L]	0.00066	0.00011	< 0.00005	< 0.00005
Tl [mg/L]	0.000006	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000164	0.000149	0.000134	< 0.000002
V [mg/L]	0.00285	0.00281	0.00229	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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Project : P.O# 770080

13-April-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 01 April 2022
LR Report: CA19009-APR22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CALM240326 FW1-175-W Mafic Volcanic	CALM240327 DP1-350-116 Mafic Volcanic	CALM240328 PP1-400-161 KS
Sample Date & Time					23-Mar-22	23-Mar-22	23-Mar-22
Paste pH [no unit]	06-Apr-22	08:45	07-Apr-22	14:35	8.41	8.67	8.82
Fizz Rate [no unit]	06-Apr-22	08:45	07-Apr-22	14:35	2	2	2
Sample weight [g]	06-Apr-22	08:45	07-Apr-22	14:35	1.98	2.00	2.03
HCl_add [mL]	07-Apr-22	08:45	07-Apr-22	14:35	121.20	120.00	33.70
HCl [Normality]	06-Apr-22	08:45	07-Apr-22	14:35	0.10	0.10	0.10
NaOH [Normality]	06-Apr-22	08:45	07-Apr-22	14:35	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	07-Apr-22	08:45	07-Apr-22	14:35	46.42	38.41	16.01
Final pH [no unit]	07-Apr-22	08:45	07-Apr-22	14:35	1.81	1.65	1.86
NP [t CaCO3/1000 t]	07-Apr-22	08:45	07-Apr-22	14:35	189	204	43.6
AP [t CaCO3/1000 t]	08-Apr-22	12:29	08-Apr-22	12:29	11.6	1.56	3.12
Net NP [t CaCO3/1000 t]	08-Apr-22	12:29	08-Apr-22	12:29	177	202	40.5
NP/AP [ratio]	08-Apr-22	12:29	08-Apr-22	12:29	16.3	131	14.0
S [%]	08-Apr-22	08:47	08-Apr-22	12:29	0.593	0.175	0.300
Acid Leachable SO4-S [%]	08-Apr-22	12:29	08-Apr-22	12:29	0.22	0.12	0.20
Sulphide [%]	08-Apr-22	10:49	08-Apr-22	12:29	0.37	0.05	0.10
C [%]	08-Apr-22	08:47	11-Apr-22	14:45	2.76	2.38	0.619
CO3 (HCl) [%]	11-Apr-22	13:40	11-Apr-22	14:45	13.5	11.8	2.97

Analysis	8:	9:	10:	11:
	CALM240329 EXA-425-E KWA-S	CALM240330 DP2-350-138 KSC-WA	CALM240331 DP1-325-127 KSC-WA	CALM240332 DP1-325-127 KSC-WA
Sample Date & Time	23-Mar-22	24-Mar-22	24-Mar-22	24-Mar-22
Paste pH [no unit]	8.64	8.87	9.23	9.35
Fizz Rate [no unit]	2	2	2	2

Analysis	8:	9:	10:	11:
	CALM240329	CALM240330	CALM240331	CALM240332
	EXA-425-E	DP2-350-138	DP1-325-127	DP1-325-127
	KWA-S	KSC-WA	KSC-WA	KSC-WA
Sample weight [g]	2.02	1.96	2.00	1.98
HCl_add [mL]	27.00	51.30	33.30	32.60
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]	17.07	17.60	15.13	17.60
Final pH [no unit]	1.51	1.52	1.87	1.62
NP [t CaCO3/1000 t]	24.6	86.0	45.4	37.9
AP [t CaCO3/1000 t]	3.44	2.19	1.25	1.88
Net NP [t CaCO3/1000 t]	21.2	83.8	44.2	36.0
NP/AP [ratio]	7.16	39.3	36.3	20.2
S [%]	0.205	0.260	0.354	0.262
Acid Leachable SO4-S [%]	0.10	0.19	< 0.04	0.20
Sulphide [%]	0.11	0.07	< 0.04	0.06
C [%]	0.276	0.885	0.656	0.522
CO3 (HCl) [%]	1.28	4.33	3.20	2.52

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project : PO# 770080

13-April-2022

Date Rec. : 01 April 2022

LR Report: CA19010-APR22

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: CALM240326 FW1-175-W Mafic Volcanic	6: CALM240327 DP1-350-116 Mafic Volcanic	7: CALM240328 PP1-400-161 KS
Sample Date & Time					23-Mar-22	23-Mar-22	23-Mar-22
Ag [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	< 0.5	< 0.5	< 0.5
Al [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	52000	72000	83000
As [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	150	6.7	1800
Ba [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	530	690	700
Be [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	0.84	0.46	1.4
Bi [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	0.12	< 0.09	0.33
Ca [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	68000	86000	13000
Cd [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	0.19	0.12	0.13
Co [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	32	55	24
Cr [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	130	190	90
Cu [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	91	82	49
Fe [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	130000	91000	57000
K [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	7200	5500	30000
Li [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	23	57	26
Mg [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	20000	43000	17000
Mn [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	1800	1700	340
Mo [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	0.9	0.3	3.0
Na [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	13000	7700	14000
Ni [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	69	130	74
P [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	510	210	540
Pb [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	24	5	16
Sb [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	< 0.8	< 0.8	< 0.8
Se [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	< 0.7	< 0.7	< 0.7
Sn [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	< 6	< 6	< 6
Sr [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	300	250	160
Ti [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	1800	820	4000

Online LIMS

0002864001

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CALM240326 FW1-175-W Mafic Volcanic	6: CALM240327 DP1-350-116 Mafic Volcanic	7: CALM240328 PP1-400-161 KS
Tl [µg/g]	08-Apr-22	18:18	11-Apr-22	13:05	0.26	0.22	0.66
U [µg/g]	08-Apr-22	18:18	11-Apr-22	13:06	0.23	0.062	1.9
V [µg/g]	08-Apr-22	18:18	11-Apr-22	13:06	150	270	130
Y [µg/g]	08-Apr-22	18:18	11-Apr-22	13:06	6.33	14.9	6.68
Zn [µg/g]	08-Apr-22	18:18	11-Apr-22	13:06	82	88	92

Analysis	8: CALM240329 EXA-425-E KWA-S	9: CALM240330 DP2-350-138 KSC-WA	10: CALM240331 DP1-325-127 KSC-WA	11: CALM240332 DP1-325-127 KSC-WA
Sample Date & Time	23-Mar-22	24-Mar-22	24-Mar-22	24-Mar-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	76000	82000	77000	67000
As [µg/g]	100	120	77	33
Ba [µg/g]	740	590	530	450
Be [µg/g]	1.2	1.1	1.1	1.0
Bi [µg/g]	< 0.09	0.19	0.15	0.14
Ca [µg/g]	9300	18000	14000	11000
Cd [µg/g]	0.05	0.12	0.08	0.06
Co [µg/g]	23	23	32	20
Cr [µg/g]	86	87	70	81
Cu [µg/g]	10	42	53	51
Fe [µg/g]	69000	47000	35000	35000
K [µg/g]	23000	18000	19000	18000
Li [µg/g]	37	22	22	24
Mg [µg/g]	20000	15000	12000	12000
Mn [µg/g]	330	500	340	300
Mo [µg/g]	1.4	1.4	1.3	1.4
Na [µg/g]	14000	27000	24000	24000
Ni [µg/g]	73	70	63	63
P [µg/g]	550	540	450	430
Pb [µg/g]	6	13	12	12
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	130	310	280	240
Ti [µg/g]	3600	3500	2700	2700
Tl [µg/g]	0.44	0.41	0.44	0.41
U [µg/g]	1.7	1.5	1.5	1.1

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Project : PO# 770080

LR Report : CA19010-APR22

Analysis	8:	9:	10:	11:
	CALM240329	CALM240330	CALM240331	CALM240332
	EXA-425-E	DP2-350-138	DP1-325-127	DP1-325-127
	KWA-S	KSC-WA	KSC-WA	KSC-WA
V [$\mu\text{g/g}$]	110	100	82	84
Y [$\mu\text{g/g}$]	5.51	6.49	6.48	4.28
Zn [$\mu\text{g/g}$]	81	81	60	68

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Project : PO# 1124452

20-May-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 28 April 2022
LR Report: CA19238-APR22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM19458 5 DP1-325-173 KS	CAMLM19458 6 DP1-400-161 KSC-WA	CAMLM19458 7 FW1-400-161 KS
Sample Date & Time					21-Apr-22	21-Apr-22	21-Apr-22
Paste pH [no unit]	05-May-22	08:30	09-May-22	08:58	8.97	8.93	8.90
Fizz Rate [no unit]	05-May-22	08:30	09-May-22	08:58	2	2	2
Sample weight [g]	05-May-22	08:30	09-May-22	08:58	2.02	1.98	2.00
HCl_add [mL]	06-May-22	06:28	09-May-22	08:58	49.90	32.10	47.40
HCl [Normality]	05-May-22	08:30	09-May-22	08:58	0.10	0.10	0.10
NaOH [Normality]	05-May-22	08:30	09-May-22	08:58	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	06-May-22	08:30	09-May-22	08:58	30.07	19.87	30.38
Final pH [no unit]	06-May-22	08:30	09-May-22	08:58	1.62	1.80	1.69
NP [t CaCO3/1000 t]	06-May-22	08:30	09-May-22	08:58	49.1	30.9	42.6
AP [t CaCO3/1000 t]	19-May-22	15:07	19-May-22	15:08	1.88	1.25	4.06
Net NP [t CaCO3/1000 t]	19-May-22	15:08	19-May-22	15:08	47.2	29.6	38.5
NP/AP [ratio]	19-May-22	15:08	19-May-22	15:08	26.2	24.7	10.5
S [%]	18-May-22	14:48	19-May-22	15:07	0.106	0.028	0.170
Acid Leachable SO4-S [%]	19-May-22	15:07	19-May-22	15:07	0.05	<0.04	0.04
Sulphide [%]	19-May-22	15:07	19-May-22	15:07	0.06	< 0.04	0.13
C [%]	18-May-22	14:48	19-May-22	15:07	0.689	0.410	0.563
CO3 (HCl) [%]	20-May-22	08:34	20-May-22	12:30	3.09	1.90	2.64

Analysis	8:	9:	10:	11:
	CAMLM19458 8 EXA-425-E KWA-S	CAMLM19458 9 CC1-425-119 KSC-WA	CAMLM19459 0 DP2-450-123 MAFIC VOLCANIC	CAMLM19459 1 DP2-450-123 MAFIC VOLCANIC
Sample Date & Time	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22
Paste pH [no unit]	8.32	8.72	8.64	8.72
Fizz Rate [no unit]	3	3	3	4

Online LIMS

0002908492

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Project : PO# 1124452

LR Report : CA19238-APR22

Analysis	8:	9:	10:	11:
	CAMLM19458	CAMLM19458	CAMLM19459	CAMLM19459
	8 EXA-425-E	9	0	1
	KWA-S	CC1-425-119	DP2-450-123	DP2-450-123
		KSC-WA	MAFIC	MAFIC
			VOLCANIC	VOLCANIC
Sample weight [g]	1.99	1.99	2.00	2.00
HCl_add [mL]	160.00	65.00	186.10	180.00
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]	57.19	30.91	82.67	85.06
Final pH [no unit]	1.73	1.68	1.61	1.56
NP [t CaCO3/1000 t]	258	85.7	259	237
AP [t CaCO3/1000 t]	8.75	5.94	5.31	2.19
Net NP [t CaCO3/1000 t]	250	79.8	253	235
NP/AP [ratio]	29.5	14.4	48.7	109
S [%]	0.304	0.359	0.229	0.089
Acid Leachable SO4-S [%]	< 0.04	0.17	0.06	< 0.04
Sulphide [%]	0.28	0.19	0.17	0.07
C [%]	3.35	1.14	3.70	3.23
CO3 (HCl) [%]	16.6	5.58	18.3	16.0

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO# 1124452

11-May-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 28 April 2022
LR Report: CA19239-APR22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAMLM194585 DP1-325-173 KS	6: CAMLM194586 DP1-400-161FW1-400-161 KSC-WA	7: CAMLM194587 DP1-400-161 KS	8: CAMLM194588 EXA-425-E KWA-S
Sample Date & Time					21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22
Ag [µg/g]	05-May-22	16:55	06-May-22	15:42	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	05-May-22	16:55	06-May-22	15:42	83000	86000	81000	64000
As [µg/g]	05-May-22	16:55	06-May-22	15:42	39	96	46	25
Ba [µg/g]	05-May-22	16:55	06-May-22	15:42	600	660	530	850
Be [µg/g]	05-May-22	16:55	06-May-22	15:42	1	1	1	0.56
Bi [µg/g]	05-May-22	16:55	06-May-22	15:42	0.34	0.23	0.33	< 0.09
Ca [µg/g]	05-May-22	16:55	06-May-22	15:42	14000	9500	13000	100000
Cd [µg/g]	05-May-22	16:55	06-May-22	15:42	0.08	0.13	0.05	0.12
Co [µg/g]	05-May-22	16:55	06-May-22	15:42	26	25	20	45
Cr [µg/g]	05-May-22	16:55	06-May-22	15:42	77	84	66	90
Cu [µg/g]	05-May-22	16:55	06-May-22	15:42	39	43	48	84
Fe [µg/g]	05-May-22	16:55	06-May-22	15:42	58000	51000	75000	91000
K [µg/g]	05-May-22	16:55	06-May-22	15:42	24000	29000	18000	5700
Li [µg/g]	05-May-22	16:55	06-May-22	15:42	29	34	30	50
Mg [µg/g]	05-May-22	16:55	06-May-22	15:42	17000	17000	17000	31000
Mn [µg/g]	05-May-22	16:55	06-May-22	15:42	390	360	400	2400
Mo [µg/g]	05-May-22	16:55	06-May-22	15:42	1.6	1.7	1.3	0.3
Ni [µg/g]	05-May-22	16:55	06-May-22	15:42	75	88	71	120
Pb [µg/g]	05-May-22	16:55	06-May-22	15:42	14	13	7	22
Sb [µg/g]	05-May-22	16:55	06-May-22	15:42	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	05-May-22	16:55	06-May-22	15:42	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	05-May-22	16:55	06-May-22	15:42	< 6	< 6	< 6	< 6
Sr [µg/g]	05-May-22	16:55	06-May-22	15:42	160	170	170	220
Ti [µg/g]	05-May-22	16:55	06-May-22	15:42	4000	4300	3000	2900
Tl [µg/g]	05-May-22	16:55	06-May-22	15:42	0.51	0.53	0.38	0.20
U [µg/g]	05-May-22	16:55	06-May-22	15:42	1.81	1.60	1.62	0.064
V [µg/g]	05-May-22	16:55	06-May-22	15:42	120	120	99	210
Y [µg/g]	05-May-22	16:55	06-May-22	15:42	6.51	6.17	7.54	9.44
Zn [µg/g]	05-May-22	16:55	06-May-22	15:42	78	84	82	82

SGS Canada Inc.

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Project : PO# 1124452

LR Report : CA19239-APR22

Analysis	9: CAMLM194589 CC1-425-119 KSC-WA	10: CAMLM194590 DP2-450-123 MAFIC VOLCANIC	11: CAMLM194591 DP2-450-123 MAFIC VOLCANIC
Sample Date & Time	21-Apr-22	21-Apr-22	21-Apr-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5
Al [µg/g]	68000	62000	63000
As [µg/g]	65	120	120
Ba [µg/g]	470	260	200
Be [µg/g]	0.89	0.60	0.57
Bi [µg/g]	0.26	0.11	< 0.09
Ca [µg/g]	31000	74000	68000
Cd [µg/g]	0.14	0.12	0.10
Co [µg/g]	21	45	48
Cr [µg/g]	48	77	120
Cu [µg/g]	66	96	110
Fe [µg/g]	53000	73000	75000
K [µg/g]	17000	9800	9100
Li [µg/g]	23	37	42
Mg [µg/g]	15000	39000	41000
Mn [µg/g]	580	1300	1300
Mo [µg/g]	1.4	0.3	0.2
Ni [µg/g]	60	110	120
Pb [µg/g]	12	9	7
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	140	130
Ti [µg/g]	3000	2200	2100
Tl [µg/g]	0.31	0.27	0.24
U [µg/g]	1.32	0.061	0.042
V [µg/g]	81	170	200
Y [µg/g]	7.94	6.20	5.33
Zn [µg/g]	71	70	75

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**SGS Canada Inc.**

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Agnico Eagle Mines Limited

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Project : PO#1124452

19-May-2022

Date Rec. : 28 April 2022

LR Report: CA19240-APR22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM19458 DP1-325-1736 KS	CAMLM19458 DP1-400-161 KSC-WA	CAMLM19458 DP1-400-161 KS
Sample Date & Time					21-Apr-22	21-Apr-22	21-Apr-22
Sample weight [g]	05-May-22	12:00	09-May-22	08:53	250	250	250
Volume D.I. Water [mL]	05-May-22	12:00	09-May-22	08:53	750	750	750
Final pH [no unit]	06-May-22	12:21	09-May-22	08:53	8.69	9.13	9.00
pH [No unit]	09-May-22	08:10	09-May-22	16:08	8.09	7.88	8.01
Conductivity [uS/cm]	09-May-22	08:10	09-May-22	16:08	485	375	377
Alkalinity [mg/L as CaCO3]	09-May-22	08:10	09-May-22	16:08	33	26	38
SO4 [mg/L]	13-May-22	14:44	13-May-22	17:11	16	11	10
Hg [mg/L]	12-May-22	06:45	12-May-22	09:11	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	11-May-22	19:49	13-May-22	16:55	0.527	0.675	0.691
As [mg/L]	11-May-22	19:49	17-May-22	13:25	0.0101	0.0863	0.0057
Ba [mg/L]	11-May-22	19:49	13-May-22	16:55	0.00360	0.00261	0.00711
B [mg/L]	11-May-22	19:49	13-May-22	16:55	0.050	0.044	0.031
Be [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11-May-22	19:49	13-May-22	16:55	16.8	12.3	15.7
Cd [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.000003	0.000006	< 0.000003
Co [mg/L]	11-May-22	19:49	13-May-22	16:55	0.000053	0.000089	0.000045
Cr [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.007	< 0.007	< 0.007
K [mg/L]	11-May-22	19:49	13-May-22	16:55	9.84	9.35	10.6
Li [mg/L]	11-May-22	19:49	13-May-22	16:55	0.0007	0.0006	0.0006
Mg [mg/L]	11-May-22	19:49	13-May-22	16:55	5.08	3.23	3.43
Mn [mg/L]	11-May-22	19:49	13-May-22	16:55	0.00082	0.00063	0.00089
Mo [mg/L]	11-May-22	19:49	13-May-22	16:55	0.00139	0.00082	0.00209

Online LIMS

0002906083



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Project : PO#1124452

LR Report : CA19240-APR22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM19458 DP1-325-1736 KS	CAMLM19458 DP1-400-161 KSC-WA	CAMLM19458 DP1-400-161 FW1-400-161 KS
Na [mg/L]	11-May-22	19:49	13-May-22	16:55	61.7	48.3	47.8
Ni [mg/L]	11-May-22	19:49	13-May-22	16:55	0.0001	< 0.0001	< 0.0001
Pb [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	11-May-22	19:49	13-May-22	16:55	0.0022	0.0026	0.0010
Se [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	11-May-22	19:49	13-May-22	16:55	1.30	1.40	1.07
Sn [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	11-May-22	19:49	13-May-22	16:55	0.144	0.0881	0.157
Ti [mg/L]	11-May-22	19:49	13-May-22	16:55	0.00009	0.00065	< 0.00005
Tl [mg/L]	11-May-22	19:49	13-May-22	16:55	0.000008	0.000013	0.000011
U [mg/L]	11-May-22	19:49	13-May-22	16:55	0.000019	0.000006	0.000015
W [mg/L]	11-May-22	19:49	13-May-22	16:55	0.00063	0.00294	0.00056
Y [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.00002	< 0.00002	< 0.00002
V [mg/L]	11-May-22	19:49	13-May-22	16:55	0.00075	0.00162	0.00047
Zn [mg/L]	11-May-22	19:49	13-May-22	16:55	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:BLK:
	CAMLM19458 8 EXA-425-E KWA-S	CAMLM19458 CC1-425-119 KSC-WA	CAMLM19459 90 DP2-450-1231 MAFIC VOLCANIC	CAMLM19459 DP2-450-1231 MAFIC VOLCANIC	CAMLM19459 DP2-450-123 MAFIC VOLCANIC	\$D.I. Leachate Blank
Sample Date & Time	21-Apr-22	21-Apr-22	21-Apr-22	21-Apr-22		
Sample weight [g]	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.85	9.10	9.16	9.13	9.11	5.61
pH [No unit]	8.04	8.03	8.37	8.12	8.21	6.26
Conductivity [uS/cm]	745	555	233	240	275	3
Alkalinity [mg/L as CaCO3]	45	31	43	38	41	< 2
SO4 [mg/L]	48	19	3	4	5	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.325	0.461	0.575	0.555	0.531	< 0.001
As [mg/L]	0.0020	0.0207	0.0153	0.0160	0.0175	< 0.0002
Ba [mg/L]	0.499	0.00527	0.00212	0.00194	0.00241	0.00013
B [mg/L]	0.155	0.086	0.046	0.034	0.029	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	68.0	19.6	13.2	12.6	13.4	0.05
Cd [mg/L]	0.000006	< 0.000003	0.000018	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000113	0.000099	0.000036	0.000025	0.000058	< 0.000004


OnLine LIMS

0002906083

Analysis	8: CAMLM19458 8 EXA-425-E KWA-S	9: CAMLM19458 CC1-425-119 KSC-WA	10: CAMLM19459 90 DP2-450-1231 MAFIC VOLCANIC	11: CAMLM19459 DP2-450-1231 MAFIC VOLCANIC	12: CAMLM19459 DP2-450-123 MAFIC VOLCANIC	13:BLK: \$D.I. Leachate Blank
Cr [mg/L]	0.00009	0.00012	0.00010	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	0.0005	< 0.0002	0.0005	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	5.96	12.3	4.19	4.00	4.50	0.096
Li [mg/L]	0.0016	0.0007	0.0008	0.0006	0.0008	0.0001
Mg [mg/L]	10.1	5.02	4.15	3.72	4.39	0.009
Mn [mg/L]	0.00742	0.00091	0.00081	0.00037	0.00055	0.00018
Mo [mg/L]	0.00103	0.00120	0.00055	0.00045	0.00038	0.00006
Na [mg/L]	91.1	74.7	21.4	25.9	32.2	0.09
Ni [mg/L]	< 0.0001	0.0001	< 0.0001	< 0.0001	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0012	0.0033	0.0011	< 0.0009	< 0.0009	< 0.0009
Se [mg/L]	0.00008	< 0.00004	0.00009	< 0.00004	< 0.00004	< 0.00004
Si [mg/L]	1.02	1.80	0.84	0.88	0.90	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	14.1	0.207	0.0808	0.114	0.112	0.00031
Ti [mg/L]	0.00055	< 0.00005	0.00052	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000027	0.000009	0.000019	0.000010	0.000012	< 0.000005
U [mg/L]	0.000009	0.000020	< 0.000002	< 0.000002	< 0.000002	< 0.000002
W [mg/L]	0.00193	0.00092	0.00063	0.00045	0.00050	< 0.00002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
V [mg/L]	0.00048	0.00186	0.00067	0.00084	0.00056	0.00007
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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Project : PO# 77080

08-June-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 26 May 2022
LR Report: CA19168-MAY22
Reference: PO# 77080

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

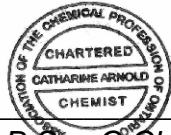
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAMLM228194 DP2-450-122 KSC-WA	6: CAMLM228195 DP1-400-159 KSC-WA	7: CAMLM228196 FW1-325-W KWA-S	8: CAMLM228197 DP1-375-114 MAFIC VOLCANIC	9: CAMLM228198 DP1-325-174 MAFIC VOLCANIC
Sample Date & Time					05-May-22	05-May-22	05-May-22	18-May-22	18-May-22
Ag [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	66000	72000	80000	96000	87000
As [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	110	19	73	63	59
Ba [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	360	460	530	550	520
Be [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.82	0.93	1	1	1
Bi [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.47	0.10	0.25	0.22	0.23
Ca [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	66000	23000	14000	15000	11000
Cd [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.10	0.08	0.08	0.12	0.10
Co [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	49	11	22	26	25
Cr [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	140	47	100	160	140
Cu [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	110	19	51	67	55
Fe [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	75000	68000	40000	61000	60000
K [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	12000	12000	21000	25000	24000
Li [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	36	21	24	26	29
Mg [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	38000	9600	13000	17000	17000
Mn [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	1400	370	400	490	390
Mo [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.8	1.3	1.5	1.7	1.5
Ni [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	130	25	67	86	85
Pb [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	17	12	12	10	13
Sb [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	160	340	220	200	180
Ti [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	2500	2500	3200	4100	4000
Tl [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.36	0.18	0.45	0.49	0.47
U [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.05	0.7	1.4	1.7	1.7
V [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	220	47	89	150	130
Y [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	5.59	5.76	7.20	8.23	7.11
Zn [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	80	65	65	82	87

Analysis	10:	11:
	CAMLM228199 DP1-325-174 MAFIC VOLCANIC	CAMLM228200 EXA-425-E KWA-S
Sample Date & Time	18-May-22	17-May-22
Ag [µg/g]	< 0.5	< 0.5
Al [µg/g]	78000	63000
As [µg/g]	420	27
Ba [µg/g]	190	560
Be [µg/g]	0.64	1
Bi [µg/g]	< 0.09	0.30
Ca [µg/g]	84000	14000
Cd [µg/g]	0.14	0.14
Co [µg/g]	44	18
Cr [µg/g]	110	75
Cu [µg/g]	89	45
Fe [µg/g]	75000	34000
K [µg/g]	16000	18000
Li [µg/g]	28	23
Mg [µg/g]	25000	12000
Mn [µg/g]	1700	380
Mo [µg/g]	0.3	1.3
Ni [µg/g]	120	61
Pb [µg/g]	9	16
Sb [µg/g]	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6
Sr [µg/g]	140	260
Ti [µg/g]	3300	2300
Tl [µg/g]	0.43	0.36
U [µg/g]	0.04	1.1
V [µg/g]	220	79
Y [µg/g]	11.5	5.57
Zn [µg/g]	94	74

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Project : PO# 770080

12-May-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 01 April 2022
LR Report: CA19011-APR22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CALM240326 FW1-175-W Mafic Volcanic	6: CALM240327 DP1-350-116 Mafic Volcanic	7: CALM240328 PP1-400-161 KS
Sample Date & Time					23-Mar-22	23-Mar-22	23-Mar-22
Sample weight [g]	22-Apr-22	07:30	25-Apr-22	09:03	250	250	250
Volume D.I. Water [mL]	22-Apr-22	07:30	25-Apr-22	09:03	750	750	750
Final pH [no unit]	23-Apr-22	06:55	25-Apr-22	09:03	9.66	9.08	9.00
pH [No unit]	25-Apr-22	14:07	26-Apr-22	15:13	7.50	7.71	7.74
Conductivity [uS/cm]	25-Apr-22	14:07	26-Apr-22	15:13	541	368	545
Alkalinity [mg/L as CaCO3]	25-Apr-22	14:07	26-Apr-22	15:13	17	33	53
SO4 [mg/L]	25-Apr-22	10:55	26-Apr-22	10:25	41	7	17
Hg [mg/L]	26-Apr-22	07:33	26-Apr-22	12:01	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	27-Apr-22	17:26	04-May-22	15:34	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.594	0.562	0.521
As [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.0335	0.0005	0.145
Ba [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.0107	0.0367	0.00476
B [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.103	0.025	0.040
Be [mg/L]	27-Apr-22	17:26	04-May-22	15:34	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00001	< 0.00001	< 0.00001
Ca [mg/L]	27-Apr-22	17:26	04-May-22	15:34	31.2	15.8	15.9
Cd [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.000003	0.000003	0.000003
Co [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.000054	0.000023	0.000079
Cr [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00013	< 0.00008	< 0.00008
Cu [mg/L]	27-Apr-22	17:26	04-May-22	15:34	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.007	< 0.007	< 0.007
K [mg/L]	27-Apr-22	17:26	04-May-22	15:34	8.33	4.24	13.7
Li [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.0008	0.0006	0.0007
Mg [mg/L]	27-Apr-22	17:26	04-May-22	15:34	2.08	2.50	4.35
Mn [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00184	0.00133	0.00108
Mo [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00473	0.00088	0.00231

Online LIMS

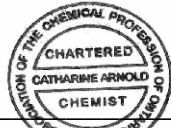
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Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CALM240326 FW1-175-W Mafic Volcanic	CALM240327 DP1-350-116 Mafic Volcanic	CALM240328 PP1-400-161 KS
Na [mg/L]	27-Apr-22	17:26	04-May-22	15:34	57.5	36.0	54.5
Ni [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.0001	< 0.0001	0.0001
Pb [mg/L]	27-Apr-22	17:26	04-May-22	15:34	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.0041	< 0.0009	0.0023
Se [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00026	0.00004	0.00015
Si [mg/L]	27-Apr-22	17:26	04-May-22	15:34	1.92	0.72	1.14
Sn [mg/L]	27-Apr-22	17:26	04-May-22	15:34	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.279	0.230	0.130
Ti [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00006	< 0.00005	0.00008
Tl [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.000006	0.000030	0.000015
U [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.000003	0.000003	0.000030
W [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00208	0.00105	0.00119
V [mg/L]	27-Apr-22	17:26	04-May-22	15:34	0.00497	0.00048	0.00092
Zn [mg/L]	27-Apr-22	17:26	04-May-22	15:34	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:BLK:
	CALM240329 EXA-425-E KWA-S	CALM240330 DP2-350-138 KSC-WA	CALM240331 DP1-325-127 KSC-WA	CALM240332 DP1-325-127 KSC-WA	CALM240332 \$D.I. DP1-325-127 KSC-WA	Leachate Blank
Sample Date & Time	23-Mar-22	24-Mar-22	24-Mar-22	24-Mar-22		
Sample weight [g]	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	9.23	9.05	9.44	9.51	9.49	5.71
pH [No unit]	7.76	7.83	7.93	7.91	8.03	5.62
Conductivity [uS/cm]	310	510	130	122	136	< 2
Alkalinity [mg/L as CaCO3]	31	52	57	47	59	< 2
SO4 [mg/L]	8	22	< 2	< 2	< 2	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.553	0.478	1.04	1.05	1.02	< 0.001
As [mg/L]	0.0547	0.0317	0.0341	0.0299	0.0338	< 0.0002
Ba [mg/L]	0.00222	0.00475	0.00136	0.00161	0.00126	0.00003
B [mg/L]	0.077	0.057	0.053	0.111	0.123	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10.9	17.4	6.62	5.39	5.72	0.02
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000037	0.000120	0.000108	0.000073	0.000065	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	0.00014	0.00014	< 0.00008

Analysis	8: CALM240329 EXA-425-E KWA-S	9: CALM240330 DP2-350-138 KSC-WA	10: CALM240331 DP1-325-127 KSC-WA	11: CALM240332 DP1-325-127 KSC-WA	12: CALM240332 DP1-325-127 KSC-WA	13:BLK: \$D.I. Leachate Blank
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.007	0.008	0.008	< 0.007
K [mg/L]	6.92	10.5	8.60	8.05	9.69	0.026
Li [mg/L]	0.0003	0.0007	0.0006	0.0005	0.0005	< 0.0001
Mg [mg/L]	1.75	4.65	1.30	1.13	1.20	0.004
Mn [mg/L]	0.00015	0.00095	0.00058	0.00035	0.00041	0.00015
Mo [mg/L]	0.00082	0.00123	0.00061	0.00042	0.00047	< 0.00004
Na [mg/L]	30.2	47.7	7.40	10.1	11.1	0.03
Ni [mg/L]	< 0.0001	0.0002	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0019	0.0045	0.0029	0.0037	0.0040	< 0.0009
Se [mg/L]	0.00004	0.00009	0.00010	0.00016	0.00013	< 0.00004
Si [mg/L]	1.28	1.32	1.46	1.58	1.49	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0657	0.143	0.0278	0.0249	0.02533	0.00008
Ti [mg/L]	0.00009	< 0.00005	0.00026	0.00039	0.00038	< 0.00005
Tl [mg/L]	< 0.000005	0.000010	0.000011	< 0.000005	0.000006	< 0.000005
U [mg/L]	0.000006	0.000036	0.000131	0.000152	0.000129	< 0.000002
W [mg/L]	0.00095	0.00118	0.00095	0.00126	0.00148	< 0.00002
V [mg/L]	0.00151	0.00138	0.00431	0.00480	0.00522	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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



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mel

Project : PO# 77080

08-June-2022

Date Rec. : 26 May 2022
LR Report: CA19169-MAY22

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: CAMLM228194 DP2-450-122 KSC-WA	6: CAMLM228195 DP1-400-159 KSC-WA	7: CAMLM228196 FW1-325-W KWA-S	8: CAMLM228197 DP1-375-114 MAFIC VOLCANIC
Sample Date & Time					05-May-22	05-May-22	05-May-22	18-May-22
Sample weight [g]	31-May-22	10:49	01-Jun-22	16:51	250	250	250	250
Volume D.I. Water [mL]	31-May-22	10:49	01-Jun-22	16:51	750	750	750	750
Final pH [no unit]	01-Jun-22	09:56	01-Jun-22	16:51	8.81	8.95	9.24	8.92
pH [No unit]	02-Jun-22	15:33	03-Jun-22	12:29	8.11	7.96	8.44	7.98
Conductivity [uS/cm]	02-Jun-22	15:33	03-Jun-22	12:29	452	416	248	639
Alkalinity [mg/L as CaCO3]	02-Jun-22	15:33	03-Jun-22	12:29	64	46	56	48
SO4 [mg/L]	03-Jun-22	12:15	06-Jun-22	15:34	8	9	< 2	20
Hg [mg/L]	06-Jun-22	06:10	06-Jun-22	14:18	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.371	0.723	0.850	0.502
As [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.0104	0.0009	0.0157	0.0353
Ba [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.00390	0.00651	0.00265	0.00435
B [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.154	0.118	0.207	0.237
Be [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	17.2	17.3	11.2	18.6
Cd [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.000003	< 0.000003	0.000004	< 0.000003
Co [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.000100	0.000115	0.000195	0.000103
Cr [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.00008	< 0.00008	0.00015	< 0.00008
Cu [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.007	< 0.007	0.018	< 0.007
K [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	10.9	11.9	17.2	21.3
Li [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.0010	0.0007	0.0009	0.0007
Mg [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	8.79	3.16	2.54	5.85
Mn [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.00157	0.00107	0.00277	0.00118
Mo [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.00057	0.00054	0.00677	0.00142
Na [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	55.0	58.3	21.4	92.9
Ni [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.0001	< 0.0001	0.0002	0.0002
Pb [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.0009	0.0030	0.0063	0.0031
Se [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.00010	0.00010	0.00014	0.00014
Si [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.82	0.82	1.12	1.09
Sn [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.00006	< 0.00006	0.00008	< 0.00006

Online LIMS

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Project : PO# 77080

LR Report : CA19169-MAY22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: CAMLM228194 DP2-450-122 KSC-WA	6: CAMLM228195 DP1-400-159 KSC-WA	7: CAMLM228196 FW1-325-W KWA-S	8: CAMLM228197 DP1-375-114 MAFIC VOLCANIC
Sr [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.150	0.183	0.0492	0.122
Ti [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.000032	0.000018	0.000026	0.000007
U [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.000002	0.000010	0.000077	0.000029
W [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.00150	0.00314	0.00735	0.00172
V [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	0.00036	0.00018	0.00163	0.00063
Zn [mg/L]	03-Jun-22	11:00	08-Jun-22	15:08	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: CAMLM228198 DP1-325-174 MAFIC VOLCANIC	10: CAMLM228199 DP1-325-174 MAFIC VOLCANIC	11: CAMLM228200 EXA-425-E KWA-S	12: CAMLM228194 DP2-450-122 KSC-WA	13: CAMLM228195 DP1-400-159 KSC-WA	14: CAMLM228196 FW1-325-W KWA-S
Sample Date & Time	18-May-22	18-May-22	17-May-22			
Sample weight [g]	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.96	8.65	9.15	8.78	8.93	9.23
pH [No unit]	7.97	8.36	8.01	8.17	7.98	8.43
Conductivity [uS/cm]	553	297	410	460	429	269
Alkalinity [mg/L as CaCO3]	51	103	47	74	50	59
SO4 [mg/L]	17	2	9	7	8	2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.565	0.374	0.587	0.354	0.647	0.730
As [mg/L]	0.0144	0.0548	0.0072	0.0120	0.0011	0.0191
Ba [mg/L]	0.00363	0.00223	0.00353	0.00430	0.00643	0.00276
B [mg/L]	0.169	0.111	0.130	0.169	0.123	0.200
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	17.0	15.1	13.4	17.6	17.6	10.8
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000112	0.000125	0.000043	0.000117	0.000101	0.000219
Cr [mg/L]	0.00017	< 0.00008	0.00009	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	0.020	< 0.007	< 0.007	< 0.007	< 0.007	0.010
K [mg/L]	23.4	18.7	16.2	13.1	13.0	21.7
Li [mg/L]	0.0007	0.0021	0.0006	0.0013	0.0008	0.0010
Mg [mg/L]	5.20	9.73	4.38	10.2	3.22	2.63
Mn [mg/L]	0.00126	0.00526	0.00094	0.00171	0.00102	0.00093
Mo [mg/L]	0.00149	0.00022	0.00081	0.00056	0.00080	0.00094
Na [mg/L]	80.8	22.5	54.8	54.5	60.1	23.2
Ni [mg/L]	0.0003	0.0010	< 0.0001	0.0002	0.0001	0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0027	0.0055	0.0028	< 0.0009	0.0032	0.0066
Se [mg/L]	0.00017	0.00028	0.00007	0.00007	0.00005	0.00017
Si [mg/L]	1.13	1.01	1.30	0.95	0.93	1.33
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00006
Sr [mg/L]	0.0944	0.0659	0.0987	0.142	0.182	0.0479
Ti [mg/L]	0.00026	< 0.00005	0.00019	0.00007	< 0.00005	0.00010
Tl [mg/L]	0.000006	0.000029	0.000007	0.000032	0.000015	0.000027

SGS Canada Inc.

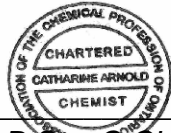
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Project : PO# 77080

LR Report : CA19169-MAY22

Analysis	9: CAMLM228198 DP1-325-174 MAFIC VOLCANIC	10: CAMLM228199 DP1-325-174 MAFIC VOLCANIC	11: CAMLM228200 EXA-425-E KWA-S	12: CAMLM228194 DP2-450-122 KSC-WA	13: CAMLM228195 DP1-400-159 KSC-WA	14: CAMLM228196 FW1-325-W KWA-S
U [mg/L]	0.000023	< 0.000002	0.000025	< 0.000002	0.000009	0.000085
W [mg/L]	0.00138	0.00073	0.00165	0.00142	0.00311	0.00690
V [mg/L]	0.00087	0.00044	0.00115	0.00039	0.00018	0.00186
Zn [mg/L]	0.098	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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Project : PO# 77080

09-June-2022

Agnico Eagle Mines Limited
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Date Rec. : 26 May 2022
LR Report: CA19167-MAY22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM22819 4 DP2-450-122 KSC-WA	CAMLM22819 5 DP1-400-159 KSC-WA	CAMLM22819 96 FW1-325-W KWA-S
Sample Date & Time					05-May-22	05-May-22	05-May-22
Paste pH [no unit]	01-Jun-22	16:30	03-Jun-22	16:39	8.63	8.70	9.07
Fizz Rate [no unit]	01-Jun-22	16:30	03-Jun-22	16:39	4	4	4
Sample weight [g]	01-Jun-22	16:30	03-Jun-22	16:39	1.87	1.82	2.09
HCl_add [mL]	02-Jun-22	14:34	03-Jun-22	16:39	195.00	60.00	60.00
HCl [Normality]	01-Jun-22	16:30	03-Jun-22	16:39	0.10	0.10	0.10
NaOH [Normality]	01-Jun-22	16:30	03-Jun-22	16:39	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	02-Jun-22	16:40	03-Jun-22	16:39	93.30	34.49	30.75
Final pH [no unit]	02-Jun-22	16:40	03-Jun-22	16:39	1.51	1.53	1.51
NP [t CaCO3/1000 t]	02-Jun-22	16:40	03-Jun-22	16:39	272	70.1	70.0
AP [t CaCO3/1000 t]	03-Jun-22	16:39	03-Jun-22	16:39	8.12	1.88	3.75
Net NP [t CaCO3/1000 t]	03-Jun-22	16:39	03-Jun-22	16:39	264	68.2	66.2
NP/AP [ratio]	03-Jun-22	16:39	03-Jun-22	16:39	33.5	37.4	18.7
S [%]	02-Jun-22	12:06	03-Jun-22	13:38	0.297	0.086	0.167
Acid Leachable SO4-S [%]	03-Jun-22	13:38	03-Jun-22	13:38	< 0.04	< 0.04	0.05
Sulphide [%]	02-Jun-22	11:06	03-Jun-22	13:38	0.26	0.06	0.12
C [%]	02-Jun-22	12:06	09-Jun-22	09:19	3.36	0.764	0.704
CO3 (HCl) [%]	03-Jun-22	09:13	09-Jun-22	09:19	16.5	3.62	3.39

Analysis	8:	9:	10:	11:
	CAMLM22819 7 DP1-375-114 MAFIC VOLCANIC	CAMLM22819 8 DP1-325-174 MAFIC VOLCANIC	CAMLM22819 9 DP1-325-174 MAFIC VOLCANIC	CAMLM22820 0 EXA-425-E KWA-S
Sample Date & Time	18-May-22	18-May-22	18-May-22	17-May-22
Paste pH [no unit]	8.87	8.84	8.76	8.99
Fizz Rate [no unit]	3	3	4	3

Online LIMS

0002929845

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Project : PO# 77080

LR Report : CA19167-MAY22

Analysis	8: CAMLM22819 7 DP1-375-114 MAFIC VOLCANIC	9: CAMLM22819 8 DP1-325-174 MAFIC VOLCANIC	10: CAMLM22819 9 DP1-325-174 MAFIC VOLCANIC	11: CAMLM22820 0 EXA-425-E KWA-S
Sample weight [g]	2.08	2.15	2.12	2.11
HCl_add [mL]	60.00	50.00	180.00	40.00
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]	32.54	25.80	61.87	16.48
Final pH [no unit]	1.73	1.93	1.66	1.82
NP [t CaCO3/1000 t]	66.0	56.3	279	55.7
AP [t CaCO3/1000 t]	4.69	4.38	2.19	4.38
Net NP [t CaCO3/1000 t]	61.3	51.9	276	51.3
NP/AP [ratio]	14.1	12.9	127	12.7
S [%]	0.214	0.197	0.095	0.201
Acid Leachable SO4-S [%]	0.06	0.06	< 0.04	0.06
Sulphide [%]	0.15	0.14	0.07	0.14
C [%]	0.774	0.589	3.70	0.647
CO3 (HCl) [%]	3.61	2.69	18.4	3.10

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
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ABA - Modified Sobek

Project : PO# 770080

20-July-2022

Date Rec. : 23 June 2022
LR Report: CA19230-JUN22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis TimeCompleted	5: CAMLM183001 LE0-400-111-100 0 KS	6: CAMLM183002 DP1-450-122FW1 Mafic volcanic	7: CAMLM183003 CAMLM183004 DP1-375-159 KS DP1-450-123-KS	8: CAMLM183004 DP1-450-123-KS	9: CAMLM183005 DP1-350-173 Mafic volcanic	10: CAMLM183006 DP2-250-163 KSC-WA	11: CAMLM183007 DP2-250-163 KSC-WA
Sample Date & Time					10-Jun-22	11-Jun-22	11-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22
Paste pH [no unit]	29-Jun-22	08:00	04-Jul-22	09:28	7.74	8.63	8.58	8.63	8.38	8.89	8.90
Fizz Rate [no unit]	29-Jun-22	08:00	04-Jul-22	09:28	4	3	3	3	4	4	4
Sample weight [g]	29-Jun-22	08:00	04-Jul-22	09:28	2.01	2.00	1.92	1.97	1.98	2.03	2.02
HCl Added [mL]	30-Jun-22	06:00	04-Jul-22	09:28	95.00	44.10	43.30	43.60	165.00	40.00	40.00
HCl [Normality]	29-Jun-22	08:00	04-Jul-22	09:28	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	29-Jun-22	08:00	04-Jul-22	09:28	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	30-Jun-22	08:00	04-Jul-22	09:28	32.20	22.90	22.24	21.46	60.96	16.91	14.94
Final pH [no unit]	30-Jun-22	08:00	04-Jul-22	09:28	1.80	1.58	1.62	1.59	1.62	1.71	1.87
NP [t CaCO3/1000 t]	30-Jun-22	08:00	04-Jul-22	09:28	156	53.0	54.8	56.2	263	56.9	62.0
AP [t CaCO3/1000 t]	08-Jul-22	17:06	08-Jul-22	17:06	4.69	3.12	6.88	5.94	28.8	1.25	9.38
Net NP [t CaCO3/1000 t]	08-Jul-22	17:06	08-Jul-22	17:06	152	49.9	47.9	50.3	234	55.6	52.6
NP/AP [ratio]	08-Jul-22	17:06	08-Jul-22	17:06	33.3	17.0	7.97	9.47	9.14	45.5	6.61
Sulphur (total) [%]	07-Jul-22	10:06	08-Jul-22	17:06	0.222	0.146	0.352	0.274	1.33	0.030	0.521
Acid Leachable SO4-S [%]	08-Jul-22	16:48	08-Jul-22	17:06	0.07	0.05	0.13	0.08	0.41	<0.04	0.22
Sulphide [%]	08-Jul-22	13:23	08-Jul-22	17:06	0.15	0.10	0.22	0.19	0.92	< 0.04	0.30
Carbon (total) [%]	07-Jul-22	10:06	08-Jul-22	16:48	2.16	0.670	0.740	0.744	4.00	0.703	0.743
Carbonate (HCl) [%]	08-Jul-22	10:32	08-Jul-22	16:48	10.7	3.31	3.64	3.62	18.1	3.48	3.66

ABA - Modified Sobek

*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

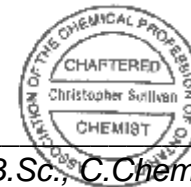
NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	ASTM E1915-07A
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	ASTM E1915-07A
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	ARD Prediction Manual, 2009

Chris Sullivan



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ABA - Modified Sobek

Project : PO# 770080

LR Report : CA19230-JUN22

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Carbon/Sulphur - QCBatchID: ECS0005-JUL22</i>													
Sulphide	0.04	%	< 0.04			9	20	100	80	120			
<i>Carbon/Sulphur - QCBatchID: ECS0020-JUL22</i>													
Carbon (total)	0.005	%	<0.005			3	20				99	70 130	
Sulphur (total)	0.005	%	<0.005			3	20				101	70 130	
<i>Carbon/Sulphur - QCBatchID: ECS0026-JUL22</i>													
Carbonate (HCl)	0.04	%	<0.04			0	20	98	80	120			



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Project : PO# 770080

20-July-2022

Date Rec. : 23 June 2022
LR Report: CA19231-JUN22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis DateCompleted	4: Analysis TimeCompleted	5: CAMLM183001 LE0-400-111-100 0 KS	6: CAMLM183002 DP1-450-122FW1-375-159 Mafic volcanic	7: CAMLM183003 DP1-375-159 KS	8: CAMLM183004 DP1-450-123-KS	9: CAMLM183005 DP1-350-173 Mafic volcanic	10: CAMLM183006 DP2-250-163 KSC-WA	11: CAMLM183007 DP2-250-163 KSC-WA
Sample Date & Time					10-Jun-22	11-Jun-22	11-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22
Silver [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	84000	62000	79000	80000	73000	82000	79000
Arsenic [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	15	980	810	3200	2000	130	480
Barium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	410	530	550	950	160	760	550
Beryllium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	0.83	1	1	1	0.58	1	1
Bismuth [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	0.13	0.09	1	0.23	0.34	0.10	1
Calcium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	56000	19000	17000	17000	100000	25000	27000
Cadmium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	0.25	0.10	0.16	0.11	1	0.04	0.06
Cobalt [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	36	14	22	16	49	10	9
Chromium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	160	55	110	51	210	31	25
Copper [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	120	33	58	31	190	12	39
Iron [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	75000	72000	86000	59000	80000	52000	69000
Potassium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	20000	14000	21000	23000	12000	22000	17000
Lithium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	47	29	27	29	36	32	26
Magnesium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	22000	9500	16000	11000	23000	8100	7600
Manganese [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	1000	410	460	330	2500	330	380
Molybdenum [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	1.0	10	1.7	0.9	1.4	0.8	2.9
Nickel [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	360	69	80	47	130	31	24
Lead [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	7	31	27	43	17	9	9

OnLine LIMS


0002982754

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis TimeCompleted	5: CAMLM183001 LE0-400-111-100 0 KS	6: CAMLM183002 DP1-450-122FW1-375-159 Mafic volcanic	7: CAMLM183003 KSDP1-450-123-KS	8: CAMLM183004 DP1-350-173 Mafic volcanic	9: CAMLM183005 DP2-250-163 KSC-WA	10: CAMLM183006 DP2-250-163 KSC-WA	11: CAMLM183007 DP2-250-163 KSC-WA
Antimony [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	< 0.8	< 0.8	< 0.8	1.4	1.3	< 0.8	< 0.8
Selenium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	< 0.7	< 0.7	< 0.7	< 0.7	1.3	< 0.7	< 0.7
Tin [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	250	310	260	340	200	390	440
Titanium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	4100	2800	3300	3000	3400	2500	2300
Thallium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	0.49	0.29	0.37	0.45	0.56	0.37	0.27
Uranium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	0.66	0.46	1.33	0.62	0.27	1.01	0.87
Vanadium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:32	200	70	110	73	230	54	45
Yttrium [µg/g]	06-Jul-22	17:53	07-Jul-22	13:33	8.9	3.1	6.1	3.8	9.2	4.8	5.3
Zinc [µg/g]	06-Jul-22	17:53	07-Jul-22	13:33	100	75	100	69	510	52	55

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-013	EPA 3052/200.8

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Project : PO# 770080

LR Report : CA19231-JUN22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0293-JUN22</i>													
Aluminum	3	µg/g	<3			3	20	90	70	130	95	70	130
Antimony	0.8	µg/g	<0.8			9	20	97	70	130	114	70	130
Arsenic	0.5	µg/g	<0.5			7	20	95	70	130	113	70	130
Barium	0.01	µg/g	<0.01			2	20	102	70	130	97	70	130
Beryllium	0.02	µg/g	<0.02			3	20	94	70	130	76	70	130
Bismuth	0.09	µg/g	<0.09			9	20	95	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			5	20	93	70	130	NV	70	130
Chromium	0.5	µg/g	<0.5			2	20	97	70	130	99	70	130
Cobalt	0.01	µg/g	<0.01			1	20	97	70	130	111	70	130
Copper	0.1	µg/g	<0.1			0	20	94	70	130	117	70	130
Iron	3	µg/g	<3			3	20	94	70	130	111	70	130
Lead	0.05	µg/g	<0.05			2	20	98	70	130	98	70	130
Lithium	2	µg/g	<2			1	20	101	70	130	92	70	130
Magnesium	3	µg/g	<3			1	20	96	70	130	110	70	130
Manganese	0.1	µg/g	<0.1			1	20	97	70	130	107	70	130
Molybdenum	0.1	µg/g	<0.1			2	20	97	70	130	106	70	130
Nickel	0.1	µg/g	<0.1			2	20	94	70	130	122	70	130
Selenium	0.7	µg/g	<0.7			ND	20	100	70	130	NV	70	130
Silver	0.5	µg/g	<0.01			3	20	106	70	130	NV	70	130
Strontium	0.02	µg/g	<0.02			2	20	96	70	130	109	70	130
Thallium	0.02	µg/g	<0.02			5	20	99	70	130	NV	70	130
Tin	6	µg/g	<6			4	20	102	70	130	NV	70	130
Titanium	0.1	µg/g	<0.1			1	20	96	70	130	89	70	130
Uranium	0.002	µg/g	<0.002			5	20	95	70	130	84	70	130
Vanadium	1	µg/g	<1			10	20	97	70	130	114	70	130
Yttrium	0.004	µg/g	<0.004			4	20	98	70	130	83	70	130
Zinc	0.7	µg/g	<0.7			3	20	95	70	130	107	70	130



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Project : PO#770080

20-July-2022

Date Rec. : 23 June 2022
LR Report: CA19232-JUN22
Reference: SFE 3:1 ratio 24hr (MEND) prefilter pH

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAMLM183001 LE0-400-111-100 0 KS	6: CAMLM183002 DP1-450-122FW1-375-159 Mafic volcanic	7: CAMLM183003 DP1-450-123-KS	8: CAMLM183004 DP1-450-123-KS	9: CAMLM183005 DP1-350-173 Mafic volcanic	10: CAMLM183006 DP2-250-163 KSC-WA	11: CAMLM183007 DP2-250-163 KSC-WA
Sample Date & Time					10-Jun-22	11-Jun-22	11-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22	16-Jun-22
Sample weight [g]	28-Jun-22	07:00	29-Jun-22	16:37	250	250	250	250	250	250	250
Volume D.I. Water [mL]	28-Jun-22	07:00	29-Jun-22	16:37	750	750	750	750	750	750	750
Final pH [no unit]	29-Jun-22	07:00	29-Jun-22	16:37	8.26	8.97	9.05	8.96	8.78	9.33	9.01
pH [No unit]	29-Jun-22	14:57	30-Jun-22	11:41	7.97	7.99	8.06	8.10	8.40	7.97	7.72
Conductivity [uS/cm]	29-Jun-22	14:57	30-Jun-22	11:41	431	181	225	496	379	205	322
Alkalinity [mg/L as CaCO3]	29-Jun-22	14:57	30-Jun-22	11:41	64	49	44	47	64	35	39
Sulphate [mg/L]	30-Jun-22	16:02	04-Jul-22	16:39	93	22	8	18	4	5	11
Mercury [mg/L]	04-Jul-22	12:04	30-Jun-22	18:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.122	0.612	0.787	0.564	0.577	1.08	0.792
Arsenic [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.0013	0.0409	0.0186	0.110	0.0652	0.0311	0.0148
Barium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00994	0.00857	0.00329	0.0151	0.00171	0.00336	0.00526
Boron [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.071	0.123	0.114	0.095	0.218	0.038	0.045
Beryllium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	45.9	15.9	12.9	18.4	19.5	9.34	15.5
Cadmium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.000009	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003

OnLine LIMS

0002982758



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Project : PO#770080

LR Report : CA19232-JUN22

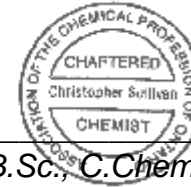
Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: CAMLM183001 LE0-400-111-100 0 KS	6: CAMLM183002 DP1-450-122FW1-375-159 Mafic volcanic	7: CAMLM183003 KSDP1-450-123-KS	8: CAMLM183004 DP1-450-123-KS	9: CAMLM183005 DP1-350-173 Mafic volcanic	10: CAMLM183006 DP2-250-163 KSC-WA	11: CAMLM183007 DP2-250-163 KSC-WA
Cobalt [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.000071	0.000055	0.000117	0.000045	0.000255	0.000027	0.000017
Chromium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.00008	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Copper [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.0006	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Iron [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	10.4	8.88	9.92	16.4	8.69	11.8	11.2
Lithium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.0058	0.0016	0.0006	0.0021	0.0031	0.0009	0.0009
Magnesium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	8.46	2.75	2.74	5.44	7.10	0.972	1.85
Manganese [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.0155	0.00211	0.00088	0.00132	0.00781	0.00065	0.00112
Molybdenum [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00198	0.00177	0.00163	0.00110	0.00063	0.00101	0.00140
Sodium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	24.3	13.8	24.0	65.0	27.1	26.2	42.6
Nickel [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.0118	0.0006	0.0003	0.0003	0.0004	0.0003	0.0002
Lead [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Antimony [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.0017	0.0034	0.0017	0.0038	0.0065	0.0032	0.0022
Selenium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00015	0.00011	0.00007	0.00011	0.00015	0.00008	0.00004
Silicon [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	1.77	1.04	0.92	1.14	0.86	1.37	1.03
Tin [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00021	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.282	0.141	0.0923	0.202	0.0776	0.0874	0.163
Titanium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00024	0.00005	0.00005	0.00012	< 0.00005	0.00011	0.00008
Thallium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.000015	0.000007	< 0.000005	0.000012	< 0.000005	0.000010	< 0.000005
Uranium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.000278	0.000025	0.000012	0.000021	0.000004	0.000093	0.000032
Tungsten [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00035	0.00210	0.00224	0.00457	0.00264	0.00067	0.00105
Vanadium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	0.00019	0.00042	0.00048	0.00059	0.00051	0.00145	0.00037
Zinc [mg/L]	05-Jul-22	19:15	06-Jul-22	15:39	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.003

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320
Anions by discrete analyzer	ME-CA-[ENV]EWL-LAK-AN-026	US EPA 375.4
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
pH	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500

Chris Sullivan



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



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Project : PO#770080

LR Report : CA19232-JUN22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Alkalinity - QCBatchID: EWL0658-JUN22</i>													
Alkalinity	2	mg/L as Ca	< 2			2	20	100	80	120	NA		
<i>Anions by discrete analyzer - QCBatchID: DIO5150-JUN22</i>													
Sulphate	2	mg/L	<2			5	20	114	80	120	106	75	125
<i>Conductivity - QCBatchID: EWL0658-JUN22</i>													
Conductivity	2	uS/cm	< 2			1	20	98	90	110	NA		
<i>Inorganics-General - QCBatchID: EHG0062-JUN22</i>													
Mercury	0.00001	mg/L	< 0.00001			ND	20	99	80	120	99	70	130
<i>Metals - QCBatchID: EMS0282-JUN22</i>													
Cobalt	0.000004	mg/L	<0.000004			4	20	99	90	110	108	70	130
<i>Metals in aqueous samples - ICP-MS - QCBatchID: EMS0282-JUN22</i>													
Aluminum	0.001	mg/L	<0.001			1	20	104	90	110	113	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	112	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	100	90	110	122	70	130
Barium	0.00008	mg/L	<0.00002			1	20	97	90	110	95	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	98	90	110	97	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	100	70	130
Boron	0.002	mg/L	<0.002			6	20	100	90	110	95	70	130
Cadmium	0.000003	mg/L	<0.000003			18	20	99	90	110	111	70	130
Calcium	0.01	mg/L	<0.01			2	20	97	90	110	88	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	94	90	110	112	70	130
Copper	0.0002	mg/L	<0.0002			7	20	94	90	110	105	70	130
Iron	0.007	mg/L	<0.007			0	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00001			6	20	99	90	110	100	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	100	90	110	94	70	130
Magnesium	0.001	mg/L	<0.001			1	20	101	90	110	107	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	96	90	110	104	70	130
Molybdenum	0.00004	mg/L	<0.00004			0	20	97	90	110	100	70	130
Nickel	0.0001	mg/L	<0.0001			1	20	102	90	110	115	70	130
Potassium	0.009	mg/L	<0.009			1	20	100	90	110	89	70	130
Selenium	0.00004	mg/L	<0.00004			14	20	96	90	110	112	70	130
Silicon	0.02	mg/L	<0.02			0	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	101	90	110	110	70	130
Sodium	0.01	mg/L	<0.01			1	20	108	90	110	105	70	130
Strontium	0.00008	mg/L	<0.00002			0	20	98	90	110	96	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	98	70	130



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Project : PO#770080

LR Report : CA19232-JUN22

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
Tin	0.00006	mg/L	<0.00006			1	20	96	90	110	NV	70	130
Titanium	0.00005	mg/L	<0.00005			6	20	103	90	110	NV	70	130
Tungsten	0.00002	mg/L	<0.00002			1	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	95	90	110	97	70	130
Vanadium	0.00001	mg/L	<0.00001			10	20	99	90	110	116	70	130
Zinc	0.002	mg/L	<0.002			ND	20	98	90	110	119	70	130
<i>pH - QCBatchID: EWL0658-JUN22</i>													
pH	0.05	No unit	NA			0		100			NA		



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Agnico Eagle Mines Limited

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, Nunavut
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Project : PO# 77080

16-August-2022

Date Rec. : 28 July 2022
LR Report: CA19210-JUL22
Reference: PO# 77080

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: CAMLN226893 DP1-275-166 KSC-WA	6: CAMLN226894 DP1-350-117 MAFIC VOLCANICS	7: CAMLN226895 DP2-450-123 KS
Sample Date & Time					06-Jul-22	06-Jul-22	10-Jul-22
Sample weight [g]	05-Aug-22	09:05	08-Aug-22	12:00	250	250	250
Volume D.I. Water [mL]	05-Aug-22	09:05	08-Aug-22	12:00	750	750	750
Final pH [no unit]	06-Aug-22	11:20	08-Aug-22	12:00	8.66	9.05	8.44
pH [No unit]	08-Aug-22	10:20	09-Aug-22	14:00	8.08	8.14	8.43
Conductivity [uS/cm]	08-Aug-22	10:20	15-Aug-22	10:54	251	190	841
Alkalinity [mg/L as CaCO3]	08-Aug-22	10:20	15-Aug-22	10:54	63	49	90
SO4 [mg/L]	08-Aug-22	13:47	09-Aug-22	16:58	12	3	< 2
Hg [mg/L]	09-Aug-22	10:05	11-Aug-22	16:42	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.036	0.041	0.008
As [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.0602	0.0100	0.0012
Ba [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00195	0.00143	0.00531
B [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.093	0.052	0.459
Be [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00001	0.00001	0.00002
Ca [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	3.37	1.96	1.41
Cd [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.000059	0.000003	< 0.000003
Co [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.000078	0.000012	0.000116
Cr [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00131	0.00106	0.00106
Cu [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.007	< 0.007	< 0.007
K [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	15.1	13.7	22.7
Li [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.0011	0.0012	0.0013
Mg [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.118	0.065	0.094
Mn [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00184	0.00005	0.00011
Mo [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.0857	0.00369	0.00308

Online LIMS

0003012495

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Project : PO# 77080

LR Report : CA19210-JUL22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLN226893 DP1-275-166 KSC-WA	CAMLN226894 DP1-350-117 MAFIC VOLCANICS	CAMLN226895 DP2-450-123 KS
Na [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	729	601	646
Ni [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.0041	0.0021	0.0030
Se [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00077	0.00023	0.00017
Si [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	1.18	1.60	1.43
Sn [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00056	0.00045	0.00074
Sr [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.0554	0.0312	0.172
Ti [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00015	0.00011	0.00013
Tl [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.000005	< 0.000005	0.000039
U [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.000093	0.000090	0.000009
W [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.0169	0.0118	0.0225
V [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	0.00047	0.00102	0.00016
Zn [mg/L]	12-Aug-22	16:49	15-Aug-22	16:49	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:
	CAMLN226896 DL1-100-167-10DL1-100-167-10 50 KSC-WA / KSC-LJ	CAMLN226898 DL1-100-167-10DL1-100-167-10 50 KSC-WA / KSC-LJ	CAMLN226899 CC1-475-120 KSC-WA	CAMLN226900 DP1-425-173 MAFIC VOLCANICS
Sample Date & Time	10-Jul-22	15-Jul-22	17-Jul-22	17-Jul-22
Sample weight [g]	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	8.65	8.28	9.02	8.74
pH [No unit]	8.22	8.19	8.17	8.34
Conductivity [uS/cm]	247	473	280	171
Alkalinity [mg/L as CaCO3]	68	85	51	78
SO4 [mg/L]	5	23	19	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.014	0.006	0.018	0.012
As [mg/L]	0.0008	0.0004	0.0061	0.0123
Ba [mg/L]	0.00293	0.0127	0.0752	0.00028
B [mg/L]	0.090	0.121	0.096	0.157
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	1.81	1.38	5.54	0.70
Cd [mg/L]	0.000007	< 0.000003	0.000012	0.000009
Co [mg/L]	0.000019	0.000017	0.000182	0.000100
Cr [mg/L]	0.00132	0.00112	0.00144	0.00098
Cu [mg/L]	< 0.0002	< 0.0002	0.0007	< 0.0002

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Project : PO# 77080

LR Report : CA19210-JUL22

Analysis	8: CAMLN226896 DL1-100-167-10 50 KSC-WA / KSC-LJ	9: CAMLN226898 DL1-100-167-10 50 KSC-WA / KSC-LJ	10: CAMLN226899 CC1-475-120 KSC-WA	11: CAMLN226900 DP1-425-173 MAFIC VOLCANICS
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	12.4	11.9	18.7	5.21
Li [mg/L]	0.0010	0.0018	0.0015	0.0037
Mg [mg/L]	0.100	0.104	0.169	0.132
Mn [mg/L]	0.00095	0.00018	0.0159	0.00072
Mo [mg/L]	0.0141	0.00203	0.0247	0.00620
Na [mg/L]	785	695	814	620
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0013	0.0013	0.0052	0.0027
Se [mg/L]	0.00024	0.00028	0.00141	0.00010
Si [mg/L]	1.16	1.20	1.48	1.13
Sn [mg/L]	0.00069	0.00066	0.00071	0.00159
Sr [mg/L]	0.0590	0.0902	0.200	0.00778
Ti [mg/L]	0.00016	0.00007	0.00033	0.00010
Tl [mg/L]	0.000005	< 0.000005	0.000021	< 0.000005
U [mg/L]	0.000039	0.000018	0.000401	0.000007
W [mg/L]	0.0176	0.0220	0.0484	0.0247
V [mg/L]	0.00016	0.00017	0.00161	0.00079
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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



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Project : PO# 77080

22-August-2022

Date Rec. : 28 July 2022
LR Report: CA19208-JUL22

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: CAMLN22689 DP1-275-1664 KSC-WA	6: CAMLN22689 DP1-350-1175 MAFIC VOLCANICS	7: CAMLN22689 DP2-450-123 KS
Sample Date & Time					06-Jul-22	06-Jul-22	10-Jul-22
Paste pH [no unit]	03-Aug-22	08:27	04-Aug-22	14:31	8.94	9.12	8.08
Fizz Rate [no unit]	03-Aug-22	08:27	04-Aug-22	14:31	4	4	4
Sample weight [g]	03-Aug-22	08:27	04-Aug-22	14:31	2.00	2.00	2.01
HCl_add [mL]	04-Aug-22	06:32	04-Aug-22	14:31	40.00	57.00	62.00
HCl [Normality]	03-Aug-22	08:27	04-Aug-22	14:31	0.10	0.10	0.10
NaOH [Normality]	03-Aug-22	08:27	04-Aug-22	14:31	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	04-Aug-22	08:27	04-Aug-22	14:31	24.78	27.21	22.24
Final pH [no unit]	04-Aug-22	08:27	04-Aug-22	14:31	1.57	1.52	1.91
NP [t CaCO3/1000 t]	04-Aug-22	08:27	04-Aug-22	14:31	38.0	74.5	98.9
AP [t CaCO3/1000 t]	19-Aug-22	14:27	19-Aug-22	14:28	10.6	5.31	5.31
Net NP [t CaCO3/1000 t]	19-Aug-22	14:27	19-Aug-22	14:28	27.4	69.2	93.6
NP/AP [ratio]	19-Aug-22	14:27	19-Aug-22	14:28	3.58	14.0	18.6
S [%]	14-Aug-22	13:16	19-Aug-22	14:27	0.395	0.224	0.217
Acid Leachable SO4-S [%]	19-Aug-22	14:27	19-Aug-22	14:27	0.06	0.05	0.05
Sulphide [%]	16-Aug-22	20:37	19-Aug-22	14:27	0.34	0.17	0.17
C [%]	14-Aug-22	13:16	17-Aug-22	15:00	0.455	1.03	1.77
CO3 (HCl) [%]	16-Aug-22	18:25	17-Aug-22	15:00	2.18	5.06	8.10

Analysis	8:	9:	10:	11:
	CAMLN22689	CAMLN22689	CAMLN22689	CAMLN22690
	6	8	90 DP1-425-173	
	DL1-100-167-1	DL1-100-167-1	CC1-475-120	MAFIC
	050 KSC-WA / KSC-LJ	050 KSC-WA / KSC-LJ	KSC-WA	VOLCANICS
Sample Date & Time	10-Jul-22	15-Jul-22	17-Jul-22	17-Jul-22
Paste pH [no unit]	8.76	8.26	9.03	8.66
Fizz Rate [no unit]	4	4	3	3
Sample weight [g]	2.01	2.03	2.00	1.97
HCl_add [mL]	61.00	63.00	53.00	140.00
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]	32.43	23.87	23.85	72.02
Final pH [no unit]	1.68	1.91	1.66	1.62
NP [t CaCO3/1000 t]	71.1	96.4	72.9	172
AP [t CaCO3/1000 t]	10.3	50.9	9.06	2.81
Net NP [t CaCO3/1000 t]	60.8	45.5	63.8	170
NP/AP [ratio]	6.89	1.89	8.04	61.3
S [%]	0.362	1.70	0.359	0.144
Acid Leachable SO4-S [%]	< 0.04	0.07	0.07	0.05
Sulphide [%]	0.33	1.63	0.29	0.09
C [%]	1.09	1.42	1.01	3.17
CO3 (HCl) [%]	5.34	6.99	4.96	15.7

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO# 77080

29-August-2022

Date Rec. : 28 July 2022

LR Report: CA19209-JUL22

Reference: PO# 77080

Copy: #1

CERTIFICATE OF ANALYSIS

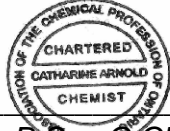
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time Completed	5: CAMLN226893 DP1-275-166 KSC-WA	6: CAMLN226894 DP1-350-117 MAFIC VOLCANICS	7: CAMLN226895 DP2-450-123 KS	8: CAMLN226896 DL1-100-167-10 50 KSC-WA / KSC-LJ	9: CAMLN226898 DL1-100-167-10 50 KSC-WA / KSC-LJ	10: CAMLN226899 CC1-475-120 KSC-WA	11: CAMLN226900 DP1-425-173 MAFIC VOLCANICS
Sample Date & Time					06-Jul-22	06-Jul-22	10-Jul-22	10-Jul-22	15-Jul-22	17-Jul-22	17-Jul-22
Ag [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6	< 0.5
Al [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	80000	80000	62000	64000	43000	87000	73000
As [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1600	34	71	31	440	16	330
Ba [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	710	510	950	580	290	1800	73
Be [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1	0.99	1	1	0.74	2	0.43
Bi [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.24	0.41	0.27	0.16	0.43	1	< 0.09
Ca [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	13000	25000	35000	21000	33000	23000	78000
Cd [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.09	0.08	0.15	0.08	0.09	0.87	0.26
Co [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	15	11	8	8	12	22	49
Cr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	61	57	58	70	91	150	170
Cu [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	38	22	19	22	63	164	74
Fe [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	91000	36000	110000	110000	200000	56000	71000
K [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	18000	15000	20000	11000	5400	23000	6400
Li [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	30	11	20	20	22	32	53
Mg [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	10000	6200	9400	12000	11000	17000	23000
Mn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	300	320	340	300	630	510	2400
Mo [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	3.5	8.7	4.9	5.2	6.1	10	2.5

OnLine LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: CAMLN226893 DP1-275-166 KSC-WA	6: CAMLN226894 DP1-350-117 MAFIC VOLCANICS	7: CAMLN226895 DP2-450-123 KS	8: CAMLN226896 DL1-100-167-10 DL1-100-167-10 50 KSC-WA / KSC-LJ	9: CAMLN226898 DL1-100-167-10 50 KSC-WA / KSC-LJ	10: CAMLN226899 CC1-475-120 KSC-WA	11: CAMLN226900 DP1-425-173 MAFIC VOLCANICS
Ni [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	37	24	21	19	34	77	124
Pb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	6	12	18	5	10	260	12
Sb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	260	370	410	330	310	390	180
Ti [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	2700	2300	1800	2200	1400	3500	4000
Tl [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.30	0.31	0.40	0.22	0.13	0.60	0.30
U [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1.01	1.04	1.06	0.88	0.54	1.53	0.068
V [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	66	42	42	41	66	130	240
Y [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	6.59	6.47	7.73	5.36	7.09	10.8	6.07
Zn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	74	26	94	55	62	100	130

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Project : PO#1124452

30-October-2022

Date Rec. : 29 September 2022

LR Report: CA19182-SEP22

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CERTIFICATE OF ANALYSIS

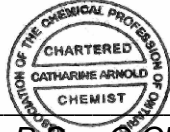
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLCM18705 1_KSC-WA	6: CAMLCM18705 2_KSC-WA	7: CAMLCM18705 3_KSC-WA	8: CAMLCM18705 4_KSC-WA	9: CAMLCM18705 5_KSC-WA	10: CAMLCM18705 6_KSC-WA	11: CAMLCM18705 7_KSC-WA
Sample Date & Time					29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22
Ag [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	58000	71000	81000	74000	59000	55000	56000
As [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	10	32	1600	3400	20	11	16
Ba [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	380	960	240	170	150	440	320
Be [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	0.89	2	0.90	0.89	0.49	0.96	0.99
Bi [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	0.15	0.16	< 0.09	0.43	0.11	< 0.09	0.09
Ca [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	30000	14000	60000	53000	30000	25000	20000
Cd [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	0.08	0.08	0.22	0.74	0.08	0.06	0.05
Co [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	7	9	54	44	9	10	9
Cr [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	43	44	97	99	37	49	39
Cu [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	13	5.7	63	96	21	19	10
Fe [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	160000	130000	70000	74000	140000	43000	66000
K [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	10000	16000	21000	14000	4500	18000	13000
Li [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	22	31	26	33	32	26	25
Mg [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	8000	13000	21000	21000	9900	6000	8100
Mn [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	310	230	1700	1000	470	260	350
Mo [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	0.8	0.8	0.3	4.6	0.8	0.4	0.5
Ni [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	16	24	126	91	22	20	18
Pb [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	10	11	9	18	8	7	6
Sb [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

OnLine LIMS

0003101788

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLCM18705 1_KSC-WA	6: CAMLCM18705 2_KSC-WA	7: CAMLCM18705 3_KSC-WA	8: CAMLCM18705 4_KSC-WA	9: CAMLCM18705 5_KSC-WA	10: CAMLCM18705 6_KSC-WA	11: CAMLCM18705 7_KSC-WA
Se [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	< 0.7	< 0.7	< 0.7	0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	450	170	180	170	340	270	250
Ti [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	2000	2100	4200	3900	2000	2700	2200
Tl [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	0.26	0.40	1	0.84	0.17	0.48	0.36
U [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	0.76	1.33	0.50	1.17	0.82	0.49	0.51
V [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	31	39	230	190	40	37	39
Y [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	6.51	7.82	12.5	16.8	7.03	3.48	3.63
Zn [µg/g]	15-Oct-22	15:21	18-Oct-22	14:07	54	91	130	330	78	62	58

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Project : PO# 770080

30-October-2022

Date Rec. : 29 September 2022
LR Report: CA19183-SEP22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:
	Analysis Start	Analysis Start	Analysis	Analysis	CAML18705	CAML18705	CAML18705	CAML18705	CAML18705	CAML18705	CAML18705
	Date	Time	Completed	Completed	Time	Time	Time	Time	Time	Time	Time
					1_KSC-WA	2_KSC-WA	3_KSC-WA	4_KSC-WA	5_KSC-WA	6_KSC-WA	7_KSC-WA
Sample Date & Time					29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22	29-Sep-22
Sample weight [g]	12-Oct-22	09:05	13-Oct-22	09:28	250	250	250	250	250	250	250
Volume D.I. Water [mL]	12-Oct-22	09:05	13-Oct-22	09:28	750	750	750	750	750	750	750
Final pH [no unit]	13-Oct-22	07:30	13-Oct-22	09:28	8.82	8.48	8.65	8.64	8.68	9.15	8.97
pH [No unit]	13-Oct-22	15:39	14-Oct-22	15:50	7.82	8.11	8.13	8.09	7.98	8.02	8.03
Conductivity [uS/cm]	13-Oct-22	15:39	14-Oct-22	15:50	375	170	299	404	228	175	202
Alkalinity [mg/L as CaCO3]	13-Oct-22	15:39	14-Oct-22	15:50	38	74	71	71	52	43	49
SO4 [mg/L]	14-Oct-22	07:04	14-Oct-22	12:22	13	< 2	8	11	3	3	3
Hg [mg/L]	17-Oct-22	10:14	18-Oct-22	10:27	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.546	0.598	0.546	0.463	0.912	1.10	0.976
As [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.0070	0.0032	0.0762	0.0754	0.0008	0.0097	0.0026
Ba [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.0120	0.0220	0.00175	0.00264	0.00485	0.00378	0.00358
B [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.191	0.126	0.052	0.063	0.106	0.055	0.021
Be [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	17.5	18.4	12.0	13.2	16.6	7.91	11.5
Cd [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.000040	0.000014	0.000034	0.000037	0.000029	0.000056	0.000046
Cr [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008

OnLine LIMS

0003101793

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAML18705 1_KSC-WA	CAML18705 2_KSC-WA	CAML18705 3_KSC-WA	CAML18705 4_KSC-WA	CAML18705 5_KSC-WA	CAML18705 6_KSC-WA	CAML18705 7_KSC-WA
Cu [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.0007	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0054
Fe [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	13.0	13.7	15.0	16.6	7.71	13.5	12.9
Li [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.0021	0.0013	0.0024	0.0025	0.0007	0.0031	0.0016
Mg [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	3.28	2.33	5.18	5.79	1.33	1.33	1.94
Mn [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.00156	0.00096	0.00386	0.00293	0.00118	0.00092	0.00104
Mo [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.00164	0.00096	0.00107	0.00457	0.00048	0.00027	0.00145
Na [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	45.3	7.92	34.1	50.4	22.1	16.2	20.0
Ni [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.0002	< 0.0001	0.0003	0.0004	< 0.0001	0.0001	0.0001
Pb [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.0025	0.0018	0.0018	0.0025	0.0011	0.0035	0.0020
Se [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.00011	0.00005	0.00008	0.00020	0.00011	0.00009	0.00004
Si [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	2.23	0.96	1.55	1.51	0.62	2.16	1.33
Sn [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.533	0.251	0.0888	0.120	0.296	0.117	0.0938
Ti [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.00005	< 0.00005	0.00006	0.00007	< 0.00005	0.00008	< 0.00005
Tl [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	< 0.000005	0.000006	0.000009	0.000017	< 0.000005	0.000010	0.000006
U [mg/L]	27-Oct-22	17:58	30-Oct-22	11:52	0.000026	0.000005	0.000015	0.000013	0.000002	0.000126	0.000027
W [mg/L]	27-Oct-22	17:58	30-Oct-22	11:53	0.00839	0.00085	0.00077	0.00067	0.00040	0.00088	0.00056
V [mg/L]	27-Oct-22	17:58	30-Oct-22	11:53	0.00042	0.00006	0.00103	0.00087	0.00008	0.00183	0.00031
Zn [mg/L]	27-Oct-22	17:58	30-Oct-22	11:53	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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MEL

Project : PO#1124452

22-November-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 18 October 2022
LR Report: CA19207-OCT22
Reference: Meliadine

Meliadine
, Nunavut
X0C 0A0, Canada

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Phone: (819) 759-3555
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sample 1	6: Sample 2	7: Sample 3
Sample Date & Time					28-Sep-22	28-Sep-22	28-Sep-22
Paste pH [no unit]	07-Nov-22	16:00	09-Nov-22	22:10	7.57	8.04	8.02
Fizz Rate [rating]	07-Nov-22	16:00	09-Nov-22	22:10	2	3	3
Sample weight [g]	07-Nov-22	16:00	09-Nov-22	22:10	1.85	1.84	1.87
HCl_add [mL]	08-Nov-22	16:00	09-Nov-22	22:10	40.00	65.00	50.00
HCl [Normality]	07-Nov-22	16:00	09-Nov-22	22:10	0.10	0.10	0.10
NaOH [Normality]	07-Nov-22	16:00	09-Nov-22	22:10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	08-Nov-22	16:00	09-Nov-22	22:10	24.12	42.60	26.70
Final pH [no unit]	08-Nov-22	16:00	09-Nov-22	22:10	1.74	1.51	1.50
NP [t CaCO3/1000 t]	08-Nov-22	16:00	09-Nov-22	22:10	42.9	60.9	62.3
AP [t CaCO3/1000 t]	09-Nov-22	22:10	09-Nov-22	22:11	5.62	5.62	27.5
Net NP [t CaCO3/1000 t]	09-Nov-22	22:10	09-Nov-22	22:11	37.3	55.3	34.8
NP/AP [ratio]	09-Nov-22	22:10	09-Nov-22	22:11	7.63	10.8	2.27
S [%]	04-Nov-22	13:57	07-Nov-22	13:22	0.178	0.221	0.919
Acid Leachable SO4-S [%]	07-Nov-22	13:22	07-Nov-22	13:22	< 0.04	0.04	< 0.04
Sulphide [%]	07-Nov-22	12:38	07-Nov-22	13:22	0.18	0.18	0.88
C [%]	04-Nov-22	13:57	07-Nov-22	11:08	0.903	0.773	1.46
CO3 (HCl) [%]	05-Nov-22	08:59	07-Nov-22	11:08	2.59	2.89	5.09

Analysis	8: Sample 4	9: Sample 5
Sample Date & Time	28-Sep-22	02-Oct-22
Paste pH [no unit]	8.29	8.30
Fizz Rate [rating]	3	4
Sample weight [g]	1.88	2.12
HCl_add [mL]	70.00	120.00

Analysis	8: Sample 4	9: Sample 5
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	36.74	54.09
Final pH [no unit]	1.57	1.90
NP [t CaCO3/1000 t]	88.5	155
AP [t CaCO3/1000 t]	45.9	9.06
Net NP [t CaCO3/1000 t]	42.6	146
NP/AP [ratio]	1.93	17.1
S [%]	1.48	0.341
Acid Leachable SO4-S [%]	< 0.04	0.05
Sulphide [%]	1.47	0.29
C [%]	1.29	2.38
CO3 (HCl) [%]	5.92	9.07

ABA - Modified Sobek

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

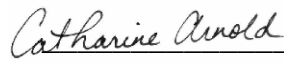

 Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.



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MEL

Project : P.O#4603825

16-December-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 22 November 2022
LR Report: **CA19258-NOV22**
Reference: Meliadine - P.O#4603825

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, Nunavut
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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: CAMLM18705 8 DP1-375-156- 6 KSC-WA	6: CAMLM18705 9 LW1-100-167- 1000-29 MV	7: CAMLM18706 0 LW1-100-167- 1000-29 MV
Sample Date & Time					03-Oct-22	16-Oct-22	16-Oct-22
Paste pH [no unit]	30-Nov-22	16:15	02-Dec-22	11:01	9.11	8.95	8.83
Fizz Rate [rating]	30-Nov-22	16:15	02-Dec-22	11:01	2	4	4
Sample weight [g]	30-Nov-22	16:15	02-Dec-22	11:01	2.06	2.00	1.88
HCl_add [mL]	30-Nov-22	16:15	02-Dec-22	11:01	45.00	160.00	135.00
HCl [Normality]	30-Nov-22	16:15	02-Dec-22	11:01	0.10	0.10	0.10
NaOH [Normality]	30-Nov-22	16:15	02-Dec-22	11:01	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30-Nov-22	16:15	02-Dec-22	11:01	22.53	66.35	69.72
Final pH [no unit]	30-Nov-22	16:15	02-Dec-22	11:01	1.74	1.60	1.57
NP [t CaCO3/1000 t]	30-Nov-22	16:15	02-Dec-22	11:01	54.5	234	174
AP [t CaCO3/1000 t]	02-Dec-22	11:01	02-Dec-22	11:01	5.31	9.06	10.6
Net NP [t CaCO3/1000 t]	02-Dec-22	11:01	02-Dec-22	11:01	49.2	225	163
NP/AP [ratio]	02-Dec-22	11:01	02-Dec-22	11:01	10.3	25.8	16.3
S [%]	28-Nov-22	16:42	01-Dec-22	11:49	0.260	0.335	0.386
Acid Leachable SO4-S [%]	01-Dec-22	11:48	01-Dec-22	11:49	0.09	0.04	0.05
Sulphide [%]	30-Nov-22	19:30	01-Dec-22	11:49	0.17	0.29	0.34
C [%]	28-Nov-22	16:42	01-Dec-22	11:49	0.712	3.23	3.21
CO3 (HCl) [%]	01-Dec-22	15:15	01-Dec-22	17:01	3.44	16.0	15.9

Analysis	8: CAMLM1870 61 FW2-350 (119)-5 KSC-WA	9: CAMLM18706 2 DP1-375-155- 6 KSC-WA	10: CAMLM18706 3 DP2-350-129- 3 KWA-S	11: CAMLM18706 4 DP2-450-116- 3 KSC-WA
Sample Date & Time	17-Oct-22	20-Oct-22	21-Oct-22	22-Oct-22
Paste pH [no unit]	9.02	9.08	9.02	8.67

Analysis	8:	9:	10:	11:
	CAMLM1870	CAMLM18706	CAMLM18706	CAMLM18706
	61 FW2-350	2	3	4
	(119)-5	DP1-375-155-	DP2-350-129-	DP2-450-116-
	KSC-WA	6 KSC-WA	3 KWA-S	3 KSC-WA
Fizz Rate [rating]	3	2	2	3
Sample weight [g]	1.81	1.99	1.91	1.81
HCl_add [mL]	30.00	40.00	30.00	45.00
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]	17.95	23.13	16.71	27.44
Final pH [no unit]	1.60	1.62	1.74	1.55
NP [t CaCO3/1000 t]	33.3	42.4	34.8	48.5
AP [t CaCO3/1000 t]	2.81	3.75	1.56	3.44
Net NP [t CaCO3/1000 t]	30.5	38.6	33.2	45.1
NP/AP [ratio]	11.8	11.3	22.3	14.1
S [%]	0.115	0.194	0.073	0.164
Acid Leachable SO4-S [%]	< 0.04	0.07	< 0.04	0.05
Sulphide [%]	0.09	0.12	0.05	0.11
C [%]	0.442	0.558	0.442	0.631
CO3 (HCl) [%]	2.06	2.66	2.12	3.06

ABA - Modified Sobek

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

*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 <0.04 will be calculated using a 0.04 value.

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mel

Project : P.O#4603825

16-December-2022

Date Rec. : 22 November 2022
LR Report: CA19259-NOV22
Reference: Meliadine - P.O#4603825

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM18705 8 DP1-375-156-6 KSC-WA	CAMLM18705 9 LW1-100-167-1000-29 MV	CAMLM18706 0 LW1-100-167-1000-29 MV
Sample Date & Time					03-Oct-22	16-Oct-22	16-Oct-22
Ag [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	< 0.5	< 0.5	< 0.5
Al [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	59000	62000	68000
As [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	22	160	620
Ba [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	2700	140	170
Be [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	2	0.51	0.62
Bi [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	0.52	< 0.09	< 0.09
Ca [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	17000	69000	71000
Cd [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	0.04	0.12	0.13
Co [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	8	49	53
Cr [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	17	67	86
Cu [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	26	74	93
Fe [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	64000	70000	73000
K [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	15000	9900	11000
Li [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	51	62	60
Mg [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	8100	27000	23000
Mn [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	220	1700	1900
Mo [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	2.6	1.0	1.0
Ni [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	23	92	107
Pb [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	110	10	15
Sb [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	< 0.8	< 0.8	< 0.8
Se [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	< 0.7	< 0.7	< 0.7
Sn [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	< 6	< 6	< 6
Sr [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	580	160	180
Ti [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	3100	2500	3400
Tl [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	0.52	0.53	0.58

Online LIMS

0003162639

SGS Canada Inc.

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Project : P.O#4603825

LR Report : CA19259-NOV22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLM18705 8 DP1-375-156- 6 KSC-WA	6: CAMLM18705 9 LW1-100-167- 1000-29 MV	7: CAMLM18706 0 LW1-100-167- 1000-29 MV
U [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	0.96	0.096	0.10
V [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	31	180	190
Y [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	6.07	5.61	7.03
Zn [µg/g]	06-Dec-22	19:21	09-Dec-22	08:02	54	130	120

Analysis	8: CAMLM1870 61 FW2-350 (119)-5 KSC-WA	9: CAMLM18706 2 DP1-375-155- 6 KSC-WA	10: CAMLM18706 3 DP2-350-129- 3 KWA-S	11: CAMLM18706 4 DP2-450-116- 3 KSC-WA
Sample Date & Time	17-Oct-22	20-Oct-22	21-Oct-22	22-Oct-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	76000	61000	82000	60000
As [µg/g]	200	85	900	17
Ba [µg/g]	890	580	740	720
Be [µg/g]	2	1	2	1
Bi [µg/g]	0.12	0.31	< 0.09	< 0.09
Ca [µg/g]	8500	10000	11000	19000
Cd [µg/g]	0.03	0.07	0.05	0.04
Co [µg/g]	20	18	18	9
Cr [µg/g]	94	56	51	32
Cu [µg/g]	28	44	16	16
Fe [µg/g]	49000	39000	71000	120000
K [µg/g]	23000	19000	25000	11000
Li [µg/g]	43	28	41	40
Mg [µg/g]	15000	11000	14000	8200
Mn [µg/g]	300	300	260	370
Mo [µg/g]	2.0	2.4	2.0	1.8
Ni [µg/g]	73	59	62	21
Pb [µg/g]	58	46	11	7
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	210	210	180	290
Ti [µg/g]	4600	3900	4000	2700
Tl [µg/g]	0.59	0.54	0.67	0.29
U [µg/g]	1.75	1.35	1.62	0.87
V [µg/g]	91	70	84	36
Y [µg/g]	4.88	4.06	6.97	4.81
Zn [µg/g]	84	65	79	58

SGS Canada Inc.

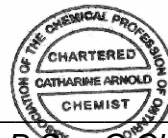
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mel

Project : P.O#4603825

LR Report : CA19259-NOV22

Catharine Arnold



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Project : P.O#4603825

16-December-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Meliadine
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X0C 0A0, Canada

Phone: (819) 759-3555
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Date Rec. : 22 November 2022
LR Report: CA19260-NOV22
Reference: Meliadine - P.O#4603825

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM18705 8 DP1-375-156-6 KSC-WA	CAMLM18705 9 LW1-100-167-1000-29 MV	CAMLM18706 0 LW1-100-167-1000-29 MV
Sample Date & Time					03-Oct-22	16-Oct-22	16-Oct-22
Sample weight [g]	01-Dec-22	08:04	05-Dec-22	09:34	250	250	250
Volume D.I. Water [mL]	01-Dec-22	08:04	05-Dec-22	09:34	750	750	750
Final pH [no unit]	01-Dec-22	08:04	05-Dec-22	09:34	9.05	8.66	8.72
pH [No unit]	05-Dec-22	13:59	06-Dec-22	10:50	7.90	7.86	7.98
Conductivity [uS/cm]	05-Dec-22	13:59	06-Dec-22	10:50	256	239	224
Alkalinity [mg/L as CaCO3]	05-Dec-22	13:59	06-Dec-22	10:50	48	43	61
SO4 [mg/L]	06-Dec-22	11:10	06-Dec-22	18:35	7	6	6
Hg [mg/L]	05-Dec-22	16:35	06-Dec-22	13:53	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.703	0.728	0.621
As [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.0016	0.0015	0.0201
Ba [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.0493	0.0453	0.0151
B [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.044	0.039	0.035
Be [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	11.3	10.4	11.2
Cd [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.000078	0.000047	0.000017
Cr [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.009	0.008	< 0.007
K [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	10.7	9.20	6.41
Li [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.0039	0.0034	0.0021
Mg [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	2.57	2.21	4.32
Mn [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.00085	0.00071	0.00309

Online LIMS

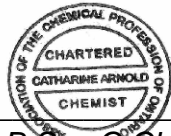
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Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM18705 8 DP1-375-156-6 KSC-WA	CAMLM18705 9 LW1-100-167-1000-29 MV	CAMLM18706 0 LW1-100-167-1000-29 MV
Mo [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.00206	0.00155	0.00139
Na [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	25.5	23.4	20.6
Ni [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.0002	0.0001	< 0.0001
Pb [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.0028	0.0028	0.0018
Se [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.00006	< 0.00004	0.00011
Si [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	1.48	1.54	1.19
Sn [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.334	0.300	0.506
Ti [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.00011	< 0.00005	< 0.00005
Tl [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.000047	0.000049	0.000017
W [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.00125	0.00110	0.00106
V [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	0.00035	0.00039	0.00065
Zn [mg/L]	10-Dec-22	11:05	13-Dec-22	14:08	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:BLK:
	CAMLM18706 1 FW2-350 (119)-5 KSC-WA	CAMLM18706 2 DP1-375-155-6 KSC-WA	CAMLM18706 3 DP2-350-129-3 KWA-S	CAMLM18706 4 DP2-450-116-3 KSC-WA	CAMLM18705 8 DP1-375-156-6 KSC-WA	\$D.I. Leachate Blank
Sample Date & Time	17-Oct-22	20-Oct-22	21-Oct-22	22-Oct-22		
Sample weight [g]	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.60	8.72	8.84	8.71	9.03	5.90
pH [No unit]	7.85	7.95	7.93	7.92	7.94	5.66
Conductivity [uS/cm]	363	518	242	273	278	< 2
Alkalinity [mg/L as CaCO3]	41	48	47	51	62	< 2
SO4 [mg/L]	10	15	6	5	12	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.676	0.676	0.893	0.788	0.493	< 0.001
As [mg/L]	0.0336	0.0250	0.105	0.0013	0.0156	< 0.0002
Ba [mg/L]	0.00458	0.00496	0.00243	0.00991	0.103	< 0.00008
B [mg/L]	0.085	0.137	0.049	0.056	0.035	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10.3	12.6	9.95	15.3	14.0	0.01
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000085	0.000137	0.000063	< 0.000004	0.000020	< 0.000004

Analysis	8: CAMLM18706 1 FW2-350 (119)-5 KSC-WA	9: CAMLM18706 2 DP1-375-155- 6 KSC-WA	10: CAMLM18706 3 DP2-350-129- 3 KWA-S	11: CAMLM18706 4 DP2-450-116- 3 KSC-WA	12: CAMLM18705 8 DP1-375-156- 6 KSC-WA	13:BLK: \$D.I. Leachate Blank
Cr [mg/L]	< 0.00008	0.00011	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	13.3	18.1	13.7	10.5	7.28	0.029
Li [mg/L]	0.0014	0.0021	0.0012	0.0015	0.0022	< 0.0001
Mg [mg/L]	3.24	4.26	1.77	1.91	5.44	< 0.001
Mn [mg/L]	0.00071	0.00103	0.00045	0.00101	0.00294	< 0.00001
Mo [mg/L]	0.00243	0.00219	0.00173	0.00182	0.00144	0.00093
Na [mg/L]	39.9	61.4	22.6	24.2	25.9	< 0.01
Ni [mg/L]	< 0.0001	0.0003	0.0001	< 0.0001	0.0002	< 0.0001
Pb [mg/L]	0.00017	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0054	0.0060	0.0045	0.0022	0.0017	< 0.0009
Se [mg/L]	0.00005	0.00012	< 0.00004	< 0.00004	0.00010	< 0.00004
Si [mg/L]	1.68	1.79	1.28	0.92	1.08	0.06
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0713	0.0939	0.0806	0.252	0.996	0.00009
Ti [mg/L]	0.00015	0.00075	0.00030	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000048	0.000090	0.000040	0.000020	0.000009	0.000031
W [mg/L]	0.00201	0.00325	0.00275	0.00107	0.00060	< 0.00002
V [mg/L]	0.00151	0.00211	0.00110	0.00009	0.00050	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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22-November-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 17 October 2022
LR Report: CA19153-OCT22

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

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLCM194 592_KSC-WA	CAMLCM194 593_KSC-WA	CAMLCM1945 94_MV
Sample Date & Time					17-Oct-22	17-Oct-22	17-Oct-22
Paste pH [no unit]	14-Nov-22	08:05	16-Nov-22	11:26	8.52	8.67	8.58
Fizz Rate [rating]	14-Nov-22	08:05	16-Nov-22	11:26	3	4	4
Sample weight [g]	14-Nov-22	08:05	16-Nov-22	11:26	2.05	2.01	1.97
HCl_add [mL]	14-Nov-22	08:05	16-Nov-22	11:26	50.00	180.00	110.00
HCl [Normality]	14-Nov-22	08:05	16-Nov-22	11:26	0.10	0.10	0.10
NaOH [Normality]	14-Nov-22	08:05	16-Nov-22	11:26	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	14-Nov-22	08:05	16-Nov-22	11:26	24.54	73.68	36.35
Final pH [no unit]	14-Nov-22	08:05	16-Nov-22	11:26	1.54	1.55	1.87
NP [t CaCO3/1000 t]	14-Nov-22	08:05	16-Nov-22	11:26	62.1	264	187
AP [t CaCO3/1000 t]	21-Nov-22	16:36	21-Nov-22	16:37	1.25	5.31	6.88
Net NP [t CaCO3/1000 t]	21-Nov-22	16:36	21-Nov-22	16:37	60.8	259	180
NP/AP [ratio]	21-Nov-22	16:36	21-Nov-22	16:37	49.7	49.8	27.2
S [%]	11-Nov-22	11:15	21-Nov-22	16:36	0.029	0.214	0.347
Acid Leachable SO4-S [%]	21-Nov-22	16:36	21-Nov-22	16:36	<0.04	0.04	0.13
Sulphide [%]	21-Nov-22	13:34	21-Nov-22	16:36	< 0.04	0.17	0.22
C [%]	11-Nov-22	11:15	21-Nov-22	16:36	0.924	3.76	2.88
CO3 (HCl) [%]	22-Nov-22	14:15	22-Nov-22	15:32	4.50	18.6	14.3

Analysis	8:	9:	10:	11:
	CAMLCM1945 95_MV	CAMLCM194 596_KS	CAMLCM194 597_KSC-WA	CAMLCM194 598_KSC-WA
Sample Date & Time	17-Oct-22	17-Oct-22	17-Oct-22	17-Oct-22
Paste pH [no unit]	8.68	8.62	9.03	8.70
Fizz Rate [rating]	3	3	3	3
Sample weight [g]	2.06	1.90	2.07	2.01
HCl_add [mL]	130.00	30.00	30.00	75.00
HCl [Normality]	0.10	0.10	0.10	0.10

SGS Canada Inc.

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LR Report : CA19153-OCT22

Analysis	8:	9:	10:	11:
	CAMLCM1945 95_MV	CAMLCM194 596_KS	CAMLCM194 597_KS	CAMLCM194 598_KS
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	34.33	11.82	11.30	30.12
Final pH [no unit]	1.85	1.84	1.72	1.64
NP [t CaCO3/1000 t]	232	47.9	45.2	112
AP [t CaCO3/1000 t]	3.12	33.8	1.25	2.50
Net NP [t CaCO3/1000 t]	229	14.2	44.0	109
NP/AP [ratio]	74.3	1.42	36.2	44.6
S [%]	0.161	1.27	< 0.005	0.134
Acid Leachable SO4-S [%]	0.06	0.19	<0.04	0.05
Sulphide [%]	0.10	1.08	< 0.04	0.08
C [%]	3.60	0.640	0.565	1.52
CO3 (HCl) [%]	17.9	3.05	2.71	7.45

ABA - Modified Sobek

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

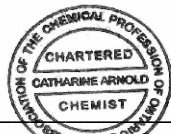
 Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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

**SGS Canada Inc.**

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Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

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mel

Project : PO#1124452

07-November-2022

Date Rec. : 17 October 2022
 LR Report: CA19155-OCT22
 Reference: Meliadine

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: CAMLCM1945 92_KSC-WA	6: CAMLCM1945 93_KSC-WA	7: CAMLCM1945 94_MV
Sample Date & Time					17-Oct-22	17-Oct-22	17-Oct-22
Sample weight [g]	27-Oct-22	07:30	28-Oct-22	10:30	250	250	250
Volume D.I. Water [mL]	27-Oct-22	07:30	28-Oct-22	10:30	750	750	750
Final pH [no unit]	27-Oct-22	07:30	28-Oct-22	10:30	8.91	8.93	8.96
pH [No unit]	31-Oct-22	15:23	01-Nov-22	09:41	7.89	7.91	7.84
Conductivity [uS/cm]	31-Oct-22	15:23	01-Nov-22	09:41	568	273	258
Alkalinity [mg/L as CaCO3]	31-Oct-22	15:23	01-Nov-22	09:41	44	45	40
SO4 [mg/L]	31-Oct-22	10:34	31-Oct-22	16:30	12	4	5
Hg [mg/L]	31-Oct-22	17:18	01-Nov-22	12:31	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	0.620	0.740	0.691
As [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	0.0077	0.0110	0.0279
Ba [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	0.00806	0.00143	0.00278
B [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	0.422	0.091	0.094
Be [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	< 0.000007	< 0.000007	0.000070
Bi [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	18.4	13.2	13.0
Cd [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	01-Nov-22	22:33	02-Nov-22	15:48	0.000280	0.000040	0.000060
Cr [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	< 0.00008	< 0.00008	0.00032
Cu [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	< 0.007	< 0.007	0.010
K [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	9.49	8.99	6.28
Li [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.0014	0.0015	0.0011
Mg [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	5.42	5.56	4.12
Mn [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.00259	0.00278	0.00182
Mo [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.00063	0.00025	0.00042
Na [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	80.5	27.6	28.2

Online LIMS

0003112409

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLCM1945 92_KSC-WA	CAMLCM1945 93_KSC-WA	CAMLCM1945 94_MV
Ni [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.00027	0.00011	0.00024
Sb [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.0028	0.0014	0.0026
Se [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.00014	0.00098	< 0.00004
Si [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	1.13	0.86	0.82
Sn [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.00025	0.00016	0.00066
Sr [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.135	0.0982	0.109
Ti [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.00016	< 0.00005	0.00015
Tl [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	0.000010	0.000020	0.000010
U [mg/L]	01-Nov-22	22:33	02-Nov-22	15:49	< 0.000002	< 0.000002	< 0.000002
W [mg/L]	01-Nov-22	22:33	02-Nov-22	15:54	0.00916	0.00241	0.00234
V [mg/L]	01-Nov-22	22:33	02-Nov-22	15:54	0.00043	0.00075	0.00067
Zn [mg/L]	01-Nov-22	22:33	02-Nov-22	15:54	< 0.002	< 0.002	0.007

Analysis	8:	9:	10:	11:	12:	13:BLK:
	CAMLCM1945 95_MV	CAMLCM194 596_KS	CAMLCM194 597_KSC-WA	CAMLCM194 598_KSC-WA	CAMLCM194 598_KSC-WA	\$D.I. Leachate Blank
Sample Date & Time	17-Oct-22	17-Oct-22	17-Oct-22	17-Oct-22		
Sample weight [g]	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.90	8.86	9.07	8.78	8.78	5.56
pH [No unit]	8.00	7.84	7.78	7.87	7.85	5.92
Conductivity [uS/cm]	538	331	240	396	442	< 2
Alkalinity [mg/L as CaCO3]	57	40	35	44	48	< 2
SO4 [mg/L]	8	8	5	5	7	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	0.00043	0.00051	0.00035	0.00026	0.00050
Al [mg/L]	0.493	0.895	1.24	0.657	0.623	0.035
As [mg/L]	0.0035	0.0094	0.0115	0.0078	0.0063	0.0076
Ba [mg/L]	0.00760	0.00764	0.00591	0.00410	0.00346	0.00053
B [mg/L]	0.603	0.183	0.109	0.247	0.289	0.028
Be [mg/L]	< 0.000007	0.00131	0.00162	0.00165	0.00176	0.00191
Bi [mg/L]	0.00001	0.00006	0.00006	0.00006	0.00005	0.00005
Ca [mg/L]	14.0	16.3	11.5	15.0	17.9	0.09
Cd [mg/L]	< 0.000003	0.00273	0.00238	0.00147	0.00145	0.00216
Co [mg/L]	0.000380	0.00138	0.00100	0.000880	0.000750	0.000880
Cr [mg/L]	0.00022	0.00131	0.00130	0.00071	0.0139	0.00185
Cu [mg/L]	0.0069	0.0017	0.0011	0.0006	0.0009	0.0007
Fe [mg/L]	0.010	0.020	0.020	< 0.007	0.090	0.010
K [mg/L]	5.74	9.90	12.4	5.12	5.59	0.100
Li [mg/L]	0.0014	0.0018	0.0015	0.0011	0.0011	0.0001

Analysis	8: CAMLCM1945 95_MV	9: CAMLCM194 596_KS	10: CAMLCM194 597_KSC-WA	11: CAMLCM194 598_KSC-WA	12: CAMLCM194 598_KSC-WA	13:BLK: \$D.I. Leachate Blank
Mg [mg/L]	8.40	3.07	1.37	4.69	4.93	< 0.001
Mn [mg/L]	0.00149	0.00373	0.00265	0.00194	0.00342	0.00145
Mo [mg/L]	0.00033	0.00212	0.00201	0.00122	0.00153	0.00187
Na [mg/L]	85.6	38.2	25.8	49.3	53.5	0.12
Ni [mg/L]	0.0200	0.0027	0.0005	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	0.00132	0.00228	0.00031	0.00035	0.00022	0.00026
Sb [mg/L]	0.0015	0.0028	0.0025	0.0011	< 0.0009	< 0.0009
Se [mg/L]	0.00057	0.0304	0.0307	0.0238	0.0289	0.0106
Si [mg/L]	1.07	1.05	1.12	0.79	0.86	0.02
Sn [mg/L]	0.00056	0.00044	0.00053	0.00041	0.00051	0.00053
Sr [mg/L]	0.0778	0.232	0.167	0.0901	0.0882	0.00046
Ti [mg/L]	0.00007	0.04851	0.04818	0.0259	0.0296	0.0371
Tl [mg/L]	0.000010	0.000080	0.000080	0.000080	0.000080	0.000060
U [mg/L]	< 0.000002	0.000060	0.000050	0.000040	0.000030	0.000030
W [mg/L]	0.00553	0.00394	0.00259	0.00243	0.00306	0.00018
V [mg/L]	0.00069	0.00178	0.00280	0.00125	0.00136	0.00180
Zn [mg/L]	0.009	0.007	0.002	0.003	0.003	0.003

SFE 3:1 ratio 24hr (MEND) prefilter pH

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mel

Project : PO#1124452

16-December-2022

Date Rec. : 17 October 2022
LR Report: CA19154-OCT22

Copy: #1

CERTIFICATE OF ANALYSIS

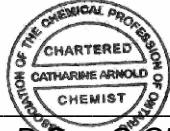
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLCM19459 2_KSC-WA	6: CAMLCM19459 3_KSC-WA	7: CAMLCM19459 4_MV	8: CAMLCM19459 5_MV	9: CAMLCM19459 6_KS	10: CAMLCM19459 7_KSC-WA	11: CAMLCM19459 8_KSC-WA
Sample Date & Time					17-Oct-22	17-Oct-22	17-Oct-22	17-Oct-22	17-Oct-22	17-Oct-22	17-Oct-22
Ag [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	75000	62000	64000	60000	69000	86000	65000
As [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	58	87	2400	31	31	8.3	43
Ba [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	400	290	240	120	1100	1300	140
Be [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	1	0.76	0.75	0.34	1	1	0.48
Bi [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	1.00	0.28	0.59	0.25	0.36	0.11	0.09
Ca [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	17000	69000	52000	66000	15000	16000	27000
Cd [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	0.05	0.07	0.07	0.09	0.03	0.05	0.05
Co [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	8	44	31	40	11	9	17
Cr [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	60	190	160	200	61	46	100
Cu [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	7.9	110	78	110	52	1.3	46
Fe [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	55000	66000	78000	72000	69000	59000	86000
K [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	8700	16000	11000	5700	16000	26000	4000
Li [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	22	28	63	70	35	45	52
Mg [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	7600	22000	25000	37000	7700	7700	21000
Mn [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	290	1300	1100	1100	260	240	510
Mo [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	3.4	3.0	2.9	2.6	2.6	2.2	2.0

OnLine LIMS

0003161377

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: CAMLCM19459 2_KSC-WA	6: CAMLCM19459 3_KSC-WA	7: CAMLCM19459 4_MV	8: CAMLCM19459 5_MV	9: CAMLCM19459 6_KS	10: CAMLCM19459 7_KSC-WA	11: CAMLCM19459 8_KSC-WA
Ni [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	18	89	82	110	27	23	49
Pb [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	9	6	29	6	12	6	5
Sb [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	< 0.8	< 0.8	2.3	< 0.8	< 0.8	1.0	< 0.8
Se [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	< 0.7	< 0.7	< 0.7	< 0.7	0.8	< 0.7	< 0.7
Sn [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	8.5	8.5	7.9	7.1	7.2	7.6	6.9
Sr [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	250	260	230	100	280	290	130
Ti [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	2200	4600	4000	1100	2400	2600	1800
Tl [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	0.32	0.68	0.50	0.25	0.40	0.70	0.20
U [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	1.12	0.19	0.35	0.12	1.47	1.57	0.82
V [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	41	200	170	190	63	50	92
Y [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	4.61	5.61	5.81	2.44	5.65	5.95	3.75
. [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	48	58	77	71	57	53	140

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Project : P.O# 4603925

29-January-2023

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 20 December 2022
LR Report: CA19227-DEC22
Reference: Meliadine - P.O# 4603925

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM18300 DP1-350-109-MV	CAMLM18300 DP1-425-124-MV	CAMLM18301 DP2-450-120-NLJ
Sample Date & Time					21-Nov-22	21-Nov-22	21-Nov-22
Paste pH [no unit]	05-Jan-23	11:00	09-Jan-23	09:09	8.51	8.57	9.15
Fizz Rate [rating]	05-Jan-23	11:00	09-Jan-23	09:09	4	3	2
Sample weight [g]	05-Jan-23	11:00	09-Jan-23	09:09	2.03	2.09	1.96
HCl_add [mL]	05-Jan-23	11:00	09-Jan-23	09:09	180.00	55.00	50.00
HCl [Normality]	05-Jan-23	11:00	09-Jan-23	09:09	0.10	0.10	0.10
NaOH [Normality]	05-Jan-23	11:00	09-Jan-23	09:09	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	05-Jan-23	11:00	09-Jan-23	09:09	74.31	28.05	25.03
Final pH [no unit]	05-Jan-23	11:00	09-Jan-23	09:09	1.52	1.69	1.59
NP [t CaCO3/1000 t]	05-Jan-23	11:00	09-Jan-23	09:09	260	64.5	63.7
AP [t CaCO3/1000 t]	27-Jan-23	12:23	27-Jan-23	12:23	1.25	4.06	5.31
Net NP [t CaCO3/1000 t]	27-Jan-23	12:23	27-Jan-23	12:23	259	60.4	58.4
NP/AP [ratio]	27-Jan-23	12:23	27-Jan-23	12:23	208	15.9	12.0
S [%]	20-Jan-23	08:10	27-Jan-23	12:23	0.047	0.148	0.202
Acid Leachable SO4-S [%]	27-Jan-23	12:22	27-Jan-23	12:23	0.05	< 0.04	< 0.04
Sulphide [%]	26-Jan-23	15:34	27-Jan-23	12:23	< 0.04	0.13	0.17
C [%]	20-Jan-23	08:10	26-Jan-23	15:55	3.38	1.02	0.883
CO3 (HCl) [%]	26-Jan-23	09:25	26-Jan-23	15:55	16.8	4.73	4.20

Analysis	8:	9:	10:	11:
	CAMLM183011	CAMLM183012	CAMLM183013	CAMLM183014
	LWO-400-119-1154 NLJ	FW2-350-W(1) 30) KSC-WA	FW2-350-W(1) (130) 30) KSW-WA	FW2-350-W(1) 30) KSW-WA
Sample Date & Time	21-Nov-22	21-Nov-22	21-Nov-22	19-Nov-22
Paste pH [no unit]	8.76	8.73	8.76	8.86

Online LIMS

0003211704

Analysis	8:	9:	10:	11:
	CAMLM1830 11 LWO-400-119 -1154 NLJ	CAMLM1830 12 FW2-350-W(1 30) KSC-WA	CAMLM1830 13 FW2-350-W (130) 30) KSW-WA KSC-WA	CAMLM1830 14
Fizz Rate [rating]	2	2	2	2
Sample weight [g]	1.91	1.96	1.94	2.01
HCl_add [mL]	38.90	40.50	20.00	23.20
HCl [Normality]	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	18.96	19.52	11.53	15.08
Final pH [no unit]	1.82	1.90	1.83	1.61
NP [t CaCO3/1000 t]	52.2	53.5	21.8	20.2
AP [t CaCO3/1000 t]	8.12	5.31	1.25	1.88
Net NP [t CaCO3/1000 t]	44.1	48.2	20.6	18.3
NP/AP [ratio]	6.42	10.1	17.4	10.8
S [%]	0.329	0.221	0.073	0.119
Acid Leachable SO4-S [%]	0.07	0.05	0.07	0.06
Sulphide [%]	0.26	0.17	< 0.04	0.06
C [%]	0.958	1.08	0.333	0.335
CO3 (HCl) [%]	4.45	4.42	1.40	1.34

ABA - Modified Sobek

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

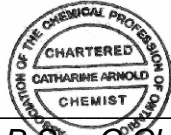
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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Project : P.O# 4603925

23-January-2023

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 20 December 2022
LR Report: CA19228-DEC22
Reference: Meliadine - P.O# 4603925

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

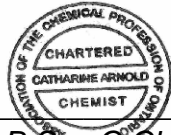
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: CAMLM183008 DP1-350-109-M V	6: CAMLM183009 DP1-425-124-M V	7: CAMLM183010 DP2-450-120-NLWO-400-119-1 LJ	8: CAMLM183011 154 NLJ	9: CAMLM183012 FW2-350-W(13 0) KSC-WA
Sample Date & Time					21-Nov-22	21-Nov-22	21-Nov-22	21-Nov-22	21-Nov-22
Ag [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	48000	40000	53000	37000	35000
As [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	87	490	3500	220	180
Ba [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	64	400	1600	680	680
Be [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	0.40	0.93	2.2	1.1	1.2
Bi [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	< 0.09	< 0.09	0.23	< 0.09	0.22
Ca [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	63000	17000	12000	13000	13000
Cd [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	0.09	0.06	0.10	0.14	0.13
Co [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	46	5.0	4.7	4.5	5.0
Cr [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	150	88	40	71	74
Cu [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	94	9.4	2.0	9.7	12
Fe [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	66000	91000	39000	150000	200000
K [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	6100	6400	28000	9600	10000
Li [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	35	17	23	12	12
Mg [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	31000	6000	7900	5900	7000
Mn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	1200	240	180	310	330
Mo [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	< 0.1	0.3	0.2	0.2	1.1
Ni [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	120	15	17	12	16
Pb [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	4	11	150	11	40
Sb [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	< 0.8	< 0.8	0.8	< 0.8	< 0.8
Se [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	170	240	210	230	210
Ti [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	1500	1500	1500	1100	1300
Tl [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	0.23	0.20	0.82	0.25	0.29
U [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	0.14	0.97	1.49	0.95	1.14
V [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	150	26	24	19	26
Y [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	7.88	4.51	4.91	4.87	5.32
Zn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:18	60	46	58	52	47

Analysis	10:	11:
	CAMLM183013 FW2-350-W (130) KSC-WA	CAMLM183014 FW2-350-W(13 0) KSW-WA
Sample Date & Time	21-Nov-22	19-Nov-22
Ag [µg/g]	< 0.5	< 0.5
Al [µg/g]	53000	54000
As [µg/g]	120	120
Ba [µg/g]	840	960
Be [µg/g]	1.4	1.7
Bi [µg/g]	0.41	0.31
Ca [µg/g]	5500	5000
Cd [µg/g]	0.07	0.08
Co [µg/g]	23	26
Cr [µg/g]	92	170
Cu [µg/g]	23	43
Fe [µg/g]	44000	50000
K [µg/g]	22000	26000
Li [µg/g]	31	35
Mg [µg/g]	14000	15000
Mn [µg/g]	240	250
Mo [µg/g]	1.5	1.5
Ni [µg/g]	82	90
Pb [µg/g]	99	69
Sb [µg/g]	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6
Sr [µg/g]	170	160
Ti [µg/g]	3500	4100
Tl [µg/g]	0.59	0.71
U [µg/g]	1.74	1.92
V [µg/g]	88	110
Y [µg/g]	4.81	4.66
Zn [µg/g]	84	94

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mel

Project : P.O# 4603925

18-January-2023

Date Rec. : 20 December 2022
LR Report: CA19229-DEC22
Reference: Meliadine - PO# 4603925

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM183008 DP1-350-109-M V	CAMLM183009 DP1-425-124-MDP2-450-120-NL V	CAMLM183010 J
Sample Date & Time					21-Nov-22	21-Nov-22	21-Nov-22
Sample weight [g]	04-Jan-23	07:05	05-Jan-23	11:07	251	250	250
Volume D.I. Water [mL]	04-Jan-23	07:05	05-Jan-23	11:07	750	750	750
Final pH [no unit]	04-Jan-23	07:05	05-Jan-23	11:07	8.50	8.50	9.98
pH [No unit]	06-Jan-23	08:00	11-Jan-23	09:56	7.97	7.99	8.01
Conductivity [uS/cm]	06-Jan-23	08:00	11-Jan-23	09:56	306	262	178
Alkalinity [mg/L as CaCO3]	06-Jan-23	08:00	11-Jan-23	09:56	49	66	46
SO4 [mg/L]	06-Jan-23	15:23	10-Jan-23	15:44	43	21	7
Hg [mg/L]	12-Jan-23	07:21	12-Jan-23	10:57	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.405	0.540	1.17
As [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.0122	0.0054	0.767
Ba [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.0101	0.0172	0.00563
B [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.097	0.041	0.025
Be [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	21.5	22.7	10.8
Cd [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.000003	< 0.000003	0.000003
Co [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.000120	0.000029	0.000019
Cr [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.00030	0.00041	0.00021
Cu [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.007	0.011	0.010
K [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	6.20	10.2	18.4
Li [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.0013	0.0018	0.0024
Mg [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	7.33	4.06	1.84
Mn [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.00225	0.00257	0.00070
Mo [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.00085	0.00130	0.00148
Na [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	22.4	17.3	9.57

Online LIMS

0003198174

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Project : P.O# 4603925


LR Report : CA19229-DEC22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	CAMLM183008 DP1-350-109-M V	CAMLM183009 DP1-425-124-MDP2-450-120-NL V	CAMLM183010 J
Ni [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.0003	0.0002	0.0002
Pb [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.0009	0.0020	0.0064
Se [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.00012	0.00027	0.00013
Si [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	1.10	0.80	1.39
Sn [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.379	0.189	0.168
Ti [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.00005	0.00029	0.00028
Tl [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.000016	0.000006	0.000011
U [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.000005	0.000013	0.000101
W [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.00122	0.00104	0.00178
V [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	0.00065	0.00014	0.00132
Zn [mg/L]	09-Jan-23	12:28	10-Jan-23	15:10	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:BLK:
	CAMLM183011 LWO-400-119-1FW2-350-W(130) 154 NLJ	CAMLM183012 KSC-WA	CAMLM183013 FW2-350-WF(130) (130) KSC-WA	CAMLM183014 FW2-350-W(130) KSW-WA	CAMLM183014 FW2-350-W(130) KSW-WA	\$D.I. Leachate Blank
Sample Date & Time	21-Nov-22	21-Nov-22	21-Nov-22	19-Nov-22		
Sample weight [g]	250	251	250	251	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.76	8.75	9.00	9.18	9.20	5.63
pH [No unit]	8.03	7.99	8.40	8.37	8.18	5.98
Conductivity [uS/cm]	193	225	242	212	192	19
Alkalinity [mg/L as CaCO3]	57	55	41	42	40	< 2
SO4 [mg/L]	9	7	8	4	3	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.820	0.780	0.957	1.06	1.15	0.001
As [mg/L]	0.0138	0.0090	0.0391	0.0625	0.0585	0.0006
Ba [mg/L]	0.0101	0.00914	0.00271	0.00219	0.00206	0.00110
B [mg/L]	0.025	0.045	0.233	0.224	0.193	0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14.9	15.0	9.47	6.69	6.29	0.06
Cd [mg/L]	< 0.000003	0.000004	0.000003	0.000005	0.000003	< 0.000003
Co [mg/L]	0.000028	0.000034	0.000207	0.000195	0.000164	0.000018
Cr [mg/L]	0.00021	0.00028	0.00029	0.00037	0.00037	0.00018
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	0.0003	< 0.0002
Fe [mg/L]	0.007	0.007	0.007	0.012	0.015	< 0.007
K [mg/L]	15.8	13.6	13.5	13.9	12.3	4.82
Li [mg/L]	0.0019	0.0016	0.0008	0.0007	0.0005	< 0.0001

Analysis	8: CAMLM183011 LWO-400-119-1 154 NLJ	9: CAMLM183012 FW2-350-W(130) KSC-WA	10: CAMLM183013 FW2-350-WFW2-350-W(130) (130) KSC-WA	11: CAMLM183014 FW2-350-W(130) KSW-WA	12: CAMLM183014 FW2-350-W(130) KSW-WA	13:BLK: \$D.I. Leachate Blank
Mg [mg/L]	2.70	2.79	1.93	1.38	1.26	0.006
Mn [mg/L]	0.00157	0.00151	0.00049	0.00058	0.00085	0.00052
Mo [mg/L]	0.00082	0.00082	0.00512	0.00348	0.00281	0.00008
Na [mg/L]	11.5	17.8	23.9	23.6	20.6	0.12
Ni [mg/L]	0.0001	0.0001	0.0002	0.0002	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00010	0.00011	< 0.00009
Sb [mg/L]	0.0019	0.0025	0.0067	0.0082	0.0079	< 0.0009
Se [mg/L]	0.00007	0.00009	0.00015	0.00012	0.00016	< 0.00004
Si [mg/L]	1.08	1.04	1.29	1.28	1.38	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.119	0.121	0.0423	0.0320	0.0287	0.00035
Ti [mg/L]	0.00008	0.00009	0.00034	0.00074	0.00066	< 0.00005
Tl [mg/L]	< 0.000005	0.000006	0.000018	0.000016	0.000012	< 0.000005
U [mg/L]	0.000036	0.000389	0.000042	0.000051	0.000047	0.000019
W [mg/L]	0.00096	0.00179	0.00692	0.00557	0.00469	0.00004
V [mg/L]	0.00024	0.00027	0.00199	0.00314	0.00313	0.00004
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
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Project : PO#1124452

06-February-2023

Date Rec. : 10 January 2023

LR Report: CA19035-JAN23

Reference: Meliadine - PO#1124452

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:
	Analysis Start Date	Analysis Start Time	Analysis DateCompleted	Analysis DateCompleted	CAMLM287104 DP2-450-117-6 KWA-S	CAMLM287105 DP2-350-126-1 KWA-S	CAMLM287106 DP2-375-121-2 KSC-WA	CAMLM287107 FW2-375-119-15 KWA-S	CAMLM287108 DP1-425-156-2 KSC-WA	CAMLM287109 FW1-425-156-5 KSC-WA	CAMLM287110 DP2-350-126-2 KWA-S
Sample Date & Time					15-Dec-22	15-Dec-22	18-Dec-22	18-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22
Paste pH [no unit]	30-Jan-23	08:01	31-Jan-23	16:07	9.07	9.03	9.22	9.18	9.14	8.77	9.05
Fizz Rate [rating]	30-Jan-23	08:01	31-Jan-23	16:07	1	1	1	1	1	2	2
Sample weight [g]	30-Jan-23	08:01	31-Jan-23	16:07	1.98	2.03	1.97	1.99	1.95	2.02	2.03
HCl Added [mL]	30-Jan-23	08:01	31-Jan-23	16:07	20.00	35.40	34.50	30.00	32.50	50.00	30.00
HCl [Normality]	30-Jan-23	08:01	31-Jan-23	16:07	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	30-Jan-23	08:01	31-Jan-23	16:07	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	30-Jan-23	08:01	31-Jan-23	16:07	10.63	17.46	17.10	14.86	17.20	16.84	15.83
Final pH [no unit]	30-Jan-23	08:01	31-Jan-23	16:07	1.71	1.56	1.52	1.59	1.54	1.88	1.60
NP [t CaCO3/1000 t]	30-Jan-23	08:01	31-Jan-23	16:07	23.7	44.2	44.2	38.0	39.2	82.1	34.9
AP [t CaCO3/1000 t]	03-Feb-23	17:23	03-Feb-23	17:24	1.25	1.25	1.25	1.25	2.19	2.50	1.25
Net NP [t CaCO3/1000 t]	03-Feb-23	17:23	03-Feb-23	17:24	22.4	43.0	43.0	36.8	37.0	79.6	33.6
NP/AP [ratio]	03-Feb-23	17:23	03-Feb-23	17:24	19.0	35.4	35.4	30.4	17.9	32.8	27.9
Sulphur (total) [%]	31-Jan-23	14:48	03-Feb-23	17:23	0.119	0.151	0.197	0.040	0.147	0.154	0.166
Acid Leachable SO4-S [%]	03-Feb-23	17:23	03-Feb-23	17:23	0.11	0.11	0.20	0.04	0.08	0.07	0.13
Sulphide [%]	03-Feb-23	09:54	03-Feb-23	17:23	< 0.04	0.04	< 0.04	< 0.04	0.07	0.08	0.04
Carbon (total) [%]	31-Jan-23	14:48	03-Feb-23	17:23	0.325	0.604	0.597	0.547	0.543	1.08	0.473
Carbonate (HCl) [%]	06-Feb-23	08:28	06-Feb-23	10:52	1.26	2.91	2.88	2.38	2.63	5.32	2.26

ABA - Modified Sobek

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

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 <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	ASTM E1915-07A
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	ASTM E1915-07A
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	ARD Prediction Manual, 2009

Chris Sullivan



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Project : PO#1124452

LR Report : CA19035-JAN23

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
<i>Carbon/Sulphur - QCBatchID: ECS0014-FEB23</i>													
Carbonate (HCl)	0.04	%	<0.04			0	20	98	80	120			
<i>Carbon/Sulphur - QCBatchID: ECS0062-JAN23</i>													
Sulphide	0.04	%	< 0.04			ND	20	101	80	120			
<i>Carbon/Sulphur - QCBatchID: ECS0090-JAN23</i>													
Carbon (total)	0.005	%	<0.005			1	20				100	70 130	
Sulphur (total)	0.005	%	<0.005			1	20				99	70 130	



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Project : PO#1124452

13-February-2023

Date Rec. : 10 January 2023
LR Report: CA19036-JAN23
Reference: Meliadine - PO#1124452

Copy: #1

CERTIFICATE OF ANALYSIS

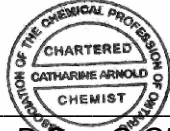
Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:
	Analysis Start	Analysis Start	Analysis	Analysis	CAMLM287104	CAMLM287105	CAMLM287106	CAMLM287107	CAMLM287108	CAMLM287109	CAMLM287110
	Date	Time Completed	DateCompleted	Time	DP2-450-117-6	DP2-350-126-1	DP2-375-121-2	FW2-375-119-15	DP1-425-156-2	FW1-425-156-5	DP2-350-126-2
					KWA-S	KWA-S	KSC-WA	KWA-S	KSC-WA	KSC-WA	KWA-S
Sample Date & Time					15-Dec-22	15-Dec-22	18-Dec-22	18-Dec-22	19-Dec-22	19-Dec-22	19-Dec-22
Ag [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	87000	66000	66000	77000	82000	66000	69000
As [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	180	92	53	57	47	600	97
Ba [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	650	550	650	630	1100	480	540
Be [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	1.2	0.98	0.92	1.0	1.5	1.1	1.0
Bi [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	0.15	0.30	0.38	0.18	0.71	0.37	0.13
Ca [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	5700	10000	10000	9200	9600	22000	8500
Cd [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	0.08	0.07	0.09	0.07	0.17	0.06	0.08
Co [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	23	18	18	20	21	12	19
Cr [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	170	170	150	150	160	110	150
Cu [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	42	50	49	28	38	25	39
Fe [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	53000	38000	33000	43000	52000	59000	42000
K [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	22000	17000	14000	19000	22000	11000	16000
Li [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	32	17	16	22	21	16	20
Mg [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	16000	10000	9700	13000	14000	13000	11000
Mn [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	310	320	320	300	330	520	300
Mo [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	1.6	1.1	1.0	1.2	1.4	0.8	1.2
Ni [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	77	57	51	62	68	39	56

OnLine LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: CAMLM287104 DP2-450-117-6 KWA-S	6: CAMLM287105 DP2-350-126-1 KWA-S	7: CAMLM287106 DP2-375-121-2 KSC-WA	8: CAMLM287107 FW2-375-119-15 KWA-S	9: CAMLM287108 DP1-425-156-2 KSC-WA	10: CAMLM287109 FW1-425-156-5 KSC-WA	11: CAMLM287110 DP2-350-126-2 KWA-S
Pb [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	13	21	67	10	100	12	8
Sb [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	6.6	6.2	6.3	6.5	6.4	6.4	6.2
Sr [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	170	200	260	230	270	210	210
Ti [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	3700	2900	2700	3300	3600	2900	3100
Tl [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	0.57	0.43	0.36	0.49	0.52	0.32	0.42
U [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	1.87	1.63	1.55	1.68	1.81	1.82	1.64
V [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	140	87	83	110	120	85	100
Y [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	7.54	6.64	5.95	6.85	7.45	10.7	6.71
Zn [µg/g]	03-Feb-23	15:02	13-Feb-23	12:27	110	69	65	76	74	54	74

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Project : PO#1124452

09-February-2023

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 10 January 2023

LR Report: CA19037-JAN23

Reference: Meliadine - PO#1124452

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: CAMLM287104 DP2-450-117-6 KWA-S	6: CAMLM287105 DP2-350-126-1 KWA-S	7: CAMLM287106 DP2-375-121-2 KSC-WA	8: CAMLM287107 FW2-375-119-15 KWA-S
Sample Date & Time					15-Dec-22	15-Dec-22	18-Dec-22	18-Dec-22
Sample weight [g]	03-Feb-23	10:51	06-Feb-23	10:21	250	251	251	250
Volume D.I. Water [mL]	03-Feb-23	10:51	06-Feb-23	10:21	750	750	750	750
Final pH [no unit]	04-Feb-23	10:42	06-Feb-23	10:21	9.37	9.18	9.33	9.37
pH [No unit]	06-Feb-23	08:41	06-Feb-23	13:46	7.95	8.34	7.85	7.93
Conductivity [uS/cm]	06-Feb-23	08:41	06-Feb-23	13:46	179	318	258	239
Alkalinity [mg/L as CaCO3]	06-Feb-23	08:41	06-Feb-23	13:46	37	45	42	42
SO4 [mg/L]	06-Feb-23	09:15	06-Feb-23	11:34	3	6	6	5
Hg [mg/L]	08-Feb-23	22:04	09-Feb-23	09:16	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	1.18	0.878	0.899	1.05
As [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.0350	0.0510	0.0184	0.0603
Ba [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00192	0.00355	0.00377	0.00235
B [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.163	0.111	0.103	0.296
Be [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	< 0.00001	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	5.88	11.7	8.92	7.68
Cd [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.000025	< 0.000003	< 0.000003	0.000103
Co [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.000180	0.000137	0.000074	0.000349
Cr [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00021	< 0.00008	< 0.00008	0.00013
Cu [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.0002	0.0002	< 0.0002	0.0009
Fe [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.021	< 0.007	< 0.007	0.023
K [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	12.1	16.8	13.3	13.4
Li [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.0007	0.0020	0.0016	0.0009
Mg [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	1.22	3.50	2.97	2.00
Mn [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00042	0.00093	0.00084	0.00040
Mo [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00154	0.00133	0.00100	0.00122
Na [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	20.5	30.6	28.7	30.6
Ni [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.0002	0.0002	0.0001	0.0003
Pb [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00024	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.0055	0.0024	0.0030	0.0043
Se [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00019	0.00010	0.00015	0.00034
Si [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	1.46	1.33	1.52	1.68
Sn [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	< 0.00006	< 0.00006	< 0.00006	< 0.00006

Online LIMS

0003224589



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Project : PO#1124452

LR Report : CA19037-JAN23

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: CAMLM287104 DP2-450-117-6 KWA-S	6: CAMLM287105 DP2-350-126-1 KWA-S	7: CAMLM287106 DP2-375-121-2 KSC-WA	8: CAMLM287107 FW2-375-119-15 KWA-S
Sr [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.0226	0.0719	0.0553	0.0533
Ti [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00162	0.00011	0.00022	0.00056
Tl [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.000013	0.000045	0.000016	0.000022
U [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.000032	0.000055	0.000066	0.000051
W [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00675	0.00278	0.00120	0.00448
V [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	0.00347	0.00157	0.00272	0.0113
Zn [mg/L]	07-Feb-23	08:34	08-Feb-23	14:51	< 0.002	< 0.002	0.004	< 0.002

Analysis	9: CAMLM287108 DP1-425-156-2 KSC-WA	10: CAMLM287109 FW1-425-156-5 KSC-WA	11: CAMLM287110 DP2-350-126-2 KWA-S	12:BLK: \$.I. Leachate Blank
Sample Date & Time	19-Dec-22	19-Dec-22	19-Dec-22	
Sample weight [g]	249	251	252	---
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	9.22	9.12	9.22	5.65
pH [No unit]	7.98	7.92	8.00	6.05
Conductivity [uS/cm]	271	387	306	2
Alkalinity [mg/L as CaCO3]	37	35	38	< 2
SO4 [mg/L]	6	9	7	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.813	0.735	0.792	< 0.001
As [mg/L]	0.0198	0.0230	0.0185	< 0.0002
Ba [mg/L]	0.00455	0.00537	0.00260	< 0.00008
B [mg/L]	0.037	0.100	0.046	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11.3	14.3	10.6	0.01
Cd [mg/L]	< 0.000003	0.000006	0.000005	< 0.000003
Co [mg/L]	0.000075	0.000103	0.000069	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	11.8	10.0	13.7	0.304
Li [mg/L]	0.0007	0.0007	0.0008	< 0.0001
Mg [mg/L]	2.93	3.19	3.09	0.003
Mn [mg/L]	0.00056	0.00065	0.00068	0.00015
Mo [mg/L]	0.00140	0.00274	0.00083	0.00035
Na [mg/L]	30.6	50.5	35.8	< 0.01
Ni [mg/L]	0.0001	0.0001	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0018	< 0.0009	0.0030	< 0.0009
Se [mg/L]	0.00013	0.00013	0.00009	< 0.00004
Si [mg/L]	1.21	1.04	1.36	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0915	0.149	0.0640	< 0.00008
Ti [mg/L]	0.00006	0.00010	0.00022	< 0.00005
Tl [mg/L]	0.000007	0.000008	0.000010	< 0.000005
U [mg/L]	0.000019	0.000017	0.000017	< 0.000002
W [mg/L]	0.00099	0.00079	0.00055	< 0.00002

Online LIMS

0003224589

SGS Canada Inc.

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

Project : PO#1124452

LR Report : CA19037-JAN23

Analysis	9:	10:	11:	12:BLK:
	CAMLM287108 DP1-425-156-2 KSC-WA	CAMLM287109 FW1-425-156-5 KSC-WA	CAMLM287110 DP2-350-126-2 KWA-S	\$D.I. Leachate Blank
V [mg/L]	0.00089	0.00048	0.00137	0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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

Appendix B: TIR01 Waste Rock Laboratory Certificates of Analysis



SGS Canada Inc.
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mel

Project : PO#1124452

18-March-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 01 March 2022
LR Report: CA14159-FEB22

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Phone: (819) 759-3555
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: ARDG-0001-TIR ARDG-0001-10030MS56	6: ARDG-0002-TIR ARDG-0002-10030MS56	7: ARDG-000200- ARDG-000200-TIR01A-10030M S56M
Sample Date & Time					03-Jan-22	03-Jan-22	07-Jan-22
Paste pH [no unit]	23-Feb-22	08:00	25-Feb-22	09:39	9.02	9.04	8.52
Fizz Rate [no unit]	23-Feb-22	08:00	25-Feb-22	09:39	3	3	4
Sample weight [g]	24-Feb-22	08:30	26-Feb-22	09:44	1.92	1.98	2.19
HCl_add [mL]	25-Feb-22	06:45	26-Feb-22	09:44	20.00	20.00	180.00
HCl [Normality]	24-Feb-22	08:30	26-Feb-22	09:44	0.10	0.10	0.10
NaOH [Normality]	24-Feb-22	08:30	26-Feb-22	09:44	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	25-Feb-22	08:30	26-Feb-22	09:44	11.22	9.70	74.46
Final pH [no unit]	25-Feb-22	08:30	26-Feb-22	09:44	1.61	1.87	1.57
NP [t CaCO3/1000 t]	25-Feb-22	08:30	26-Feb-22	09:44	22.9	26.0	241
AP [t CaCO3/1000 t]	09-Mar-22	12:00	09-Mar-22	12:00	3.12	4.69	20.6
Net NP [t CaCO3/1000 t]	09-Mar-22	12:00	09-Mar-22	12:00	19.8	21.3	220
NP/AP [ratio]	09-Mar-22	12:00	09-Mar-22	12:00	7.33	5.55	11.7
S [%]	08-Mar-22	16:02	09-Mar-22	12:00	0.198	0.218	0.918
Acid Leachable SO4-S [%]	09-Mar-22	12:00	09-Mar-22	12:00	0.10	0.07	0.26
Sulphide [%]	08-Mar-22	21:41	09-Mar-22	12:00	0.10	0.15	0.66
C [%]	08-Mar-22	16:02	09-Mar-22	12:55	0.432	0.488	3.59
CO3 (HCl) [%]	09-Mar-22	12:18	09-Mar-22	12:55	1.41	1.70	17.4

Analysis	8: ARDG-000201- ARDG-000201-TIR01A-10030M S56M	9: ARDG-000202-TI ARDG-000202-TIR01A-10030MS5 4-Kwa-s	10: ARDG-000203- ARDG-000203-TIR01A-10060M S23-OVB	11: ARDG-000204- ARDG-000204-TIR01A-10060M S23-OVB	12: ARDG-000205- ARDG-000205-TIR01A-10060M S23-OVB	13: ARDG-000206- ARDG-000206-TIR01A-10060M S23-OVB
Sample Date & Time	07-Jan-22	14-Jan-22	29-Jan-22	29-Jan-22	29-Jan-22	29-Jan-22
Paste pH [no unit]	9.00	9.01	8.41	8.50	8.64	9.11
Fizz Rate [no unit]	4	3	3	3	3	3
Sample weight [g]	1.96	2.18	2.13	1.93	2.14	1.97
HCl_add [mL]	200.00	40.00	25.20	20.00	23.10	20.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10

Analysis	8: ARDG-000201- TIR01A-10030M S56M	9: ARDG-000202-TI R01A-10030MS5 4-Kwa-s	10: ARDG-000203- TIR01A-10060M S23-OVB	11: ARDG-000204- TIR01A-10060M S23-OVB	12: ARDG-000205- TIR01A-10060M S23-OVB	13: ARDG-000206- TIR01A-10060M S23-OVB
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	87.00	17.06	14.61	11.20	13.17	17.08
Final pH [no unit]	1.51	1.74	1.52	1.68	1.55	1.67
NP [t CaCO3/1000 t]	288	52.6	24.8	22.8	23.2	7.2
AP [t CaCO3/1000 t]	4.38	5.00	2.50	2.19	2.50	1.88
Net NP [t CaCO3/1000 t]	284	47.6	22.3	20.6	20.7	5.32
NP/AP [ratio]	65.9	10.5	9.92	10.4	9.28	3.84
S [%]	0.186	0.241	0.141	0.110	0.134	0.123
Acid Leachable SO4-S [%]	0.05	0.08	0.06	0.04	0.05	0.06
Sulphide [%]	0.14	0.16	0.08	0.07	0.08	0.06
C [%]	4.14	0.845	0.373	0.322	0.340	0.386
CO3 (HCl) [%]	20.2	3.57	1.49	1.31	1.35	1.40

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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



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MEL

Project : PO#OL-999004

24-February-2022

Agnico Eagle Mines Limited
 Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 08 February 2022
 LR Report: CA14160-FEB22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date	4: Analysis Time	5: ARDG-0001-TIR Completed	6: ARDG-0002-TIR MS5601A-10030MS	7: ARDG-000200-TARDG-000201-TARDG-000202-T IR01A-10030MS 56M	8: ARDG-000201-TARDG-000202-T IR01A-10030MS 56M	9: ARDG-000202-TARDG-000203-T IR01A-10030MS 54-Kwa-s
Sample Date & Time					03-Jan-22	03-Jan-22	07-Jan-22	07-Jan-22	14-Jan-22
Ag [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	78000	73000	64000	69000	64000
As [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	27	24	6700	160	27
Ba [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	820	730	270	100	780
Be [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1	1	0.77	0.36	1
Bi [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	0.27	0.26	0.39	< 0.09	0.19
Ca [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	9300	11000	91000	100000	16000
Cd [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 0.02	0.04	0.32	0.13	0.06
Co [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	20	21	28	47	18
Cr [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	61	61	97	120	66
Cu [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	57	55	120	94	58
Fe [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	43000	40000	65000	61000	36000
K [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	21000	20000	14000	5700	21000
Li [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	46	42	36	61	34
Mg [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	16000	14000	16000	22000	13000
Mn [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	260	260	2100	1800	270
Mo [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1.3	1.3	1.3	0.3	1.3
Na [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	19000	21000	9600	14000	20000
Ni [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	70	66	77	110	60
P [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	550	510	340	280	510
Pb [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	8	7	47	7	8
Sb [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 0.8	< 0.8	0.9	< 0.8	< 0.8
Se [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 0.7	< 0.7	0.7	< 0.7	< 0.7
Sn [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	280	290	170	130	330
Ti [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1100	950	2500	2600	1900
Tl [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	0.44	0.40	0.72	0.26	0.50
U [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1.68	1.46	0.64	0.094	1.43
V [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	92	83	180	210	80
Y [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	6.17	6.15	12.1	5.57	5.47
Zn [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	74	67	97	75	60

SGS Canada Inc.

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Project : PO#OL-999004

LR Report : CA14160-FEB22

Analysis	10: ARDG-000203-TARDG-000204-TARDG-000205-TARDG-000206-T IR01A-10060MSIR01A-10060MSIR01A-10060MSIR01A-10060MS	11: IR01A-10060MSIR01A-10060MSIR01A-10060MSIR01A-10060MS	12: IR01A-10060MSIR01A-10060MSIR01A-10060MSIR01A-10060MS	13: IR01A-10060MSIR01A-10060MSIR01A-10060MSIR01A-10060MS
	23-OVB	23-OVB	23-OVB	23-OVB
Sample Date & Time	29-Jan-22	29-Jan-22	29-Jan-22	29-Jan-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	58000	61000	63000	57000
As [µg/g]	35	47	54	31
Ba [µg/g]	620	720	620	660
Be [µg/g]	1	1	1	1
Bi [µg/g]	0.25	0.25	0.27	0.26
Ca [µg/g]	20000	21000	22000	20000
Cd [µg/g]	0.04	0.04	0.07	0.04
Co [µg/g]	14	14	17	14
Cr [µg/g]	35	33	35	26
Cu [µg/g]	31	27	35	29
Fe [µg/g]	30000	30000	33000	30000
K [µg/g]	17000	19000	17000	18000
Li [µg/g]	21	22	22	26
Mg [µg/g]	10000	10000	12000	9300
Mn [µg/g]	410	400	440	400
Mo [µg/g]	1.2	1.3	1.3	1.1
Na [µg/g]	24000	24000	24000	28000
Ni [µg/g]	41	40	46	34
P [µg/g]	670	660	580	640
Pb [µg/g]	14	17	13	12
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	340	350	350	430
Ti [µg/g]	1900	2000	2300	2200
Tl [µg/g]	0.38	0.46	0.36	0.42
U [µg/g]	1.14	1.14	1.13	1.20
V [µg/g]	58	59	71	60
Y [µg/g]	8.74	8.64	8.35	5.13
Zn [µg/g]	51	51	56	65

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 Project Specialist,
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Project : PO#1124452

18-March-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 08 February 2022
LR Report: CA14161-FEB22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	Analysis Time	ARDG-0001-TIR 01A-10030MS56	ARDG-0002-TIR 01A-10030MS56	ARDG-000200-S56M TIR01A-10030M	ARDG-000201-S56M TIR01A-10030M
Sample Date & Time					03-Jan-22	03-Jan-22	07-Jan-22	07-Jan-22
Sample weight [g]	07-Mar-22	13:00	08-Mar-22	14:09	250	250	250	250
Volume D.I. Water [mL]	07-Mar-22	13:00	08-Mar-22	14:09	750	750	750	750
Final pH [no unit]	08-Mar-22	12:00	08-Mar-22	14:09	9.13	9.13	8.41	8.92
pH [No unit]	08-Mar-22	14:57	09-Mar-22	13:43	8.06	8.07	8.09	8.31
Conductivity [uS/cm]	08-Mar-22	14:57	09-Mar-22	13:43	241	242	549	364
Alkalinity [mg/L as CaCO3]	08-Mar-22	14:57	09-Mar-22	13:43	55	52	79	102
SO4 [mg/L]	10-Mar-22	10:46	11-Mar-22	14:20	27	25	130	35
Hg [mg/L]	15-Mar-22	16:02	15-Mar-22	16:46	< 0.00001	0.00002	0.00002	< 0.00001
Ag [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.363	0.389	0.281	0.629
As [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.0570	0.0432	0.146	0.147
Ba [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00427	0.00410	0.00310	0.00043
B [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.058	0.055	0.037	0.033
Be [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	7.61	7.52	29.6	7.94
Cd [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.000004	0.000004	0.000003	< 0.000003
Co [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.000116	0.000051	0.000077	0.000167
Cr [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00028	0.00021	< 0.00008	< 0.00008
Cu [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.0003	0.0004	0.0003	< 0.0002
Fe [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.024	0.014	< 0.007	< 0.007
K [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	19.5	18.7	17.0	6.14
Li [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.0011	0.0010	0.0054	0.0035
Mg [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	2.49	2.24	19.0	5.11
Mn [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00079	0.00022	0.02200	0.00301
Mo [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00566	0.00609	0.0309	0.00571
Na [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	29.6	30.7	48.5	67.7
Ni [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.0005	0.0003	0.0005	0.0006
Pb [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00011	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.0037	0.0032	0.0042	0.0064
Se [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00277	0.00323	0.00502	0.00130
Si [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	1.31	1.37	1.12	1.10
Sn [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.0328	0.0341	0.0661	0.0118

Online LIMS

0002835220



mel

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Project : PO#1124452

LR Report : CA14161-FEB22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-0001-TIR 01A-10030MS56	6: ARDG-0002-TIR 01A-10030MS56	7: ARDG-000200- ARDG-000201- S56M	8: ARDG-000201- ARDG-000201- S56M
Ti [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00147	0.00069	0.00006	0.00005
Tl [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.000006	< 0.000005	0.000009	0.000005
U [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.000121	0.000079	0.000913	0.000041
W [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00378	0.00352	0.00560	0.00249
Y [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00008	0.00004	< 0.00002	< 0.00002
V [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	0.00223	0.00234	0.00070	0.00256
Zn [mg/L]	11-Mar-22	16:21	14-Mar-22	15:32	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: ARDG-000202- TIR01A-10030M S54-Kwa-s	10: ARDG-000203- TIR01A-10060M S23-OVB	11: ARDG-000204- TIR01A-10060M S23-OVB	12: ARDG-000205- TIR01A-10060M S23-OVB	13: ARDG-000206- TIR01A-10060M S23-OVB	14: ARDG-000206- TIR01A-10060M S23-OVB	15:BLK: \$D.I. Leachate Blank
Sample Date & Time	14-Jan-22	29-Jan-22	29-Jan-22	29-Jan-22	29-Jan-22		
Sample weight [g]	250	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	9.11	8.87	8.92	8.96	9.23	9.24	5.62
pH [No unit]	8.01	7.74	7.71	7.73	8.06	7.94	5.83
Conductivity [uS/cm]	269	1470	1350	1190	603	615	2
Alkalinity [mg/L as CaCO3]	54	36	38	38	44	44	< 2
SO4 [mg/L]	34	94	83	82	38	39	< 2
Hg [mg/L]	< 0.00001	0.00002	0.00006	0.00002	< 0.00001	0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.568	0.153	0.063	0.235	0.223	0.223	0.001
As [mg/L]	0.0234	0.0409	0.0517	0.0503	0.0312	0.0306	< 0.0002
Ba [mg/L]	0.00295	0.0529	0.0518	0.0338	0.0113	0.0122	0.00020
B [mg/L]	0.020	0.131	0.168	0.093	0.084	0.083	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	8.96	19.7	16.4	17.0	8.56	8.73	0.04
Cd [mg/L]	< 0.000003	0.000005	0.000004	0.000005	0.000005	0.000012	< 0.000003
Co [mg/L]	0.000029	0.000114	0.000136	0.000072	0.000054	0.000117	0.000010
Cr [mg/L]	0.00019	0.00021	0.00010	0.00016	0.00048	0.00046	< 0.00008
Cu [mg/L]	0.0003	0.0003	0.0005	< 0.0002	0.0004	0.0010	< 0.0002
Fe [mg/L]	0.007	0.015	0.020	0.012	0.051	0.059	0.009
K [mg/L]	23.4	25.8	24.3	22.1	22.7	22.8	0.065
Li [mg/L]	0.0013	0.0033	0.0036	0.0022	0.0028	0.0027	< 0.0001
Mg [mg/L]	3.88	19.8	15.9	13.7	3.96	4.05	0.011
Mn [mg/L]	0.00092	0.0113	0.00628	0.00407	0.00089	0.00089	0.00079
Mo [mg/L]	0.00656	0.0169	0.0140	0.0146	0.0122	0.0138	0.00009
Na [mg/L]	28.6	251	242	199	102	101	0.04
Ni [mg/L]	0.0001	0.0005	0.0005	0.0005	0.0003	0.0005	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009
Sb [mg/L]	0.0029	0.0013	0.0011	0.0014	0.0010	0.0010	< 0.0009
Se [mg/L]	0.00040	0.00070	0.00067	0.00049	0.00031	0.00029	< 0.00004
Si [mg/L]	1.37	2.06	2.28	2.14	2.43	2.27	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00010	< 0.00006	0.00010	< 0.00006
Sr [mg/L]	0.0608	0.225	0.208	0.160	0.0686	0.0715	0.00034
Ti [mg/L]	0.00030	0.00111	0.00118	0.00069	0.00294	0.00241	< 0.00005
Tl [mg/L]	0.000015	0.000051	0.000047	0.000029	0.000008	0.000010	< 0.000005
U [mg/L]	0.000169	0.000564	0.000259	0.000331	0.000743	0.000740	0.000002
W [mg/L]	0.00254	0.00416	0.00350	0.00377	0.0102	0.0105	< 0.00002

Online LIMS

0002835220

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Test method information available upon request. *Temperature Upon Receipt* is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

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Project : PO#1124452
LR Report : CA14161-FEB22

Analysis	9: ARDG-000202- TIR01A-10030M S54-Kwa-s	10: ARDG-000203- TIR01A-10060M S23-OVB	11: ARDG-000204- TIR01A-10060M S23-OVB	12: ARDG-000205- TIR01A-10060M S23-OVB	13: ARDG-000206- TIR01A-10060M S23-OVB	14: ARDG-000206- TIR01A-10060M S23-OVB	15:BLK: \$D.I. Leachate Blank
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
V [mg/L]	0.00179	0.00242	0.00365	0.00289	0.00517	0.00469	0.00002
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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 Project Specialist,
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Project : PO#1124452

12-May-2022

Date Rec. : 07 April 2022
LR Report: CA19056-APR22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis ARDG-000227- ARDG-000228- Completed Time	TIR01A-10025 SC01-Kwa-s	TIR01A-10025 SC01-Kwa-s
Sample Date & Time					03-Apr-22	03-Apr-22
Sample weight [g]	22-Apr-22	07:30	25-Apr-22	09:04	250	250
Volume D.I. Water [mL]	22-Apr-22	07:30	25-Apr-22	09:04	750	750
Final pH [no unit]	23-Apr-22	06:55	25-Apr-22	09:04	8.92	9.04
pH [No unit]	25-Apr-22	08:26	25-Apr-22	13:01	8.03	8.10
Conductivity [uS/cm]	25-Apr-22	08:26	25-Apr-22	13:01	260	271
Alkalinity [mg/L as CaCO3]	25-Apr-22	08:26	25-Apr-22	13:01	51	50
SO4 [mg/L]	25-Apr-22	11:10	26-Apr-22	14:12	20	23
Hg [mg/L]	26-Apr-22	07:33	26-Apr-22	12:02	< 0.00001	< 0.00001
Ag [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.00005	< 0.00005
Al [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.603	0.582
As [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.0165	0.0132
Ba [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.00316	0.00324
B [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.016	0.014
Be [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.000007	< 0.000007
Bi [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.00001	< 0.00001
Ca [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	8.19	8.54
Cd [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.000003	0.000006
Co [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.000016	0.000023
Cr [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.00008	< 0.00008
Cu [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.0002	< 0.0002
Fe [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.007	0.007
K [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	15.0	15.8
Li [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.0012	0.0009
Mg [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	2.26	2.47
Mn [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.00087	0.00086
Mo [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.00812	0.00761

Online LIMS


0108682000

Analysis	1:	2:	3:	4:	5:	6:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000227-TIR01A-10025 SC01-Kwa-s	ARDG-000228-TIR01A-10025 SC01-Kwa-s
Na [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	22.7	24.7
Ni [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.0001	< 0.0001
Pb [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.00009	< 0.00009
Sb [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.0041	0.0039
Se [mg/L]	27-Apr-22	17:26	02-May-22	16:30	0.00027	0.00031
Si [mg/L]	27-Apr-22	17:26	02-May-22	16:30	1.35	1.43
Sn [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.00006	< 0.00006
Sr [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.0450	0.0457
Ti [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.00016	0.00040
Tl [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.000009	0.000008
U [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.000109	0.000114
V [mg/L]	***	***	***	***	***	***
W [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.00280	0.00295
Y [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.00002	< 0.00002
V [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	0.00192	0.00178
Zn [mg/L]	27-Apr-22	17:26	28-Apr-22	13:43	< 0.002	0.013

Analysis	7:	8:
	ARDG-000229-TIR01A-10025 SC01-Kwa-s	ARDG-000230-TIR01A-10025 5MS03-Mv
Sample Date & Time	03-Apr-22	11-Apr-22
Sample weight [g]	250	250
Volume D.I. Water [mL]	750	750
Final pH [no unit]	9.26	8.85
pH [No unit]	8.23	8.31
Conductivity [uS/cm]	186	300
Alkalinity [mg/L as CaCO3]	60	74
SO4 [mg/L]	4	32
Hg [mg/L]	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005
Al [mg/L]	0.737	0.503
As [mg/L]	0.0467	0.0536
Ba [mg/L]	0.00196	0.00076
B [mg/L]	0.016	0.029
Be [mg/L]	< 0.000007	< 0.000007
Bi [mg/L]	0.00002	< 0.00001
Ca [mg/L]	5.52	12.1
Cd [mg/L]	< 0.000003	< 0.000003
Co [mg/L]	0.000033	0.000080
Cr [mg/L]	< 0.00008	< 0.00008

Analysis	7: ARDG-000229- TIR01A-10025 SC01-Kwa-s	8: ARDG-000230 -TIR01A-1002 5MS03-Mv
Cu [mg/L]	< 0.0002	< 0.0002
Fe [mg/L]	0.010	< 0.007
K [mg/L]	15.8	3.70
Li [mg/L]	0.0008	0.0015
Mg [mg/L]	1.42	5.08
Mn [mg/L]	0.00053	0.00337
Mo [mg/L]	0.00652	0.00440
Na [mg/L]	15.8	31.6
Ni [mg/L]	0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009
Sb [mg/L]	0.0057	0.0081
Se [mg/L]	0.00015	0.00073
Si [mg/L]	1.43	1.00
Sn [mg/L]	< 0.00006	< 0.00006
Sr [mg/L]	0.0318	0.0232
Ti [mg/L]	0.00029	< 0.00005
Tl [mg/L]	0.000005	< 0.000005
U [mg/L]	0.000189	0.000042
V [mg/L]	***	***
W [mg/L]	0.00393	0.00125
Y [mg/L]	< 0.00002	< 0.00002
V [mg/L]	0.00288	0.00104
Zn [mg/L]	0.003	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

13-April-2022

Date Rec. : 07 April 2022

LR Report: CA19054-APR22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000227- TIR01A-10025 SC01-Kwa-s	ARDG-000228- TIR01A-10025 SC01-Kwa-s
Sample Date & Time					03-Apr-22	03-Apr-22
Paste pH [no unit]	12-Apr-22	08:10	13-Apr-22	10:53	9.21	9.20
Fizz Rate [no unit]	12-Apr-22	08:10	13-Apr-22	10:53	3	3
Sample weight [g]	12-Apr-22	08:10	13-Apr-22	10:53	1.98	2.00
HCl_add [mL]	13-Apr-22	06:05	13-Apr-22	10:53	32.50	31.70
HCl [Normality]	12-Apr-22	08:10	13-Apr-22	10:53	0.10	0.10
NaOH [Normality]	12-Apr-22	08:10	13-Apr-22	10:53	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13-Apr-22	08:10	13-Apr-22	10:53	17.05	16.40
Final pH [no unit]	13-Apr-22	08:10	13-Apr-22	10:53	1.79	1.82
NP [t CaCO3/1000 t]	13-Apr-22	08:10	13-Apr-22	10:53	39.0	38.2
AP [t CaCO3/1000 t]	13-Apr-22	14:26	13-Apr-22	14:26	3.44	3.12
Net NP [t CaCO3/1000 t]	13-Apr-22	14:26	13-Apr-22	14:26	35.6	35.1
NP/AP [ratio]	13-Apr-22	14:26	13-Apr-22	14:26	11.3	12.2
S [%]	13-Apr-22	08:38	13-Apr-22	14:26	0.187	0.219
Acid Leachable SO4-S [%]	13-Apr-22	13-Apr-22	13-Apr-22	14:26	0.08	0.12
Sulphide [%]	13-Apr-22	13:03	13-Apr-22	14:26	0.11	0.10
C [%]	13-Apr-22	08:38	13-Apr-22	12:42	0.545	0.535
CO3 (HCl) [%]	13-Apr-22	12:07	13-Apr-22	12:42	2.25	2.23

Analysis	7:	8:
	ARDG-000229- TIR01A-100250- SC01-Kwa-s	ARDG-00023 TIR01A-100 25MS03-Mv
Sample Date & Time	03-Apr-22	11-Apr-22
Paste pH [no unit]	9.21	8.94
Fizz Rate [no unit]	3	4
Sample weight [g]	2.00	1.98

Analysis	7:	8:
	ARDG-000229-	ARDG-00023
	TIR01A-100250-	TIR01A-100
	SC01-Kwa-s	25MS03-Mv
HCl_add [mL]	40.80	170.00
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23.99	56.86
Final pH [no unit]	1.52	1.77
NP [t CaCO3/1000 t]	42.0	286
AP [t CaCO3/1000 t]	2.81	5.31
Net NP [t CaCO3/1000 t]	39.2	280
NP/AP [ratio]	14.9	53.8
S [%]	0.202	0.277
Acid Leachable SO4-S [%]	0.11	0.11
Sulphide [%]	0.09	0.17
C [%]	0.614	4.01
CO3 (HCl) [%]	2.49	19.3

ABA - Modified Sobek

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

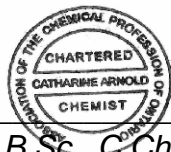
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

12-May-2022

Date Rec. : 26 April 2022
LR Report: CA19186-APR22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date Completed	4: Analysis Date Completed	5: ARD-000231-TIR ARD-000232-TIR ARD-000233-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M	6: ARD-000232-TIR ARD-000233-TIR ARD-000233-TIR 01A-10025MS10-01A-10025MS10- M	7: ARD-000233-TIR ARD-000233-TIR ARD-000233-TIR 01A-10025MS10-01A-10025MS10- M
Sample Date & Time					14-Apr-22	14-Apr-22	15-Apr-22
Paste pH [no unit]	05-May-22	08:30	09-May-22	09:00	8.79	8.87	8.82
Fizz Rate [no unit]	05-May-22	08:30	09-May-22	09:00	3	3	3
Sample weight [g]	05-May-22	08:30	09-May-22	09:00	1.98	1.99	2.00
HCl_add [mL]	06-May-22	06:28	09-May-22	09:00	160.00	140.00	123.10
HCl [Normality]	05-May-22	08:30	09-May-22	09:00	0.10	0.10	0.10
NaOH [Normality]	05-May-22	08:30	09-May-22	09:00	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	06-May-22	08:30	09-May-22	09:00	77.59	48.51	49.83
Final pH [no unit]	06-May-22	08:30	09-May-22	09:00	1.53	1.74	1.66
NP [t CaCO3/1000 t]	06-May-22	08:30	09-May-22	09:00	208	230	183
AP [t CaCO3/1000 t]	11-May-22	16:17	11-May-22	16:18	1.88	2.19	1.25
Net NP [t CaCO3/1000 t]	11-May-22	16:17	11-May-22	16:18	206	228	182
NP/AP [ratio]	11-May-22	16:17	11-May-22	16:18	111	105	147
S [%]	11-May-22	13:37	11-May-22	16:17	0.189	0.195	0.088
Acid Leachable SO4-S [%]	11-May-22	16:17	11-May-22	16:17	0.13	0.12	0.09
Sulphide [%]	05-May-22	18:21	11-May-22	16:17	0.06	0.07	< 0.04
C [%]	11-May-22	13:37	11-May-22	16:17	2.84	2.99	2.30
CO3 (HCl) [%]	12-May-22	08:50	12-May-22	09:37	13.5	14.3	11.2

Analysis	8: ARD-000234-TIR ARD-000235-TIR ARD-000236-TIR ARD-000237-TIR ARD-000238-TIR ARD-000239-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M	9: ARD-000235-TIR ARD-000236-TIR ARD-000237-TIR ARD-000238-TIR ARD-000239-TIR ARD-000239-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M	10: ARD-000236-TIR ARD-000237-TIR ARD-000238-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M	11: ARD-000237-TIR ARD-000238-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M	12: ARD-000238-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M	13: ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR ARD-000239-TIR 01A-10025MS10-01A-10025MS10-01A-10025MS10- M
Sample Date & Time	12-Apr-22	12-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	17-Apr-22
Paste pH [no unit]	9.00	8.95	8.88	8.87	8.92	8.91
Fizz Rate [no unit]	3	3	3	3	3	3
Sample weight [g]	2.02	1.99	2.00	2.00	2.01	2.01
HCl_add [mL]	140.00	180.00	120.00	169.10	180.00	160.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	47.13	76.28	47.27	74.08	74.31	67.40

Analysis	8: ARD-000234-TIR 01A-10025MS10-01A	9: ARD-000235-TIR 01A-10025MS10-01A	10: ARD-000236-TIR 01A-10025MS10-01A	11: ARD-000237-TIR 01A-10025MS10-01A	12: ARD-000238-TIR 01A-10025MS10-01A	13: ARD-000239-TIR 01A-10025MS10-01A
	M	M	M	M	M	M
Final pH [no unit]	1.72	1.57	1.65	1.56	1.60	1.59
NP [t CaCO3/1000 t]	230	261	182	238	263	230
AP [t CaCO3/1000 t]	6.88	3.44	1.25	3.12	5.31	1.88
Net NP [t CaCO3/1000 t]	223	257	181	234	258	228
NP/AP [ratio]	33.4	75.8	145	76.0	49.5	123
S [%]	0.364	0.249	0.122	0.237	0.258	0.125
Acid Leachable SO4-S [%]	0.14	0.14	0.08	0.14	0.09	0.06
Sulphide [%]	0.22	0.11	0.04	0.10	0.17	0.06
C [%]	2.94	3.45	2.22	2.95	3.47	2.97
CO3 (HCl) [%]	14.1	16.7	10.7	14.5	16.8	14.5

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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



SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
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mel

Project : PO#1124452

11-May-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 26 April 2022
LR Report: CA19187-APR22

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis Time	ARD-000231-TIRARD-000232-TIRARD-000233-TIRARD-000234-TIR	01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10	-M	-M
Sample Date & Time					14-Apr-22	14-Apr-22	15-Apr-22	12-Apr-22
Ag [µg/g]	05-May-22	16:55	06-May-22	15:41	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	05-May-22	16:55	06-May-22	15:41	73000	71000	71000	69000
As [µg/g]	05-May-22	16:55	06-May-22	15:41	74	11	6.4	34
Ba [µg/g]	05-May-22	16:55	06-May-22	15:41	54	49	120	86
Be [µg/g]	05-May-22	16:55	06-May-22	15:41	0.40	0.33	0.50	0.33
Bi [µg/g]	05-May-22	16:55	06-May-22	15:41	< 0.09	< 0.09	< 0.09	0.18
Ca [µg/g]	05-May-22	16:55	06-May-22	15:41	82000	98000	73000	100000
Cd [µg/g]	05-May-22	16:55	06-May-22	15:41	0.11	0.13	0.09	0.19
Co [µg/g]	05-May-22	16:55	06-May-22	15:41	44	48	45	49
Cr [µg/g]	05-May-22	16:55	06-May-22	15:41	120	110	91	99
Cu [µg/g]	05-May-22	16:55	06-May-22	15:41	86	120	110	120
Fe [µg/g]	05-May-22	16:55	06-May-22	15:41	72000	70000	81000	80000
K [µg/g]	05-May-22	16:55	06-May-22	15:41	4200	2900	4900	4000
Li [µg/g]	05-May-22	16:55	06-May-22	15:41	74	74	65	58
Mg [µg/g]	05-May-22	16:55	06-May-22	15:41	32000	29000	40000	23000
Mn [µg/g]	05-May-22	16:55	06-May-22	15:41	1400	1800	1300	2800
Mo [µg/g]	05-May-22	16:55	06-May-22	15:41	0.4	0.4	0.3	0.3
Ni [µg/g]	05-May-22	16:55	06-May-22	15:41	110	120	120	120
Pb [µg/g]	05-May-22	16:55	06-May-22	15:41	3	2	3	3
Sb [µg/g]	05-May-22	16:55	06-May-22	15:41	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	05-May-22	16:55	06-May-22	15:41	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	05-May-22	16:55	06-May-22	15:41	< 6	< 6	< 6	< 6
Sr [µg/g]	05-May-22	16:55	06-May-22	15:41	120	100	150	100
Ti [µg/g]	05-May-22	16:55	06-May-22	15:41	560	650	730	2300
Tl [µg/g]	05-May-22	16:55	06-May-22	15:41	0.17	0.12	0.13	0.14
U [µg/g]	05-May-22	16:55	06-May-22	15:41	0.088	0.11	0.19	0.067
V [µg/g]	05-May-22	16:55	06-May-22	15:41	210	220	190	240
Y [µg/g]	05-May-22	16:55	06-May-22	15:41	7.54	9.65	6.92	9.08
Zn [µg/g]	05-May-22	16:55	06-May-22	15:41	86	87	77	110

Analysis	9:	10:	11:	12:	13:
	ARD-000235-TIRARD-000236-TIRARD-000237-TIRARD-000238-TIRARD-000239-TIR	01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10	-M	-M	-M
Sample Date & Time	12-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	17-Apr-22

Online LIMS

0002897285

Analysis	9: ARD-000235-TIRARD-000236-TIRARD-000237-TIRARD-000238-TIRARD-000239-TIR 01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10	10: -M	11: -M	12: -M	13: -M
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	68000	67000	66000	69000	69000
As [µg/g]	220	7.1	130	10	32
Ba [µg/g]	110	18	59	110	63
Be [µg/g]	0.41	0.25	0.32	0.40	0.29
Bi [µg/g]	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Ca [µg/g]	110000	79000	96000	110000	98000
Cd [µg/g]	0.17	0.10	0.14	0.12	0.12
Co [µg/g]	46	44	53	51	53
Cr [µg/g]	85	180	110	120	120
Cu [µg/g]	96	140	110	120	120
Fe [µg/g]	77000	83000	79000	71000	72000
K [µg/g]	5700	1200	3200	6000	4100
Li [µg/g]	53	57	44	48	48
Mg [µg/g]	23000	41000	27000	24000	26000
Mn [µg/g]	2200	1400	1900	2300	2200
Mo [µg/g]	0.3	0.6	0.5	0.3	0.4
Ni [µg/g]	100	83	100	130	120
Pb [µg/g]	5	2	3	2	2
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	110	140	89	100	98
Ti [µg/g]	3800	830	2900	1200	1200
Tl [µg/g]	0.22	0.04	0.12	0.27	0.15
U [µg/g]	0.070	0.042	0.088	0.083	0.038
V [µg/g]	240	230	240	220	210
Y [µg/g]	7.58	9.14	7.48	8.01	7.54
Zn [µg/g]	110	78	94	89	91

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mel

Project : PO#1124452

31-May-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Meliadine
 , Nunavut
 X0C 0A0, Canada

Date Rec. : 26 April 2022
LR Report: CA19188-APR22
Reference: Meliadine

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Phone: (819) 759-3555

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Date	Analysis Date	Analysis Date	Analysis Date	Analysis Date	Analysis Date
Sample Date & Time					14-Apr-22	14-Apr-22	15-Apr-22	12-Apr-22
Sample weight [g]	12-May-22	07:00	17-May-22	16:54	250	250	250	250
Volume D.I. Water [mL]	12-May-22	07:00	17-May-22	16:54	750	750	750	750
Final pH [no unit]	13-May-22	06:20	17-May-22	16:54	8.80	8.79	8.65	8.71
pH [No unit]	13-May-22	13:55	19-May-22	10:24	8.83	8.42	9.03	8.80
Conductivity [uS/cm]	13-May-22	13:55	19-May-22	10:24	211	185	203	248
Alkalinity [mg/L as CaCO3]	13-May-22	13:55	19-May-22	10:24	77	57	63	67
SO4 [mg/L]	13-May-22	15:19	30-May-22	22:06	9	11	6	41
Hg [mg/L]	19-May-22	07:01	20-May-22	12:49	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	18-May-22	16:25	20-May-22	17:09	0.341	0.449	0.380	0.438
As [mg/L]	18-May-22	16:25	20-May-22	17:09	0.0020	0.0012	0.0027	0.0133
Ba [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00145	0.00047	0.00148	0.00186
B [mg/L]	18-May-22	16:25	20-May-22	17:09	0.055	0.017	0.046	0.050
Be [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.000007	0.000010	< 0.000007	< 0.000007
Bi [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	18-May-22	16:25	20-May-22	17:09	10.9	9.04	7.39	11.3
Cd [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.000003	0.000006	< 0.000003	< 0.000003
Co [mg/L]	18-May-22	16:25	20-May-22	17:09	0.000039	0.000041	0.000011	0.000026
Cr [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00042	< 0.00008	0.00077	0.00044
Cu [mg/L]	18-May-22	16:25	20-May-22	17:09	0.0002	< 0.0002	0.0005	0.0006
Fe [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	18-May-22	16:25	20-May-22	17:09	3.75	2.79	5.37	4.95
Li [mg/L]	18-May-22	16:25	20-May-22	17:09	0.0018	0.0014	0.0006	0.0011
Mg [mg/L]	18-May-22	16:25	20-May-22	17:09	5.58	3.62	2.05	2.97
Mn [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00132	0.00197	0.00038	0.00193
Mo [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00283	0.00386	0.00198	0.00734
Na [mg/L]	18-May-22	16:25	20-May-22	17:09	32.5	20.1	30.6	36.3
Ni [mg/L]	18-May-22	16:25	20-May-22	17:09	0.0001	0.0007	< 0.0001	0.0001
Pb [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	18-May-22	16:25	20-May-22	17:09	0.0010	< 0.0009	0.0012	0.0012
Se [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00014	0.00015	0.00007	0.00110
Si [mg/L]	18-May-22	16:25	20-May-22	17:09	1.03	0.96	0.96	1.03
Sn [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.00006	< 0.00006	0.00009	0.00008

SGS Canada Inc.
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 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#1124452
LR Report : CA19188-APR22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARD-000231-TIRARD-000231-01A-10025MS10-M	TIRARD-000232-TIRARD-000232-01A-10025MS10-M	TIRARD-000233-TIRARD-000233-01A-10025MS10-M	TIRARD-000234-TIRARD-000234-01A-10025MS10-M
Sr [mg/L]	18-May-22	16:25	20-May-22	17:09	0.0214	0.0187	0.0234	0.0193
Ti [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00008	0.00008	0.00012	0.00012
Tl [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	18-May-22	16:25	20-May-22	17:09	0.000506	0.000005	0.000019	0.000243
W [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00080	0.00104	0.00075	0.00189
V [mg/L]	18-May-22	16:25	20-May-22	17:09	0.00084	0.00103	0.00099	0.00150
Zn [mg/L]	18-May-22	16:25	20-May-22	17:09	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9:	10:	11:	12:	13:	14:	15:BLK:
	ARD-000235-TIRARD-000235-01A-10025MS10-M	TIRARD-000236-TIRARD-000236-01A-10025MS10-M	TIRARD-000237-TIRARD-000237-01A-10025MS10-M	TIRARD-000238-TIRARD-000238-01A-10025MS10-M	TIRARD-000239-TIRARD-000239-01A-10025MS10-M	TIRARD-000239-TIRARD-000239-01A-10025MS10-M	\$D.I. Leachate Blank
Sample Date & Time	12-Apr-22	16-Apr-22	16-Apr-22	16-Apr-22	17-Apr-22		
Sample weight [g]	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	8.80	9.01	9.06	8.84	9.27	9.02	5.50
pH [No unit]	8.80	8.54	8.47	8.81	8.87	8.94	7.68
Conductivity [uS/cm]	234	145	183	265	110	166	20
Alkalinity [mg/L as CaCO3]	73	46	59	72	47	67	9
SO4 [mg/L]	28	6	13	37	5	8	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.406	0.348	0.565	0.375	0.445	0.488	0.003
As [mg/L]	0.0690	0.0013	0.0278	0.0018	0.0022	0.0035	0.0004
Ba [mg/L]	0.00152	0.00130	0.00053	0.00406	0.00096	0.00132	0.00030
B [mg/L]	0.045	0.029	0.018	0.036	0.029	0.034	0.025
Be [mg/L]	< 0.000007	< 0.000007	0.000011	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	13.0	9.06	6.75	12.8	8.04	9.90	0.15
Cd [mg/L]	< 0.000003	< 0.000003	0.000015	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000065	0.000250	0.000016	0.000022	0.000022	0.000017	< 0.000004
Cr [mg/L]	0.00042	0.00015	0.00014	0.00071	0.00020	0.00052	0.00036
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	0.0003	0.0009	0.0006	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.012	< 0.007	< 0.007	< 0.007
K [mg/L]	4.68	1.62	5.58	7.27	2.08	3.42	0.160
Li [mg/L]	0.0011	0.0006	0.0006	0.0021	0.0009	0.0012	< 0.0001
Mg [mg/L]	4.42	2.12	2.08	5.09	2.00	2.94	0.020
Mn [mg/L]	0.00269	0.00058	0.00136	0.00283	0.00166	0.00157	0.00032
Mo [mg/L]	0.00530	0.00567	0.00401	0.00719	0.00489	0.00290	0.00032
Na [mg/L]	31.2	17.8	24.3	33.3	12.6	22.4	4.21
Ni [mg/L]	0.0002	< 0.0001	< 0.0001	0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0036	0.0015	0.0013	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Se [mg/L]	0.00055	0.00010	0.00037	0.00056	0.00010	0.00013	< 0.00004
Si [mg/L]	0.99	0.92	0.92	1.08	0.65	0.93	0.07
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0163	0.0332	0.0188	0.0241	0.0105	0.0159	0.00012
Ti [mg/L]	< 0.00005	0.00007	0.00006	0.00103	0.00012	0.00009	< 0.00005
Tl [mg/L]	< 0.000005	< 0.000005	0.000006	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000108	0.000041	0.000013	0.000043	0.000110	0.000058	0.000006
W [mg/L]	0.00210	0.00113	0.00136	0.00126	0.00058	0.00100	0.00008
V [mg/L]	0.00152	0.00118	0.00150	0.00095	0.00090	0.00100	0.00008

SGS Canada Inc.

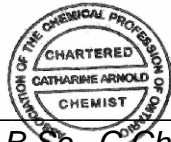
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 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#1124452

LR Report : CA19188-APR22

Analysis	9:	10:	11:	12:	13:	14:	15:BLK:
	ARD-000235-TIRARD-000236-TIRARD-000237-TIRARD-000238-TIRARD-000239-TIRARD-000239-TIR						\$D.I. Leachate
	01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10 01A-10025MS10						Blank
	-M	-M	-M	-M	-M	-M	
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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



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Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

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Project : PO#1124452

12-May-2022

Date Rec. : 07 April 2022

LR Report: CA19055-APR22

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: ARDG-000227- TIR01A-10025 SC01-Kwa-s	6: ARDG-000228- TIR01A-10025 SC01-Kwa-s	7: ARDG-000229- TIR01A-10025 SC01-Kwa-s	8: ARDG-00023 0-TIR01A-100 25MS03-Mv
Sample Date & Time					03-Apr-22	03-Apr-22	03-Apr-22	11-Apr-22
Ag [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	70000	68000	75000	64000
As [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	18	16	34	200
Ba [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	740	750	830	91
Be [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	1	1	1	0.45
Bi [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	0.89	0.26	0.29	0.12
Ca [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	13000	12000	14000	95000
Cd [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	0.06	0.08	0.10	0.14
Co [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	21	20	21	44
Cr [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	120	120	130	210
Cu [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	36	38	43	75
Fe [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	36000	36000	41000	71000
K [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	16000	16000	18000	6100
Li [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	32	34	37	51
Mg [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	12000	12000	14000	23000

OnLine LIMS

0002898005

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000227- TIR01A-10025 SC01-Kwa-s	6: ARDG-000228- TIR01A-10025 SC01-Kwa-s	7: ARDG-000229- TIR01A-10025 SC01-Kwa-s	8: ARDG-00023 TIR01A-100 25MS03-Mv
Mn [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	280	280	310	1600
Mo [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	1.3	1.4	2.4	0.6
Ni [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	61	62	70	110
Pb [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	32	9	12	8
Sb [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	< 6	< 6	< 6	< 6
Sr [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	340	340	360	180
Ti [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	1200	1100	1200	3500
Tl [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	0.40	0.41	0.41	0.32
U [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	1.35	1.18	1.50	0.11
V [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	84	82	92	230
Y [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	6.68	5.82	7.19	7.75
Zn [µg/g]	14-Apr-22	22:15	19-Apr-22	13:33	68	67	86	120

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Project : PO#1124452

04-July-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 14 June 2022

LR Report: CA19105-JUN22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis Date Completed	Analysis ARDG-000240-T IR01A-10020SU 01-Kwa-s	Analysis ARDG-000241-T IR01A-10020SU 01-Kwa-s	Analysis ARDG-000242-T IR01B-10050MS 02-Kwa-s	Analysis ARDG-000243-T IR01B-10050MS 02-Kwa-s	Analysis ARDG-000244-T IR01B-10050MS 02-Kwa-s
Sample Date & Time					05-May-22	05-May-22	14-May-22	14-May-22	14-May-22
Ag [µg/g]	29-Jun-22	23:56	04-Jul-22	11:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	29-Jun-22	23:56	04-Jul-22	11:18	90000	71000	76000	73000	77000
As [µg/g]	29-Jun-22	23:56	04-Jul-22	11:18	66	34	71	14	30
Ba [µg/g]	29-Jun-22	23:56	04-Jul-22	11:18	620	560	490	730	800
Be [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	1	0.93	0.77	1	1
Bi [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	0.26	0.18	< 0.09	0.20	0.32
Ca [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	14000	18000	38000	21000	13000
Cd [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	0.10	0.13	0.25	0.18	0.10
Co [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	23	20	37	19	24
Cr [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	59	37	34	39	92
Cu [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	56	47	78	39	52
Fe [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	48000	38000	73000	38000	45000
K [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	22000	14000	10000	17000	20000
Li [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	44	31	41	30	41
Mg [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	17000	12000	24000	16000	16000
Mn [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	410	390	930	450	370
Mo [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	1.5	1.2	1.0	1.4	2.0
Ni [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	81	58	61	52	77
Pb [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	11	9	7	10	11
Sb [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	29-Jun-22	23:56	04-Jul-22	11:19	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	< 6	< 6	< 6	< 6	6.5
Sr [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	320	370	270	390	340
Ti [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	990	1900	5100	840	1000
Tl [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	0.47	0.33	0.24	0.39	0.42
U [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	1.7	1.3	0.90	1.4	1.6
V [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	100	79	190	77	99
Y [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	8.7	7.6	12	8.2	9.6
Zn [µg/g]	29-Jun-22	23:56	04-Jul-22	11:21	86	67	89	75	93

SGS Canada Inc.

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Project : PO#1124452

LR Report : CA19105-JUN22

Analysis	10: ARDG-000245-T IR01B-10050MS 02-Kwa-s	11: ARDG-000246-T IR01B-10050MS 02-Kwa-s	12: ARDG-000247-T IR01B-10050MS 02-Kwa-s	13: ARDG-000248-T IR01B-10050MS 02-Kwa-s	14: ARDG-000249-T IR01B-10050MS 02-Kwa-s	15: ARDG-000250-T IR01B-10050MS 02-Kwa-s	16: ARDG-000251-T IR01B-10050MS 02-Kwa-s	17: ARDG-000252-T IR01B-10050MS 02-Kwa-s
Sample Date & Time	14-May-22	14-May-22	14-May-22	14-May-22	14-May-22	14-May-22	12-May-22	14-May-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	67000	69000	70000	76000	75000	73000	78000	77000
As [µg/g]	34	13	34	240	320	130	160	530
Ba [µg/g]	98	740	110	640	600	590	680	610
Be [µg/g]	0.48	0.90	0.60	1	1	0.98	0.99	0.98
Bi [µg/g]	< 0.09	0.25	< 0.09	0.28	0.30	0.25	0.30	1.00
Ca [µg/g]	67000	12000	47000	16000	16000	14000	17000	16000
Cd [µg/g]	0.18	0.09	0.11	0.11	0.13	0.09	0.16	0.15
Co [µg/g]	51	20	42	22	20	18	21	21
Cr [µg/g]	42	55	38	71	42	54	74	58
Cu [µg/g]	95	43	74	46	45	43	48	46
Fe [µg/g]	99000	35000	83000	39000	39000	36000	39000	39000
K [µg/g]	3900	17000	3500	20000	19000	16000	18000	17000
Li [µg/g]	43	31	35	28	29	26	31	29
Mg [µg/g]	30000	13000	27000	13000	14000	12000	13000	13000
Mn [µg/g]	1500	270	1200	380	370	340	390	390
Mo [µg/g]	0.5	1.3	0.7	1.4	1.8	1.3	1.2	1.2
Ni [µg/g]	53	60	55	69	65	60	63	65
Pb [µg/g]	10	7	7	10	14	12	13	21
Sb [µg/g]	0.9	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	310	330	210	330	340	360	360	370
Ti [µg/g]	6500	2200	5700	2700	2100	1600	1100	1100
TI [µg/g]	0.25	0.32	0.22	0.45	0.44	0.43	0.42	0.41
U [µg/g]	0.26	1.5	0.67	1.4	1.5	1.5	1.5	1.4
V [µg/g]	270	70	220	86	83	77	86	79
Y [µg/g]	24	6.7	21	6.8	7.0	6.8	8.5	7.2
Zn [µg/g]	100	74	97	71	76	71	80	84

Analysis	18: ARDG-000253-T IR01B-10050MS 02-Kwa-s	19: ARDG-000254-T IR01B-10050MS 02-Kwa-s	20: ARDG-000255-T IR01B-10050MS 02-Kwa-s	21: ARDG-000256-T IR01B-10050MS 02-Kwa-s	22: ARDG-000257-T IR01B-10050MS 02-Kwa-s	23: ARDG-000258-T IR01B-10050MS 02-Kwa-s	24: ARDG-000259-T IR01B-10055MS 02-Kwa-s	25: ARDG-000260-T IR01B-10055MS 20-M
Sample Date & Time	14-May-22	12-May-22	14-May-22	14-May-22	12-May-22	14-May-22	14-May-22	17-May-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	75000	69000	83000	79000	83000	90000	71000	67000
As [µg/g]	270	150	120	45	73	120	370	15
Ba [µg/g]	660	670	630	790	630	680	550	93
Be [µg/g]	1	1	1	0.96	1	1	1	0.34
Bi [µg/g]	0.35	0.56	0.55	0.27	0.39	0.38	0.29	< 0.09
Ca [µg/g]	14000	16000	16000	13000	14000	15000	15000	93000
Cd [µg/g]	0.14	0.18	0.13	0.15	0.13	0.10	0.11	0.10
Co [µg/g]	22	23	23	20	23	25	20	53
Cr [µg/g]	92	61	55	62	69	83	52	83
Cu [µg/g]	48	54	50	49	52	54	46	120
Fe [µg/g]	43000	40000	47000	40000	45000	50000	40000	68000
K [µg/g]	22000	17000	20000	16000	20000	21000	19000	4600
Li [µg/g]	36	29	42	34	41	46	31	62
Mg [µg/g]	15000	13000	17000	13000	16000	18000	14000	22000

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Project : PO#1124452

LR Report : CA19105-JUN22

Analysis	18: ARDG-000253-T IR01B-10050MS 02-Kwa-s	19: ARDG-000254-T IR01B-10050MS 02-Kwa-s	20: ARDG-000255-T IR01B-10050MS 02-Kwa-s	21: ARDG-000256-T IR01B-10050MS 02-Kwa-s	22: ARDG-000257-T IR01B-10050MS 02-Kwa-s	23: ARDG-000258-T IR01B-10050MS 02-Kwa-s	24: ARDG-000259-T IR01B-10050MS 02-Kwa-s	25: ARDG-000260-T IR01B-10050MS 20-M
Mn [µg/g]	410	350	420	350	420	440	370	1900
Mo [µg/g]	1.6	1.5	1.5	1.3	1.4	1.6	1.8	0.3
Ni [µg/g]	73	65	78	64	75	84	66	120
Pb [µg/g]	21	20	20	15	29	15	13	3
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	350	360	310	380	320	330	300	120
Ti [µg/g]	1500	1700	910	640	1000	950	2100	1400
Tl [µg/g]	0.52	0.44	0.47	0.38	0.48	0.50	0.44	0.16
U [µg/g]	1.6	1.6	1.6	1.7	1.6	1.8	1.2	0.16
V [µg/g]	99	80	98	86	96	110	84	210
Y [µg/g]	7.8	6.6	8.7	8.9	7.7	9.2	5.6	8.4
Zn [µg/g]	85	87	94	85	88	98	77	83

Analysis	26: ARDG-000261-T IR01B-10055MS 20-M	27: ARDG-000262-T IR01B-10055MS 20-M	28: ARDG-000263-T IR01B-10055MS 20-M	29: ARDG-000264-T IR01B-10055MS 20-Kwa-s	30: ARDG-000265-T IR01B-10055MS 20-Kwa-s	31: ARDG-000266-T IR01B-10055MS 20-Kwa-s	32: ARDG-000267-T IR01B-10055MS 21-M	33: ARDG-000268-T IR01B-10055MS 21-M
Sample Date & Time	17-May-22	17-May-22	17-May-22	18-May-22	18-May-22	18-May-22	22-May-22	22-May-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	66000	69000	72000	72000	63000	69000	68000	72000
As [µg/g]	16	11	7.5	200	860	210	310	9.1
Ba [µg/g]	150	64	87	700	630	740	210	55
Be [µg/g]	0.40	0.34	0.40	1	1	1	0.60	0.33
Bi [µg/g]	< 0.09	< 0.09	< 0.09	0.68	0.98	0.30	0.15	< 0.09
Ca [µg/g]	88000	110000	88000	15000	14000	17000	94000	98000
Cd [µg/g]	0.10	0.19	0.13	0.13	0.15	0.14	0.10	0.14
Co [µg/g]	47	45	46	20	21	19	39	47
Cr [µg/g]	67	84	120	59	55	53	100	120
Cu [µg/g]	113	94	95	60	44	52	74	92
Fe [µg/g]	65000	67000	67000	41000	36000	48000	76000	75000
K [µg/g]	6800	3600	3600	17000	16000	19000	8000	2600
Li [µg/g]	58	77	81	29	28	33	57	79
Mg [µg/g]	21000	20000	21000	13000	12000	13000	24000	24000
Mn [µg/g]	1800	1900	1800	380	330	410	1600	1800
Mo [µg/g]	0.4	0.2	0.3	2.1	1.6	1.8	0.4	0.4
Ni [µg/g]	120	110	120	65	60	63	100	120
Pb [µg/g]	4	4	4	85	140	16	13	4
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	140	150	140	360	310	350	220	140
Ti [µg/g]	1500	1800	950	1400	1700	1800	1500	1100
Tl [µg/g]	0.20	0.12	0.10	0.42	0.41	0.48	0.35	0.10
U [µg/g]	0.36	0.078	0.20	1.6	1.3	1.5	0.29	0.087
V [µg/g]	190	200	210	83	71	82	200	220
Y [µg/g]	8.5	8.4	8.3	6.1	5.3	6.9	9.4	9.5
Zn [µg/g]	80	88	89	80	71	85	140	95

Analysis	34: ARDG-000269-T IR01B-10055MS 21-M	35: ARDG-000270-T IR01B-10055MS 21-Kwa-s	36: ARDG-000271-T IR01B-10055MS 21-Kwa-s	37: ARDG-000272-T IR01B-10055MS 21-Kwa-s	38: ARDG-000273-T IR01B-10055MS 21-Kwa-s	39: ARDG-000274	40: ARDG-000275	41: ARDG-000276	42: ARDG-000277
Sample Date & Time	22-May-22	22-May-22	22-May-22	22-May-22	22-May-22	N/A	N/A	N/A	N/A
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	72000	61000	73000	72000	65000	84000	80000	84000	74000
As [µg/g]	15	100	240	270	340	480	520	120	110
Ba [µg/g]	95	860	620	700	680	770	780	830	650
Be [µg/g]	0.35	1	1	1	1	1	1	1	1
Bi [µg/g]	< 0.09	0.20	0.34	0.19	0.22	0.67	0.57	0.39	0.46
Ca [µg/g]	86000	27000	13000	19000	20000	12000	13000	13000	14000
Cd [µg/g]	0.15	0.25	0.11	0.10	0.16	0.16	0.15	0.12	0.17
Co [µg/g]	45	16	21	19	19	24	23	22	21
Cr [µg/g]	100	39	92	61	57	92	96	91	73
Cu [µg/g]	94	34	40	44	44	49	48	50	51
Fe [µg/g]	72000	35000	42000	39000	38000	47000	43000	46000	43000
K [µg/g]	4300	18000	21000	20000	20000	24000	23000	21000	19000
Li [µg/g]	67	19	30	27	25	37	32	40	34
Mg [µg/g]	24000	11000	14000	13000	13000	17000	15000	17000	14000
Mn [µg/g]	1600	430	420	420	440	400	410	400	410
Mo [µg/g]	0.4	1.3	1.4	1.3	1.3	1.8	1.6	1.8	1.6
Ni [µg/g]	120	38	68	59	58	81	73	78	71
Pb [µg/g]	10	25	16	9	11	70	65	17	29
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	170	550	310	370	350	340	350	370	340
Ti [µg/g]	2000	3300	2800	2800	2800	3500	3300	1000	1500
Tl [µg/g]	0.14	0.47	0.53	0.50	0.50	0.60	0.59	0.53	0.46
U [µg/g]	0.14	0.99	1.8	1.5	1.1	1.8	1.7	1.7	1.4
V [µg/g]	210	72	86	82	79	110	110	120	93
Y [µg/g]	7.9	7.1	6.6	5.6	4.9	6.7	6.6	8.4	5.9
Zn [µg/g]	94	61	73	78	74	91	85	92	92

Analysis	43: ARDG-000278	44: ARDG-000279	45: ARDG-000280	46: ARDG-000281	47: ARDG-000282
Sample Date & Time	N/A	N/A	N/A	N/A	N/A
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	63000	67000	76000	56000	53000
As [µg/g]	300	25	180	63	840
Ba [µg/g]	560	570	780	550	740
Be [µg/g]	0.98	1	1	1	1
Bi [µg/g]	0.35	0.23	0.31	0.28	0.35
Ca [µg/g]	13000	17000	16000	20000	14000
Cd [µg/g]	0.12	0.12	0.15	0.20	0.17
Co [µg/g]	20	19	21	20	19
Cr [µg/g]	54	61	98	65	65
Cu [µg/g]	43	58	38	43	40
Fe [µg/g]	37000	36000	44000	39000	39000
K [µg/g]	17000	20000	19000	19000	19000
Li [µg/g]	30	26	39	28	27
Mg [µg/g]	12000	12000	17000	13000	12000


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Project : PO#1124452

LR Report : CA19105-JUN22

Analysis	43: ARDG-000278	44: ARDG-000279	45: ARDG-000280	46: ARDG-000281	47: ARDG-000282
Mn [µg/g]	320	350	410	470	360
Mo [µg/g]	1.2	1.5	1.4	1.3	1.8
Ni [µg/g]	62	60	68	59	60
Pb [µg/g]	16	10	16	12	21
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	300	300	360	390	280
Ti [µg/g]	1300	1800	1200	1900	2800
Tl [µg/g]	0.43	0.52	0.49	0.49	0.57
U [µg/g]	1.3	1.1	1.5	0.70	0.88
V [µg/g]	76	75	110	85	80
Y [µg/g]	4.7	5.6	7.5	3.9	3.2
Zn [µg/g]	85	67	95	90	76

Catharine Arnold

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Agnico Eagle Mines Limited

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Project : PO#1124452

20-July-2022

Date Rec. : 14 June 2022
LR Report: CA19106-JUN22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000240-TIR01A-10020 SU01-Kwa-s	ARDG-000241-TIR01A-10020 SU01-Kwa-s	ARDG-000242-TIR01B-10050 MS02-Kwa-s	ARDG-000243-TIR01B-10050 MS02-Kwa-s	ARDG-000244-TIR01B-10050 MS02-Kwa-s	ARDG-000245-TIR01B-10050 MS02-Kwa-s	ARDG-000246-TIR01B-10050 MS02-Kwa-s	ARDG-000247-TIR01B-10050 MS02-Kwa-s
Sample weight [g]	27-Jun-22	06:48	29-Jun-22	13:43	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	27-Jun-22	06:48	29-Jun-22	13:43	750	750	750	750	750	750	750	750
Final pH [no unit]	28-Jun-22	09:54	29-Jun-22	13:43	8.85	8.85	9.21	8.88	9.12	9.25	9.09	9.21
pH [No unit]	28-Jun-22	14:19	04-Jul-22	12:00	8.25	8.09	8.07	8.05	8.09	8.07	8.28	8.08
Conductivity [uS/cm]	28-Jun-22	14:19	04-Jul-22	12:00	205	291	207	561	346	187	339	211
Alkalinity [mg/L as CaCO3]	28-Jun-22	14:19	04-Jul-22	12:00	147	131	141	142	141	137	140	137
Sulphate [mg/L]	29-Jun-22	11:59	04-Jul-22	16:39	12	31	16	50	32	15	28	20
Mercury [mg/L]	29-Jun-22	14:12	30-Jun-22	09:16	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001
Silver [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	0.763	0.599	0.696	0.361	0.562	0.657	0.571	0.683
Arsenic [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	0.0320	0.0635	0.0319	0.0066	0.0333	0.0066	0.0095	0.0080
Barium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	0.00149	0.00395	0.00406	0.00691	0.00325	0.00332	0.00468	0.00455
Boron [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	0.015	0.022	0.017	0.054	0.023	0.018	0.024	0.021
Beryllium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	05-Jul-22	19:15	06-Jul-22	15:30	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	7.58	11.7	7.61	13.8	9.41	7.39	10.8	8.00
Cadmium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	< 0.000003	0.000003	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003	0.000003
Cobalt [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	0.000020	0.000028	0.000051	0.000016	0.000025	0.000013	0.000053	0.000013
Chromium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	0.00009	0.00009	0.00014	0.00010	0.00014	< 0.00008	0.00017	0.00020
Copper [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	0.0003	< 0.0002	0.0002	< 0.0002	< 0.0002	0.0003	0.0002	< 0.0002

OnLine LIMS

0002982801



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Project : PO#1124452

LR Report : CA19106-JUN22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: ARDG-000240- TIR01A-10020 SU01-Kwa-s	6: ARDG-000241- TIR01A-10020 SU01-Kwa-s	7: ARDG-000242- TIR01B-10050 MS02-Kwa-s	8: ARDG-000243- TIR01B-10050 MS02-Kwa-s	9: ARDG-000244- TIR01B-10050 MS02-Kwa-s	10: ARDG-000245- TIR01B-10050 MS02-Kwa-s	11: ARDG-000246- TIR01B-10050 MS02-Kwa-s	12: ARDG-000247- TIR01B-10050 MS02-Kwa-s
Iron [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	< 0.007	< 0.007	0.008	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	20.9	16.5	16.3	24.6	24.8	13.3	21.4	14.6
Lithium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	0.0010	0.0014	0.0006	0.0016	0.0009	0.0008	0.0013	0.0008
Magnesium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	2.02	3.68	1.32	6.37	2.99	1.53	2.82	1.53
Manganese [mg/L]	05-Jul-22	19:15	06-Jul-22	15:31	0.00066	0.00196	0.00078	0.00311	0.00103	0.00053	0.00086	0.00053
Molybdenum [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.00661	0.00753	0.00536	0.0158	0.0104	0.00486	0.00493	0.00837
Sodium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	22.9	35.0	25.8	81.9	48.2	23.2	42.7	28.5
Nickel [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002
Lead [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Antimony [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.0060	0.0056	0.0056	0.0021	0.0025	0.0033	0.0032	0.0041
Selenium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.00009	0.00037	0.00018	0.00079	0.00041	0.00046	0.00028	0.00019
Silicon [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	1.50	1.62	1.47	1.81	1.66	1.41	1.67	1.34
Tin [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.0340	0.0642	0.0414	0.0928	0.0497	0.0401	0.0570	0.0399
Titanium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.00013	< 0.00005	0.00006	0.00021	< 0.00005	0.00013	0.00030	0.00021
Thallium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	< 0.000005	0.000008	0.000009	0.000009	0.000015	0.000017	0.000011	0.000012
Uranium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.000085	0.000123	0.000020	0.012674	0.000082	0.000009	0.000083	0.000015
Tungsten [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.00339	0.00310	0.00209	0.00352	0.00256	0.00286	0.00316	0.00153
Vanadium [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	0.00238	0.00175	0.00421	0.00144	0.00188	0.00378	0.00211	0.00396
Zinc [mg/L]	05-Jul-22	19:15	06-Jul-22	15:32	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	13: ARDG-000248- TIR01B-10050 MS02-Kwa-s	14: ARDG-000249- TIR01B-10050 MS02-Kwa-s	15: ARDG-000250- TIR01B-10050 MS02-Kwa-s	16: ARDG-000251- TIR01B-10050 MS02-Kwa-s	17: ARDG-000252- TIR01B-10050 MS02-Kwa-s	18: ARDG-000253- TIR01B-10050 MS02-Kwa-s	19: ARDG-000254- TIR01B-10050 MS02-Kwa-s	20: ARDG-000255- TIR01B-10050 MS02-Kwa-s	21: ARDG-000256- TIR01B-10050 MS02-Kwa-s	22: ARDG-000257- TIR01B-10050 MS02-Kwa-s	23: ARDG-000258- TIR01B-10050 MS02-Kwa-s	24: ARDG-000259- TIR01B-10050 MS02-Kwa-s
Sample weight [g]	250	250	250	250	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750	750	750	750	750	750
Final pH [no unit]	9.05	9.06	8.98	8.93	9.22	9.19	9.05	9.14	9.14	9.05	9.23	9.14
pH [No unit]	8.10	8.41	8.47	8.05	8.31	8.47	8.20	8.15	7.94	8.18	8.33	8.54
Conductivity [uS/cm]	354	382	203	448	209	234	302	282	457	316	236	425
Alkalinity [mg/L as CaCO3]	146	143	156	148	142	156	148	141	141	52	148	153
Sulphate [mg/L]	29	31	10	42	12	14	49	18	56	28	16	33
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00002	0.00003
Silver [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	0.547	0.491	0.784	0.476	0.737	0.728	0.555	0.686	0.450	0.573	0.749	0.486
Arsenic [mg/L]	0.105	0.0794	0.173	0.0445	0.163	0.0714	0.0913	0.0777	0.0398	0.0472	0.0827	0.0780

Online LIMS

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Project : PO#1124452
LR Report : CA19106-JUN22

Analysis	13: ARDG-000248- TIR01B-10050 MS02-Kwa-s	14: ARDG-000249- TIR01B-10050 MS02-Kwa-s	15: ARDG-000250- TIR01B-10050 MS02-Kwa-s	16: ARDG-000251- TIR01B-10050 MS02-Kwa-s	17: ARDG-000252- TIR01B-10050 MS02-Kwa-s	18: ARDG-000253- TIR01B-10050 MS02-Kwa-s	19: ARDG-000254- TIR01B-10050 MS02-Kwa-s	20: ARDG-000255- TIR01B-10050 MS02-Kwa-s	21: ARDG-000256- TIR01B-10050 MS02-Kwa-s	22: ARDG-000257- TIR01B-10050 MS02-Kwa-s	23: ARDG-000258- TIR01B-10050 MS02-Kwa-s	24: ARDG-000259- TIR01B-10050 MS02-Kwa-s
Barium [mg/L]	0.00420	0.00396	0.00164	0.00556	0.00169	0.00173	0.00412	0.00216	0.00659	0.00371	0.00168	0.00438
Boron [mg/L]	0.027	0.023	0.019	0.042	0.016	0.018	0.018	0.021	0.028	0.022	0.016	0.027
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	< 0.00001	0.00001	0.00002	< 0.00001
Calcium [mg/L]	11.3	12.5	7.40	12.0	8.01	8.34	12.9	8.99	15.3	11.1	8.00	12.9
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000114	0.000054	0.000060	0.000035	0.000027	0.000029	0.000079	0.000045	0.000073	0.000039	0.000024	0.000044
Chromium [mg/L]	< 0.00008	0.00012	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	< 0.00008	< 0.00008	0.00015	< 0.00008
Copper [mg/L]	0.0003	< 0.0002	0.0003	< 0.0002	0.0003	< 0.0002	0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002
Iron [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	21.2	25.9	19.0	24.5	17.3	24.2	24.5	24.9	22.1	22.2	23.8	28.4
Lithium [mg/L]	0.0056	0.0014	0.0011	0.0019	0.0012	0.0011	0.0020	0.0010	0.0019	0.0013	0.0009	0.0013
Magnesium [mg/L]	4.93	4.94	2.62	5.30	2.86	3.16	5.81	3.11	5.90	4.21	2.57	5.28
Manganese [mg/L]	0.00189	0.00156	0.00099	0.00263	0.00092	0.00090	0.00231	0.00082	0.00373	0.00155	0.00070	0.00168
Molybdenum [mg/L]	0.0116	0.0153	0.00690	0.00881	0.00660	0.00819	0.00925	0.00713	0.0119	0.00786	0.00575	0.0143
Sodium [mg/L]	46.1	43.1	23.2	64.7	25.5	25.4	29.6	33.6	61.1	37.9	27.0	53.2
Nickel [mg/L]	0.0005	0.0003	0.0002	0.0004	0.0002	0.0002	0.0003	0.0003	0.0005	0.0003	0.0002	0.0004
Lead [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00020	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00017	< 0.00009	< 0.00009
Antimony [mg/L]	0.0062	0.0038	0.0065	0.0045	0.0064	0.0067	0.0046	0.0063	0.0043	0.0067	0.0070	0.0040
Selenium [mg/L]	0.00044	0.00044	0.00023	0.00057	0.00028	0.00017	0.00095	0.00017	0.00057	0.00032	0.00022	0.00053
Silicon [mg/L]	1.74	1.66	1.82	1.74	1.72	1.50	1.60	1.44	1.63	1.36	1.46	1.66
Tin [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	0.0580	0.0643	0.0326	0.0804	0.0356	0.0436	0.0662	0.0538	0.0957	0.0594	0.0422	0.0681
Titanium [mg/L]	0.00010	0.00008	0.00013	< 0.00005	< 0.00005	0.00015	0.00023	< 0.00005	0.00016	0.00014	0.00095	0.00018
Thallium [mg/L]	0.000009	0.000011	0.000005	0.000010	< 0.000005	0.000005	0.000008	0.000006	0.000008	0.000008	0.000007	0.000011
Uranium [mg/L]	0.000260	0.000129	0.000497	0.003128	0.000346	0.000205	0.000596	0.000105	0.000284	0.000151	0.000102	0.001448
Tungsten [mg/L]	0.00365	0.00434	0.00412	0.00344	0.00284	0.00375	0.00608	0.00289	0.00295	0.00170	0.00263	0.00390
Vanadium [mg/L]	0.00169	0.00139	0.00406	0.00190	0.00343	0.00219	0.00180	0.00206	0.00093	0.00142	0.00248	0.00142
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	25: ARDG-000260- TIR01B-10055 MS20-M	26: ARDG-000261- TIR01B-10055 MS20-M	27: ARDG-000262- TIR01B-10055 MS20-M	28: ARDG-000263- TIR01B-10055 MS20-M	29: ARDG-000264- TIR01B-10055 MS20-Kwa-s	30: ARDG-000265- TIR01B-10055 MS20-Kwa-s	31: ARDG-000266- TIR01B-10055 MS20-Kwa-s	32: ARDG-000267- TIR01B-10055 MS21-M	33: ARDG-000268- TIR01B-10055 MS21-M	34: ARDG-000269- TIR01B-10055 MS21-M	35: ARDG-000270- TIR01B-10055 MS21-Kwa-s	36: ARDG-000271- TIR01B-10055 MS21-Kwa-s
Sample weight [g]	250	250	250	250	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750	750	750	750	750	750

OnLine LIMS

0002982801



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Project : PO#1124452

LR Report : CA19106-JUN22

Analysis	25: ARDG-000260- TIR01B-10055 MS20-M	26: ARDG-000261- TIR01B-10055 MS20-M	27: ARDG-000262- TIR01B-10055 MS20-M	28: ARDG-000263- TIR01B-10055 MS20-M	29: ARDG-000264- TIR01B-10055 MS20-Kwa-s	30: ARDG-000265- TIR01B-10055 MS20-Kwa-s	31: ARDG-000266- TIR01B-10055 MS20-Kwa-s	32: ARDG-000267- TIR01B-10055 MS21-M	33: ARDG-000268- TIR01B-10055 MS21-M	34: ARDG-000269- TIR01B-10055 MS21-M	35: ARDG-000270- TIR01B-10055 MS21-Kwa-s	36: ARDG-000271- TIR01B-10055 MS21-Kwa-s
Final pH [no unit]	8.99	8.98	8.94	8.60	8.86	8.90	8.54	8.74	8.91	8.95	9.03	8.73
pH [No unit]	8.32	8.31	8.20	8.43	8.05	8.08	8.05	8.17	8.12	8.26	8.47	8.12
Conductivity [uS/cm]	396	317	260	2390	526	426	524	520	236	267	342	744
Alkalinity [mg/L as CaCO3]	160	140	153	160	139	92	81	153	146	140	155	144
Sulphate [mg/L]	16	11	29	66	63	66	76	37	16	21	37	130
Mercury [mg/L]	< 0.00001	0.00001	0.00003	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	0.00001
Silver [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	0.545	0.670	0.689	0.375	0.219	0.453	0.328	0.446	0.644	0.694	0.649	0.342
Arsenic [mg/L]	0.0021	0.0017	0.0007	0.0332	0.0012	0.101	0.0250	0.0325	0.0010	0.0009	0.0608	0.0715
Barium [mg/L]	0.00203	0.00168	0.00046	0.00784	0.0299	0.00692	0.00950	0.00416	0.00059	0.00072	0.00626	0.00694
Boron [mg/L]	0.031	0.027	0.025	0.035	0.060	0.029	0.025	0.038	0.024	0.028	0.024	0.042
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	11.5	10.6	11.2	14.9	43.1	14.1	24.5	15.8	10.7	10.4	13.8	15.8
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000003	< 0.000003
Cobalt [mg/L]	0.000019	0.000014	0.000019	0.000083	0.000829	0.000039	0.000120	0.000159	0.000032	0.000061	0.000054	0.000097
Chromium [mg/L]	< 0.00008	< 0.00008	0.00011	0.00009	< 0.00008	0.00016	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00010	< 0.00008
Copper [mg/L]	< 0.0002	< 0.0002	< 0.0002	0.0003	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Iron [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	6.18	5.54	2.30	22.1	24.6	22.8	24.3	9.18	2.46	2.65	25.2	26.2
Lithium [mg/L]	0.0021	0.0018	0.0023	0.0021	0.0048	0.0022	0.0025	0.0014	0.0017	0.0017	0.0021	0.0020
Magnesium [mg/L]	4.19	3.26	3.85	8.30	31.5	6.99	10.9	6.53	3.53	4.00	5.85	9.60
Manganese [mg/L]	0.00269	0.00239	0.00252	0.00623	0.0124	0.00390	0.01093	0.00302	0.00215	0.00216	0.00305	0.00782
Molybdenum [mg/L]	0.00326	0.00213	0.00231	0.00750	0.00277	0.00594	0.00912	0.00468	0.00439	0.00348	0.0135	0.0119
Sodium [mg/L]	64.8	50.4	41.7	71.7	371	52.1	60.7	78.8	36.8	44.1	40.3	125
Nickel [mg/L]	0.0002	0.0002	0.0001	0.0005	0.0002	0.0003	0.0007	0.0003	0.0002	0.0001	0.0005	0.0008
Lead [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00013	< 0.00009	0.00029	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00009	< 0.00009
Antimony [mg/L]	< 0.0009	< 0.0009	< 0.0009	0.0029	< 0.0009	0.0062	0.0033	0.0041	< 0.0009	< 0.0009	0.0065	0.0049
Selenium [mg/L]	0.00027	0.00017	0.00051	0.00123	0.00036	0.00066	0.00041	0.00065	0.00024	0.00034	0.00032	0.00039
Silicon [mg/L]	1.18	1.09	1.13	1.60	1.41	1.69	1.30	1.10	1.04	1.07	1.64	1.52
Tin [mg/L]	< 0.00006	0.00008	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	0.0269	0.0216	0.0156	0.102	0.216	0.0911	0.142	0.0494	0.0162	0.0167	0.104	0.103
Titanium [mg/L]	0.00008	< 0.00005	< 0.00005	0.00022	< 0.00005	0.00018	< 0.00005	0.00024	0.00005	< 0.00005	< 0.00005	0.00032
Thallium [mg/L]	0.000006	0.000005	< 0.000005	0.000017	0.000090	0.000015	0.000009	0.000012	< 0.000005	< 0.000005	0.000007	0.000013
Uranium [mg/L]	0.000018	0.000008	0.000009	0.000420	0.000061	0.000703	0.000501	0.000037	0.000530	0.000007	0.000728	0.000972
Tungsten [mg/L]	0.00219	0.00152	0.00142	0.00218	0.00115	0.00340	0.00226	0.00099	0.00144	0.00103	0.00419	0.00166
Vanadium [mg/L]	0.00110	0.00100	0.00096	0.00084	0.00075	0.00134	0.00037	0.00096	0.00096	0.00104	0.00163	0.00086

Online LIMS

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Analysis	25: ARDG-000260- TIR01B-10055 MS20-M	26: ARDG-000261- TIR01B-10055 MS20-M	27: ARDG-000262- TIR01B-10055 MS20-M	28: ARDG-000263- TIR01B-10055 MS20-M	29: ARDG-000264- TIR01B-10055 MS20-Kwa-s	30: ARDG-000265- TIR01B-10055 MS20-Kwa-s	31: ARDG-000266- TIR01B-10055 MS20-Kwa-s	32: ARDG-000267- TIR01B-10055 MS21-M	33: ARDG-000268- TIR01B-10055 MS21-M	34: ARDG-000269- TIR01B-10055 MS21-M	35: ARDG-000270- TIR01B-10055 MS21-Kwa-s	36: ARDG-000271- TIR01B-10055 MS21-Kwa-s
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	37: ARDG-000272- TIR01B-10055 MS21-Kwa-s	38: ARDG-000273- TIR01B-10055 MS21-Kwa-s	39: ARDG-000274	40: ARDG-000275	41: ARDG-000276	42: ARDG-000277	43: ARDG-000278	44: ARDG-000279	45: ARDG-000280	46: ARDG-000281	47: ARDG-000282
Sample weight [g]	250	250	250	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750	750	750	750	750
Final pH [no unit]	8.91	8.92	9.11	9.12	8.94	8.76	9.02	9.06	9.06	8.92	9.21
pH [No unit]	8.23	8.36	8.54	8.50	8.42	7.93	8.45	8.31	8.29	8.17	8.58
Conductivity [uS/cm]	385	448	324	296	367	530	290	275	342	343	282
Alkalinity [mg/L as CaCO3]	156	153	155	149	132	48	150	147	138	108	151
Sulphate [mg/L]	53	54	16	16	29	69	27	47	26	60	15
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00002	< 0.00001
Silver [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	0.509	0.485	0.673	0.651	0.587	0.352	0.591	0.639	0.565	0.471	0.683
Arsenic [mg/L]	0.114	0.106	0.171	0.171	0.0920	0.0392	0.112	0.0100	0.0979	0.0316	0.485
Barium [mg/L]	0.00525	0.00577	0.00304	0.00322	0.00345	0.00702	0.00287	0.00301	0.00382	0.00430	0.00466
Boron [mg/L]	0.021	0.021	0.023	0.021	0.020	0.025	0.015	0.014	0.017	0.017	0.017
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.00001	< 0.00001	0.00001	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	14.8	15.3	8.07	8.66	10.7	17.5	9.84	12.7	10.5	16.2	9.04
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Cobalt [mg/L]	0.000077	0.000083	0.000031	0.000031	0.000046	0.000106	0.000037	0.000022	0.000040	0.000084	0.000043
Chromium [mg/L]	< 0.00008	0.00010	< 0.00008	0.00011	< 0.00008	0.00009	< 0.00008	< 0.00008	< 0.00008	0.00009	< 0.00008
Copper [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Iron [mg/L]	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	28.4	27.0	33.1	27.9	25.5	25.5	22.2	23.5	22.2	23.7	24.0
Lithium [mg/L]	0.0022	0.0022	0.0015	0.0015	0.0012	0.0021	0.0014	0.0017	0.0013	0.0022	0.0025
Magnesium [mg/L]	6.88	7.82	3.43	3.70	4.40	9.53	4.00	5.30	4.23	7.98	3.62
Manganese [mg/L]	0.00426	0.00446	0.00091	0.00108	0.00163	0.00652	0.00195	0.00184	0.00116	0.00374	0.00125
Molybdenum [mg/L]	0.00959	0.0109	0.0127	0.0110	0.0107	0.0121	0.00934	0.00747	0.00899	0.0102	0.0125
Sodium [mg/L]	42.9	52.0	39.3	34.8	47.9	70.6	35.7	26.7	44.9	31.1	32.9
Nickel [mg/L]	0.0005	0.0005	0.0002	0.0003	0.0004	0.0008	0.0003	< 0.0001	0.0002	0.0003	0.0003
Lead [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00012	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Antimony [mg/L]	0.0059	0.0059	0.0093	0.0074	0.0050	0.0032	0.0046	0.0023	0.0053	0.0040	0.0078

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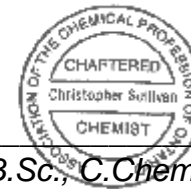
Analysis	37: ARDG-000272- TIR01B-10055 MS21-Kwa-s	38: ARDG-000273- TIR01B-10055 MS21-Kwa-s	39: ARDG-000274	40: ARDG-000275	41: ARDG-000276	42: ARDG-000277	43: ARDG-000278	44: ARDG-000279	45: ARDG-000280	46: ARDG-000281	47: ARDG-000282
Selenium [mg/L]	0.00039	0.00040	0.00013	0.00013	0.00034	0.00103	0.00040	0.00037	0.00025	0.00045	0.00013
Silicon [mg/L]	1.64	1.58	1.53	1.52	1.54	1.64	1.76	1.65	1.61	1.52	1.76
Tin [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	0.0843	0.0944	0.0417	0.0432	0.0621	0.105	0.0489	0.0553	0.0577	0.115	0.0479
Titanium [mg/L]	0.00012	0.00005	0.00015	< 0.00005	0.00022	0.00010	0.00020	0.00015	0.00005	0.00017	0.00007
Thallium [mg/L]	0.000012	0.000012	0.000017	0.000018	0.000009	0.000011	0.000006	0.000013	0.000007	0.000012	0.000012
Uranium [mg/L]	0.000458	0.000430	0.001441	0.000123	0.000128	0.000430	0.000299	0.000252	0.000090	0.000551	0.000319
Tungsten [mg/L]	0.00372	0.00359	0.00408	0.00351	0.00305	0.00360	0.00413	0.00579	0.00257	0.00462	0.00479
Vanadium [mg/L]	0.00126	0.00117	0.00227	0.00204	0.00172	0.00102	0.00222	0.00159	0.00191	0.00099	0.00341
Zinc [mg/L]	< 0.002	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320
Anions by discrete analyzer	ME-CA-[ENV]EWL-LAK-AN-026	US EPA 375.4
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
pH	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500

Chris Sullivan



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Project Specialist,
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Project : PO#1124452

LR Report : CA19106-JUN22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Alkalinity - QCBatchID: EWL0626-JUN22</i>													
Alkalinity	2	mg/L as Ca	< 2			ND	20	102	80	120	NA		
<i>Anions by discrete analyzer - QCBatchID: DIO5142-JUN22</i>													
Sulphate	2	mg/L	<2			2	20	112	80	120	92	75	125
<i>Anions by discrete analyzer - QCBatchID: DIO5150-JUN22</i>													
Sulphate	2	mg/L	<2			5	20	114	80	120	106	75	125
<i>Conductivity - QCBatchID: EWL0626-JUN22</i>													
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA		
<i>Conductivity - QCBatchID: EWL0658-JUN22</i>													
Conductivity	2	uS/cm	< 2			1	20	98	90	110	NA		
<i>Conductivity - QCBatchID: EWL0679-JUN22</i>													
Conductivity	2	uS/cm	< 2			0	20	97	90	110	NA		
<i>Inorganics-General - QCBatchID: EHG0058-JUN22</i>													
Mercury	0.00001	mg/L	< 0.00001			ND	20	90	80	120	92	70	130
<i>Inorganics-General - QCBatchID: EHG0062-JUN22</i>													
Mercury	0.00001	mg/L	< 0.00001			ND	20	99	80	120	99	70	130
<i>Metals - QCBatchID: EMS0282-JUN22</i>													
Cobalt	0.000004	mg/L	<0.000004			4	20	99	90	110	108	70	130
<i>Metals in aqueous samples - ICP-MS - QCBatchID: EMS0282-JUN22</i>													
Aluminum	0.001	mg/L	<0.001			1	20	104	90	110	113	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	112	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	100	90	110	122	70	130
Barium	0.00008	mg/L	<0.00002			1	20	97	90	110	95	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	98	90	110	97	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	100	70	130
Boron	0.002	mg/L	<0.002			6	20	100	90	110	95	70	130
Cadmium	0.000003	mg/L	<0.000003			18	20	99	90	110	111	70	130
Calcium	0.01	mg/L	<0.01			2	20	97	90	110	88	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	94	90	110	112	70	130
Copper	0.0002	mg/L	<0.0002			7	20	94	90	110	105	70	130
Iron	0.007	mg/L	<0.007			0	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00001			6	20	99	90	110	100	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	100	90	110	94	70	130
Magnesium	0.001	mg/L	<0.001			1	20	101	90	110	107	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	96	90	110	104	70	130
Molybdenum	0.00004	mg/L	<0.00004			0	20	97	90	110	100	70	130



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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
Nickel	0.0001	mg/L	<0.0001			1	20	102	90	110	115	70	130
Potassium	0.009	mg/L	<0.009			1	20	100	90	110	89	70	130
Selenium	0.00004	mg/L	<0.00004			14	20	96	90	110	112	70	130
Silicon	0.02	mg/L	<0.02			0	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	101	90	110	110	70	130
Sodium	0.01	mg/L	<0.01			1	20	108	90	110	105	70	130
Strontium	0.00008	mg/L	<0.00002			0	20	98	90	110	96	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	98	70	130
Tin	0.00006	mg/L	<0.00006			1	20	96	90	110	NV	70	130
Titanium	0.00005	mg/L	<0.00005			6	20	103	90	110	NV	70	130
Tungsten	0.00002	mg/L	<0.00002			1	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	95	90	110	97	70	130
Vanadium	0.00001	mg/L	<0.00001			10	20	99	90	110	116	70	130
Zinc	0.002	mg/L	<0.002			ND	20	98	90	110	119	70	130
<i>pH - QCBatchID: EWL0626-JUN22</i>													
pH	0.05	No unit	NA			0		100			NA		
<i>pH - QCBatchID: EWL0658-JUN22</i>													
pH	0.05	No unit	NA			0		100			NA		
<i>pH - QCBatchID: EWL0679-JUN22</i>													
pH	0.05	No unit	NA			0		100			NA		



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Project : PO#1124452

04-July-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 14 June 2022
LR Report: CA19104-JUN22

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, Nunavut
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis Time Completed	ARDG-000240-TI R01A-10020SU0 1-Kwa-s	ARDG-000241-TI R01A-10020SU0 1-Kwa-s	ARDG-000242-TI R01B-10050MS 02-Kwa-s	ARDG-000243-TI R01B-10050MS 02-Kwa-s
Sample Date & Time					05-May-22	05-May-22	14-May-22	14-May-22
Paste pH [no unit]	22-Jun-22	08:31	24-Jun-22	09:09	9.13	9.04	9.21	8.92
Fizz Rate [no unit]	22-Jun-22	08:31	24-Jun-22	09:09	4	4	4	4
Sample weight [g]	22-Jun-22	08:31	24-Jun-22	09:09	2.00	1.99	2.00	2.01
HCl_add [mL]	23-Jun-22	06:36	24-Jun-22	09:09	40.00	40.00	60.00	60.00
HCl [Normality]	22-Jun-22	08:31	24-Jun-22	09:09	0.10	0.10	0.10	0.10
NaOH [Normality]	22-Jun-22	08:31	24-Jun-22	09:09	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23-Jun-22	08:35	24-Jun-22	09:09	22.55	20.33	23.53	28.43
Final pH [no unit]	23-Jun-22	08:35	24-Jun-22	09:09	1.67	1.73	1.81	1.62
NP [t CaCO3/1000 t]	23-Jun-22	08:35	24-Jun-22	09:09	43.6	49.4	91.2	78.5
AP [t CaCO3/1000 t]	28-Jun-22	15:10	28-Jun-22	15:10	5.31	7.50	4.69	8.12
Net NP [t CaCO3/1000 t]	28-Jun-22	15:10	28-Jun-22	15:10	38.3	41.9	86.5	70.4
NP/AP [ratio]	28-Jun-22	15:10	28-Jun-22	15:10	8.21	6.59	19.5	9.66
S [%]	22-Jun-22	14:32	28-Jun-22	15:09	0.256	0.294	0.182	0.313
Acid Leachable SO4-S [%]	28-Jun-22	15:09	28-Jun-22	15:09	0.09	0.05	< 0.04	0.05
Sulphide [%]	23-Jun-22	09:51	28-Jun-22	15:09	0.17	0.24	0.15	0.26
C [%]	22-Jun-22	14:32	28-Jun-22	12:04	0.585	0.678	1.08	0.846
CO3 (HCl) [%]	27-Jun-22	10:11	28-Jun-22	12:04	2.37	2.88	4.80	3.87

Analysis	9:	10:	11:	12:	13:	14:	15:	16:
	ARDG-000244-TI R01B-10050MS 02-Kwa-s	ARDG-000245-TI R01B-10050MS 02-Kwa-s	ARDG-000246-TI R01B-10050MS 02-Kwa-s	ARDG-000247-TI R01B-10050MS 02-Kwa-s	ARDG-000248-TI R01B-10050MS 02-Kwa-s	ARDG-000249-TI R01B-10050MS 02-Kwa-s	ARDG-000250-TI R01B-10050MS 02-Kwa-s	ARDG-000251-TI R01B-10050MS 02-Kwa-s
Sample Date & Time	14-May-22	14-May-22	14-May-22	14-May-22	14-May-22	14-May-22	14-May-22	12-May-22
Paste pH [no unit]	9.00	9.19	9.08	9.24	9.14	9.11	9.32	9.15
Fizz Rate [no unit]	4	4	4	4	4	4	4	4
Sample weight [g]	2.02	1.99	2.00	1.98	2.01	2.01	2.00	1.98
HCl_add [mL]	40.00	100.00	40.00	90.00	40.00	40.00	40.00	40.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	25.05	46.43	28.26	46.45	19.22	18.68	21.44	20.10
Final pH [no unit]	1.55	1.60	1.50	1.60	1.74	1.95	1.65	1.87
NP [t CaCO3/1000 t]	37.0	135	29.3	110	51.7	53.0	46.4	50.3
AP [t CaCO3/1000 t]	4.38	5.31	6.88	5.62	5.62	4.06	4.06	5.31

Online LIMS

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Project : PO#1124452

LR Report : CA19104-JUN22

Analysis	9: ARDG-000244-T IR01B-10050MS 02-Kwa-s	10: ARDG-000245-T IR01B-10050MS 02-Kwa-s	11: ARDG-000246-T IR01B-10050MS 02-Kwa-s	12: ARDG-000247-T IR01B-10050MS 02-Kwa-s	13: ARDG-000248-T IR01B-10050MS 02-Kwa-s	14: ARDG-000249-T IR01B-10050MS 02-Kwa-s	15: ARDG-000250-T IR01B-10050MS 02-Kwa-s	16: ARDG-000251-T IR01B-10050MS 02-Kwa-s
Net NP [t CaCO3/1000 t]	32.6	129	22.4	104	46.1	48.9	42.3	45.0
NP/AP [ratio]	8.46	25.3	4.26	19.6	9.19	13.0	11.4	9.47
S [%]	0.172	0.214	0.251	0.220	0.233	0.197	0.176	0.214
Acid Leachable SO4-S [%]	< 0.04	0.04	< 0.04	0.04	0.05	0.07	0.05	0.04
Sulphide [%]	0.14	0.17	0.22	0.18	0.18	0.13	0.13	0.17
C [%]	0.491	1.39	0.391	1.28	0.803	0.755	0.745	0.755
CO3 (HCl) [%]	1.88	6.49	1.50	6.02	3.35	3.32	3.03	3.16

Analysis	17: ARDG-000252-T IR01B-10050MS 02-Kwa-s	18: ARDG-000253-T IR01B-10050MS 02-Kwa-s	19: ARDG-000254-T IR01B-10050MS 02-Kwa-s	20: ARDG-000255-T IR01B-10050MS 02-Kwa-s	21: ARDG-000256-T IR01B-10050MS 02-Kwa-s	22: ARDG-000257-T IR01B-10050MS 02-Kwa-s	23: ARDG-000258-T IR01B-10050MS 02-Kwa-s	24: ARDG-000259-T IR01B-10050MS 02-Kwa-s
Sample Date & Time	14-May-22	14-May-22	12-May-22	14-May-22	14-May-22	12-May-22	14-May-22	14-May-22
Paste pH [no unit]	9.28	9.13	9.07	9.05	8.94	9.05	9.09	8.96
Fizz Rate [no unit]	4	4	4	4	4	4	4	4
Sample weight [g]	2.00	2.02	2.01	2.01	1.99	2.01	2.02	1.98
HCl_add [mL]	40.00	40.00	40.00	55.00	40.00	40.00	40.00	40.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	19.01	20.79	18.53	30.90	25.94	22.25	20.61	18.87
Final pH [no unit]	1.85	1.91	1.87	1.55	1.51	1.89	1.81	1.87
NP [t CaCO3/1000 t]	52.5	47.5	53.4	59.9	35.3	44.2	48.0	53.4
AP [t CaCO3/1000 t]	4.69	3.75	10.6	3.75	6.88	4.38	3.75	4.38
Net NP [t CaCO3/1000 t]	47.8	43.8	42.8	56.2	28.4	39.8	44.2	49.0
NP/AP [ratio]	11.2	12.7	5.03	16.0	5.13	10.1	12.8	12.2
S [%]	0.210	0.144	0.412	0.036	0.280	0.205	0.176	0.174
Acid Leachable SO4-S [%]	0.06	< 0.04	0.07	< 0.04	0.06	0.06	0.06	< 0.04
Sulphide [%]	0.15	0.12	0.34	0.12	0.22	0.14	0.12	0.14
C [%]	0.791	0.685	0.862	0.161	0.490	0.658	0.696	0.746
CO3 (HCl) [%]	3.34	2.86	3.48	< 0.04	1.91	2.62	2.74	3.19

Analysis	25: ARDG-000260-T TIR01B-10055M S20-M	26: ARDG-000261-T TIR01B-10055M S20-M	27: ARDG-000262-T TIR01B-10055M S20-M	28: ARDG-000263-T TIR01B-10055M S20-M	29: ARDG-000264-T IR01B-10055MS 20-Kwa-s	30: ARDG-000265-T IR01B-10055MS 20-Kwa-s	31: ARDG-000266-T IR01B-10055M 20-Kwa-s	32: ARDG-000267-T TIR01B-10055M S21-M
Sample Date & Time	17-May-22	17-May-22	17-May-22	17-May-22	18-May-22	18-May-22	18-May-22	22-May-22
Paste pH [no unit]	8.77	8.87	9.04	8.20	8.94	8.96	8.83	8.73
Fizz Rate [no unit]	4	4	4	4	3	3	3	4
Sample weight [g]	2.02	1.98	2.00	2.02	2.01	1.99	2.02	2.00
HCl_add [mL]	160.00	160.00	180.00	120.00	40.00	50.00	50.00	160.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	62.37	70.18	70.55	35.61	19.16	26.61	22.92	70.13
Final pH [no unit]	1.64	1.56	1.59	1.92	1.74	1.56	1.67	1.66
NP [t CaCO3/1000 t]	242	227	274	209	51.8	58.8	67.0	225
AP [t CaCO3/1000 t]	6.25	5.94	7.19	6.56	10.9	8.12	11.6	3.44
Net NP [t CaCO3/1000 t]	235	221	266	202	40.9	50.7	55.4	221
NP/AP [ratio]	38.7	38.2	38.1	31.8	4.74	7.24	5.79	65.4
S [%]	0.247	0.214	0.264	0.247	0.380	0.290	0.417	0.131
Acid Leachable SO4-S [%]	0.05	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	0.05	< 0.04

Analysis	25: ARDG-000260- TIR01B-10055M S20-M	26: ARDG-000261- TIR01B-10055M S20-M	27: ARDG-000262- TIR01B-10055M S20-M	28: ARDG-000263- TIR01B-10055M S20-M	29: ARDG-000264-T IR01B-10055MS 20-Kwa-s	30: ARDG-000265-T IR01B-10055MS 20-Kwa-s	31: ARDG-000266-T IR01B-10055MS 20-Kwa-s	32: ARDG-000267- TIR01B-10055M S21-M
Sulphide [%]	0.20	0.19	0.23	0.21	0.35	0.26	0.37	0.11
C [%]	3.22	3.08	3.60	2.84	0.810	0.811	0.863	3.37
CO3 (HCl) [%]	15.6	15.1	17.6	13.7	3.57	3.47	3.84	16.5

Analysis	33: ARDG-000268- TIR01B-10055M S21-M	34: ARDG-000269- TIR01B-10055M S21-M	35: ARDG-000270-T IR01B-10055MS 21-Kwa-s	36: ARDG-000271-T IR01B-10055MS 21-Kwa-s	37: ARDG-000272-T IR01B-10055MS 21-Kwa-s	38: ARDG-000273-T IR01B-10055MS 21-Kwa-s	39: ARDG-000274	40: ARDG-000275
Sample Date & Time	22-May-22	22-May-22	22-May-22	22-May-22	22-May-22	22-May-22	N/A	N/A
Paste pH [no unit]	8.95	8.98	9.11	8.88	9.05	9.16	9.21	9.15
Fizz Rate [no unit]	4	4	3	2	2	3	3	3
Sample weight [g]	2.00	1.98	1.99	2.00	2.02	2.02	2.01	1.99
HCl_add [mL]	160.00	160.00	80.00	55.00	55.00	55.00	35.00	45.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	64.50	71.75	36.08	34.45	25.17	23.41	16.81	24.32
Final pH [no unit]	1.61	1.59	1.58	1.50	1.68	1.78	1.84	1.57
NP [t CaCO3/1000 t]	239	223	110	51.4	73.8	78.2	45.3	52.0
AP [t CaCO3/1000 t]	4.06	3.75	4.06	7.50	5.00	5.94	3.44	4.06
Net NP [t CaCO3/1000 t]	235	219	106	43.9	68.8	72.3	41.9	47.9
NP/AP [ratio]	58.8	59.4	27.2	6.85	14.8	13.2	13.2	12.8
S [%]	0.161	0.145	0.186	0.279	0.224	0.233	0.172	0.175
Acid Leachable SO4-S [%]	< 0.04	< 0.04	0.06	< 0.04	0.06	0.04	0.06	0.04
Sulphide [%]	0.13	0.12	0.13	0.24	0.16	0.19	0.11	0.13
C [%]	3.20	3.17	1.44	0.716	1.09	1.12	0.591	0.662
CO3 (HCl) [%]	15.5	15.4	6.75	3.23	4.91	5.23	2.63	3.04

Analysis	41: ARDG-000276	42: ARDG-000277	43: ARDG-000278	44: ARDG-000279	45: ARDG-000280	46: ARDG-000281	47: ARDG-000282
Sample Date & Time	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paste pH [no unit]	9.07	8.84	9.07	9.14	9.11	9.09	9.30
Fizz Rate [no unit]	2	2	2	3	3	3	3
Sample weight [g]	2.00	2.00	1.99	2.02	2.02	2.00	1.99
HCl_add [mL]	50.00	50.00	35.00	55.00	50.00	55.00	50.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	27.31	27.30	15.56	27.03	24.37	23.82	25.36
Final pH [no unit]	1.52	1.61	1.85	1.57	1.65	1.80	1.58
NP [t CaCO3/1000 t]	56.7	56.8	48.9	69.2	63.4	78.0	61.9
AP [t CaCO3/1000 t]	3.75	6.56	3.75	6.56	3.12	7.50	6.25
Net NP [t CaCO3/1000 t]	53.0	50.2	45.2	62.6	60.3	70.5	55.6
NP/AP [ratio]	15.1	8.66	13.0	10.5	20.3	10.4	9.90
S [%]	0.173	0.250	0.210	0.293	0.153	0.333	0.309
Acid Leachable SO4-S [%]	0.05	0.04	0.09	0.08	0.05	0.09	0.11
Sulphide [%]	0.12	0.21	0.12	0.21	0.10	0.24	0.20
C [%]	0.672	0.697	0.697	0.875	0.879	1.10	0.871
CO3 (HCl) [%]	3.03	3.22	2.93	4.01	3.86	5.16	4.00

ABA - Modified Sobek

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mel

Project : PO#1124452**LR Report :** CA19104-JUN22

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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



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Project : PO#1124452

05-July-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 09 June 2022
LR Report: CA19129-JUN22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000283 -TIR01B-1005 OMS04-kwa-s	ARDG-000284 -TIR01B-1005 OMS04-kwa-s	ARDG-000285 -TIR01B-1005 OMS04-kwa-s
Sample Date & Time					29-May-22	29-May-22	29-May-22
Paste pH [no unit]	16-Jun-22	08:31	20-Jun-22	17:26	9.04	9.14	9.12
Fizz Rate [no unit]	16-Jun-22	08:31	20-Jun-22	17:26	2	3	3
Sample weight [g]	16-Jun-22	08:31	20-Jun-22	17:26	2.01	2.02	1.98
HCl_add [mL]	17-Jun-22	06:33	20-Jun-22	17:26	30.00	40.00	50.00
HCl [Normality]	16-Jun-22	08:31	20-Jun-22	17:26	0.10	0.10	0.10
NaOH [Normality]	16-Jun-22	08:31	20-Jun-22	17:26	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17-Jun-22	11:07	20-Jun-22	17:26	16.05	18.49	25.50
Final pH [no unit]	17-Jun-22	11:07	20-Jun-22	17:26	1.71	1.84	1.65
NP [t CaCO3/1000 t]	17-Jun-22	11:07	20-Jun-22	17:26	34.7	53.2	61.9
AP [t CaCO3/1000 t]	29-Jun-22	09:52	29-Jun-22	09:53	4.69	6.56	5.00
Net NP [t CaCO3/1000 t]	29-Jun-22	09:52	29-Jun-22	09:53	30.0	46.6	56.9
NP/AP [ratio]	29-Jun-22	09:52	29-Jun-22	09:53	7.40	8.11	12.4
S [%]	24-Jun-22	15:09	29-Jun-22	09:52	0.188	0.252	0.202
Acid Leachable SO4-S [%]	29-Jun-22	09:52	29-Jun-22	09:52	< 0.04	0.04	0.04
Sulphide [%]	28-Jun-22	13:05	29-Jun-22	09:52	0.15	0.21	0.16
C [%]	24-Jun-22	15:09	28-Jun-22	13:34	0.459	0.682	0.768
CO3 (HCl) [%]	28-Jun-22	08:49	28-Jun-22	13:34	1.75	2.85	3.34

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000286 -TIR01B-1005 OMS04-kwa-s	ARDG-000287 -TIR01B-1005 OMS04-kwa-s	ARDG-000288 -TIR01B-1005 OMS04-kwa-s	ARDG-000289 -TIR01B-1005 OMS04-kwa-s	ARDG-000290 -TIR01B-1005 OMS04-kwa-s	ARDG-000291 -TIR01B-1005 OMS04-kwa-s
Sample Date & Time	29-May-22	31-May-22	31-May-22	31-May-22	30-May-22	31-May-22
Paste pH [no unit]	9.14	9.16	8.98	8.98	9.07	9.03
Fizz Rate [no unit]	3	3	3	3	3	3
Sample weight [g]	2.01	2.02	2.01	2.00	2.02	2.01

Online LIMS

0002962644

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000286	ARDG-000287	ARDG-000288	ARDG-000289	ARDG-000290	ARDG-000291
	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005
	OMS04-kwa-s	OMS04-kwa-s	OMS04-kwa-s	OMS04-kwa-s	OMS04-kwa-s	OMS04-kwa-s
HCl_add [mL]	50.00	50.00	50.00	50.00	50.00	55.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26.75	25.99	25.99	22.93	26.23	27.41
Final pH [no unit]	1.67	1.65	1.68	1.81	1.72	1.66
NP [t CaCO3/1000 t]	57.8	59.4	59.7	67.7	58.8	68.6
AP [t CaCO3/1000 t]	4.38	5.94	3.75	6.56	4.38	6.25
Net NP [t CaCO3/1000 t]	53.4	53.5	56.0	61.1	54.4	62.4
NP/AP [ratio]	13.2	10.0	15.9	10.3	13.4	11.0
S [%]	0.198	0.247	0.175	0.268	0.201	0.264
Acid Leachable SO4-S [%]	0.06	0.06	0.06	0.06	0.06	0.06
Sulphide [%]	0.14	0.19	0.12	0.21	0.14	0.20
C [%]	0.702	0.758	0.741	0.866	0.817	0.902
CO3 (HCl) [%]	3.12	3.43	3.21	3.82	3.49	4.12

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000283-T ARD01B-10050MS 04-kwa-s	ARDG-000284-T ARD01B-10050MS 04-kwa-s	ARDG-000285-T ARD01B-10050MS 04-kwa-s	ARDG-000286-T ARD01B-10050MS 04-kwa-s	ARDG-000287-T ARD01B-10050MS 04-kwa-s
Sample Date & Time					29-May-22	29-May-22	29-May-22	29-May-22	31-May-22
Ag [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	67000	73000	81000	85000	80000
As [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	55	29	140	240	97
Ba [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	680	780	720	1100	750
Be [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	1	0.96	1	1	1
Bi [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	0.15	0.15	0.27	0.30	0.31
Ca [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	10000	19000	18000	14000	16000
Cd [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	0.21	0.09	0.14	0.15	0.13
Co [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	23	26	22	25	25
Cr [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	140	150	200	180	160
Cu [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	57	65	50	56	60
Fe [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	38000	44000	37000	43000	39000
K [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	18000	14000	18000	23000	20000
Li [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	29	31	27	31	28
Mg [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	14000	16000	13000	16000	14000
Mn [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	370	550	430	450	360
Mo [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	4.3	6.2	12	5.9	5.3
Ni [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	68	67	67	81	72
Pb [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	10	10	29	38	26
Sb [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	240	280	440	390	370
Ti [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	3000	3500	1700	3200	1400
Tl [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	0.34	0.35	0.45	0.59	0.49
U [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	1.08	1.15	1.65	1.90	1.67
V [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	90	110	84	110	89
Y [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	4.31	7.53	7.79	6.96	7.20
Zn [µg/g]	28-Jun-22	21:49	04-Jul-22	14:21	86	81	83	97	83

SGS Canada Inc.

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

Project : PO#1124452

LR Report : CA19130-JUN22

Analysis	10: ARDG-000288-T IR01B-10050MS 04-kwa-s	11: ARDG-000289-T IR01B-10050MS 04-kwa-s	12: ARDG-000290-T IR01B-10050MS 04-kwa-s	13: ARDG-000291-T IR01B-10050MS 04-kwa-s
Sample Date & Time	31-May-22	31-May-22	30-May-22	31-May-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	93000	83000	81000	81000
As [µg/g]	190	120	99	100
Ba [µg/g]	760	1100	850	1300
Be [µg/g]	1	1	1	1
Bi [µg/g]	0.20	0.16	0.23	0.16
Ca [µg/g]	16000	17000	16000	18000
Cd [µg/g]	0.12	0.16	0.11	0.14
Co [µg/g]	26	26	26	23
Cr [µg/g]	300	170	640	120
Cu [µg/g]	60	58	60	56
Fe [µg/g]	47000	43000	46000	43000
K [µg/g]	23000	23000	22000	23000
Li [µg/g]	34	31	33	33
Mg [µg/g]	18000	17000	16000	17000
Mn [µg/g]	530	450	450	450
Mo [µg/g]	17	5.1	29	5.2
Ni [µg/g]	88	77	83	78
Pb [µg/g]	21	16	13	20
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	350	470	380	480
Ti [µg/g]	1900	2400	1300	2400
Tl [µg/g]	0.54	0.56	0.51	0.59
U [µg/g]	1.77	1.84	1.78	1.88
V [µg/g]	120	110	110	96
Y [µg/g]	7.84	7.50	7.09	7.37
Zn [µg/g]	97	96	94	96

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



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Project : PO#1124452

05-July-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 09 June 2022
LR Report: CA19131-JUN22
Reference: Meliadine

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	Analysis ARDG-000283-T IR01B-10050MS	Analysis ARDG-000284-T IR01B-10050MS	Analysis ARDG-000285-T IR01B-10050MS	Analysis ARDG-000286-T IR01B-10050MS	Analysis ARDG-000286-T IR01B-10050MS
				04-kwa-s	04-kwa-s	04-kwa-s	04-kwa-s	04-kwa-s
Sample Date & Time				29-May-22	29-May-22	29-May-22	29-May-22	29-May-22
Sample weight [g]	13-Jun-22	16:05	14-Jun-22	16:19	250	250	250	250
Volume D.I. Water [mL]	13-Jun-22	16:05	14-Jun-22	16:19	750	750	750	750
Final pH [no unit]	14-Jun-22	14:43	14-Jun-22	16:19	9.09	9.04	9.18	9.18
pH [No unit]	15-Jun-22	08:22	16-Jun-22	08:50	8.34	8.04	8.49	8.52
Conductivity [uS/cm]	15-Jun-22	08:22	16-Jun-22	08:50	556	365	273	294
Alkalinity [mg/L as CaCO3]	15-Jun-22	08:22	16-Jun-22	08:50	55	46	61	59
SO4 [mg/L]	15-Jun-22	21:50	20-Jun-22	15:57	36	39	16	14
Hg [mg/L]	17-Jun-22	09:51	17-Jun-22	17:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.408	0.483	0.721	0.590
As [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.123	0.0144	0.0796	0.130
Ba [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.00761	0.0122	0.00332	0.00443
B [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.047	0.032	0.027	0.026
Be [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	8.35	13.5	9.61	9.02
Cd [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.000012	0.000063	0.000012	0.000006
Co [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.000045	0.000035	0.000038	0.000080
Cr [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.00021	0.00013	< 0.00008	< 0.00008
Cu [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.0005	0.0005	0.0034	0.0004
Fe [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.019	0.008	< 0.007	0.008
K [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	24.1	20.1	21.2	25.2
Li [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.0017	0.0019	0.0015	0.0011
Mg [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	4.18	4.21	3.17	3.12
Mn [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.00177	0.00188	0.00119	0.00113
Mo [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.0115	0.00683	0.00639	0.00759
Na [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	82.7	43.9	31.1	34.0
Ni [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.0004	0.0001	0.0001	0.0002
Pb [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.00014	0.00099	0.00036	0.00024
Sb [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.0060	0.0076	0.0103	0.0082
Se [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.00044	0.00046	0.00049	0.00014
Si [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	2.04	1.84	1.73	1.48
Sn [mg/L]	21-Jun-22	09:32	24-Jun-22	11:05	0.00007	0.00007	0.00007	0.00007

Online LIMS

0002962654



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SGS Canada Inc.

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

Project : PO#1124452

LR Report : CA19131-JUN22

Table with 9 columns: Analysis, 1: Analysis Start Date, 2: Analysis Start Time, 3: Analysis Completed Date, 4: Analysis Completed Time, 5: ARDG-000283-T IR01B-10050MS 04-kwa-s, 6: ARDG-000284-T IR01B-10050MS 04-kwa-s, 7: ARDG-000285-T IR01B-10050MS 04-kwa-s, 8: ARDG-000286-T IR01B-10050MS 04-kwa-s. Rows include Sr, Ti, Tl, U, W, V, Zn concentrations.

Table with 6 columns: Analysis, 9: ARDG-000287-T IR01B-10050MS 04-kwa-s, 10: ARDG-000288-T IR01B-10050MS 04-kwa-s, 11: ARDG-000289-T IR01B-10050MS 04-kwa-s, 12: ARDG-000290-T IR01B-10050MS 04-kwa-s, 13: ARDG-000291-T IR01B-10050MS 04-kwa-s. Rows include Sample Date & Time, Sample weight, Volume D.I. Water, Final pH, pH, Conductivity, Alkalinity, SO4, and various metal concentrations (Hg, Ag, Al, As, Ba, B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, U, W).

OnLine LIMS

0002962654

SGS Canada Inc.

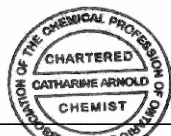
P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - K0L 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#1124452

LR Report : CA19131-JUN22

Analysis	9: ARDG-000287-T IR01B-10050MS 04-kwa-s	10: ARDG-000288-T IR01B-10050MS 04-kwa-s	11: ARDG-000289-T IR01B-10050MS 04-kwa-s	12: ARDG-000290-T IR01B-10050MS 04-kwa-s	13: ARDG-000291-T IR01B-10050MS 04-kwa-s
V [mg/L]	0.00221	0.00153	0.00162	0.00192	0.00162
Zn [mg/L]	< 0.002	0.002	< 0.002	0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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



SGS Canada Inc.

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Agnico Eagle Mines Limited

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ABA - Modified Sobek

Project : PO#1124452

20-July-2022

Date Rec. : 22 June 2022
LR Report: CA19224-JUN22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000292 TIR01B-10055M S23-Kwa-s	ARDG-000293-T IR01B-10055MS 23-Kwa-s	ARDG-000294-T IR01B-10050MS 30-Kwa-s	ARDG-000295-T IR01B-10050MS 30-Kwa-s	ARDG-000297-T IR01B-10050MS 30-Kwa-s	ARDG-000298-T IR01B-10050MS 30-Kwa-s	ARDG-000299-T IR01B-10050MS 05-Kwa-s	ARDG-000299-T IR01B-10050MS 05-Kwa-s
Sample Date & Time					03-Jun-22	03-Jun-22	06-Jun-22	06-Jun-22	09-Jun-22	09-Jun-22	14-Jun-22	14-Jun-22
Paste pH [no unit]	27-Jun-22	08:00	28-Jun-22	14:31	9.45	9.25	9.30	9.24	9.34	9.28	8.94	9.23
Fizz Rate [no unit]	27-Jun-22	08:00	28-Jun-22	14:31	3	3	4	4	2	3	3	3
Sample weight [g]	27-Jun-22	08:00	28-Jun-22	14:31	2.01	1.98	1.98	1.99	1.99	1.98	2.00	1.98
HCl Added [mL]	28-Jun-22	06:09	28-Jun-22	14:31	38.60	37.90	205.00	165.00	27.70	40.00	28.80	41.40
HCl [Normality]	27-Jun-22	08:00	28-Jun-22	14:31	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	27-Jun-22	08:00	28-Jun-22	14:31	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	28-Jun-22	08:00	28-Jun-22	14:31	18.05	19.04	53.36	61.47	13.38	20.18	11.48	17.04
Final pH [no unit]	28-Jun-22	08:00	28-Jun-22	14:31	1.62	1.57	1.66	1.54	1.61	1.53	1.88	1.70
NP [t CaCO3/1000 t]	28-Jun-22	08:00	28-Jun-22	14:31	51.1	47.6	383	260	36.0	50.1	43.3	61.5
AP [t CaCO3/1000 t]	08-Jul-22	16:48	08-Jul-22	16:48	8.44	4.06	4.69	6.88	5.94	5.31	4.69	4.38
Net NP [t CaCO3/1000 t]	08-Jul-22	16:48	08-Jul-22	16:48	42.7	43.5	378	253	30.1	44.8	38.6	57.1
NP/AP [ratio]	08-Jul-22	16:48	08-Jul-22	16:48	6.06	11.7	81.7	37.8	6.06	9.4	9.24	14.1
Sulphur (total) [%]	07-Jul-22	10:06	08-Jul-22	16:48	0.357	0.210	0.320	0.311	0.273	0.269	0.228	0.254
Acid Leachable SO4-S [%]	08-Jul-22	16:47	08-Jul-22	16:48	0.09	0.08	0.17	0.09	0.08	0.10	0.08	0.11
Sulphide [%]	08-Jul-22	13:23	08-Jul-22	16:48	0.27	0.13	0.15	0.22	0.19	0.17	0.15	0.14
Carbon (total) [%]	07-Jul-22	10:06	08-Jul-22	16:48	0.765	0.762	4.68	3.36	0.526	0.781	0.695	0.928
Carbonate (HCl) [%]	08-Jul-22	10:32	08-Jul-22	16:48	3.40	3.31	23.2	16.5	2.42	3.23	2.98	4.26



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ABA - Modified Sobek

Project : PO#1124452

LR Report : CA19224-JUN22

Analysis	13:	14:	15:
	ARDG-000300-T IR01B-10050MS 05-Kwa-s	ARDG-000301-T IR01B-10050MS 05-Kwa-s	ARDG-000302-T IR01B-10050MS 05-Kwa-s
Sample Date & Time	14-Jun-22	14-Jun-22	14-Jun-22
Paste pH [no unit]	9.30	9.31	9.09
Fizz Rate [no unit]	3	3	3
Sample weight [g]	1.99	2.00	1.99
HCl Added [mL]	40.20	42.10	41.30
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	16.90	19.17	16.92
Final pH [no unit]	1.70	1.60	1.66
NP [t CaCO3/1000 t]	58.5	57.3	61.3
AP [t CaCO3/1000 t]	4.69	5.00	5.94
Net NP [t CaCO3/1000 t]	53.8	52.3	55.4
NP/AP [ratio]	12.5	11.5	10.3
Sulphur (total) [%]	0.262	0.231	0.294
Acid Leachable SO4-S [%]	0.11	0.07	0.10
Sulphide [%]	0.15	0.16	0.19
Carbon (total) [%]	0.895	0.811	0.902
Carbonate (HCl) [%]	4.04	3.64	4.20

ABA - Modified Sobek

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

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

$$*Net NP \text{ (Net Neutralization Potential)} = NP - AP$$

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

*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	ASTM E1915-07A
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	ASTM E1915-07A
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	ARD Prediction Manual, 2009

Chris Sullivan



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ABA - Modified Sobek

Project : PO#1124452

LR Report : CA19224-JUN22

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
							%		Low	High		Low	High
<i>Carbon/Sulphur - QCBatchID: ECS0005-JUL22</i>													
Sulphide	0.04	%	< 0.04			9	20	100	80	120			
<i>Carbon/Sulphur - QCBatchID: ECS0020-JUL22</i>													
Carbon (total)	0.005	%	<0.005			3	20				99	70	130
Sulphur (total)	0.005	%	<0.005			3	20				101	70	130
<i>Carbon/Sulphur - QCBatchID: ECS0026-JUL22</i>													
Carbonate (HCl)	0.04	%	<0.04			0	20	98	80	120			



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mel

20-July-2022

Date Rec. : 22 June 2022

LR Report: CA19225-JUN22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis Date Completed Time	ARDG-000292 ARD-000293-T -TIR01B-10055 MS23-Kwa-s	ARDG-000293-T ARD-000294-T IR01B-10055MS 23-Kwa-s	ARDG-000294-T ARD-000295-T IR01B-10050MS 30-Kwa-s	ARDG-000295-T ARD-000296-T IR01B-10050MS 30-Kwa-s	ARDG-000296-T ARD-000297-T IR01B-10050MS 30-Kwa-s	ARDG-000297-T ARD-000298-T IR01B-10050MS 30-Kwa-s	ARDG-000298-T ARD-000299-T IR01B-10050MS 05-Kwa-s	ARDG-000299-T IR01B-10050MS 05-Kwa-s
Sample Date & Time					03-Jun-22	03-Jun-22	06-Jun-22	06-Jun-22	09-Jun-22	09-Jun-22	14-Jun-22	14-Jun-22
Silver [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	68000	63000	52000	71000	56000	60000	59000	55000
Arsenic [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	170	810	13	31	25	83	71	230
Barium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	820	660	63	96	720	840	750	710
Beryllium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	1	1	0.32	0.40	1	1	1	1.00
Bismuth [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	0.61	0.28	< 0.09	< 0.09	0.24	0.29	0.27	0.40
Calcium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	13000	13000	160000	100000	9900	12000	12000	17000
Cadmium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	0.16	0.12	0.18	0.14	0.06	0.13	0.12	0.15
Cobalt [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	23	21	41	49	19	21	20	18
Chromium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	120	110	130	220	140	110	87	68
Copper [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	53	40	87	110	39	51	49	45
Iron [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	56000	50000	60000	70000	40000	42000	38000	33000
Potassium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	23000	18000	3600	5300	19000	20000	18000	16000
Lithium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	42	34	47	62	35	33	32	20
Magnesium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	17000	14000	18000	22000	14000	14000	13000	11000
Manganese [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	380	370	3100	2100	260	320	330	350
Molybdenum [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	1.9	2.0	0.3	0.6	1.9	1.6	1.9	1.7
Nickel [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	79	66	94	120	68	69	66	54
Lead [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	160	14	3	3	29	14	20	75

Online LIMS

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LR Report : CA19225-JUN22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: ARDG-000292 -TIR01B-10055 MS23-Kwa-s	6: ARDG-000293-T IR01B-10055MS 23-Kwa-s	7: ARDG-000294-T IR01B-10050MS 30-Kwa-s	8: ARDG-000295-T IR01B-10050MS 30-Kwa-s	9: ARDG-000296-T IR01B-10050MS 30-Kwa-s	10: ARDG-000297-T IR01B-10050MS 30-Kwa-s	11: ARDG-000298-T IR01B-10050MS 05-Kwa-s	12: ARDG-000299-T IR01B-10050MS 05-Kwa-s
Antimony [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	300	310	120	120	300	300	320	430
Titanium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	3000	2600	840	860	870	2100	1100	2200
Thallium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	0.54	0.44	0.15	0.22	0.50	0.48	0.43	0.43
Uranium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	1.65	1.88	0.067	0.088	0.98	1.46	1.06	0.69
Vanadium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	120	94	180	240	96	85	81	70
Yttrium [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	6.46	5.90	13.0	8.92	4.21	5.75	4.91	3.77
Zinc [µg/g]	29-Jun-30	13:39	08-Jul-22	14:56	100	85	66	86	81	78	84	75

Analysis	13: ARDG-000300-T IR01B-10050MS 05-Kwa-s	14: ARDG-000301-T IR01B-10050MS 05-Kwa-s	15: ARDG-000302-T IR01B-10050MS 05-Kwa-s
Sample Date & Time	14-Jun-22	14-Jun-22	14-Jun-22
Silver [µg/g]	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	60000	71000	53000
Arsenic [µg/g]	300	48	320
Barium [µg/g]	740	1000	570
Beryllium [µg/g]	1	1	1
Bismuth [µg/g]	0.49	0.25	0.21
Calcium [µg/g]	16000	18000	16000
Cadmium [µg/g]	0.16	0.13	0.12
Cobalt [µg/g]	19	23	19
Chromium [µg/g]	67	76	76
Copper [µg/g]	45	55	44
Iron [µg/g]	34000	40000	33000
Potassium [µg/g]	17000	19000	16000
Lithium [µg/g]	22	35	20
Magnesium [µg/g]	11000	15000	10000
Manganese [µg/g]	350	370	350
Molybdenum [µg/g]	2.1	1.8	1.8

OnLine LIMS

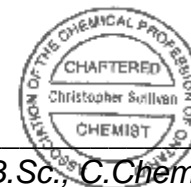
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Analysis	13: ARDG-000300-T IR01B-10050MS 05-Kwa-s	14: ARDG-000301-T IR01B-10050MS 05-Kwa-s	15: ARDG-000302-T IR01B-10050MS 05-Kwa-s
Nickel [µg/g]	58	77	57
Lead [µg/g]	140	25	30
Antimony [µg/g]	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	< 0.7	< 0.7
Tin [µg/g]	< 6	< 6	< 6
Strontium [µg/g]	430	530	310
Titanium [µg/g]	2100	2800	2400
Thallium [µg/g]	0.46	0.53	0.42
Uranium [µg/g]	0.76	1.32	0.70
Vanadium [µg/g]	73	87	70
Yttrium [µg/g]	4.22	6.52	3.67
Zinc [µg/g]	75	73	73

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-013	EPA 3052/200.8

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LR Report : CA19225-JUN22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0032-JUL22</i>													
Tin	6	µg/g	<6			ND	20	107	70	130	99	70	130
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0279-JUN22</i>													
Aluminum	3	µg/g	<3			8	20	92	70	130	89	70	130
Antimony	0.8	µg/g	<0.8			ND	20	101	70	130	107	70	130
Arsenic	0.5	µg/g	<0.5			4	20	93	70	130	104	70	130
Barium	0.01	µg/g	<0.01			3	20	102	70	130	100	70	130
Beryllium	0.02	µg/g	<0.02			1	20	95	70	130	79	70	130
Bismuth	0.09	µg/g	<0.09			19	20	91	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			2	20	96	70	130	NV	70	130
Chromium	0.5	µg/g	<0.5			17	20	94	70	130	89	70	130
Cobalt	0.01	µg/g	<0.01			2	20	95	70	130	100	70	130
Copper	0.1	µg/g	<0.1			7	20	94	70	130	106	70	130
Iron	3	µg/g	<3			3	20	109	70	130	111	70	130
Lead	0.05	µg/g	<0.05			12	20	101	70	130	102	70	130
Lithium	2	µg/g	<2			0	20	103	70	130	100	70	130
Magnesium	3	µg/g	<3			4	20	108	70	130	109	70	130
Manganese	0.1	µg/g	<0.1			6	20	96	70	130	101	70	130
Molybdenum	0.1	µg/g	<0.1			4	20	95	70	130	93	70	130
Nickel	0.1	µg/g	<0.1			4	20	91	70	130	111	70	130
Selenium	0.7	µg/g	<0.7			ND	20	102	70	130	NV	70	130
Silver	0.5	µg/g	<0.01			10	20	92	70	130	NV	70	130
Strontium	0.02	µg/g	<0.02			6	20	95	70	130	103	70	130
Thallium	0.02	µg/g	<0.02			0	20	99	70	130	NV	70	130
Tin	6	µg/g	<6			ND	20	103	70	130	NV	70	130
Titanium	0.1	µg/g	<0.1			3	20	92	70	130	81	70	130
Uranium	0.002	µg/g	<0.002			4	20	96	70	130	84	70	130
Vanadium	1	µg/g	<1			1	20	95	70	130	105	70	130
Yttrium	0.004	µg/g	<0.004			9	20	108	70	130	NV	70	130
Zinc	0.7	µg/g	<0.7			4	20	94	70	130	102	70	130



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SFE 3:1 ratio 24hr (MEND) prefilter pH

20-July-2022

Date Rec. : 22 June 2022
LR Report: CA19226-JUN22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000292 ARD-000293-T -TIR01B-10055 MS23-Kwa-s	ARDG-000293-T ARD-000294-T IR01B-10055MS 23-Kwa-s	ARDG-000294-T ARD-000295-T IR01B-10050MS 30-Kwa-s	ARDG-000295-T ARD-000297-T IR01B-10050MS 30-Kwa-s	ARDG-000297-T ARD-000298-T IR01B-10050MS 30-Kwa-s	ARDG-000298-T ARD-000299-T IR01B-10050MS 30-Kwa-s	ARDG-000299-T IR01B-10050MS 05-Kwa-s	ARDG-000299-T IR01B-10050MS 05-Kwa-s
Sample Date & Time					03-Jun-22	03-Jun-22	06-Jun-22	06-Jun-22	09-Jun-22	09-Jun-22	14-Jun-22	14-Jun-22
Sample weight [g]	04-Jul-22	01:21	05-Jul-22	13:41	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	04-Jul-22	01:21	05-Jul-22	13:41	750	750	750	750	750	750	750	750
Final pH [no unit]	05-Jul-22	12:20	05-Jul-22	13:41	8.53	8.89	8.88	8.95	8.90	9.14	8.76	9.06
pH [No unit]	29-Jun-22	14:57	06-Jul-22	15:51	8.12	8.17	8.00	8.13	8.07	8.14	8.09	8.16
Conductivity [uS/cm]	29-Jun-22	14:57	06-Jul-22	11:55	509	347	265	234	381	269	476	342
Alkalinity [mg/L as CaCO3]	29-Jun-22	14:57	06-Jul-22	11:55	76	58	52	61	57	59	66	66
Sulphate [mg/L]	30-Jun-22	16:02	07-Jul-22	10:37	75	36	19	24	45	25	47	31
Mercury [mg/L]	06-Jul-22	11:21	30-Jun-22	18:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	0.300	0.526	0.597	0.652	0.506	0.663	0.353	0.581
Arsenic [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	0.0133	0.0804	0.0029	0.0010	0.0076	0.0880	0.0655	0.0862
Barium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	0.00978	0.00470	0.00095	0.00084	0.00477	0.00354	0.00677	0.00572
Boron [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	0.028	0.044	0.028	0.019	0.031	0.021	0.023	0.023
Beryllium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	24.1	12.8	12.1	11.0	12.8	9.89	17.3	12.8
Cadmium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	0.000004
Cobalt [mg/L]	05-Jul-22	19:15	08-Jul-22	09:29	0.000109	0.000083	0.000029	0.000014	0.000346	0.000040	0.000169	0.000062

Online LIMS

0002982747



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SFE 3:1 ratio 24hr (MEND) prefilter pH

LR Report : CA19226-JUN22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000292 -TIR01B-10055 MS23-Kwa-s	6: ARDG-000293-T IR01B-10055MS 23-Kwa-s	7: ARDG-000294-T IR01B-10050MS 30-Kwa-s	8: ARDG-000295-T IR01B-10050MS 30-Kwa-s	9: ARDG-000296-T IR01B-10050MS 30-Kwa-s	10: ARDG-000297-T IR01B-10050MS 30-Kwa-s	11: ARDG-000298-T IR01B-10050MS 05-Kwa-s	12: ARDG-000299-T IR01B-10050MS 05-Kwa-s
Chromium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00011	< 0.00008	< 0.00008
Copper [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.0025	< 0.0002	< 0.0002	< 0.0002	0.0002	0.0002	0.0004	< 0.0002
Iron [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	< 0.007	0.008	< 0.007	< 0.007	0.011	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	30.6	22.3	5.80	4.08	24.6	23.4	26.7	23.7
Lithium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.0026	0.0015	0.0011	0.0021	0.0016	0.0013	0.0020	0.0019
Magnesium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	11.7	4.80	2.83	4.23	5.65	3.72	8.31	6.00
Manganese [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.00914	0.00205	0.00373	0.00343	0.00372	0.00121	0.00604	0.00304
Molybdenum [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.0144	0.00601	0.00908	0.00722	0.00851	0.00634	0.0145	0.0153
Sodium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	50.9	36.8	39.1	36.5	48.2	31.1	58.0	40.3
Nickel [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.0007	0.0004	0.0002	0.0001	0.0003	0.0003	0.0010	0.0004
Lead [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.00020	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00119
Antimony [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.0049	0.0059	< 0.0009	< 0.0009	0.0026	0.0107	0.0061	0.0071
Selenium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.00064	0.00038	0.00026	0.00039	0.00030	0.00024	0.00075	0.00087
Silicon [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	1.35	1.47	0.90	1.08	1.42	1.51	1.48	1.58
Tin [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.00010	< 0.00006	< 0.00006	0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.134	0.0672	0.0216	0.0139	0.0802	0.0492	0.105	0.0826
Titanium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	< 0.00005	0.00035	0.00012	< 0.00005	0.00007	< 0.00005	< 0.00005	0.00014
Thallium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.000010	0.000008	< 0.000005	< 0.000005	0.000017	0.000007	0.000021	0.000012
Uranium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.000439	0.000317	0.000009	0.000010	0.000276	0.002158	0.000361	0.000419
Tungsten [mg/L]	05-Jul-22	19:15	08-Jul-22	09:30	0.00334	0.00192	0.00115	0.00120	0.00265	0.00257	0.00212	0.00506
Vanadium [mg/L]	05-Jul-22	19:15	08-Jul-22	09:31	0.00027	0.00095	0.00095	0.00130	0.00088	0.00182	0.00069	0.00141
Zinc [mg/L]	05-Jul-22	19:15	08-Jul-22	09:31	0.003	0.003	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	13: ARDG-000300-T IR01B-10050MS 05-Kwa-s	14: ARDG-000301-T IR01B-10050MS 05-Kwa-s	15: ARDG-000302-T IR01B-10050MS 05-Kwa-s	16: ARDG-000293-T IR01B-10055MS 23-Kwa-s	17:BLK: \$D.I. Leachate Blank
Sample Date & Time	14-Jun-22	14-Jun-22	14-Jun-22		
Sample weight [g]	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750
Final pH [no unit]	9.11	9.16	8.87	8.90	5.67
pH [No unit]	8.26	8.20	8.10	8.42	5.93
Conductivity [uS/cm]	307	263	380	352	9



SGS Canada Inc.

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

LR Report :

CA19226-JUN22


Analysis	13: ARDG-000300-T IR01B-10050MS 05-Kwa-s	14: ARDG-000301-T IR01B-10050MS 05-Kwa-s	15: ARDG-000302-T IR01B-10050MS 05-Kwa-s	16: ARDG-000293-T IR01B-10055MS 23-Kwa-s	17:BLK: \$D.I. Leachate Blank
Alkalinity [mg/L as CaCO3]	67	63	61	57	2
Sulphate [mg/L]	30	25	58	36	< 2
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	---	---
Silver [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	0.585	0.598	0.519	0.535	0.004
Arsenic [mg/L]	0.102	0.0686	0.0508	0.0787	0.0010
Barium [mg/L]	0.00500	0.00727	0.00633	0.00496	0.00010
Boron [mg/L]	0.022	0.021	0.023	0.037	0.011
Beryllium [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bismuth [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	11.8	10.1	17.5	13.0	0.04
Cadmium [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000004	< 0.000003
Cobalt [mg/L]	0.000067	0.000051	0.000093	0.000068	0.000010
Chromium [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Copper [mg/L]	< 0.0002	0.0002	0.0003	< 0.0002	< 0.0002
Iron [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	24.4	25.3	22.7	22.0	2.04
Lithium [mg/L]	0.0016	0.0018	0.0026	0.0015	< 0.0001
Magnesium [mg/L]	5.37	4.09	8.59	4.84	0.004
Manganese [mg/L]	0.00255	0.00123	0.00807	0.00226	0.00029
Molybdenum [mg/L]	0.0152	0.0115	0.0125	0.00622	< 0.00004
Sodium [mg/L]	34.3	27.9	41.0	37.9	0.04
Nickel [mg/L]	0.0004	0.0004	0.0007	0.0004	< 0.0001
Lead [mg/L]	0.00149	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Antimony [mg/L]	0.0075	0.0138	0.0056	0.0060	< 0.0009
Selenium [mg/L]	0.00092	0.00048	0.00079	0.00036	< 0.00004
Silicon [mg/L]	1.56	1.57	1.52	1.47	< 0.02
Tin [mg/L]	0.00012	< 0.00006	< 0.00006	< 0.00006	0.00008
Strontium [mg/L]	0.0740	0.0790	0.0926	0.0703	< 0.00008
Titanium [mg/L]	0.00030	0.00017	0.00015	0.00019	0.00013
Thallium [mg/L]	0.000012	0.000015	0.000015	0.000006	< 0.000005
Uranium [mg/L]	0.000442	0.000231	0.00108	0.000227	0.000002
Tungsten [mg/L]	0.00546	0.00365	0.00303	0.00202	< 0.00002
Vanadium [mg/L]	0.00159	0.00217	0.00097	0.00097	< 0.00001

Analysis	13:	14:	15:	16:	17:BLK:
	ARDG-000300-T	ARDG-000301-T	ARDG-000302-T	ARDG-000293-T	\$D.I. Leachate
	IR01B-10050MS	IR01B-10050MS	IR01B-10050MS	IR01B-10055MS	Blank
	05-Kwa-s	05-Kwa-s	05-Kwa-s	23-Kwa-s	
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320
Anions by discrete analyzer	ME-CA-[ENV]EWL-LAK-AN-026	US EPA 375.4
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
pH	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500

Chris Sullivan

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

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Alkalinity - QCBatchID: EWL0053-JUL22</i>													
Alkalinity	2	mg/L as Ca	< 2			ND	20	102	80	120	NA		
<i>Alkalinity - QCBatchID: EWL0658-JUN22</i>													
Alkalinity	2	mg/L as Ca	< 2			2	20	100	80	120	NA		
<i>Anions by discrete analyzer - QCBatchID: DIO5017-JUL22</i>													
Sulphate	2	mg/L	<2			3	20	113	80	120	99	75	125
<i>Anions by discrete analyzer - QCBatchID: DIO5150-JUN22</i>													
Sulphate	2	mg/L	<2			5	20	114	80	120	106	75	125
<i>Conductivity - QCBatchID: EWL0053-JUL22</i>													
Conductivity	2	uS/cm	< 2			0	20	100	90	110	NA		
<i>Conductivity - QCBatchID: EWL0658-JUN22</i>													
Conductivity	2	uS/cm	< 2			1	20	98	90	110	NA		
<i>Inorganics-General - QCBatchID: EHG0005-JUL22</i>													
Mercury	0.00001	mg/L	< 0.00001			ND	20	NV	80	120	102	70	130
<i>Inorganics-General - QCBatchID: EHG0062-JUN22</i>													
Mercury	0.00001	mg/L	< 0.00001			ND	20	99	80	120	99	70	130
<i>Metals - QCBatchID: EMS0039-JUL22</i>													
Cobalt	0.000004	mg/L	<0.000004			1	20	100	90	110	96	70	130
<i>Metals - QCBatchID: EMS0282-JUN22</i>													
Cobalt	0.000004	mg/L	<0.000004			4	20	99	90	110	108	70	130
<i>Metals in aqueous samples - ICP-MS - QCBatchID: EMS0039-JUL22</i>													
Aluminum	0.001	mg/L	<0.001			9	20	96	90	110	75	70	130
Antimony	0.0009	mg/L	<0.0009			7	20	108	90	110	108	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	99	90	110	106	70	130
Barium	0.00008	mg/L	<0.00008			2	20	94	90	110	95	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	93	90	110	86	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	92	90	110	70	70	130
Boron	0.002	mg/L	<0.002			6	20	96	90	110	93	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	97	90	110	109	70	130
Calcium	0.01	mg/L	<0.01			4	20	102	90	110	97	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	103	90	110	124	70	130
Copper	0.0002	mg/L	<0.0002			5	20	96	90	110	72	70	130
Iron	0.007	mg/L	<0.007			2	20	103	90	110	125	70	130
Lead	0.00009	mg/L	<0.00009			ND	20	97	90	110	91	70	130
Lithium	0.0001	mg/L	<0.0001			4	20	94	90	110	78	70	130
Magnesium	0.001	mg/L	<0.001			2	20	103	90	110	102	70	130

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate			LCS / Spike Blank			Matrix Spike / Reference Material			
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
Manganese	0.00001	mg/L	<0.00001			1	20	97	90	110	94	70	130
Molybdenum	0.00004	mg/L	<0.00004			2	20	100	90	110	98	70	130
Nickel	0.0001	mg/L	<0.0001			3	20	97	90	110	105	70	130
Potassium	0.009	mg/L	<0.009			5	20	101	90	110	95	70	130
Selenium	0.00004	mg/L	<0.00004			6	20	101	90	110	125	70	130
Silicon	0.02	mg/L	<0.02			2	20	95	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			6	20	94	90	110	85	70	130
Sodium	0.01	mg/L	<0.01			2	20	104	90	110	100	70	130
Strontium	0.00008	mg/L	<0.00002			1	20	99	90	110	98	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	90	90	110	87	70	130
Tin	0.00006	mg/L	<0.00006			13	20	97	90	110	NV	70	130
Titanium	0.00005	mg/L	<0.00005			ND	20	103	90	110	NV	70	130
Tungsten	0.00002	mg/L	<0.00002			4	20	95	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	92	90	110	85	70	130
Vanadium	0.00001	mg/L	<0.00001			0	20	98	90	110	111	70	130
Zinc	0.002	mg/L	<0.002			6	20	99	90	110	95	70	130
<i>Metals in aqueous samples - ICP-MS - QCBatchID: EMS0282-JUN22</i>													
Aluminum	0.001	mg/L	<0.001			1	20	104	90	110	113	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	108	90	110	112	70	130
Arsenic	0.0002	mg/L	<0.0002			2	20	100	90	110	122	70	130
Barium	0.00008	mg/L	<0.00002			1	20	97	90	110	95	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	98	90	110	97	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	94	90	110	100	70	130
Boron	0.002	mg/L	<0.002			6	20	100	90	110	95	70	130
Cadmium	0.000003	mg/L	<0.000003			18	20	99	90	110	111	70	130
Calcium	0.01	mg/L	<0.01			2	20	97	90	110	88	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	94	90	110	112	70	130
Copper	0.0002	mg/L	<0.0002			7	20	94	90	110	105	70	130
Iron	0.007	mg/L	<0.007			0	20	100	90	110	100	70	130
Lead	0.00009	mg/L	<0.00001			6	20	99	90	110	100	70	130
Lithium	0.0001	mg/L	<0.0001			3	20	100	90	110	94	70	130
Magnesium	0.001	mg/L	<0.001			1	20	101	90	110	107	70	130
Manganese	0.00001	mg/L	<0.00001			1	20	96	90	110	104	70	130
Molybdenum	0.00004	mg/L	<0.00004			0	20	97	90	110	100	70	130
Nickel	0.0001	mg/L	<0.0001			1	20	102	90	110	115	70	130
Potassium	0.009	mg/L	<0.009			1	20	100	90	110	89	70	130
Selenium	0.00004	mg/L	<0.00004			14	20	96	90	110	112	70	130
Silicon	0.02	mg/L	<0.02			0	20	96	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	101	90	110	110	70	130



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Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
Sodium	0.01	mg/L	<0.01			1	20	108	90	110	105	70	130
Strontium	0.00008	mg/L	<0.00002			0	20	98	90	110	96	70	130
Thallium	0.000005	mg/L	<0.000005			ND	20	95	90	110	98	70	130
Tin	0.00006	mg/L	<0.00006			1	20	96	90	110	NV	70	130
Titanium	0.00005	mg/L	<0.00005			6	20	103	90	110	NV	70	130
Tungsten	0.00002	mg/L	<0.00002			1	20	99	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			1	20	95	90	110	97	70	130
Vanadium	0.00001	mg/L	<0.00001			10	20	99	90	110	116	70	130
Zinc	0.002	mg/L	<0.002			ND	20	98	90	110	119	70	130
<i>pH - QCBatchID: EWL0053-JUL22</i>													
pH	0.05	No unit	NA			0		100			NA		
<i>pH - QCBatchID: EWL0067-JUL22</i>													
pH	0.05	No unit	NA			0		100			NA		
<i>pH - QCBatchID: EWL0658-JUN22</i>													
pH	0.05	No unit	NA			0		100			NA		



SGS Canada Inc.

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Project : PO#1124452

05-August-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 08 July 2022

LR Report: CA19018-JUL22

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000303 -TIR01B-1005 OMS31-Kwa-s	ARDG-000304 -TIR01B-1005 OMS31-Kwa-s	ARDG-000305 -TIR01B-1005 OMS31-Kwa-s
Sample Date & Time					25-Jun-22	25-Jun-22	25-Jun-22
Paste pH [no unit]	20-Jul-22	16:30	22-Jul-22	09:19	8.96	9.16	9.04
Fizz Rate [no unit]	20-Jul-22	16:30	22-Jul-22	09:19	4	4	4
Sample weight [g]	20-Jul-22	16:30	22-Jul-22	09:19	2.01	2.00	1.99
HCl_add [mL]	21-Jul-22	14:31	22-Jul-22	09:19	60.00	40.00	55.00
HCl [Normality]	20-Jul-22	16:30	22-Jul-22	09:19	0.10	0.10	0.10
NaOH [Normality]	20-Jul-22	16:30	22-Jul-22	09:19	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	21-Jul-22	17:38	22-Jul-22	09:19	29.22	19.63	28.71
Final pH [no unit]	21-Jul-22	17:38	22-Jul-22	09:19	1.61	1.76	1.55
NP [t CaCO3/1000 t]	21-Jul-22	17:38	22-Jul-22	09:19	76.6	50.9	66.1
AP [t CaCO3/1000 t]	03-Aug-22	12:30	03-Aug-22	12:30	9.06	6.88	7.81
Net NP [t CaCO3/1000 t]	03-Aug-22	12:30	03-Aug-22	12:30	67.5	44.0	58.3
NP/AP [ratio]	03-Aug-22	12:30	03-Aug-22	12:30	8.45	7.40	8.46
S [%]	29-Jul-22	08:52	03-Aug-22	12:30	0.315	0.247	0.275
Acid Leachable SO4-S [%]	03-Aug-22	12:30	03-Aug-22	12:30	< 0.04	< 0.04	< 0.04
Sulphide [%]	29-Jul-22	17:04	03-Aug-22	12:30	0.29	0.22	0.25
C [%]	29-Jul-22	08:52	02-Aug-22	18:12	1.16	0.796	0.969
CO3 (HCl) [%]	02-Aug-22	07:08	02-Aug-22	18:12	5.35	3.35	4.40

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000306 -TIR01B-1005 OMS31-Kwa-s	ARDG-000307 -TIR01B-1008 50MS32-M	ARDG-000308 -TIR01B-100 50MS32-M	ARDG-000309 -TIR01B-1005 OMS32-Kwa-s	ARDG-000310 -TIR01B-1005 OMS32-Kwa-s	ARDG-000311 -TIR01B-1005 OMS32-Kwa-s
Sample Date & Time	25-Jun-22	29-Jun-22	29-Jun-22	30-Jun-22	30-Jun-22	01-Jul-22
Paste pH [no unit]	9.19	9.08	9.05	9.04	8.92	9.06
Fizz Rate [no unit]	4	4	4	4	4	4
Sample weight [g]	2.01	2.01	2.01	2.00	2.01	2.02

Online LIMS

0003001334

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000306	ARDG-00030	ARDG-00030	ARDG-000309	ARDG-000310	ARDG-000311
	-TIR01B-10057	-TIR01B-1008	-TIR01B-100	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005
	OMS31-Kwa-s	50MS32-M	50MS32-M	OMS32-Kwa-s	OMS32-Kwa-s	OMS32-Kwa-s
HCl_add [mL]	60.00	65.00	185.00	40.00	40.00	40.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	36.71	21.61	80.84	20.22	23.30	20.88
Final pH [no unit]	1.51	1.80	1.63	1.68	1.54	1.66
NP [t CaCO3/1000 t]	57.9	108	259	49.4	41.5	47.3
AP [t CaCO3/1000 t]	8.12	7.19	2.19	6.56	6.25	6.88
Net NP [t CaCO3/1000 t]	49.8	101	257	42.8	35.2	40.4
NP/AP [ratio]	7.13	15.0	118	7.53	6.64	6.88
S [%]	0.302	0.228	0.082	0.219	0.242	0.252
Acid Leachable SO4-S [%]	0.04	< 0.04	< 0.04	< 0.04	0.04	< 0.04
Sulphide [%]	0.26	0.23	0.07	0.21	0.20	0.22
C [%]	0.886	1.43	3.84	0.744	0.616	0.728
CO3 (HCl) [%]	3.99	6.59	18.6	3.22	2.67	3.21

ABA - Modified Sobek

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

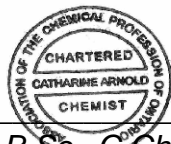
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Meliadine
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Project : PO#1124452

16-August-2022

Date Rec. : 08 July 2022

LR Report: CA19019-JUL22

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: ARDG-000303 -TIR01B-1005 OMS31-Kwa-s	6: ARDG-000304 -TIR01B-1005 OMS31-Kwa-s	7: ARDG-000305 -TIR01B-1005 OMS31-Kwa-s	8: ARDG-000306 -TIR01B-1005 OMS31-Kwa-s	9: ARDG-00030 50MS32-M	10: ARDG-00030 50MS32-M
Sample Date & Time					25-Jun-22	25-Jun-22	25-Jun-22	25-Jun-22	29-Jun-22	29-Jun-22
Ag [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	65000	64000	66000	63000	66000	63000
As [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	310	300	190	2300	400	110
Ba [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	700	930	1100	990	600	200
Be [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1.13	1.32	1.20	1.51	1.01	0.44
Bi [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	0.17	0.29	0.27	0.34	0.19	0.12
Ca [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	18000	11000	15000	11000	33000	81000
Cd [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	0.22	0.15	0.18	0.15	0.09	0.14
Co [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	15	17	16	19	20	39
Cr [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	78	85	82	126	139	116
Cu [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	18	41	35	29	42	71
Fe [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	24000	30000	26000	32000	33000	51000
K [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	20000	20000	20000	21000	19000	5500
Li [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	17	31	22	36	34	51
Mg [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	8200	11000	9600	12000	9500	16000

OnLine LIMS

0003013642



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Project : PO#1124452

LR Report : CA19019-JUL22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000303 -TIR01B-1005 OMS31-Kwa-s	6: ARDG-000304 -TIR01B-1005 OMS31-Kwa-s	7: ARDG-000305 -TIR01B-1005 OMS31-Kwa-s	8: ARDG-000306 -TIR01B-10057- OMS31-Kwa-s	9: ARDG-00030 50MS32-M	10: ARDG-00030 50MS32-M
Mn [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	270	300	300	340	430	1500
Mo [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1.6	1.4	1.4	2.4	1.1	2.9
Ni [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	48	53	50	61	60	92
Pb [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	20	52	39	42	10	27
Sb [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1.3	< 0.8	< 0.8	1.5	1.3	< 0.8
Se [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	9.6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	310	290	330	290	160	230
Ti [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	2300	2600	2400	2700	1400	2100
Tl [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	0.57	0.57	0.52	0.63	0.81	0.24
U [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1.36	1.69	1.38	1.52	1.08	0.094
V [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	77	82	77	98	110	210
Y [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	4.78	4.56	4.38	4.48	8.48	8.28
Zn [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	63	77	59	88	57	80

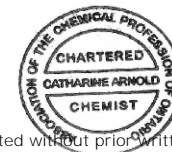
Analysis	11: ARDG-000309 -TIR01B-1005 OMS32-Kwa-s	12: ARDG-000310 -TIR01B-1005 OMS32-Kwa-s	13: ARDG-000311 -TIR01B-1005 OMS32-Kwa-s
Sample Date & Time	30-Jun-22	30-Jun-22	01-Jul-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5
Al [µg/g]	68000	66000	67000
As [µg/g]	320	90	240
Ba [µg/g]	830	600	830
Be [µg/g]	1.31	1.04	1.17
Bi [µg/g]	0.17	0.16	0.18
Ca [µg/g]	11000	9400	11000

Online LIMS

0003013642

Analysis	11: ARDG-000309 -TIR01B-1005 OMS32-Kwa-s	12: ARDG-000310 -TIR01B-1005 OMS32-Kwa-s	13: ARDG-000311 -TIR01B-1005 OMS32-Kwa-s
Cd [µg/g]	0.17	0.13	0.16
Co [µg/g]	16	18	16
Cr [µg/g]	67	85	61
Cu [µg/g]	36	43	40
Fe [µg/g]	27000	32000	27000
K [µg/g]	18000	17000	17000
Li [µg/g]	28	30	27
Mg [µg/g]	11000	11000	10000
Mn [µg/g]	320	320	310
Mo [µg/g]	1.6	1.3	1.6
Ni [µg/g]	50	56	50
Pb [µg/g]	28	13	23
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]	310	220	300
Ti [µg/g]	2500	2500	2400
Tl [µg/g]	0.51	0.39	0.50
U [µg/g]	1.51	1.36	1.48
V [µg/g]	76	84	71
Y [µg/g]	4.88	5.09	4.56
Zn [µg/g]	72	74	70

Catharine Arnold





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Project : PO#1124452

LR Report : CA19019-JUL22

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



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Project : PO#1124452

08-August-2022

Date Rec. : 08 July 2022
LR Report: CA19020-JUL22
Reference: Meliadine

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: ARDG-000303 -TIR01B-1005 OMS31-Kwa-s	6: ARDG-000304 -TIR01B-1005 OMS31-Kwa-s	7: ARDG-000305 -TIR01B-1005 OMS31-Kwa-s	8: ARDG-000306 -TIR01B-1005 OMS31-Kwa-s	9: ARDG-000307 -TIR01B-1005 OMS32-M
Sample Date & Time					25-Jun-22	25-Jun-22	25-Jun-22	25-Jun-22	29-Jun-22
Sample weight [g]	18-Jul-22	07:05	19-Jul-22	09:49	250	250	250	250	250
Volume D.I. Water [mL]	18-Jul-22	07:05	19-Jul-22	09:49	750	750	750	750	750
Final pH [no unit]	19-Jul-22	07:20	19-Jul-22	09:49	8.92	8.93	8.82	8.96	9.01
pH [No unit]	19-Jul-22	14:33	20-Jul-22	10:17	8.51	8.24	8.23	8.38	8.28
Conductivity [uS/cm]	19-Jul-22	14:33	20-Jul-22	10:17	403	338	489	335	322
Alkalinity [mg/L as CaCO3]	19-Jul-22	14:33	20-Jul-22	10:17	62	64	58	60	55
SO4 [mg/L]	22-Jul-22	17:08	25-Jul-22	11:10	49	44	77	45	49
Hg [mg/L]	21-Jul-22	07:04	22-Jul-22	10:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.509	0.541	0.424	0.561	0.518
As [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.249	0.249	0.111	0.348	0.256
Ba [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00428	0.00505	0.00998	0.00549	0.00282
B [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.025	0.022	0.028	0.023	0.085
Be [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007

OnLine LIMS

0003003755



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Project : PO#1124452

LR Report : CA19020-JUL22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000303 -TIR01B-1005 OMS31-Kwa-s	ARDG-000304 -TIR01B-1005 OMS31-Kwa-s	ARDG-000305 -TIR01B-1005 OMS31-Kwa-s	ARDG-000306 -TIR01B-1005 OMS31-Kwa-s	ARDG-000307 -TIR01B-1005 OMS32-M
Bi [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	14.9	13.2	18.8	14.0	8.88
Cd [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.000005	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.000060	0.000061	0.000135	0.000035	0.000092
Cr [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.0002	< 0.0002	0.0003	< 0.0002	< 0.0002
Fe [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.007	< 0.007	< 0.007	< 0.007	0.009
K [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	25.1	24.9	25.9	23.3	15.9
Li [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.0022	0.0021	0.0026	0.0019	0.0012
Mg [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	6.18	5.41	8.61	5.37	2.52
Mn [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00339	0.00217	0.00788	0.00210	0.00130
Mo [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.0138	0.0197	0.0118	0.00920	0.00980
Na [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	40.2	32.8	51.5	32.1	42.6
Ni [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.0005	0.0005	0.0008	0.0003	0.0005
Pb [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.00009	< 0.00009	0.00032	< 0.00009	< 0.00009
Sb [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.0077	0.0077	0.0051	0.0074	0.0199
Se [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00066	0.00024	0.00108	0.00049	0.00176
Si [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	2.11	1.95	1.94	1.87	1.87
Sn [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.0741	0.0633	0.108	0.0703	0.0414
Ti [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00009	0.00010	< 0.00005	< 0.00005	0.00029
Tl [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.000013	0.000016	0.000013	0.000013	0.000011
U [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00102	0.000551	0.00177	0.000390	0.000436
W [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00626	0.00391	0.00327	0.00516	0.00220
V [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	0.00172	0.00170	0.00089	0.00213	0.00279
Zn [mg/L]	21-Jul-22	19:04	22-Jul-22	15:14	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



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Project : PO#1124452

LR Report : CA19020-JUL22


Analysis	10:	11:	12:	13:
	ARDG-000308	ARDG-000309	ARDG-000310	ARDG-000311
	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005	-TIR01B-1005
	OMS32-M	OMS32-Kwa-s	OMS32-Kwa-s	OMS32-Kwa-s
Sample Date & Time	29-Jun-22	30-Jun-22	30-Jun-22	01-Jul-22
Sample weight [g]	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	8.89	8.91	8.83	8.89
pH [No unit]	8.39	8.25	8.19	8.27
Conductivity [uS/cm]	281	408	389	386
Alkalinity [mg/L as CaCO3]	75	62	62	59
SO4 [mg/L]	18	48	58	48
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.615	0.472	0.449	0.490
As [mg/L]	0.0520	0.260	0.0808	0.227
Ba [mg/L]	0.00119	0.00591	0.00464	0.00555
B [mg/L]	0.029	0.022	0.025	0.018
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10.9	13.2	16.1	13.4
Cd [mg/L]	< 0.000003	< 0.000003	0.000006	0.000005
Co [mg/L]	0.000052	0.000094	0.000074	0.000117
Cr [mg/L]	0.00013	< 0.00008	< 0.00008	0.00012
Cu [mg/L]	< 0.0002	< 0.0002	0.0003	< 0.0002
Fe [mg/L]	0.015	< 0.007	< 0.007	< 0.007
K [mg/L]	4.05	23.0	18.8	21.8
Li [mg/L]	0.0016	0.0025	0.0014	0.0025
Mg [mg/L]	4.71	6.32	6.80	6.25
Mn [mg/L]	0.00293	0.00448	0.00429	0.00473
Mo [mg/L]	0.00266	0.0152	0.0138	0.0135
Na [mg/L]	41.0	45.0	40.7	40.5

OnLine LIMS

0003003755

Analysis	10: ARDG-000308 -TIR01B-1005 OMS32-M	11: ARDG-000309 -TIR01B-1005 OMS32-Kwa-s	12: ARDG-000310 -TIR01B-1005 OMS32-Kwa-s	13: ARDG-000311 -TIR01B-1005 OMS32-Kwa-s
Ni [mg/L]	0.0002	0.0005	0.0006	0.0005
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0028	0.0080	0.0060	0.0081
Se [mg/L]	0.00058	0.00043	0.00049	0.00037
Si [mg/L]	1.37	2.02	1.76	1.96
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0262	0.0703	0.0708	0.0653
Ti [mg/L]	0.00065	0.00009	< 0.00005	0.00010
Tl [mg/L]	< 0.000005	0.000013	0.000009	0.000010
U [mg/L]	0.000019	0.000870	0.000630	0.000684
W [mg/L]	0.00103	0.00299	0.00148	0.00271
V [mg/L]	0.00123	0.00193	0.00096	0.00193
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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Environment, Health & Safety



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Project : PO#1124452

16-August-2022

Date Rec. : 08 July 2022
LR Report: CA19022-JUL22

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: Open pit waste rock, Tiri-1
Sample Date & Time					01-Jul-22 08:00
CN(T) [µg/g]	22-Jul-22	10:13	26-Jul-22	09:29	< 10
CN(Free) [µg/g]	20-Jul-22	14:24	20-Jul-22	14:56	< 0.05
CNWAD [µg/g]	22-Jul-22	10:13	26-Jul-22	09:29	< 10
Ag [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	< 0.5
Al [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	66000
As [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	320
Ba [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	790
Be [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1
Bi [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	0.27
Ca [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	18000
Cd [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	0.14
Co [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	14
Cr [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	76
Cu [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	30
Fe [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	36000
K [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	16000
Li [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	25
Mg [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	10000
Mn [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	400
Mo [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1.2
Ni [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	42
Pb [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	21
Sb [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	< 0.8
Se [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	< 0.7
Sn [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	< 6
Sr [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	370
Ti [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1600
Tl [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	0.47

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mel

Project : PO#1124452

LR Report : CA19022-JUL22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Open pit waste rock, Tiri-1
U [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	1.64
V [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	76
Y [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	6.96
Zn [µg/g]	07-Aug-22	16:23	08-Aug-22	16:39	66

Catharine Arnold
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Project : PO#1124452

29-August-2022

Date Rec. : 29 July 2022
LR Report: CA19218-JUL22

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CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000312 -TIR01B-1005 OMS33-Ksc-w a	6: ARDG-000313 -TIR01B-1005 OMS33-Kwa-s	7: ARDG-000314 -TIR01B-1005 OMS33-Kwa-s	8: ARDG-000315 -TIR01B-1005 OMS06-Kwa-s	9: ARDG-000316 -TIR01B-1005 OMS06-Kwa-s
Sample Date & Time					08-Jul-22	11-Jul-22	11-Jul-22	15-Jul-22	15-Jul-22
Paste pH [no unit]	11-Aug-22	08:00	12-Aug-22	17:05	8.41	8.71	8.55	8.96	9.09
Fizz Rate [no unit]	11-Aug-22	08:00	12-Aug-22	17:05	3	2	3	2	3
Sample weight [g]	11-Aug-22	08:00	12-Aug-22	17:05	2.02	1.95	2.10	1.83	2.06
HCl_add [mL]	12-Aug-22	06:02	12-Aug-22	17:05	50.00	40.00	35.00	35.00	35.00
HCl [Normality]	11-Aug-22	08:00	12-Aug-22	17:05	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	11-Aug-22	08:00	12-Aug-22	17:05	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	12-Aug-22	08:00	12-Aug-22	17:05	22.05	21.74	16.21	13.87	17.31
Final pH [no unit]	12-Aug-22	06:02	12-Aug-22	17:05	1.62	1.53	1.82	1.87	1.70
NP [t CaCO3/1000 t]	12-Aug-22	08:00	12-Aug-22	17:05	69.2	46.8	44.7	57.7	42.9
AP [t CaCO3/1000 t]	25-Aug-22	16:57	25-Aug-22	16:57	4.69	4.06	5.31	5.31	3.75
Net NP [t CaCO3/1000 t]	25-Aug-22	16:57	25-Aug-22	16:57	64.5	42.7	39.4	52.4	39.2
NP/AP [ratio]	25-Aug-22	16:57	25-Aug-22	16:57	14.8	11.5	8.41	10.9	11.4
S [%]	14-Aug-22	13:16	23-Aug-22	10:34	0.204	0.169	0.206	0.257	0.176
Acid Leachable SO4-S [%]	25-Aug-22	16:56	25-Aug-22	16:57	0.05	< 0.04	< 0.04	0.09	0.06

Online LIMS

0003028015



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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000312 ARDG-000313 -TIR01B-1005 OMS33-Ksc-w a	6: ARDG-000314 ARDG-000315 -TIR01B-1005 OMS33-Kwa-s	7: ARDG-000316 ARDG-000317 -TIR01B-1005 OMS06-Kwa-s	8: ARDG-000318 ARDG-000319 -TIR01B-1005 OMS06-Kwa-s	9: ARDG-000320 ARDG-000321 -TIR01B-1005 OMS06-Kwa-s
Sulphide [%]	16-Aug-22	20:37	25-Aug-22	16:57	0.15	0.13	0.17	0.17	0.12
C [%]	14-Aug-22	13:16	17-Aug-22	15:01	1.02	0.706	0.697	0.910	0.715
CO3 (HCl) [%]	16-Aug-22	18:25	17-Aug-22	15:01	4.57	2.93	2.80	3.68	2.87

Analysis	10: ARDG-000317 ARDG-000318 -TIR01B-1005 OMS06-Kwa-s	11: ARDG-000319 ARDG-000320 -TIR01B-1005 OMS06-Kwa-s	12: ARDG-000321 ARDG-000322 -TIR01B-1005 OMS06-Kwa-s	13: ARDG-000323 ARDG-000324 -TIR01B-1005 OMS06-Kwa-s
Sample Date & Time	17-Jul-22	17-Jul-22	17-Jul-22	17-Jul-22
Paste pH [no unit]	8.96	9.01	9.07	8.89
Fizz Rate [no unit]	3	2	2	2
Sample weight [g]	2.09	1.92	1.91	1.88
HCl_add [mL]	30.00	30.00	30.00	30.00
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]	13.96	14.81	15.85	15.27
Final pH [no unit]	1.69	1.57	1.68	1.64
NP [t CaCO3/1000 t]	38.4	39.6	37.0	39.2
AP [t CaCO3/1000 t]	3.75	5.00	4.38	3.44
Net NP [t CaCO3/1000 t]	34.6	34.6	32.6	35.8
NP/AP [ratio]	10.2	7.92	8.46	11.4
S [%]	0.212	0.210	0.192	0.188
Acid Leachable SO4-S [%]	0.09	0.05	0.05	0.08
Sulphide [%]	0.12	0.16	0.14	0.11
C [%]	0.552	0.579	0.580	0.595
CO3 (HCl) [%]	2.27	2.38	2.26	2.49

OnLine LIMS

0003028015

ABA - Modified Sobek

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

Weight of Sample

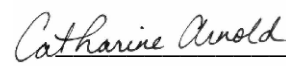

*AP (Acid Potential) = % Sulphide Sulphur $\times 31.25$

*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 <0.04 will be calculated using a 0.04 value.



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CERTIFICATE OF ANALYSIS

Final Report

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Sample Date & Time					08-Jul-22	11-Jul-22	11-Jul-22	15-Jul-22	15-Jul-22	17-Jul-22
Ag [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	76000	74000	86000	92000	74000	79000
As [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	290	1800	430	180	120	40
Ba [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	590	710	600	1000	550	670
Be [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1	1	1	1	1	1
Bi [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.40	0.41	0.44	0.42	0.35	0.40
Ca [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	18000	12000	14000	16000	11000	13000
Cd [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.10	0.18	0.16	0.29	0.14	0.13
Co [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	19	21	23	24	24	20
Cr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	110	83	130	72	150	75
Cu [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	53	49	48	55	53	46
Fe [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	38000	40000	64000	44000	40000	34000
K [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	20000	19000	20000	25000	20000	16000
Li [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	18	31	40	34	33	30
Mg [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	11000	14000	16000	17000	15000	12000
Mn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	280	330	520	440	390	320

OnLine LIMS

0003028028



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Project : PO#1124452
LR Report : CA19219-JUL22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000312-T IR01B-10050MS 33-Ksc-wa	ARDG-000313-T IR01B-10050MS 33-Kwa-s	ARDG-000314-T IR01B-10050MS 33-Kwa-s	ARDG-000315-T IR01B-10050MS 06-Kwa-s	ARDG-000316-T IR01B-10050MS 06-Kwa-s	ARDG-000317-T IR01B-10050MS 06-Kwa-s
Mo [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	4.2	1.8	3.2	2.1	6.2	1.7
Ni [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	62	71	79	85	76	63
Pb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	16	20	13	24	13	14
Sb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	250	360	280	440	250	350
Ti [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	3000	2600	3500	3200	1500	730
Tl [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.49	0.47	0.46	0.63	0.50	0.38
U [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1.45	1.36	1.72	1.81	1.02	1.45
V [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	89	92	130	110	97	81
Y [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	7.34	5.08	8.71	7.85	5.23	6.90
Zn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	57	88	98	110	91	78

Analysis	11:	12:	13:
	ARDG-000318-T IR01B-10050MS 06-Kwa-s	ARDG-000319-T IR01B-10050MS 06-Kwa-s	ARDG-000320-T IR01B-10050MS 06-Kwa-s
Sample Date & Time	17-Jul-22	17-Jul-22	17-Jul-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5
Al [µg/g]	72000	89000	81000
As [µg/g]	32	210	450
Ba [µg/g]	610	730	610
Be [µg/g]	1	1	1
Bi [µg/g]	0.44	0.35	0.32
Ca [µg/g]	13000	11000	12000
Cd [µg/g]	0.14	0.14	0.20
Co [µg/g]	20	24	26
Cr [µg/g]	57	72	65
Cu [µg/g]	49	48	52

OnLine LIMS

0003028028

Analysis	11: ARDG-000318-T IR01B-10050MS 06-Kwa-s	12: ARDG-000319-T IR01B-10050MS 06-Kwa-s	13: ARDG-000320-T IR01B-10050MS 06-Kwa-s
Fe [µg/g]	34000	54000	48000
K [µg/g]	16000	22000	20000
Li [µg/g]	30	39	34
Mg [µg/g]	13000	17000	15000
Mn [µg/g]	310	410	390
Mo [µg/g]	3.9	1.8	4.4
Ni [µg/g]	63	79	79
Pb [µg/g]	14	15	22
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]	320	310	280
Ti [µg/g]	1100	2800	3400
Tl [µg/g]	0.41	0.46	0.44
U [µg/g]	1.18	1.56	1.50
V [µg/g]	79	110	110
Y [µg/g]	5.32	8.28	6.23
Zn [µg/g]	78	99	94

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Project : PO#1124452

16-August-2022

Date Rec. : 29 July 2022
LR Report: CA19220-JUL22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	Analysis ARDG-000312-T IR01B-10050MS 33-Ksc-wa	Analysis ARDG-000313-T IR01B-10050MS 33-Kwa-s	Analysis ARDG-000314-T IR01B-10050MS 33-Kwa-s	Analysis ARDG-000315-T IR01B-10050MS 06-Kwa-s	
Sample Date & Time					08-Jul-22	11-Jul-22	11-Jul-22	15-Jul-22
Sample weight [g]	05-Aug-22	09:05	08-Aug-22	12:01	250	250	250	250
Volume D.I. Water [mL]	05-Aug-22	09:05	08-Aug-22	12:01	750	750	750	750
Final pH [no unit]	06-Aug-22	11:20	08-Aug-22	12:01	8.81	8.92	8.78	9.07
pH [No unit]	08-Aug-22	10:20	09-Aug-22	11:46	8.01	8.05	7.98	8.07
Conductivity [uS/cm]	08-Aug-22	10:20	09-Aug-22	11:46	967	392	458	296
Alkalinity [mg/L as CaCO3]	08-Aug-22	10:20	09-Aug-22	11:46	46	55	44	55
SO4 [mg/L]	08-Aug-22	14:59	09-Aug-22	16:59	66	52	66	43
Hg [mg/L]	09-Aug-22	10:05	11-Aug-22	16:42	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	0.007	0.018	0.016	0.013
As [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	0.0057	0.0913	0.0139	0.0961
Ba [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	0.00248	0.00115	0.00133	0.00579
B [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	0.032	0.032	0.029	0.023
Be [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	12-Aug-22	14:50	15-Aug-22	15:48	< 0.00001	0.00015	0.00006	0.00007
Ca [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	5.87	3.82	3.73	4.84
Cd [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.000016	0.000015	0.000006	0.000017
Co [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.000068	< 0.000004	< 0.000004	< 0.000004
Cr [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.00115	0.00120	0.00096	0.00112
Cu [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	26.4	21.9	21.8	24.7
Li [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.0013	0.0014	0.0009	0.0012
Mg [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.132	0.164	0.200	0.067
Mn [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.00153	0.00028	0.00019	0.00011
Mo [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.0149	0.0287	0.0158	0.0160
Na [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	782	723	658	661
Ni [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.0050	0.0079	0.0054	0.0090
Se [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.00155	0.00081	0.00074	0.00071
Si [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	1.75	1.95	1.68	1.79
Sn [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.00058	0.00060	0.00039	0.00038

Online LIMS

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Sr [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.0745	0.0357	0.0427	0.0442
Ti [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.00010	< 0.00005	0.00007	< 0.00005
Tl [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.000008	0.000008	< 0.000005	< 0.000005
U [mg/L]	12-Aug-22	14:50	15-Aug-22	15:49	0.000113	0.000229	0.000192	0.000136
W [mg/L]	12-Aug-22	14:50	15-Aug-22	16:49	0.0173	0.0149	0.0121	0.0119
V [mg/L]	12-Aug-22	14:50	15-Aug-22	16:49	0.00100	0.00181	0.00068	0.00215
Zn [mg/L]	12-Aug-22	14:50	15-Aug-22	16:49	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: ARDG-000316-T IR01B-10050MS 06-Kwa-s	10: ARDG-000317-T IR01B-10050MS 06-Kwa-s	11: ARDG-000318-T IR01B-10050MS 06-Kwa-s	12: ARDG-000319-T IR01B-10050MS 06-Kwa-s	13: ARDG-000320-T IR01B-10050MS 06-Kwa-s	14: ARDG-000320-T IR01B-10050MS 06-Kwa-s	15:BLK: SD.I. Leachate Blank
Sample Date & Time	15-Jul-22	17-Jul-22	17-Jul-22	17-Jul-22	17-Jul-22		
Sample weight [g]	250	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	9.16	9.08	9.09	9.13	9.06	9.08	5.69
pH [No unit]	8.49	8.15	8.13	8.17	8.21	8.23	5.86
Conductivity [uS/cm]	218	213	271	140	346	330	2
Alkalinity [mg/L as CaCO3]	60	45	50	52	56	52	5
SO4 [mg/L]	26	35	36	23	38	36	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.024	0.055	0.021	0.028	0.026	0.031	0.012
As [mg/L]	0.101	0.0357	0.0311	0.134	0.0897	0.0844	< 0.0002
Ba [mg/L]	0.00049	0.00094	0.00183	0.00065	0.00078	0.00067	0.00010
B [mg/L]	0.022	0.025	0.027	0.036	0.024	0.022	0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	0.00005	0.00004	< 0.00001	0.00002	0.00009	0.00004	< 0.00001
Ca [mg/L]	2.58	3.33	3.49	4.20	2.34	0.96	0.01
Cd [mg/L]	0.000004	0.000007	0.000010	0.000004	0.000008	0.000007	0.000041
Co [mg/L]	< 0.000004	< 0.000004	0.000013	< 0.000004	< 0.000004	< 0.000004	0.000016
Cr [mg/L]	0.00109	0.00101	0.00109	0.00110	0.00122	0.00116	0.00162
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	21.3	19.2	18.7	17.3	21.7	20.9	0.262
Li [mg/L]	0.0009	0.0009	0.0010	0.0006	0.0007	0.0008	< 0.0001
Mg [mg/L]	0.093	0.168	0.105	0.075	0.133	0.129	0.001
Mn [mg/L]	0.00011	0.00010	0.000606	0.00007	0.00021	0.00009	0.00004
Mo [mg/L]	0.0112	0.0131	0.0182	0.00767	0.0192	0.0137	0.0912
Na [mg/L]	690	657	674	634	701	740	---
Ni [mg/L]	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0086	0.0067	0.0066	0.0094	0.0088	0.0075	0.0012
Se [mg/L]	0.00063	0.00088	0.00096	0.00041	0.00081	0.00068	0.00012
Si [mg/L]	1.75	1.69	1.80	1.71	1.86	1.70	0.13
Sn [mg/L]	0.00054	0.00025	0.00084	0.00030	0.00062	0.00089	0.00236
Sr [mg/L]	0.0154	0.0232	0.0281	0.0240	0.0223	0.0138	< 0.00008
Ti [mg/L]	0.00009	0.00010	0.00017	0.00007	0.00014	0.00013	0.00083
Tl [mg/L]	< 0.000005	0.000005	0.000006	0.000006	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000164	0.000079	0.000083	0.000133	0.000126	0.000111	0.000017
W [mg/L]	0.0156	0.0117	0.0257	0.0122	0.0146	0.0142	---

Online LIMS

0003012474

SGS Canada Inc.


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Project : PO#1124452

LR Report : CA19220-JUL22

Analysis	9: ARDG-000316-T IR01B-10050MS 06-Kwa-s	10: ARDG-000317-T IR01B-10050MS 06-Kwa-s	11: ARDG-000318-T IR01B-10050MS 06-Kwa-s	12: ARDG-000319-T IR01B-10050MS 06-Kwa-s	13: ARDG-000320-T IR01B-10050MS 06-Kwa-s	14: ARDG-000320-T IR01B-10050MS 06-Kwa-s	15:BLK: \$D.I. Leachate Blank
V [mg/L]	0.00251	0.00207	0.00213	0.00252	0.00168	0.00162	---
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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

mel

Project : PO#1124452

29-August-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 05 August 2022
LR Report: CA19029-AUG22
Reference: Meliadine

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	Analysis Time	ARDG-000321-T IR01B-10045MS 01-Kwa-s	ARDG-000322-T IR01B-10045MS 01-Kwa-s	ARDG-000323-T IR01B-10045MS 01-Kwa-s	ARDG-000324-T IR01B-10045MS 01-Kwa-s
Sample Date & Time					23-Jul-22	23-Jul-22	23-Jul-22	23-Jul-22
Sample weight [g]	11-Aug-22	06:51	12-Aug-22	09:45	250	250	250	250
Volume D.I. Water [mL]	11-Aug-22	06:51	12-Aug-22	09:45	750	750	750	750
Final pH [no unit]	12-Aug-22	07:23	12-Aug-22	09:45	8.45	8.62	8.56	8.67
pH [No unit]	12-Aug-22	16:34	18-Aug-22	09:50	8.37	8.08	8.08	8.10
Conductivity [uS/cm]	12-Aug-22	16:34	18-Aug-22	09:50	356	260	294	294
Alkalinity [mg/L as CaCO3]	12-Aug-22	16:34	18-Aug-22	09:50	59	52	56	60
SO4 [mg/L]	16-Aug-22	09:52	17-Aug-22	17:06	46	33	42	31
Hg [mg/L]	17-Aug-22	09:32	19-Aug-22	11:33	< 0.00001	< 0.00001	< 0.00001	0.00003
Ag [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.252	0.733	0.657	0.565
As [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.0581	0.0745	0.0679	0.107
Ba [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.00798	0.00299	0.00343	0.00268
B [mg/L]	16-Aug-22	17:35	25-Aug-22	16:16	0.071	0.029	0.017	0.027
Be [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	< 0.000007	< 0.000007	< 0.000007	0.000012
Bi [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.00001	< 0.00001	< 0.00001	0.00001
Ca [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	12.9	11.1	11.6	11.6
Cd [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.000020	0.000015	0.000012	0.000011
Co [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.000037	0.000077	0.000060	0.000034
Cr [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	0.00009	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	16-Aug-22	17:35	22-Aug-22	11:16	18.7	18.3	20.0	20.7
Li [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.0016	0.0013	0.0015	0.0012
Mg [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	4.17	2.78	3.37	3.41
Mn [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.00088	0.00118	0.00109	0.00121
Mo [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.0141	0.00409	0.00493	0.01051
Na [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	34.8	21.3	22.8	29.5
Ni [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.0003	0.0002	< 0.0001	0.0002
Pb [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.00012	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.0052	0.0085	0.0082	0.0101
Se [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.00057	0.00060	0.00065	0.00039
Si [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	1.97	1.88	1.80	1.63
Sn [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	< 0.00006	< 0.00006	< 0.00006	< 0.00006

Online LIMS

0003028207



SGS Canada Inc.

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mel

Project : PO#1124452

LR Report : CA19029-AUG22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000321-T IR01B-10045MS 01-Kwa-s	6: ARDG-000322-T IR01B-10045MS 01-Kwa-s	7: ARDG-000323-T IR01B-10045MS 01-Kwa-s	8: ARDG-000324-T IR01B-10045MS 01-Kwa-s
Sr [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.0748	0.0587	0.0656	0.0534
Ti [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.00026	0.00018	0.00020	0.00017
Tl [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.000009	0.000017	0.000020	0.000014
U [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.000836	0.000287	0.000291	0.00372
W [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.00467	0.00238	0.00254	0.00302
V [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	0.00104	0.00249	0.00224	0.00222
Zn [mg/L]	16-Aug-22	17:35	22-Aug-22	11:17	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: ARDG-000325-T IR01B-10045MS 01-Kwa-s	10: ARDG-000326-T IR01B-10045MS 01-Kwa-s	11: ARDG-000327-T IR01B-10045MS 02-M	12: ARDG-000328-T IR01B-10045MS 02-Kwa-s	13: ARDG-000329-T IR01B-10045MS 02-M	14: ARDG-000330-T IR01B-10045MS 02-Kwa-s	15: ARDG-000329-T IR01B-10045MS 02-M
Sample Date & Time	24-Jul-22	24-Jul-22	28-Jul-22	29-Jul-22	30-Jul-22	30-Jul-22	
Sample weight [g]	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	8.54	8.82	8.57	8.78	8.33	8.90	8.36
pH [No unit]	8.10	8.49	8.24	8.36	8.16	8.59	8.18
Conductivity [uS/cm]	616	280	260	243	355	226	379
Alkalinity [mg/L as CaCO3]	48	54	66	56	64	64	66
SO4 [mg/L]	86	29	23	33	55	13	58
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.286	0.599	0.591	0.686	0.403	0.791	0.392
As [mg/L]	0.0372	0.117	0.0330	0.271	0.0256	0.0835	0.0261
Ba [mg/L]	0.00753	0.00305	0.00032	0.00368	0.00158	0.00354	0.00157
B [mg/L]	0.064	0.036	0.042	0.046	0.042	0.038	0.064
Be [mg/L]	< 0.000007	< 0.000007	0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16.8	9.03	10.9	9.51	19.4	8.34	21.7
Cd [mg/L]	0.000011	0.000013	0.000017	0.000011	0.000013	0.000011	0.000009
Co [mg/L]	0.000094	0.000029	0.000058	0.000037	0.000092	0.000026	0.000083
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	0.00050	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0082	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	20.2	17.8	1.41	19.2	5.33	18.0	5.51
Li [mg/L]	0.0025	0.0011	0.0026	0.0013	0.0027	0.0016	0.0027
Mg [mg/L]	7.42	2.89	4.71	3.12	6.71	2.91	7.04
Mn [mg/L]	0.00512	0.00099	0.00471	0.00073	0.00912	0.00086	0.00886
Mo [mg/L]	0.00663	0.00624	0.00403	0.00662	0.00747	0.00484	0.00702
Na [mg/L]	65.4	25.7	32.5	16.4	33.1	16.0	35.0
Ni [mg/L]	0.0005	0.0001	0.0002	0.0001	0.0003	0.0002	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00086	< 0.00009
Sb [mg/L]	0.0033	0.0098	0.0066	0.0116	0.0038	0.0116	0.0037
Se [mg/L]	0.00079	0.00035	0.00088	0.00051	0.00188	0.00029	0.00205
Si [mg/L]	1.68	1.62	1.13	1.69	1.14	1.46	1.29
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00009	< 0.00006
Sr [mg/L]	0.0998	0.0478	0.0160	0.0622	0.0368	0.0685	0.0399
Ti [mg/L]	0.00015	0.00016	0.00012	0.00017	0.00016	0.00018	0.00015
Tl [mg/L]	0.000011	0.000006	< 0.000005	0.000009	0.000005	0.000014	< 0.000005
U [mg/L]	0.000319	0.000190	0.000045	0.000338	0.000078	0.000206	0.000067
W [mg/L]	0.00170	0.00207	0.00063	0.00417	0.00133	0.00320	0.00119

SGS Canada Inc.

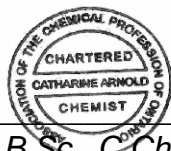
P.O. Box 4300 - 185 Concession St.
 Lakefield - Ontario - K0L 2H0
 Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#1124452

LR Report : CA19029-AUG22

Analysis	9:	10:	11:	12:	13:	14:	15:
	ARDG-000325-T IR01B-10045MS 01-Kwa-s	ARDG-000326-T IR01B-10045MS 01-Kwa-s	ARDG-000327-T IR01B-10045MS 02-M	ARDG-000328-T IR01B-10045MS 02-Kwa-s	ARDG-000329-T IR01B-10045MS 02-M	ARDG-000330-T IR01B-10045MS 02-Kwa-s	ARDG-000329-T IR01B-10045MS 02-M
V [mg/L]	0.00072	0.00201	0.00091	0.00245	0.00056	0.00234	0.00054
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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



SGS Canada Inc.

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Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

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, Nunavut
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Project : PO#1124452

29-August-2022

Date Rec. : 05 August 2022
LR Report: CA19027-AUG22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000321 -TIR01B-1004 5MS01-Kwa-s	ARDG-000322 -TIR01B-1004 5MS01-Kwa-s	ARDG-000323 -TIR01B-1004 5MS01-Kwa-s
Sample Date & Time					23-Jul-22	23-Jul-22	23-Jul-22
Paste pH [no unit]	15-Aug-22	08:00	16-Aug-22	14:46	8.99	9.06	8.99
Fizz Rate [no unit]	15-Aug-22	08:00	16-Aug-22	14:46	3	3	3
Sample weight [g]	15-Aug-22	08:00	16-Aug-22	14:46	1.98	2.07	2.02
HCl_add [mL]	16-Aug-22	06:00	16-Aug-22	14:46	40.00	30.00	30.00
HCl [Normality]	15-Aug-22	08:00	16-Aug-22	14:46	0.10	0.10	0.10
NaOH [Normality]	15-Aug-22	08:00	16-Aug-22	14:46	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Aug-22	08:01	16-Aug-22	14:46	20.41	14.47	14.12
Final pH [no unit]	16-Aug-22	08:01	16-Aug-22	14:46	1.55	1.68	1.70
NP [t CaCO3/1000 t]	16-Aug-22	08:01	16-Aug-22	14:46	49.5	37.5	39.3
AP [t CaCO3/1000 t]	26-Aug-22	15:25	26-Aug-22	15:25	5.00	6.25	5.94
Net NP [t CaCO3/1000 t]	26-Aug-22	15:25	26-Aug-22	15:25	44.5	31.2	33.4
NP/AP [ratio]	26-Aug-22	15:25	26-Aug-22	15:25	9.90	6.00	6.62
S [%]	22-Aug-22	20:17	23-Aug-22	10:43	0.231	0.272	0.242
Acid Leachable SO4-S [%]	26-Aug-22	15:25	26-Aug-22	15:26	0.07	0.07	0.05
Sulphide [%]	25-Aug-22	14:29	26-Aug-22	15:26	0.16	0.20	0.19
C [%]	22-Aug-22	20:17	23-Aug-22	10:43	0.745	0.561	0.606
CO3 (HCl) [%]	26-Aug-22	07:20	26-Aug-22	15:26	3.17	2.17	2.41

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000324 -TIR01B-1004 5MS01-Kwa-s	ARDG-000325 -TIR01B-1004 5MS01-Kwa-s	ARDG-000326 -TIR01B-1004 5MS01-Kwa-s	ARDG-000327 -TIR01B-100 45MS02-M	ARDG-000328 -TIR01B-1004 5MS02-Kwa-s	ARDG-000329 -TIR01B-100 45MS02-M	ARDG-000330 -TIR01B-1004 5MS02-Kwa-s
Sample Date & Time	23-Jul-22	24-Jul-22	24-Jul-22	28-Jul-22	29-Jul-22	30-Jul022	30-Jul022
Paste pH [no unit]	9.06	8.64	9.01	8.95	9.15	8.69	9.24
Fizz Rate [no unit]	3	3	3	4	2	4	3
Sample weight [g]	2.17	2.05	2.09	2.13	1.94	2.08	1.84

Online LIMS

0003028176

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000324	ARDG-000325	ARDG-000326	ARDG-00032	ARDG-000328	ARDG-00032	ARDG-000330
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	7-TIR01B-100	-TIR01B-1004	9-TIR01B-100	-TIR01B-1004
	5MS01-Kwa-s	5MS01-Kwa-s	5MS01-Kwa-s	45MS02-M	5MS02-Kwa-s	45MS02-M	5MS02-Kwa-s
HCl_add [mL]	40.00	30.00	30.00	230.00	35.00	155.00	50.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	21.17	12.66	13.03	94.01	15.32	57.41	20.15
Final pH [no unit]	1.60	1.83	1.80	1.54	1.78	1.66	1.70
NP [t CaCO3/1000 t]	43.4	42.3	40.6	319	50.7	235	81.1
AP [t CaCO3/1000 t]	3.75	5.94	4.06	6.25	3.44	13.4	4.69
Net NP [t CaCO3/1000 t]	39.6	36.4	36.5	313	47.3	221	76.4
NP/AP [ratio]	11.6	7.12	9.99	51.1	14.7	17.5	17.3
S [%]	0.217	0.245	0.215	0.268	0.205	0.595	0.232
Acid Leachable SO4-S [%]	0.10	0.06	0.08	0.07	0.10	0.16	0.08
Sulphide [%]	0.12	0.19	0.13	0.20	0.11	0.43	0.15
C [%]	0.671	0.650	0.662	4.22	0.701	3.22	1.10
CO3 (HCl) [%]	2.74	2.66	2.74	20.5	2.97	15.6	5.02

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

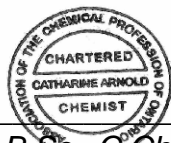
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

23-August-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 05 August 2022
LR Report: CA19028-AUG22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000321-T IR01B-10045MS 01-Kwa-s	ARDG-000322-T IR01B-10045MS 01-Kwa-s	ARDG-000323-T IR01B-10045MS 01-Kwa-s	ARDG-000324-T IR01B-10045MS 01-Kwa-s	ARDG-000325-T IR01B-10045MS 01-Kwa-s
Sample Date & Time					23-Jul-22	23-Jul-22	23-Jul-22	23-Jul-22	24-Jul-22
Ag [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	94000	87000	86000	89000	74000
As [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	130	41	36	190	410
Ba [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	680	560	580	600	600
Be [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	1	1	1	1	1
Bi [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	0.14	< 0.09	< 0.09	0.16	< 0.09
Ca [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	15000	13000	13000	13000	12000
Cd [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	0.15	0.10	0.13	0.12	0.11
Co [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	25	23	20	23	21
Cr [µg/g]	23-Aug-22	03:08	23-Aug-22	14:57	82	90	78	110	130
Cu [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	60	51	51	57	45
Fe [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	42000	39000	39000	43000	38000
K [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	22000	19000	20000	21000	19000
Li [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	39	38	39	40	34
Mg [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	16000	14000	14000	16000	14000
Mn [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	440	340	350	400	330
Mo [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	2.0	6.4	1.8	4.0	1.7
Ni [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	77	67	67	77	68
Pb [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	17	9	9	21	13
Sb [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	320	300	300	330	300
Ti [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	1200	890	940	920	1100
Tl [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	0.50	0.43	0.44	0.48	0.43
U [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	1.9	1.4	1.5	1.4	0.95
V [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	100	85	89	100	96
Y [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	8.0	7.2	7.5	6.7	4.1
Zn [µg/g]	23-Aug-22	03:08	23-Aug-22	14:58	92	74	73	93	83

Analysis	10: ARDG-000326-T IR01B-10045MSTIR01B-10045M 01-Kwa-s	11: ARDG-000327- IR01B-10045MSTIR01B-10045M S02-M	12: ARDG-000328-T IR01B-10045MSTIR01B-10045M 02-Kwa-s	13: ARDG-000329- IR01B-10045MSTIR01B-10045M S02-M	14: ARDG-000330-T IR01B-10045MSTIR01B-10045M 02-Kwa-s
Sample Date & Time	24-Jul-22	28-Jul-22	29-Jul-22	30-Jul022	30-Jul022
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	88000	68000	86000	67000	87000
As [µg/g]	220	290	840	730	140
Ba [µg/g]	720	43	790	150	830
Be [µg/g]	1	0.33	1	0.45	1
Bi [µg/g]	0.12	< 0.09	0.15	0.59	0.12
Ca [µg/g]	13000	110000	14000	78000	21000
Cd [µg/g]	0.12	0.26	0.12	0.16	0.19
Co [µg/g]	25	42	19	49	20
Cr [µg/g]	91	93	76	130	50
Cu [µg/g]	54	83	46	140	44
Fe [µg/g]	43000	62000	39000	69000	40000
K [µg/g]	22000	3400	21000	9700	23000
Li [µg/g]	40	60	33	45	29
Mg [µg/g]	16000	21000	15000	19000	15000
Mn [µg/g]	410	2300	340	1900	440
Mo [µg/g]	3.9	0.4	4.8	1.0	4.2
Ni [µg/g]	77	110	63	110	55
Pb [µg/g]	15	8	14	17	12
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	310	120	380	140	490
Ti [µg/g]	930	1200	1900	2200	3100
Tl [µg/g]	0.50	0.15	0.46	0.40	0.48
U [µg/g]	1.3	0.11	1.3	0.12	1.4
V [µg/g]	96	200	85	200	88
Y [µg/g]	6.2	10	7.6	8.5	9.2
Zn [µg/g]	93	150	87	140	84

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Project : PO#1124452

09-September-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 10 August 2022
LR Report: CA19062-AUG22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000331-T IR01B-10045MS 03-M	6: ARDG-000332-T IR01B-10045MS 03-M	7: ARDG-000333-T IR01B-10045MS 03-M	8: ARDG-000334-T IR01B-10045MS 03-M	9: ARDG-000335-T IR01B-10045MS 03-Kwa-s
Sample Date & Time					31-Jul-22	31-Jul-22	31-Jul-22	31-Jul-22	03-Aug-22
Ag [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	83000	83000	77000	78000	94000
As [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	65	82	26	210	280
Ba [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	97	95	110	94	600
Be [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	0.53	0.50	0.63	0.70	1
Bi [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	< 0.09	< 0.09	< 0.09	< 0.09	0.28
Ca [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	100000	110000	100000	120000	15000
Cd [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	0.14	0.14	0.10	0.16	0.12
Co [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	44	48	45	45	24
Cr [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	150	96	95	170	100
Cu [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	110	88	88	91	54
Fe [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	79000	80000	74000	76000	49000
K [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	6400	6900	9400	9700	23000
Li [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	62	60	49	47	40
Mg [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	26000	28000	24000	26000	18000
Mn [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	1900	2100	1600	2000	440
Mo [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	0.4	0.4	0.3	0.5	1.8
Ni [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	120	120	110	120	82
Pb [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	7	7	6	9	19
Sb [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	< 0.8	< 0.8	1.3	< 0.8	< 0.8
Se [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	180	190	230	290	340
Ti [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	2300	1900	3100	4300	1100
Tl [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	0.31	0.30	0.41	0.41	0.47
U [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	0.13	0.13	0.13	0.14	1.53
V [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	250	220	210	210	110
Y [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	9.15	8.70	7.67	7.19	7.23
Zn [µg/g]	06-Sep-22	17:34	08-Sep-22	10:59	130	130	87	130	96

Analysis	10: ARDG-000336-T IR01B-10045MS 03-Kwa-s	11: ARDG-000337-T IR01B-10045MS 03-Kwa-s	12: ARDG-000338-T IR01B-10045MS 03-Kwa-s	13: ARDG-000339-T IR01B-10045MS 03-Kwa-s
Sample Date & Time	03-Aug-22	03-Aug-22	03-Aug-22	04-Aug-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	0.6
Al [µg/g]	87000	82000	85000	60000
As [µg/g]	100	95	740	3500
Ba [µg/g]	670	840	920	620
Be [µg/g]	1	1	2	2
Bi [µg/g]	0.30	0.21	0.37	0.92
Ca [µg/g]	15000	17000	14000	30000
Cd [µg/g]	0.13	0.15	0.17	0.24
Co [µg/g]	24	23	23	14
Cr [µg/g]	97	85	110	83
Cu [µg/g]	53	55	50	24
Fe [µg/g]	43000	40000	43000	32000
K [µg/g]	23000	22000	27000	18000
Li [µg/g]	33	30	33	12
Mg [µg/g]	16000	15000	16000	11000
Mn [µg/g]	420	410	410	470
Mo [µg/g]	2.1	1.8	2.3	13
Ni [µg/g]	76	69	75	31
Pb [µg/g]	24	18	44	390
Sb [µg/g]	< 0.8	< 0.8	< 0.8	1.5
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	390	420	340	410
Ti [µg/g]	3100	3100	3600	2800
Tl [µg/g]	0.51	0.53	0.69	0.44
U [µg/g]	1.43	1.26	1.78	0.92
V [µg/g]	97	88	94	60
Y [µg/g]	5.36	4.65	6.21	5.76
Zn [µg/g]	96	90	89	35

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Project : PO#1124452

29-August-2022

Date Rec. : 10 August 2022
LR Report: CA19063-AUG22
Reference: Meliadine

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: ARDG-000331 -TIR01B-1004 5MS03-M	6: ARDG-000332 -TIR01B-1004 5MS03-M	7: ARDG-000333 -TIR01B-1004 5MS03-M	8: ARDG-000334 -TIR01B-1004 5MS03-M	9: ARDG-000335 -TIR01B-1004 5MS03-Kwa-s
Sample Date & Time					31-Jul-22	31-Jul-22	31-Jul-22	31-Jul-22	03-Aug-22
Sample weight [g]	17-Aug-22	11:23	19-Aug-22	12:01	250	250	250	250	250
Volume D.I. Water [mL]	17-Aug-22	11:23	19-Aug-22	12:01	750	750	750	750	750
Final pH [no unit]	19-Aug-22	11:43	19-Aug-22	12:01	12.48	9.47	9.18	9.21	8.33
pH [No unit]	17-Aug-22	15:51	19-Aug-22	15:32	8.06	8.07	8.15	8.18	8.36
Conductivity [uS/cm]	17-Aug-22	15:51	19-Aug-22	15:39	278	302	231	220	244
Alkalinity [mg/L as CaCO3]	17-Aug-22	15:51	19-Aug-22	15:32	58	60	64	75	63
SO4 [mg/L]	19-Aug-22	07:12	19-Aug-22	16:29	25	25	23	17	24
Hg [mg/L]	21-Aug-22	12:05	23-Aug-22	19:28	< 0.00001	0.00005	< 0.00001	0.00001	0.00002
Ag [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.428	0.408	0.392	0.462	0.524
As [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.0044	0.0064	0.0017	0.0621	0.0564
Ba [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00171	0.00196	0.00098	0.00057	0.00207
B [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.011	0.013	0.012	0.011	0.015
Be [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007

OnLine LIMS

0003028113



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Project : PO#1124452

LR Report : CA19063-AUG22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000331 -TIR01B-1004 5MS03-M	ARDG-000332 -TIR01B-1004 5MS03-M	ARDG-000333 -TIR01B-1004 5MS03-M	ARDG-000334 -TIR01B-1004 5MS03-M	ARDG-000335 -TIR01B-1004 5MS03-Kwa-s
Bi [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	12.0	13.1	10.4	8.92	8.59
Cd [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.000011	0.000014	< 0.000003	< 0.000003	0.000013
Co [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.000020	0.000027	0.000020	0.000049	0.000043
Cr [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00015	0.00017	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.0002	0.0004	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.008	0.011	0.010	0.007	0.018
K [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	6.74	6.64	6.57	5.61	17.3
Li [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.0011	0.0014	0.0008	0.0013	0.0010
Mg [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	4.31	4.72	4.36	5.09	3.23
Mn [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00285	0.00286	0.00233	0.00267	0.00120
Mo [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00371	0.00457	0.00270	0.00288	0.00531
Na [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	25.6	28.5	16.2	20.4	16.0
Ni [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.0006	0.0008	0.0012	0.0009	0.0023
Pb [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00010
Sb [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.0028	0.0029	0.0092	0.0098	0.0066
Se [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00069	0.00094	0.00050	0.00075	0.00036
Si [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.91	0.92	0.82	1.04	1.23
Sn [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.0318	0.0356	0.0336	0.0238	0.0485
Ti [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00025	0.00012	0.00015	0.00019	0.00018
Tl [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.000005	< 0.000005	< 0.000005	< 0.000005	0.000006
U [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.000084	0.000190	0.000759	0.000058	0.000245
W [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00125	0.00169	0.00152	0.00270	0.00171
V [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	0.00062	0.00057	0.00045	0.00110	0.00140
Zn [mg/L]	22-Aug-22	19:30	23-Aug-22	19:28	< 0.002	< 0.002	< 0.002	< 0.002	0.002



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Project : PO#1124452

LR Report : CA19063-AUG22


Analysis	10: ARDG-000336 -TIR01B-1004 5MS03-Kwa-s	11: ARDG-000337 -TIR01B-1004 5MS03-Kwa-s	12: ARDG-000338 -TIR01B-1004 5MS03-Kwa-s	13: ARDG-000339 -TIR01B-1004 5MS03-Kwa-s	14: ARDG-000339 -TIR01B-1004 5MS03-Kwa-s	15:BLK: D.I. Leachate Blank
Sample Date & Time	03-Aug-22	03-Aug-22	03-Aug-22	04-Aug-22		
Sample weight [g]	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	9.32	9.32	8.86	9.26	9.24	5.61
pH [No unit]	8.53	8.53	7.97	8.17	8.11	5.74
Conductivity [uS/cm]	258	299	1160	353	347	< 2
Alkalinity [mg/L as CaCO3]	61	68	54	66	65	< 2
SO4 [mg/L]	21	29	77	45	44	< 2
Hg [mg/L]	0.00003	0.00001	< 0.00001	0.00005	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.403	0.490	0.243	0.424	0.400	0.001
As [mg/L]	0.0811	0.168	0.120	0.444	0.387	< 0.0002
Ba [mg/L]	0.00388	0.00450	0.02039	0.00609	0.00532	< 0.00008
B [mg/L]	0.038	0.013	0.031	0.017	0.016	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	7.58	8.30	21.4	16.9	12.2	0.03
Cd [mg/L]	0.000004	0.000020	0.000019	0.000022	0.000019	< 0.000003
Co [mg/L]	0.000064	0.000052	0.000175	0.000048	0.000045	0.000008
Cr [mg/L]	0.00033	< 0.00008	0.00067	0.00011	0.00011	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.020	0.014	0.015	0.012	0.021	< 0.007
K [mg/L]	18.1	23.3	35.3	19.9	18.1	0.155
Li [mg/L]	0.0013	0.0013	0.0080	0.0037	0.0029	< 0.0001
Mg [mg/L]	3.11	3.67	13.9	5.95	5.29	0.026
Mn [mg/L]	0.00072	0.00100	0.00978	0.00422	0.00416	0.00021
Mo [mg/L]	0.00544	0.00699	0.00994	0.0193	0.0185	< 0.00004
Na [mg/L]	23.7	20.4	125	28.0	25.0	0.06

OnLine LIMS

0003028113

Analysis	10: ARDG-000336 -TIR01B-1004 5MS03-Kwa-s	11: ARDG-000337 -TIR01B-1004 5MS03-Kwa-s	12: ARDG-000338 -TIR01B-1004 5MS03-Kwa-s	13: ARDG-000339 -TIR01B-1004 5MS03-Kwa-s	14: ARDG-000339 -TIR01B-1004 5MS03-Kwa-s	15:BLK: \$D.I. Leachate Blank
Ni [mg/L]	0.0009	0.0007	0.0020	0.0012	0.0017	0.0014
Pb [mg/L]	0.00014	< 0.00009	0.00020	0.00065	0.00084	< 0.00009
Sb [mg/L]	0.0072	0.0090	0.0063	0.0100	0.0099	< 0.0009
Se [mg/L]	0.00030	0.00040	0.00043	0.00071	0.00072	< 0.00004
Si [mg/L]	1.39	1.49	1.52	2.02	1.76	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0448	0.0646	0.176	0.0995	0.0893	< 0.00008
Ti [mg/L]	0.00071	0.00044	0.00024	0.00024	0.00042	0.00070
Tl [mg/L]	< 0.000005	0.000008	0.000040	0.000012	0.000010	< 0.000005
U [mg/L]	0.000486	0.000555	0.000844	0.00242	0.00269	< 0.000002
W [mg/L]	0.00298	0.00378	0.00264	0.0127	0.0118	< 0.00002
V [mg/L]	0.00192	0.00223	0.00105	0.00190	0.00165	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

02-September-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 10 August 2022
LR Report: CA19061-AUG22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-00033 1-TIR01B-1002-45MS03-M	ARDG-00033 2-TIR01B-1003-45MS03-M	ARDG-00033 3-TIR01B-1004-45MS03-M
Sample Date & Time					31-Jul-22	31-Jul-22	31-Jul-22
Paste pH [no unit]	16-Aug-22	08:00	17-Aug-22	14:59	8.87	8.94	9.00
Fizz Rate [no unit]	16-Aug-22	08:00	17-Aug-22	14:59	4	4	4
Sample weight [g]	16-Aug-22	08:00	17-Aug-22	14:59	2.00	2.01	1.97
HCl_add [mL]	17-Aug-22	06:04	17-Aug-22	14:59	130.00	185.00	170.00
HCl [Normality]	16-Aug-22	08:00	17-Aug-22	14:59	0.10	0.10	0.10
NaOH [Normality]	16-Aug-22	08:00	17-Aug-22	14:59	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17-Aug-22	08:00	17-Aug-22	14:59	36.17	82.48	71.33
Final pH [no unit]	17-Aug-22	08:00	17-Aug-22	14:59	1.80	1.55	1.57
NP [t CaCO3/1000 t]	17-Aug-22	08:00	17-Aug-22	14:59	235	255	250
AP [t CaCO3/1000 t]	31-Aug-22	07:20	31-Aug-22	14:01	5.31	4.06	6.25
Net NP [t CaCO3/1000 t]	31-Aug-22	07:20	31-Aug-22	14:01	229	251	244
NP/AP [ratio]	31-Aug-22	07:20	31-Aug-22	14:01	44.2	62.8	40.1
S [%]	24-Aug-22	13:15	31-Aug-22	13:59	0.245	0.184	0.252
Acid Leachable SO4-S [%]	26-Aug-22	20:00	31-Aug-22	13:59	0.08	0.05	0.05
Sulphide [%]	26-Aug-22	20:00	30-Aug-22	14:28	0.17	0.13	0.20
C [%]	24-Aug-22	13:15	31-Aug-22	13:54	2.97	3.26	3.26
CO3 (HCl) [%]	31-Aug-22	07:20	31-Aug-22	13:54	14.4	15.9	16.2

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-00033 4-TIR01B-100 45MS03-M	ARDG-000335 -TIR01B-1004 5MS03-Kwa-s	ARDG-000336 -TIR01B-1004 5MS03-Kwa-s	ARDG-000337 -TIR01B-1004 5MS03-Kwa-s	ARDG-000338 -TIR01B-1004 5MS03-Kwa-s	ARDG-000339 -TIR01B-1004 5MS03-Kwa-s
Sample Date & Time	31-Jul-22	03-Aug-22	03-Aug-22	03-Aug-22	03-Aug-22	04-Aug-22
Paste pH [no unit]	9.12	9.17	9.22	9.28	8.64	9.22
Fizz Rate [no unit]	4	3	3	3	2	3
Sample weight [g]	2.02	2.02	2.02	2.03	2.01	1.99

Online LIMS

0003034969

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-00033	ARDG-000335	ARDG-000336	ARDG-000337	ARDG-000338	ARDG-000339
	4-TIR01B-100	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	45MS03-M	5MS03-Kwa-s	5MS03-Kwa-s	5MS03-Kwa-s	5MS03-Kwa-s	5MS03-Kwa-s
HCl_add [mL]	190.00	40.00	35.00	50.00	35.00	80.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	73.78	20.76	15.13	26.52	16.85	36.21
Final pH [no unit]	1.67	1.60	1.83	1.54	1.69	1.56
NP [t CaCO3/1000 t]	288	47.6	49.2	57.8	45.2	110
AP [t CaCO3/1000 t]	3.44	4.06	4.69	4.06	4.69	7.19
Net NP [t CaCO3/1000 t]	284	43.5	44.5	53.7	40.5	103
NP/AP [ratio]	83.7	11.7	10.5	14.2	9.64	15.3
S [%]	0.156	0.225	0.235	0.237	0.239	0.367
Acid Leachable SO4-S [%]	0.05	0.10	0.08	0.11	0.09	0.14
Sulphide [%]	0.11	0.13	0.15	0.13	0.15	0.23
C [%]	4.04	0.676	0.725	0.833	0.636	1.51
CO3 (HCl) [%]	19.7	2.95	3.18	3.65	2.83	7.22

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

02-September-2022

Date Rec. : 11 August 2022
LR Report: CA19070-AUG22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000340 -TIR01B-1004 5MS04-Kwa-s	ARDG-000341 -TIR01B-1004 5MS04-Kwa-s	ARDG-000342 -TIR01B-1004 5MS04-Kwa-s
Sample Date & Time					07-Aug-22	07-Aug-22	07-Aug-22
Paste pH [no unit]	17-Aug-22	08:00	19-Aug-22	12:02	9.23	8.98	8.94
Fizz Rate [no unit]	17-Aug-22	08:00	19-Aug-22	12:02	3	3	3
Sample weight [g]	17-Aug-22	08:00	19-Aug-22	12:02	2.03	1.98	2.00
HCl_add [mL]	18-Aug-22	06:00	19-Aug-22	12:02	65.00	85.00	60.00
HCl [Normality]	17-Aug-22	08:00	19-Aug-22	12:02	0.10	0.10	0.10
NaOH [Normality]	17-Aug-22	08:00	19-Aug-22	12:02	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	18-Aug-22	08:01	19-Aug-22	12:02	36.27	45.14	37.96
Final pH [no unit]	18-Aug-22	06:00	19-Aug-22	12:02	1.84	1.65	1.72
NP [t CaCO3/1000 t]	18-Aug-22	08:01	19-Aug-22	12:02	70.8	101	55.1
AP [t CaCO3/1000 t]	31-Aug-22	07:20	31-Aug-22	14:03	10.6	9.06	5.94
Net NP [t CaCO3/1000 t]	31-Aug-22	07:20	31-Aug-22	14:03	60.2	91.6	49.2
NP/AP [ratio]	31-Aug-22	07:20	31-Aug-22	14:03	6.66	11.1	9.28
S [%]	24-Aug-22	13:15	31-Aug-22	14:02	0.350	0.314	0.262
Acid Leachable SO4-S [%]	24-Aug-22	13:15	31-Aug-22	14:02	< 0.04	< 0.04	0.07
Sulphide [%]	26-Aug-22	20:00	30-Aug-22	14:29	0.34	0.29	0.19
C [%]	24-Aug-22	13:15	31-Aug-22	14:01	0.816	1.26	0.645
CO3 (HCl) [%]	31-Aug-22	07:20	31-Aug-22	14:01	3.67	5.93	2.91

Analysis	8:	9:	10:
	ARDG-000343 -TIR01B-1004 5MS04-Kwa-s	ARDG-000344 -TIR01B-1004 5MS04-Kwa-s	ARDG-000345 -TIR01B-1004 5MS04-Kwa-s
Sample Date & Time	07-Aug-22	08-Aug-22	08-Aug-22
Paste pH [no unit]	9.06	9.28	9.31
Fizz Rate [no unit]	3	3	3
Sample weight [g]	2.01	2.01	2.01

Analysis	8:	9:	10:
	ARDG-000343	ARDG-000344	ARDG-000345
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	5MS04-Kwa-s	5MS04-Kwa-s	5MS04-Kwa-s
HCl_add [mL]	60.00	60.00	65.00
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	36.91	37.08	38.08
Final pH [no unit]	1.77	1.70	1.74
NP [t CaCO3/1000 t]	57.4	57.0	67.0
AP [t CaCO3/1000 t]	5.94	3.12	5.62
Net NP [t CaCO3/1000 t]	51.5	53.9	61.4
NP/AP [ratio]	9.67	18.2	11.9
S [%]	0.243	0.138	0.210
Acid Leachable SO4-S [%]	0.05	< 0.04	< 0.04
Sulphide [%]	0.19	0.10	0.18
C [%]	0.650	0.663	0.747
CO3 (HCl) [%]	2.96	2.80	3.31

ABA - Modified Sobek

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

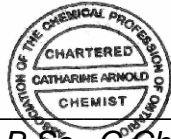
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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29-August-2022

Date Rec. : 11 August 2022
LR Report: CA19071-AUG22

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CERTIFICATE OF ANALYSIS

Final Report

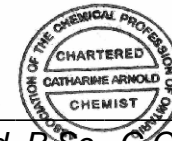
Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start	Analysis Start	Analysis	Analysis	Analysis ARDG-000340-T	Analysis ARDG-000341-T	Analysis ARDG-000342-T	Analysis ARDG-000343-T	Analysis ARDG-000344-T	Analysis ARDG-000345-T
	Date	Time Completed	DateCompleted	Time	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS
					04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s
Sample Date & Time					07-Aug-22	07-Aug-22	07-Aug-22	07-Aug-22	08-Aug-22	08-Aug-22
Ag [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	88000	72000	69000	74000	87000	93000
As [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	78	220	110	120	630	230
Ba [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	570	770	560	620	620	790
Be [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1	1	1	1	1	1
Bi [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.37	0.36	0.57	0.52	0.56	0.31
Ca [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	17000	26000	12000	13000	12000	15000
Cd [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.15	0.26	0.13	0.16	0.13	0.10
Co [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	23	18	21	21	22	25
Cr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	150	83	110	110	140	150
Cu [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	59	35	50	48	45	51
Fe [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	40000	34000	39000	38000	42000	45000
K [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	21000	22000	18000	18000	22000	26000
Li [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	26	19	27	28	30	33
Mg [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	14000	12000	14000	14000	16000	16000
Mn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	370	420	370	370	410	390
Mo [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1.7	3.0	1.7	1.6	1.7	1.9
Ni [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	73	45	68	65	75	80
Pb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	21	10	24	20	19	22
Sb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

OnLine LIMS

0003028052

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000340-T IR01B-10045MS 04-Kwa-s	6: ARDG-000341-T IR01B-10045MS 04-Kwa-s	7: ARDG-000342-T IR01B-10045MS 04-Kwa-s	8: ARDG-000343-T IR01B-10045MS 04-Kwa-s	9: ARDG-000344-T IR01B-10045MS 04-Kwa-s	10: ARDG-000345-T IR01B-10045MS 04-Kwa-s
Se [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	330	450	310	320	300	330
Ti [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	2100	3400	1700	1600	3400	3100
Tl [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.53	0.50	0.43	0.42	0.51	0.60
U [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1.87	1.19	1.34	1.44	1.52	1.70
V [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	99	72	83	79	110	110
Y [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	9.68	7.57	3.36	4.10	6.59	7.54
Zn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	70	84	81	80	87	83

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Project : PO#1124452

29-August-2022

Date Rec. : 11 August 2022
LR Report: CA19072-AUG22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:BLK:
	Analysis Start	Analysis Start	Analysis	Analysis ARDG-000340-T	Analysis ARDG-000341-T	Analysis ARDG-000342-T	Analysis ARDG-000343-T	Analysis ARDG-000344-T	Analysis ARDG-000345-T	Analysis ARDG-000345-T	Analysis ARDG-000345-T	\$D.I. Leachate
	Date	Time Completed	DateCompleted	Time IR01B-10045MS	Time IR01B-10045MS	Time IR01B-10045MS	Time IR01B-10045MS	Time IR01B-10045MS	Time IR01B-10045MS	Time IR01B-10045MS	Time IR01B-10045MS	Blank
				04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	
Sample Date & Time				07-Aug-22	07-Aug-22	07-Aug-22	07-Aug-22	08-Aug-22	08-Aug-22			
Sample weight [g]	17-Aug-22	11:23	19-Aug-22	12:01	250	250	250	250	250	250	250	---
Volume D.I. Water [mL]	17-Aug-22	11:23	19-Aug-22	12:01	750	750	749	749	750	751	750	750
Final pH [no unit]	19-Aug-22	11:43	19-Aug-22	12:01	8.22	8.26	8.21	8.24	8.93	8.93	8.90	5.68
pH [No unit]	18-Aug-22	15:51	19-Aug-22	15:32	8.19	8.43	8.25	8.21	8.57	8.45	8.39	5.93
Conductivity [uS/cm]	18-Aug-22	15:51	19-Aug-22	15:32	418	1010	703	674	266	316	316	4
Alkalinity [mg/L as CaCO3]	18-Aug-22	15:51	19-Aug-22	15:32	62	77	60	58	64	66	66	< 2
SO4 [mg/L]	19-Aug-22	07:12	19-Aug-22	16:29	66	71	70	64	12	14	14	< 2
Hg [mg/L]	21-Aug-22	12:05	23-Aug-22	19:29	0.00002	< 0.00001	0.00002	0.00004	0.00005	< 0.00001	0.00003	< 0.00001
Ag [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.296	0.276	0.230	0.267	0.526	0.147	0.492	0.001
As [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.0393	0.0558	0.0406	0.0461	0.147	0.253	0.221	< 0.0002
Ba [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00397	0.0167	0.00827	0.00790	0.00210	0.00213	0.00314	< 0.00008
B [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.020	0.032	0.027	0.025	0.017	0.018	0.019	< 0.002
Be [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	14.7	23.8	15.4	15.2	6.78	6.12	7.63	< 0.01
Cd [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.000003	0.000043	0.000017	0.000014	0.000005	0.000008	0.000007	< 0.000003
Co [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.000115	0.000518	0.000198	0.000171	0.000066	0.000020	0.000064	< 0.000004
Cr [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.00008	0.00052	0.00031	0.00027	0.00009	0.00016	0.00012	< 0.00008

OnLine LIMS

000302804



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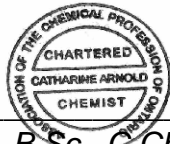
mel

Project : PO#1124452
LR Report : CA19072-AUG22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000340-T IR01B-10045MS 04-Kwa-s	6: ARDG-000341-T IR01B-10045MS 04-Kwa-s	7: ARDG-000342-T IR01B-10045MS 04-Kwa-s	8: ARDG-000343-T IR01B-10045MS 04-Kwa-s	9: ARDG-000344-T IR01B-10045MS 04-Kwa-s	10: ARDG-000345-T IR01B-10045MS 04-Kwa-s	11: ARDG-000345-T IR01B-10045MS 04-Kwa-s	12:BLK: \$D.I. Leachate Blank
Cu [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.0002	0.0003	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.023	0.028	0.020	0.018	0.028	0.013	0.053	< 0.007
K [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	20.6	33.2	20.8	22.2	20.6	22.2	22.3	< 0.009
Li [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.0014	0.0033	0.0016	0.0016	0.0006	0.0009	0.0008	< 0.0001
Mg [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	6.84	13.9	9.11	8.63	2.26	2.87	3.25	0.022
Mn [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00683	0.0127	0.0105	0.00856	0.00125	0.00076	0.00158	0.00010
Mo [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00901	0.0192	0.0106	0.0101	0.00618	0.0109	0.00884	< 0.00004
Na [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	29.4	104	64.9	62.9	21.0	26.5	26.6	0.66
Ni [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.0023	0.0033	0.0035	0.0037	0.0032	0.0019	0.0025	0.0011
Pb [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.00009	< 0.00009	< 0.00009	0.00015	0.00010	< 0.00009	0.00020	< 0.00009
Sb [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.0049	0.0079	0.0032	0.0037	0.0077	0.0106	0.0104	< 0.0009
Se [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00074	0.00083	0.00065	0.00065	0.00014	0.00019	0.00023	< 0.00004
Si [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	1.44	1.53	1.43	1.40	1.29	1.45	1.42	< 0.02
Sn [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.0848	0.247	0.125	0.120	0.0330	0.0404	0.0474	< 0.00008
Ti [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00019	0.00026	0.00028	0.00015	0.00051	0.00030	0.00052	0.00055
Tl [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.000011	0.000029	0.000011	0.000010	0.000014	0.000009	0.000008	< 0.000005
U [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.000914	0.00193	0.000798	0.000613	0.000212	0.000057	0.000242	< 0.000002
W [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00158	0.00403	0.00107	0.00110	0.00217	0.00190	0.00200	< 0.00002
V [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	0.00059	0.00091	0.00062	0.00067	0.00196	0.00139	0.00193	0.00002
Zn [mg/L]	22-Aug-22	19:30	23-Aug-22	19:29	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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OnLine LIMS

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Project : PO#1124452

06-September-2022

Date Rec. : 17 August 2022
LR Report: CA19086-AUG22
Reference: +

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000346 -TIR01B-1004 5MS05-Kwa-s	ARDG-000347 -TIR01B-1004 5MS05-Kwa-s	ARDG-000348 -TIR01B-1004 5MS05-Kwa-s
Sample Date & Time					12-Aug-22	12-Aug-22	12-Aug-22
Paste pH [no unit]	24-Aug-22	08:30	26-Aug-22	14:03	9.12	9.03	8.87
Fizz Rate [no unit]	24-Aug-22	08:30	26-Aug-22	14:03	3	3	3
Sample weight [g]	24-Aug-22	08:30	26-Aug-22	14:03	1.99	2.01	2.01
HCl_add [mL]	24-Aug-22	06:30	26-Aug-22	14:03	50.00	50.00	50.00
HCl [Normality]	24-Aug-22	08:30	26-Aug-22	14:03	0.10	0.10	0.10
NaOH [Normality]	24-Aug-22	08:30	26-Aug-22	14:03	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	24-Aug-22	08:31	26-Aug-22	14:03	28.72	31.51	25.79
Final pH [no unit]	24-Aug-22	08:31	26-Aug-22	14:03	1.50	1.50	1.79
NP [t CaCO3/1000 t]	24-Aug-22	08:31	26-Aug-22	14:03	53.5	46.0	60.2
AP [t CaCO3/1000 t]	24-Aug-22	08:31	06-Sep-22	12:44	6.56	4.69	6.88
Net NP [t CaCO3/1000 t]	24-Aug-22	08:31	06-Sep-22	12:44	46.9	41.3	53.3
NP/AP [ratio]	24-Aug-22	08:31	06-Sep-22	12:44	8.15	9.81	8.76
S [%]	29-Aug-22	21:37	30-Aug-22	14:25	0.219	0.218	0.237
Acid Leachable SO4-S [%]	02-Sep-22	21:22	06-Sep-22	09:45	< 0.04	0.07	< 0.04
Sulphide [%]	02-Sep-22	21:22	06-Sep-22	09:44	0.21	0.15	0.22
C [%]	29-Aug-22	21:37	30-Aug-22	14:25	0.701	0.607	0.780
CO3 (HCl) [%]	02-Sep-22	20:18	06-Sep-22	12:43	2.97	2.59	3.50

Analysis	8:	9:	10:
	ARDG-000349 -TIR01B-1004 5MS05-Kwa-s	ARDG-000350 -TIR01B-1004 5MS05-Kwa-s	ARDG-000351 -TIR01B-1004 5MS05-Kwa-s
Sample Date & Time	12-Aug-22	12-Aug-22	12-Aug-22
Paste pH [no unit]	9.00	8.97	8.75
Fizz Rate [no unit]	3	3	3

Analysis	8:	9:	10:
	ARDG-000349	ARDG-000350	ARDG-000351
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	5MS05-Kwa-s	5MS05-Kwa-s	5MS05-Kwa-s
Sample weight [g]	1.99	2.01	2.00
HCl_add [mL]	40.00	50.00	50.00
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23.37	24.54	30.01
Final pH [no unit]	1.52	1.66	1.50
NP [t CaCO3/1000 t]	41.8	63.3	50.0
AP [t CaCO3/1000 t]	5.62	8.12	8.44
Net NP [t CaCO3/1000 t]	36.2	55.2	41.6
NP/AP [ratio]	7.43	7.79	5.93
S [%]	0.226	0.342	0.330
Acid Leachable SO4-S [%]	0.05	0.08	0.06
Sulphide [%]	0.18	0.26	0.27
C [%]	0.538	0.901	0.670
CO3 (HCl) [%]	2.28	3.97	2.71

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

06-December-2022

Date Rec. : 17 August 2022
LR Report: CA19088-AUG22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000346-T IR01B-10045MS 05-Kwa-s	6: ARDG-000347-T IR01B-10045MS 05-Kwa-s	7: ARDG-000348-T IR01B-10045MS 05-Kwa-s
Sample Date & Time					12-Aug-22	12-Aug-22	12-Aug-22
Sample weight [g]	22-Aug-22	06:57	24-Aug-22	10:04	250	250	250
Volume D.I. Water [mL]	22-Aug-22	06:57	24-Aug-22	10:04	750	750	750
Final pH [no unit]	23-Aug-22	06:43	24-Aug-22	10:04	8.66	8.65	8.67
pH [No unit]	23-Aug-22	10:17	31-Aug-22	14:02	8.28	8.19	8.30
Conductivity [uS/cm]	23-Aug-22	10:17	31-Aug-22	14:02	313	354	424
Alkalinity [mg/L as CaCO3]	23-Aug-22	10:17	31-Aug-22	14:02	54	59	61
SO4 [mg/L]	24-Aug-22	13:08	25-Aug-22	15:39	35	42	40
Hg [mg/L]	24-Aug-22	07:01	24-Aug-22	10:46	< 0.00001	0.00003	< 0.00001
Ag [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.541	0.474	0.429
As [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.0815	0.112	0.121
Ba [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00304	0.00349	0.00498
B [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.021	0.027	0.028
Be [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	13.3	14.5	16.3
Cd [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.000015	0.000016	0.000011
Co [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.000049	0.000051	0.000064
Cr [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00024	0.00029	0.00022
Cu [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.007	< 0.007	< 0.007
K [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	18.7	21.7	21.3
Li [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.0013	0.0017	0.0016
Mg [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	4.60	5.80	6.48
Mn [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00235	0.00297	0.00289
Mo [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00836	0.0110	0.0103
Na [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	29.1	33.8	40.4
Ni [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.0009	0.0010	0.0011

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Project : PO#1124452

LR Report : CA19088-AUG22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000346-T IR01B-10045MS 05-Kwa-s	ARDG-000347-T IR01B-10045MS 05-Kwa-s	ARDG-000348-T IR01B-10045MS 05-Kwa-s
Pb [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00010	< 0.00009	< 0.00009
Sb [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.0123	0.0089	0.0077
Se [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00080	0.00050	0.00039
Si [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	1.69	1.76	1.62
Sn [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.0627	0.0732	0.0907
Ti [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00011	0.00016	0.00012
Tl [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.000012	0.000009	0.000012
U [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.000335	0.000560	0.000472
W [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00262	0.00274	0.00186
V [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	0.00124	0.00128	0.00106
Zn [mg/L]	25-Aug-22	13:43	07-Sep-22	17:30	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:
	ARDG-000349-T IR01B-10045MS 05-Kwa-s	ARDG-000350-T IR01B-10045MS 05-Kwa-s	ARDG-000351-T IR01B-10045MS 05-Kwa-s	ARDG-000351-T IR01B-10045MS 05-Kwa-s
Sample Date & Time	12-Aug-22	12-Aug-22	12-Aug-22	
Sample weight [g]	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	8.78	8.74	8.70	8.69
pH [No unit]	8.48	8.49	8.42	8.47
Conductivity [uS/cm]	373	464	587	570
Alkalinity [mg/L as CaCO3]	55	65	65	65
SO4 [mg/L]	33	36	40	39
Hg [mg/L]	0.00001	0.00001	0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.519	0.490	0.435	0.436
As [mg/L]	0.177	0.108	0.0394	0.0371
Ba [mg/L]	0.00392	0.00642	0.00776	0.00713
B [mg/L]	0.022	0.023	0.024	0.023
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	13.8	15.4	18.3	17.3
Cd [mg/L]	0.000011	0.000021	0.000013	0.000017
Co [mg/L]	0.000071	0.000377	0.000221	0.000219
Cr [mg/L]	0.00034	0.00028	0.00064	0.00044
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	23.9	26.2	34.6	31.5
Li [mg/L]	0.0015	0.0020	0.0022	0.0021
Mg [mg/L]	4.61	7.06	8.13	7.62
Mn [mg/L]	0.00186	0.00400	0.00410	0.00393
Mo [mg/L]	0.0109	0.00842	0.0118	0.0119

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Project : PO#1124452

LR Report : CA19088-AUG22

Analysis	8: ARDG-000349-T IR01B-10045MS 05-Kwa-s	9: ARDG-000350-T IR01B-10045MS 05-Kwa-s	10: ARDG-000351-T IR01B-10045MS 05-Kwa-s	11: ARDG-000351-T IR01B-10045MS 05-Kwa-s
Na [mg/L]	32.0	42.2	58.7	54.8
Ni [mg/L]	0.0010	0.0013	0.0011	0.0010
Pb [mg/L]	< 0.00009	< 0.00009	0.00020	0.00015
Sb [mg/L]	0.0143	0.0074	0.0062	0.0061
Se [mg/L]	0.00055	0.00068	0.00057	0.00053
Si [mg/L]	1.70	1.66	1.59	1.53
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0728	0.0838	0.101	0.0949
Ti [mg/L]	0.00020	0.00015	0.00017	0.00014
Tl [mg/L]	0.000016	0.000019	0.000021	0.000019
U [mg/L]	0.000382	0.000466	0.000212	0.000209
W [mg/L]	0.00216	0.00268	0.00237	0.00233
V [mg/L]	0.00180	0.00132	0.00090	0.00081
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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



SGS Canada Inc.

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Lakefield - Ontario - KOL 2HO
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Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Meliadine
, Nunavut
X0C 0A0, Canada

Phone: (819) 759-3555
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SFE 3:1 ratio 24hr (MEND) prefilter pH

Project : PO#1124452

16-December-2022

Date Rec. : 17 October 2022
LR Report: CA19088-OCT22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:
	Analysis Start	Analysis Start	Analysis	Analysis	ARDG-000352-T	ARDG-000353-T	ARDG-000354-T	ARDG-000355-T	ARDG-000356-T	ARDG-000357-T	ARDG-000358-T
	Date	Time Completed	DateCompleted	Time	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS
					06-Kwa-s	06-Kwa-s	06-Kwa-s	06-Kwa-s	06-Kwa-s	06-Kwa-s	06-Kwa-s
Sample Date & Time					15-Aug-22	15-Aug-22	15-Aug-22	15-Aug-22	15-Aug-22	15-Aug-22	15-Aug-22
Sample weight [g]	17-Nov-22	06:30	18-Nov-22	16:19	250	250	250	250	250	250	250
Volume D.I. Water [mL]	17-Nov-22	06:30	18-Nov-22	16:19	750	750	750	750	750	750	750
Final pH [no unit]	18-Nov-22	06:30	18-Nov-22	16:19	8.48	9.00	8.98	9.03	9.13	9.01	9.06
pH [No unit]	21-Nov-22	06:48	23-Nov-22	09:46	7.70	7.71	7.78	7.83	7.77	7.84	7.77
Conductivity [uS/cm]	21-Nov-22	06:48	23-Nov-22	09:46	533	361	340	219	264	354	347
Alkalinity [mg/L as CaCO3]	21-Nov-22	06:48	23-Nov-22	09:46	54	43	49	46	50	46	53
SO4 [mg/L]	21-Nov-22	08:03	22-Nov-22	09:37	140	81	60	44	48	78	48
Hg [mg/L]	25-Nov-22	07:24	25-Nov-22	14:24	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.279	0.507	0.448	0.697	0.625	0.457	0.518
As [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.0246	0.0873	0.162	0.0979	0.310	0.0935	0.190
Ba [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.0113	0.00638	0.0270	0.00231	0.00289	0.00389	0.0154
B [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.019	0.012	0.020	0.012	0.016	0.013	0.015
Be [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.000007	< 0.000007	0.000010	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	39.0	19.3	14.3	13.2	10.2	15.9	11.5
Cd [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.000007	0.000010	0.000021	< 0.000003	0.000006	0.000009	0.000004
Co [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.000211	0.000046	0.000081	0.000052	0.000031	0.000072	0.000084
Cr [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.00008	< 0.00008	0.00009	0.00008	< 0.00008	< 0.00008	< 0.00008

OnLine LIMS

0003161392



SGS Canada Inc.
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SFE 3:1 ratio 24hr (MEND) prefilter pH

Project : PO#1124452

LR Report : CA19088-OCT22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: ARDG-000352-T IR01B-10045MS 06-Kwa-s	6: ARDG-000353-T IR01B-10045MS 06-Kwa-s	7: ARDG-000354-T IR01B-10045MS 06-Kwa-s	8: ARDG-000355-T IR01B-10045MS 06-Kwa-s	9: ARDG-000356-T IR01B-10045MS 06-Kwa-s	10: ARDG-000357-T IR01B-10045MS 06-Kwa-s	11: ARDG-000358-T IR01B-10045MS 06-Kwa-s
Cu [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.0002	0.0003	0.0005	< 0.0002	0.0003	0.0005	0.0003
Fe [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.007	0.008	0.012	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	20.5	20.7	25.7	14.4	25.1	20.2	27.0
Li [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.0028	0.0019	0.0025	0.0014	0.0017	0.0019	0.0020
Mg [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	15.0	6.92	6.20	4.81	4.34	7.30	5.63
Mn [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.01444	0.00254	0.00272	0.00189	0.00112	0.00267	0.00210
Mo [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.00643	0.00662	0.00656	0.00527	0.00667	0.00864	0.00607
Na [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	36.4	30.7	28.3	16.6	22.9	31.9	36.5
Ni [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.0003	0.0001	0.0003	< 0.0001	< 0.0001	0.0002	0.0001
Pb [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00009
Sb [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.0027	0.0043	0.0058	0.0037	0.0075	0.0037	0.0070
Se [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	0.00098	0.00233	0.00051	0.00068	0.00077	0.00112	0.00031
Si [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	1.70	2.22	1.79	1.74	2.07	2.08	2.03
Sn [mg/L]	24-Nov-22	10:03	29-Nov-22	09:26	< 0.00006	0.00050	0.00054	0.00009	0.00008	0.00018	< 0.00006
Sr [mg/L]	24-Nov-22	10:03	29-Nov-22	09:25	0.287	0.129	0.160	0.0534	0.0555	0.0744	0.108
Ti [mg/L]	24-Nov-22	10:03	29-Nov-22	09:25	0.00006	< 0.00005	0.00022	0.00009	0.00015	0.00010	0.00008
Tl [mg/L]	24-Nov-22	10:03	29-Nov-22	09:25	0.000005	0.000012	0.000019	0.000005	0.000012	< 0.000005	0.000009
U [mg/L]	24-Nov-22	10:03	29-Nov-22	09:25	0.000839	0.000619	0.000509	0.000309	0.000390	0.000539	0.000396
W [mg/L]	24-Nov-22	10:03	29-Nov-22	09:25	0.00592	0.00580	0.00294	0.00620	0.00601	0.00910	0.00424
V [mg/L]	24-Nov-22	10:03	29-Nov-22	09:25	0.00025	0.00165	0.00155	0.00186	0.00309	0.00191	0.00189
Zn [mg/L]	29-Nov-22	16:09	30-Nov-22	13:02	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	12: ARDG-000359-T IR01B-10045MS 06-Kwa-s	13: ARDG-000360-T IR01B-10045MS 06-Kwa-s	14: ARDG-000361-T IR01B-10045MS 06-Kwa-s	15: ARDG-000362-T IR01B-10045MS 06-Kwa-s	16: ARDG-000363-T IR01B-10045MS 06-Kwa-s	17: ARDG-000364-T IR01B-10045MS 06-Kwa-s	18: ARDG-000365-T IR01B-10045MS 07-Mg	19: ARDG-000366-T IR01B-10045MS 07-Kwa-s	20: ARDG-000367-T IR01B-10045MS 07-Kwa-s	21: ARDG-000368-T IR01B-10045MS 07-Kwa-s	22: ARDG-000369-T IR01B-10045MS 07-Kwa-s
Sample Date & Time	17-Aug-22	17-Aug-22	17-Aug-22	17-Aug-22	17-Aug-22	17-Aug-22	18-Aug-22	18-Aug-22	18-Aug-22	18-Aug-22	19-Aug-22
Sample weight [g]	250	250	250	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750	750	750	750	750
Final pH [no unit]	9.13	8.95	9.03	9.05	8.96	8.84	8.88	8.98	9.05	9.06	9.03
pH [No unit]	7.95	7.80	7.76	7.64	7.69	7.68	7.39	7.67	7.84	7.82	7.82
Conductivity [uS/cm]	245	310	269	320	270	385	421	402	295	289	328
Alkalinity [mg/L as CaCO3]	46	46	46	37	43	46	26	42	46	43	41
SO4 [mg/L]	58	70	44	62	47	77	37	94	45	66	70
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001



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SFE 3:1 ratio 24hr (MEND) prefilter pH

Project : PO#1124452

LR Report : CA19088-OCT22

Analysis	12: ARDG-000359-T IR01B-10045MS 06-Kwa-s	13: ARDG-000360-T IR01B-10045MS 06-Kwa-s	14: ARDG-000361-T IR01B-10045MS 06-Kwa-s	15: ARDG-000362-T IR01B-10045MS 06-Kwa-s	16: ARDG-000363-T IR01B-10045MS 06-Kwa-s	17: ARDG-000364-T IR01B-10045MS 06-Kwa-s	18: ARDG-000365-T IR01B-10045MS 07-Mg	19: ARDG-000366-T IR01B-10045MS 07-Kwa-s	20: ARDG-000367-T IR01B-10045MS 07-Kwa-s	21: ARDG-000368-T IR01B-10045MS 07-Kwa-s	22: ARDG-000369-T IR01B-10045MS 07-Kwa-s
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.585	0.495	0.472	0.527	0.435	0.398	0.299	0.428	0.531	0.516	0.515
As [mg/L]	0.110	0.137	0.211	0.159	0.273	0.0677	0.0063	0.0634	0.123	0.0764	0.184
Ba [mg/L]	0.00332	0.00543	0.00376	0.00382	0.00355	0.00511	0.0244	0.00754	0.00238	0.00357	0.00566
B [mg/L]	0.012	0.016	0.013	0.016	0.018	0.018	0.039	0.018	0.021	0.012	0.018
Be [mg/L]	< 0.00007	< 0.00007	0.00008	0.00012	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14.3	17.4	13.0	15.7	14.4	17.2	26.4	20.6	11.7	15.2	16.0
Cd [mg/L]	0.00012	0.00003	0.00043	0.00017	< 0.00003	0.00008	0.00003	0.00005	0.00003	0.00003	0.00014
Co [mg/L]	0.00037	0.00068	0.00054	0.00057	0.00077	0.00112	0.00007	0.00063	0.00014	0.00053	0.00085
Cr [mg/L]	0.00013	< 0.00008	0.00020	0.00010	0.00008	< 0.00008	0.00009	0.00011	< 0.00008	0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	0.0010	0.0003	0.0002	0.0004	0.0003	< 0.0002	< 0.0002	0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	0.067	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	18.2	23.0	19.4	16.6	17.6	24.1	26.4	26.4	22.2	20.1	22.4
Li [mg/L]	0.0023	0.0021	0.0014	0.0019	0.0015	0.0018	0.0094	0.0023	0.0014	0.0018	0.0023
Mg [mg/L]	5.76	7.85	4.91	5.08	5.24	7.82	7.04	9.68	4.69	6.33	6.92
Mn [mg/L]	0.00245	0.00241	0.00210	0.00246	0.00260	0.00467	0.00219	0.00276	0.00144	0.00214	0.00287
Mo [mg/L]	0.00728	0.00561	0.00621	0.00717	0.00380	0.01084	0.00365	0.00826	0.00466	0.00761	0.00782
Na [mg/L]	17.0	22.5	21.7	30.8	22.6	36.8	27.1	32.0	30.1	20.5	26.3
Ni [mg/L]	< 0.0001	0.0001	< 0.0001	0.0002	0.0004	0.0002	< 0.0001	0.0001	< 0.0001	0.0001	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	0.00010	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0035	0.0046	0.0053	0.0052	0.0064	0.0037	0.0027	0.0036	0.0054	0.0034	0.0054
Se [mg/L]	0.00130	0.00148	0.00069	0.00122	0.00044	0.00077	0.00041	0.00179	0.00045	0.00138	0.00154
Si [mg/L]	2.21	1.99	1.94	2.16	2.14	2.06	2.00	2.30	2.00	2.05	2.26
Sn [mg/L]	< 0.00006	< 0.00006	0.00155	0.00017	< 0.00006	< 0.00006	0.00008	< 0.00006	< 0.00006	0.00007	0.00007
Sr [mg/L]	0.0620	0.0803	0.0604	0.0800	0.0690	0.0954	0.342	0.111	0.0513	0.0649	0.0732
Ti [mg/L]	0.00011	0.00007	0.00010	0.00017	0.00007	0.00008	0.00005	0.00007	0.00020	0.00013	0.00019
Tl [mg/L]	0.000005	0.000010	0.000010	0.000005	0.000007	0.000011	0.000035	0.000015	0.000007	0.000012	0.000011
U [mg/L]	0.000838	0.000637	0.000366	0.000537	0.000411	0.000637	0.000021	0.000745	0.000236	0.000552	0.000599
W [mg/L]	0.00627	0.00439	0.00303	0.00441	0.00244	0.00409	0.00337	0.00534	0.00257	0.00591	0.00405
V [mg/L]	0.00222	0.00167	0.00170	0.00212	0.00179	0.00094	0.00144	0.00155	0.00197	0.00174	0.00188
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002



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SFE 3:1 ratio 24hr (MEND) prefilter pH

Project : PO#1124452

LR Report : CA19088-OCT22

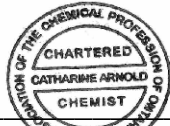
Analysis	23:	24:	25:	26:BLK:
	ARDG-000370-T IR01B-10045MS 07-Kwa-s	ARDG-000358-T IR01B-10045MS 06-Kwa-s	ARDG-000370-T IR01B-10045MS 07-Kwa-s	\$D.I. Leachate Blank
Sample Date & Time	19-Aug-22			
Sample weight [g]	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	8.90	9.04	8.93	5.60
pH [No unit]	7.71	7.82	7.74	6.04
Conductivity [uS/cm]	353	334	385	2
Alkalinity [mg/L as CaCO3]	44	53	42	< 2
SO4 [mg/L]	74	45	79	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.477	0.529	0.475	0.002
As [mg/L]	0.116	0.196	0.116	< 0.0002
Ba [mg/L]	0.00619	0.0163	0.00652	< 0.00008
B [mg/L]	0.018	0.019	0.017	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16.9	11.5	17.5	0.03
Cd [mg/L]	0.000008	0.000145	0.000010	< 0.000003
Co [mg/L]	0.000063	0.000080	0.000062	0.000014
Cr [mg/L]	0.00012	< 0.00008	0.00010	< 0.00008
Cu [mg/L]	0.0163	0.0002	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	23.5	25.7	24.7	0.096
Li [mg/L]	0.0021	0.0021	0.0021	< 0.0001
Mg [mg/L]	7.25	5.50	8.10	0.004
Mn [mg/L]	0.00285	0.00214	0.00287	0.00015
Mo [mg/L]	0.00935	0.00650	0.00967	0.00017
Na [mg/L]	28.6	34.0	33.0	0.01
Ni [mg/L]	0.0002	< 0.0001	0.0001	< 0.0001
Pb [mg/L]	< 0.00009	0.00010	< 0.00009	< 0.00009
Sb [mg/L]	0.0040	0.0077	0.0036	< 0.0009
Se [mg/L]	0.00145	0.00065	0.00158	0.00005
Si [mg/L]	2.18	2.15	2.20	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	0.00074
Sr [mg/L]	0.0814	0.104	0.0884	< 0.00008

OnLine LIMS

0003161392

Analysis	23:	24:	25:	26:BLK:
	ARDG-000370-TARDG-000358-TARDG-000370-T IR01B-10045MS 07-Kwa-s	IR01B-10045MS 06-Kwa-s	IR01B-10045MS 07-Kwa-s	\$D.I. Leachate Blank
Ti [mg/L]	0.00023	0.00023	0.00014	0.00006
Tl [mg/L]	0.000012	0.000011	0.000012	< 0.000005
U [mg/L]	0.000714	0.000410	0.000672	0.000009
W [mg/L]	0.00488	0.00459	0.00514	< 0.00002
V [mg/L]	0.00163	0.00206	0.00169	0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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



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mel

Project : PO#1124452

27-September-2022

Date Rec. : 17 August 2022
LR Report: CA19087-AUG22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

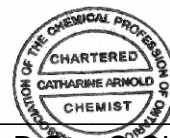
Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date Completed	4: Analysis Time Completed	5: ARDG-000346-T IR01B-10045MS 05-Kwa-s	6: ARDG-000347-T IR01B-10045MS 05-Kwa-s	7: ARDG-000348-T IR01B-10045MS 05-Kwa-s
Sample Date & Time					12-Aug-22	12-Aug-22	12-Aug-22
Ag [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	92000	93000	94000
As [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	180	320	760
Ba [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	490	500	570
Be [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	1	1	1
Bi [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	0.44	0.27	0.26
Ca [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	15000	13000	16000
Cd [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	0.08	0.09	0.09
Co [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	24	23	23
Cr [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	54	93	84
Cu [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	51	47	55
Fe [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	43000	47000	59000
K [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	21000	22000	24000
Li [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	29	31	36
Mg [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	15000	15000	18000
Mn [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	390	410	530
Mo [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	2.1	2.1	2.2
Ni [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	71	69	75
Pb [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	54	31	29
Sb [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	< 0.8	< 0.8	< 0.8
Se [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	< 0.7	< 0.7	< 0.7
Sn [µg/g]	14-Sep-22	13:21	21-Sep-22	17:53	< 6	< 6	< 6
Sr [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	270	280	290
Ti [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	3100	3200	3600
Tl [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	0.36	0.40	0.43
U [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	1.24	1.43	1.60
V [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	92	110	110
Y [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	6.37	6.68	6.95
Zn [µg/g]	14-Sep-22	13:21	21-Sep-22	17:52	86	84	90

Online LIMS

0003063187

Analysis	8: ARDG-000349-T IR01B-10045MS 05-Kwa-s	9: ARDG-000350-T IR01B-10045MS 05-Kwa-s	10: ARDG-000351-T IR01B-10045MS 05-Kwa-s
Sample Date & Time	12-Aug-22	12-Aug-22	12-Aug-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5
Al [µg/g]	88000	71000	92000
As [µg/g]	120	130	190
Ba [µg/g]	520	620	730
Be [µg/g]	1	1	1
Bi [µg/g]	0.20	0.18	0.48
Ca [µg/g]	13000	15000	13000
Cd [µg/g]	0.08	0.13	0.06
Co [µg/g]	22	22	24
Cr [µg/g]	120	130	73
Cu [µg/g]	48	51	52
Fe [µg/g]	42000	45000	50000
K [µg/g]	23000	22000	26000
Li [µg/g]	30	28	37
Mg [µg/g]	15000	14000	17000
Mn [µg/g]	370	470	420
Mo [µg/g]	1.8	2.0	2.4
Ni [µg/g]	70	65	80
Pb [µg/g]	16	29	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]	280	280	270
Ti [µg/g]	3300	3000	3200
Tl [µg/g]	0.40	0.43	0.50
U [µg/g]	1.43	1.05	1.50
V [µg/g]	110	95	99
Y [µg/g]	5.97	3.57	6.11
Zn [µg/g]	84	82	90

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Project : PO#1124452

22-November-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 17 October 2022
LR Report: CA19086-OCT22

Meliadine
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000352 -TIR01B-1004 5MS06-Kwa-s	ARDG-000353 -TIR01B-1004 5MS06-Kwa-s	ARDG-000354 -TIR01B-1004 5MS06-Kwa-s
Sample Date & Time					15-Aug-22	15-Aug-22	15-Aug-22
Paste pH [no unit]	16-Nov-22	09:47	18-Nov-22	10:59	8.37	8.55	8.72
Fizz Rate [rating]	16-Nov-22	09:47	18-Nov-22	10:59	3	3	2
Sample weight [g]	16-Nov-22	09:47	18-Nov-22	10:59	1.99	1.94	1.95
HCl_add [mL]	16-Nov-22	09:47	18-Nov-22	10:59	60.00	30.00	35.00
HCl [Normality]	16-Nov-22	09:47	18-Nov-22	10:59	0.10	0.10	0.10
NaOH [Normality]	16-Nov-22	09:47	18-Nov-22	10:59	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Nov-22	09:47	18-Nov-22	10:59	19.40	10.02	14.77
Final pH [no unit]	16-Nov-22	09:47	18-Nov-22	10:59	1.85	1.87	1.63
NP [t CaCO3/1000 t]	16-Nov-22	09:47	18-Nov-22	10:59	102	51.5	51.9
AP [t CaCO3/1000 t]	21-Nov-22	12:51	21-Nov-22	12:52	15.0	9.69	3.12
Net NP [t CaCO3/1000 t]	21-Nov-22	12:51	21-Nov-22	12:52	87.0	41.8	48.8
NP/AP [ratio]	21-Nov-22	12:51	21-Nov-22	12:52	6.80	5.32	16.6
S [%]	11-Nov-22	17:28	21-Nov-22	12:51	0.610	0.366	0.442
Acid Leachable SO4-S [%]	21-Nov-22	12:51	21-Nov-22	12:51	0.13	0.06	0.34
Sulphide [%]	18-Nov-22	09:16	21-Nov-22	12:51	0.48	0.31	0.10
C [%]	11-Nov-22	17:28	21-Nov-22	12:51	1.65	0.768	0.868
CO3 (HCl) [%]	22-Nov-22	07:35	22-Nov-22	10:24	7.66	3.43	3.89

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000355 -TIR01B-1004 5MS06-Kwa-s	ARDG-000356 -TIR01B-1004 5MS06-Kwa-s	ARDG-000357 -TIR01B-1004 5MS06-Kwa-s	ARDG-000358 -TIR01B-1004 5MS06-Kwa-s	ARDG-000359 -TIR01B-1004 5MS06-Kwa-s	ARDG-000360 -TIR01B-1004 5MS06-Kwa-s	ARDG-000361 -TIR01B-1004 5MS06-Kwa-s
Sample Date & Time	15-Aug-22	15-Aug-22	15-Aug-22	15-Aug-22	17-Aug-22	17-Aug-22	17-Aug-22
Paste pH [no unit]	8.85	8.84	8.78	8.60	8.86	8.63	8.59
Fizz Rate [rating]	2	2	2	2	2	2	2
Sample weight [g]	2.02	1.92	1.94	2.03	1.87	1.99	1.87

Online LIMS

0003130372

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000355	ARDG-000356	ARDG-000357	ARDG-000358	ARDG-000359	ARDG-000360	ARDG-000361
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s
HCl_add [mL]	40.00	30.00	40.00	40.00	40.00	35.00	30.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17.45	11.82	18.16	18.70	18.46	16.92	14.01
Final pH [no unit]	1.54	1.70	1.50	1.50	1.51	1.53	1.54
NP [t CaCO3/1000 t]	55.8	47.3	56.3	52.5	57.6	45.4	42.7
AP [t CaCO3/1000 t]	5.31	3.75	5.31	5.94	6.56	6.56	4.06
Net NP [t CaCO3/1000 t]	50.5	43.6	51.0	46.6	51.0	38.8	38.6
NP/AP [ratio]	10.5	12.6	10.6	8.84	8.78	6.92	10.5
S [%]	0.161	0.212	0.165	0.227	0.265	0.301	0.278
Acid Leachable SO4-S [%]	< 0.04	0.09	< 0.04	< 0.04	0.06	0.09	0.15
Sulphide [%]	0.17	0.12	0.17	0.19	0.21	0.21	0.13
C [%]	0.726	0.815	0.773	0.848	0.786	0.866	0.735
CO3 (HCl) [%]	3.20	3.56	3.42	3.71	3.36	3.70	3.12

Analysis	15:	16:	17:	18:	19:	20:	21:
	ARDG-000362	ARDG-000363	ARDG-000364	ARDG-00036	ARDG-000366	ARDG-000367	ARDG-000368
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	5-TIR01B-100	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	45MS07-Mg	5MS07-Kwa-s	5MS07-Kwa-s	5MS07-Kwa-s
Sample Date & Time	17-Aug-22	17-Aug-22	17-Aug-22	18-Aug-22	18-Aug-22	18-Aug-22	18-Aug-22
Paste pH [no unit]	8.65	8.78	8.68	8.39	8.56	8.65	8.63
Fizz Rate [rating]	3	2	2	4	2	2	3
Sample weight [g]	1.97	1.82	1.88	1.97	1.86	1.84	1.90
HCl_add [mL]	30.00	30.00	30.00	40.00	30.00	30.00	30.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11.40	15.58	13.65	17.77	11.31	14.55	11.57
Final pH [no unit]	1.61	1.54	1.62	1.61	1.73	1.55	1.70
NP [t CaCO3/1000 t]	47.2	39.6	43.5	56.4	50.2	42.0	48.5
AP [t CaCO3/1000 t]	4.38	3.44	3.44	5.31	5.62	3.75	6.88
Net NP [t CaCO3/1000 t]	42.8	36.2	40.1	51.1	44.6	38.2	41.6
NP/AP [ratio]	10.8	11.5	12.7	10.6	8.92	11.2	7.05
S [%]	0.260	0.249	0.217	0.285	0.316	0.188	0.280
Acid Leachable SO4-S [%]	0.12	0.14	0.11	0.12	0.14	0.07	0.06
Sulphide [%]	0.14	0.11	0.11	0.17	0.18	0.12	0.22
C [%]	0.765	0.692	0.583	0.704	0.814	0.668	0.730
CO3 (HCl) [%]	3.32	2.96	2.50	2.98	3.43	2.79	3.15

Analysis	22:	23:
	ARDG-000369	ARDG-000370
	-TIR01B-1004	-TIR01B-1004
	5MS07-Kwa-s	5MS07-Kwa-s
Sample Date & Time	19-Aug-22	19-Aug-22
Paste pH [no unit]	8.75	8.65
Fizz Rate [rating]	2	2
Sample weight [g]	1.91	1.95
HCl_add [mL]	35.00	35.00
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	15.27	16.36
Final pH [no unit]	1.52	1.50
NP [t CaCO3/1000 t]	51.6	47.8
AP [t CaCO3/1000 t]	6.56	5.00
Net NP [t CaCO3/1000 t]	45.0	42.8
NP/AP [ratio]	7.86	9.56
S [%]	0.271	0.257
Acid Leachable SO4-S [%]	0.06	0.10
Sulphide [%]	0.21	0.16
C [%]	0.802	0.727
CO3 (HCl) [%]	3.47	3.23

ABA - Modified Sobek

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

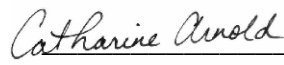

 Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.



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Project : PO#1124452

29-November-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 17 October 2022
LR Report: CA19150-OCT22

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CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000371 -TIR01B-1003 5MS01-Kwa-s	ARDG-000372 -TIR01B-1003 5MS01-Kwa-s	ARDG-000373 -TIR01B-1003 5MS01-Kwa-s
Sample Date & Time					27-Aug-22	27-Aug-22	27-Aug-22
Paste pH [no unit]	16-Nov-22	09:47	18-Nov-22	10:59	8.86	8.67	8.89
Fizz Rate [rating]	16-Nov-22	09:47	18-Nov-22	10:59	2	3	2
Sample weight [g]	16-Nov-22	09:47	18-Nov-22	10:59	1.98	1.96	1.90
HCl_add [mL]	16-Nov-22	09:47	18-Nov-22	10:59	45.00	45.00	40.00
HCl [Normality]	16-Nov-22	09:47	18-Nov-22	10:59	0.10	0.10	0.10
NaOH [Normality]	16-Nov-22	09:47	18-Nov-22	10:59	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Nov-22	09:47	18-Nov-22	10:59	16.85	13.95	16.16
Final pH [no unit]	16-Nov-22	09:47	18-Nov-22	10:59	1.72	1.89	1.62
NP [t CaCO3/1000 t]	16-Nov-22	09:47	18-Nov-22	10:59	71.1	79.2	62.7
AP [t CaCO3/1000 t]	22-Nov-22	09:44	22-Nov-22	09:45	4.69	5.31	7.81
Net NP [t CaCO3/1000 t]	22-Nov-22	09:44	22-Nov-22	09:45	66.4	73.9	54.9
NP/AP [ratio]	22-Nov-22	09:45	22-Nov-22	09:45	15.2	14.9	8.03
S [%]	15-Nov-22	11:04	22-Nov-22	09:43	0.291	0.302	0.324
Acid Leachable SO4-S [%]	22-Nov-22	09:42	22-Nov-22	09:43	0.14	0.13	0.07
Sulphide [%]	21-Nov-22	19:05	22-Nov-22	09:43	0.15	0.17	0.25
C [%]	15-Nov-22	11:04	22-Nov-22	09:43	1.05	1.16	0.928
CO3 (HCl) [%]	23-Nov-22	15:05	23-Nov-22	15:05	4.82	5.27	4.16

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000374 -TIR01B-1003 5MS01-Kwa-s	ARDG-000375 -TIR01B-1003 5MS01-Kwa-s	ARDG-00037 -TIR01B-1007 35MS01-Mv	ARDG-00037 -TIR01B-1008 35MS01-Mv	ARDG-00037 -TIR01B-1009 35MS01-Mv	ARDG-00037 -TIR01B-100 35MS01-Mv	ARDG-000380 -TIR01B-1003 5MS01-Kwa-s
Sample Date & Time	27-Aug-22	27-Aug-22	28-Aug-22	28-Aug-22	28-Aug-22	28-Aug-22	29-Aug-22
Paste pH [no unit]	8.71	8.75	8.36	8.48	8.64	8.89	8.63
Fizz Rate [rating]	2	2	4	4	4	4	3
Sample weight [g]	1.95	1.88	2.00	1.87	2.12	1.91	2.02

Online LIMS

0003139142

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000374	ARDG-000375	ARDG-00037	ARDG-00037	ARDG-00037	ARDG-00037	ARDG-000380
	-TIR01B-1003	-TIR01B-10036	-TIR01B-1007	-TIR01B-1008	-TIR01B-1009	-TIR01B-100	-TIR01B-1003
	5MS01-Kwa-s	5MS01-Kwa-s	35MS01-Mv	35MS01-Mv	35MS01-Mv	35MS01-Mv	5MS01-Kwa-s
HCl_add [mL]	35.00	30.00	165.00	150.00	185.00	95.00	30.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17.85	13.40	61.25	54.40	65.96	31.70	10.42
Final pH [no unit]	1.50	1.51	1.53	1.56	1.56	1.52	1.76
NP [t CaCO3/1000 t]	44.0	44.2	259	256	281	166	48.5
AP [t CaCO3/1000 t]	5.00	5.00	7.19	6.25	6.25	1.88	5.00
Net NP [t CaCO3/1000 t]	39.0	39.2	252	249	275	164	43.5
NP/AP [ratio]	8.80	8.84	36.1	40.9	44.9	88.4	9.70
S [%]	0.223	0.231	0.262	0.281	0.289	0.110	0.256
Acid Leachable SO4-S [%]	0.06	0.07	< 0.04	0.08	0.09	0.05	0.10
Sulphide [%]	0.16	0.16	0.23	0.20	0.20	0.06	0.16
C [%]	0.711	0.689	3.56	3.59	3.78	2.14	0.717
CO3 (HCl) [%]	2.85	2.98	17.4	17.5	18.4	10.3	3.11

Analysis	15:	16:
	ARDG-000381	ARDG-000382
	-TIR01B-1003	-TIR01B-1003
	5MS01-Kwa-s	5MS01-Kwa-s
Sample Date & Time	29-Aug-22	29-Aug-22
Paste pH [no unit]	8.38	8.56
Fizz Rate [rating]	3	3
Sample weight [g]	1.90	1.90
HCl_add [mL]	45.00	45.00
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	13.88	19.60
Final pH [no unit]	1.87	1.65
NP [t CaCO3/1000 t]	81.9	66.8
AP [t CaCO3/1000 t]	5.31	11.6
Net NP [t CaCO3/1000 t]	76.6	55.2
NP/AP [ratio]	15.4	5.78
S [%]	0.239	0.511
Acid Leachable SO4-S [%]	0.07	0.14
Sulphide [%]	0.17	0.37
C [%]	1.22	1.07
CO3 (HCl) [%]	5.60	4.57

ABA - Modified Sobek

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

Weight of Sample

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Project : PO#1124452

LR Report : CA19150-OCT22

*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 <0.04 will be calculated using a 0.04 value.

Revised sample dates.

Catharine Arnold



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Project : PO#1124452

29-November-2022

Date Rec. : 17 October 2022
LR Report: CA19152-OCT22
Reference: Meliadine

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: ARDG-000371 ARDG-000372 -TIR01B-1003 5MS01-Kwa-s	6: ARDG-000372 -TIR01B-1003 5MS01-Kwa-s	7: ARDG-000373 -TIR01B-1003 5MS01-Kwa-s
Sample Date & Time					27-Aug-22	27-Aug-22	27-Aug-22
Sample weight [g]	17-Nov-22	06:30	18-Nov-22	16:19	250	250	250
Volume D.I. Water [mL]	17-Nov-22	06:30	18-Nov-22	16:19	750	750	750
Final pH [no unit]	18-Nov-22	06:30	18-Nov-22	16:19	8.80	8.94	8.78
pH [No unit]	21-Nov-22	06:48	23-Nov-22	09:46	7.87	7.95	7.93
Conductivity [uS/cm]	21-Nov-22	06:48	23-Nov-22	09:46	278	273	318
Alkalinity [mg/L as CaCO3]	21-Nov-22	06:48	23-Nov-22	09:46	56	55	52
SO4 [mg/L]	21-Nov-22	08:03	22-Nov-22	09:38	47	54	58
Hg [mg/L]	25-Nov-22	07:24	25-Nov-22	14:24	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.582	0.641	0.513
As [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.128	0.102	0.127
Ba [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00367	0.00355	0.00490
B [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.016	0.015	0.015
Be [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.000009	< 0.000007	< 0.000007
Bi [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	14.7	16.0	16.1
Cd [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.000008	0.000004	0.000003
Co [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.000059	0.000086	0.000083
Cr [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00009	< 0.00008	< 0.00008
Cu [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.0003	< 0.0002	0.0003
Fe [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.007	< 0.007	< 0.007
K [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	21.9	24.1	22.2
Li [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.0016	0.0016	0.0020
Mg [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	5.13	5.59	6.74
Mn [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00141	0.00163	0.00176
Mo [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00941	0.00595	0.0135

Online LIMS

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Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000371 -TIR01B-1003 5MS01-Kwa-s	ARDG-000372 -TIR01B-1003 5MS01-Kwa-s	ARDG-000373 -TIR01B-1003 5MS01-Kwa-s
Na [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	20.3	19.1	27.4
Ni [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.0001	0.0001	0.0004
Pb [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.0066	0.0079	0.0079
Se [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00059	0.00094	0.00107
Si [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	1.87	2.00	2.03
Sn [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00015	< 0.00006	0.00013
Sr [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.0665	0.0787	0.0938
Ti [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00015	0.00021	0.00009
Tl [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.000010	0.000008	0.000008
U [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.000436	0.000579	0.000522
W [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00730	0.00656	0.00595
V [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	0.00123	0.00138	0.00153
Zn [mg/L]	24-Nov-22	10:00	29-Nov-22	09:26	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000374 -TIR01B-1003 5MS01-Kwa-s	ARDG-000375 -TIR01B-1003 5MS01-Kwa-s	ARDG-000376 -TIR01B-1003 5MS01-Mv	ARDG-000377 -TIR01B-1003 5MS01-Mv	ARDG-000378 -TIR01B-1003 5MS01-Mv	ARDG-000379 -TIR01B-1003 5MS01-Mv
Sample Date & Time	27-Aug-22	27-Aug-22	28-Aug-22	28-Aug-22	28-Aug-22	28-Aug-22
Sample weight [g]	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.95	8.92	8.63	8.72	8.76	8.62
pH [No unit]	7.76	7.87	7.95	7.99	7.82	7.90
Conductivity [uS/cm]	305	269	600	550	320	196
Alkalinity [mg/L as CaCO3]	47	48	62	64	63	49
SO4 [mg/L]	63	61	72	62	73	24
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.562	0.549	0.335	0.370	0.387	0.736
As [mg/L]	0.127	0.0628	0.0484	0.0596	0.0024	0.0053
Ba [mg/L]	0.00509	0.00492	0.00079	0.00076	0.00084	0.00219
B [mg/L]	0.017	0.016	0.024	0.025	0.017	0.018
Be [mg/L]	< 0.000007	0.000008	< 0.000007	< 0.000007	< 0.000007	0.000010
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14.6	14.2	20.6	18.4	15.8	9.62
Cd [mg/L]	0.000014	0.000007	0.000010	0.000014	0.000003	0.000008
Co [mg/L]	0.000065	0.000060	0.000184	0.000167	0.000014	< 0.000004
Cr [mg/L]	< 0.00008	0.00009	< 0.00008	0.00011	< 0.00008	0.00010
Cu [mg/L]	0.0004	0.0003	0.0004	0.0006	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	0.007	0.021	< 0.007	0.007

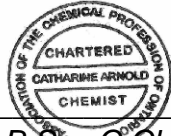
Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000374	ARDG-000375	ARDG-000376	ARDG-000377	ARDG-000378	ARDG-000379
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	5MS01-Kwa-s	5MS01-Kwa-s	5MS01-Mv	5MS01-Mv	5MS01-Mv	5MS01-Mv
K [mg/L]	21.3	21.4	5.58	5.68	3.33	2.61
Li [mg/L]	0.0020	0.0022	0.0028	0.0025	0.0024	0.0014
Mg [mg/L]	5.85	6.11	13.6	12.0	10.1	2.29
Mn [mg/L]	0.00179	0.00203	0.00535	0.00426	0.00393	0.00181
Mo [mg/L]	0.00886	0.00625	0.00581	0.00633	0.00407	0.00310
Na [mg/L]	24.9	19.1	74.4	69.8	33.0	25.9
Ni [mg/L]	0.0001	0.0002	0.0002	0.0002	< 0.0001	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0053	0.0047	0.0035	0.0030	0.0015	0.0016
Se [mg/L]	0.00092	0.00069	0.00192	0.00190	0.00266	0.00088
Si [mg/L]	2.02	2.06	1.68	1.51	1.52	1.24
Sn [mg/L]	0.00019	0.00017	0.00039	0.00084	0.00030	0.00035
Sr [mg/L]	0.0856	0.0788	0.0320	0.0280	0.0184	0.0159
Ti [mg/L]	0.00021	0.00016	0.00011	0.00007	0.00006	< 0.00005
Tl [mg/L]	0.000010	0.000012	< 0.000005	0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000579	0.000527	0.000084	0.000052	0.000221	0.000008
W [mg/L]	0.00443	0.00429	0.00182	0.00185	0.00218	0.00161
V [mg/L]	0.00197	0.00162	0.00107	0.00144	0.00109	0.00157
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14:	15:	16:
	ARDG-000380	ARDG-000381	ARDG-000382
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	5MS01-Kwa-s	5MS01-Kwa-s	5MS01-Kwa-s
Sample Date & Time	29-Aug-22	29-Aug-22	29-Aug-22
Sample weight [g]	250	250	250
Volume D.I. Water [mL]	750	750	750
Final pH [no unit]	8.61	8.49	8.43
pH [No unit]	7.76	7.71	7.80
Conductivity [uS/cm]	325	1130	359
Alkalinity [mg/L as CaCO3]	44	53	58
SO4 [mg/L]	66	87	84
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.542	0.310	0.401
As [mg/L]	0.0250	0.0719	0.0171
Ba [mg/L]	0.00539	0.0135	0.00440
B [mg/L]	0.015	0.023	0.016
Be [mg/L]	< 0.000007	< 0.000007	0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16.4	31.1	22.5

Analysis	14: ARDG-000380 -TIR01B-1003 5MS01-Kwa-s	15: ARDG-000381 -TIR01B-1003 5MS01-Kwa-s	16: ARDG-000382 -TIR01B-1003 5MS01-Kwa-s
Cd [mg/L]	0.000013	0.000005	0.000005
Co [mg/L]	0.000037	0.000378	0.000049
Cr [mg/L]	< 0.00008	0.00009	0.00011
Cu [mg/L]	0.0003	0.0006	0.0002
Fe [mg/L]	< 0.007	0.008	0.007
K [mg/L]	21.7	36.7	26.0
Li [mg/L]	0.0023	0.0031	0.0016
Mg [mg/L]	6.12	19.0	8.98
Mn [mg/L]	0.00163	0.00538	0.00304
Mo [mg/L]	0.00597	0.0170	0.00917
Na [mg/L]	26.8	142	22.0
Ni [mg/L]	< 0.0001	0.0007	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0031	0.0068	0.0046
Se [mg/L]	0.00090	0.00089	0.00294
Si [mg/L]	1.91	1.90	1.58
Sn [mg/L]	0.00024	0.00014	0.00027
Sr [mg/L]	0.102	0.247	0.109
Ti [mg/L]	0.00024	0.00010	0.00013
Tl [mg/L]	0.000016	0.000024	0.000006
U [mg/L]	0.000382	0.000555	0.000354
W [mg/L]	0.00291	0.00757	0.00257
V [mg/L]	0.00120	0.00068	0.00060
Zn [mg/L]	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Revised sample dates.

Catharine Arnold

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Project Specialist,
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Project : PO#1124452

16-December-2022

Date Rec. : 17 October 2022

LR Report: CA19151-OCT22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000371-T IR01B-10035MS 01-Kwa-s	6: ARDG-000372-T IR01B-10035MS 01-Kwa-s	7: ARDG-000373-T IR01B-10035MS 01-Kwa-s	8: ARDG-000374-T IR01B-10035MS 01-Kwa-s	9: ARDG-000375-T IR01B-10035MS 01-Kwa-s	10: ARDG-000377-T IR01B-10035MS 01-Mv	11: ARDG-000378-T IR01B-10035MS 01-Mv	12: ARDG-000378-T IR01B-10035MS 01-Mv
Sample Date & Time					27-Aug-22	27-Aug-22	27-Aug-22	27-Aug-22	27-Aug-22	28-Aug-22	28-Aug-22	28-Aug-22
Ag [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	76000	78000	77000	79000	78000	63000	64000	63000
As [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	1000	230	400	140	80	150	140	16
Ba [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	730	820	830	890	850	91	93	110
Be [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	1	1	1	1	1	0.35	0.36	0.35
Bi [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	0.73	0.33	0.51	0.33	0.37	< 0.09	< 0.09	< 0.09
Ca [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	18000	22000	17000	12000	13000	69000	67000	81000
Cd [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	0.11	0.04	0.10	0.07	0.07	0.12	0.13	0.11
Co [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	17	19	16	17	16	36	38	33
Cr [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	120	110	120	140	130	180	180	190
Cu [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	60	29	37	42	43	86	76	78
Fe [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	49000	42000	37000	35000	33000	68000	67000	59000
K [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	18000	20000	16000	15000	15000	4000	4000	4200
Li [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	39	35	39	44	41	97	97	65
Mg [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	11000	10000	11000	12000	11000	26000	27000	20000
Mn [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	320	310	270	270	270	1400	1400	1300
Mo [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	3.8	2.8	4.0	3.4	3.3	2.0	1.8	1.8
Ni [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	57	53	50	58	55	91	94	93
Pb [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	70	20	12	20	25	6	6	5
Sb [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	0.9	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

OnLine LIMS

0003161437



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Project : PO#1124452

LR Report : CA19151-OCT22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000371-T IR01B-10035MS 01-Kwa-s	6: ARDG-000372-T IR01B-10035MS 01-Kwa-s	7: ARDG-000373-T IR01B-10035MS 01-Kwa-s	8: ARDG-000374-T IR01B-10035MS 01-Kwa-s	9: ARDG-000375-T IR01B-10035MS 01-Kwa-s	10: ARDG-000376-T IR01B-10035MS 01-Mv	11: ARDG-000377-T IR01B-10035MS 01-Mv	12: ARDG-000378-T IR01B-10035MS 01-Mv
Se [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	7.4	7.2	7.7	7.1	7.0	7.2	6.8	6.8
Sr [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	280	350	410	400	380	130	120	110
Ti [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	3400	3700	3200	1800	2200	2300	2200	2800
Tl [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	0.56	0.66	0.52	0.49	0.52	0.25	0.24	0.26
U [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	1.98	2.12	2.03	2.17	2.07	0.16	0.12	0.096
V [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	95	94	84	85	80	200	200	210
Y [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	7.94	9.46	8.48	7.06	7.02	6.30	6.24	6.84
Zn [µg/g]	04-Dec-22	17:40	08-Dec-22	14:18	58	51	67	79	69	100	92	67

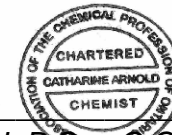
Analysis	13: ARDG-000379-T IR01B-10035MS 01-Mv	14: ARDG-000380-T IR01B-10035MS 01-Kwa-s	15: ARDG-000381-T IR01B-10035MS 01-Kwa-s	16: ARDG-000382-T IR01B-10035MS 01-Kwa-s
Sample Date & Time	28-Aug-22	29-Aug-22	29-Aug-22	29-Aug-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	72000	18000	71000	79000
As [µg/g]	14	4.1	82	150
Ba [µg/g]	370	92	720	660
Be [µg/g]	0.87	0.25	1	1
Bi [µg/g]	< 0.09	< 0.09	0.16	0.34
Ca [µg/g]	57000	15000	23000	18000
Cd [µg/g]	0.08	< 0.02	0.08	0.03
Co [µg/g]	31	8	16	20
Cr [µg/g]	150	39	120	120
Cu [µg/g]	58	15	21	70
Fe [µg/g]	59000	15000	42000	71000
K [µg/g]	6800	1800	16000	16000
Li [µg/g]	67	16	34	54
Mg [µg/g]	15000	3800	11000	15000
Mn [µg/g]	1100	280	340	410
Mo [µg/g]	1.9	2.4	3.5	3.0
Ni [µg/g]	76	20	45	61
Pb [µg/g]	4	1	9	25
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8

OnLine LIMS

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Analysis	13:	14:	15:	16:
	ARDG-000379-T IR01B-10035MS 01-Mv	ARDG-000380-T IR01B-10035MS 01-Kwa-s	ARDG-000381-T IR01B-10035MS 01-Kwa-s	ARDG-000382-T IR01B-10035MS 01-Kwa-s
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	6.9	< 6	7.1	7.3
Sr [µg/g]	170	43	340	300
Ti [µg/g]	2000	500	3200	3800
Tl [µg/g]	0.22	0.06	0.52	0.50
U [µg/g]	0.54	0.14	1.77	2.03
V [µg/g]	150	40	84	100
Y [µg/g]	6.80	1.78	8.30	9.14
Zn [µg/g]	73	21	52	83

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Project : PO#1124452

30-September-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 07 September 2022
LR Report: CA19041-SEP22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000383-T IR01B-10040MS 12-Kwa-s	ARDG-000384-T IR01B-10040MS 12-Kwa-s	ARDG-000385-T IR01B-10040MS 12-Kwa-s
Sample Date & Time					30-Aug-22	30-Aug-22	30-Aug-22
Paste pH [no unit]	19-Sep-22	08:45	21-Sep-22	11:49	8.77	8.73	8.85
Fizz Rate [no unit]	19-Sep-22	08:45	21-Sep-22	11:49	4	4	4
Sample weight [g]	19-Sep-22	08:45	21-Sep-22	11:49	2.00	1.99	2.00
HCl_add [mL]	19-Sep-22	08:45	21-Sep-22	11:49	185.00	200.00	95.00
HCl [Normality]	19-Sep-22	08:45	21-Sep-22	11:49	0.10	0.10	0.10
NaOH [Normality]	19-Sep-22	08:45	21-Sep-22	11:49	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	19-Sep-22	08:45	21-Sep-22	11:49	82.74	94.42	48.90
Final pH [no unit]	19-Sep-22	08:45	21-Sep-22	11:49	1.61	1.61	1.63
NP [t CaCO3/1000 t]	19-Sep-22	08:45	21-Sep-22	11:49	256	265	115
AP [t CaCO3/1000 t]	23-Sep-22	16:21	23-Sep-22	16:22	6.56	6.88	20.6
Net NP [t CaCO3/1000 t]	23-Sep-22	16:21	23-Sep-22	16:22	249	258	94.6
NP/AP [ratio]	23-Sep-22	16:21	23-Sep-22	16:22	38.9	38.6	5.59
S [%]	21-Sep-22	11:19	23-Sep-22	16:21	0.240	0.243	0.696
Acid Leachable SO4-S [%]	23-Sep-22	16:21	23-Sep-22	16:21	< 0.04	< 0.04	< 0.04
Sulphide [%]	23-Sep-22	15:02	23-Sep-22	16:21	0.21	0.22	0.66
C [%]	21-Sep-22	11:19	23-Sep-22	16:21	3.21	3.34	1.50
CO3 (HCl) [%]	26-Sep-22	10:14	28-Sep-22	09:28	15.4	15.9	6.94

Analysis	8:	9:	10:	11:
	ARDG-000386-T IR01B-10040MS 12-Kwa-s	ARDG-000387-T IR01B-10040MS 12-Kwa-s	ARDG-000388-T IR01B-10040MS 12-Kwa-s	ARDG-000389-T IR01B-10040MS 12-Kwa-s
Sample Date & Time	02-Sep-22	02-Sep-22	02-Sep-22	02-Sep-22
Paste pH [no unit]	9.19	8.88	8.85	9.28
Fizz Rate [no unit]	3	4	3	3
Sample weight [g]	2.01	2.00	2.00	2.02
HCl_add [mL]	50.00	105.00	55.00	55.00
HCl [Normality]	0.10	0.10	0.10	0.10

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Project : PO#1124452

LR Report : CA19041-SEP22

Analysis	8: ARDG-000386-T IR01B-10040MS 12-Kwa-s	9: ARDG-000387-T IR01B-10040MS 12-Kwa-s	10: ARDG-000388-T IR01B-10040MS 12-Kwa-s	11: ARDG-000389-T IR01B-10040MS 12-Kwa-s
NaOH [Normality]	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30.75	49.44	34.56	32.60
Final pH [no unit]	1.70	1.73	1.68	1.65
NP [t CaCO3/1000 t]	47.9	139	51.1	55.4
AP [t CaCO3/1000 t]	5.31	13.8	3.12	4.69
Net NP [t CaCO3/1000 t]	42.6	125	48.0	50.7
NP/AP [ratio]	9.02	10.1	16.4	11.8
S [%]	0.204	0.505	0.130	0.186
Acid Leachable SO4-S [%]	< 0.04	0.06	< 0.04	< 0.04
Sulphide [%]	0.17	0.44	0.10	0.15
C [%]	0.593	2.11	0.690	0.717
CO3 (HCl) [%]	2.09	9.90	2.83	2.98

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

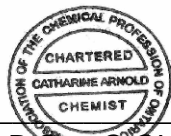
 Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
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Project : PO#1124452

27-September-2022

Date Rec. : 07 September 2022
LR Report: CA19043-SEP22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000383-T IR01B-10040MS 12-Kwa-s	6: ARDG-000384-T IR01B-10040MS 12-Kwa-s	7: ARDG-000385-T IR01B-10040MS 12-Kwa-s
Sample Date & Time					30-Aug-22	30-Aug-22	30-Aug-22
Sample weight [g]	15-Sep-22	07:45	16-Sep-22	17:41	250	250	250
Volume D.I. Water [mL]	15-Sep-22	07:45	16-Sep-22	17:41	750	750	750
Final pH [no unit]	15-Sep-22	07:45	16-Sep-22	17:41	8.58	8.75	8.68
pH [No unit]	16-Sep-22	16:44	19-Sep-22	14:51	7.91	7.97	7.90
Conductivity [uS/cm]	16-Sep-22	16:44	19-Sep-22	14:51	334	314	562
Alkalinity [mg/L as CaCO3]	16-Sep-22	16:44	19-Sep-22	14:51	54	57	49
SO4 [mg/L]	20-Sep-22	08:35	21-Sep-22	20:27	28	26	61
Hg [mg/L]	20-Sep-22	12:00	21-Sep-22	12:07	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.409	0.418	0.413
As [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.0021	0.0017	0.0593
Ba [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.00145	0.00109	0.00359
B [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.018	0.019	0.053
Be [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	13.3	12.9	16.6
Cd [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.000004	< 0.000003	0.000005
Co [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.000016	0.000010	0.000030
Cr [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.007	< 0.007	< 0.007
K [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	5.33	5.32	20.8
Li [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.0013	0.0013	0.0022
Mg [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	4.64	4.44	4.30
Mn [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.00322	0.00277	0.00312
Mo [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.0153	0.0136	0.0444
Na [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	37.8	36.2	64.9
Ni [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.0001	< 0.0001	0.0002

Online LIMS

0003063231



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Project : PO#1124452


LR Report : CA19043-SEP22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000383-T IR01B-10040MS 12-Kwa-s	ARDG-000384-T IR01B-10040MS 12-Kwa-s	ARDG-000385-T IR01B-10040MS 12-Kwa-s
Pb [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.0020	0.0017	0.0022
Se [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.00039	0.00025	0.00085
Si [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.58	0.60	1.05
Sn [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.0413	0.0378	0.0840
Ti [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.00006	< 0.00005	0.00007
Tl [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.000005	0.000005	0.000017
U [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.000003	0.000003	0.000208
W [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.00125	0.00115	0.00414
V [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	0.00064	0.00060	0.00077
Zn [mg/L]	21-Sep-22	23:58	23-Sep-22	09:02	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:
	ARDG-000386-T IR01B-10040MS 12-Kwa-s	ARDG-000387-T IR01B-10040MS 12-Kwa-s	ARDG-000388-T IR01B-10040MS 12-Kwa-s	ARDG-000389-T IR01B-10040MS 12-Kwa-s	ARDG-000389-T IR01B-10040MS 12-Kwa-s
Sample Date & Time	02-Sep-22	02-Sep-22	02-Sep-22	02-Sep-22	
Sample weight [g]	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750
Final pH [no unit]	9.25	9.01	8.96	9.15	9.18
pH [No unit]	7.96	8.11	7.90	7.97	8.03
Conductivity [uS/cm]	213	340	581	177	196
Alkalinity [mg/L as CaCO3]	56	63	51	57	58
SO4 [mg/L]	15	30	34	9	11
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.649	0.556	0.389	0.756	0.732
As [mg/L]	0.0951	0.194	0.193	0.0991	0.0912
Ba [mg/L]	0.00336	0.00535	0.00525	0.00147	0.00144
B [mg/L]	0.020	0.017	0.022	0.013	0.014
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00002	0.00002
Ca [mg/L]	7.34	12.3	15.6	7.69	7.68
Cd [mg/L]	< 0.000003	0.000005	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000026	0.000030	0.000059	0.000011	0.000014
Cr [mg/L]	0.00008	< 0.00008	0.00023	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	0.010	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	21.0	21.4	25.7	16.4	17.2
Li [mg/L]	0.0008	0.0028	0.0015	0.0007	0.0007
Mg [mg/L]	1.59	4.64	3.77	1.82	1.90
Mn [mg/L]	0.00077	0.00360	0.00136	0.00052	0.00056
Mo [mg/L]	0.00667	0.0200	0.0221	0.00684	0.00691

Analysis	8: ARDG-000386-T IR01B-10040MS 12-Kwa-s	9: ARDG-000387-T IR01B-10040MS 12-Kwa-s	10: ARDG-000388-T IR01B-10040MS 12-Kwa-s	11: ARDG-000389-T IR01B-10040MS 12-Kwa-s	12: ARDG-000389-T IR01B-10040MS 12-Kwa-s
Na [mg/L]	16.9	30.0	65.1	14.0	15.7
Ni [mg/L]	0.0002	0.0002	0.0004	< 0.0001	0.0001
Pb [mg/L]	< 0.00009	0.00175	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0059	0.0152	0.0049	0.0062	0.0059
Se [mg/L]	0.00018	0.00076	0.00077	0.00006	0.00005
Si [mg/L]	1.05	1.21	1.15	1.21	1.21
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0415	0.107	0.0854	0.0380	0.0391
Ti [mg/L]	0.00056	0.00006	0.00011	0.00007	0.00021
Tl [mg/L]	0.000011	0.000009	0.000027	0.000005	0.000006
U [mg/L]	0.000067	0.000320	0.000088	0.000182	0.000158
W [mg/L]	0.00304	0.0182	0.00460	0.00410	0.00719
V [mg/L]	0.00310	0.00110	0.00186	0.00346	0.00327
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

04-October-2022

Date Rec. : 07 September 2022
LR Report: CA19042-SEP22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000383-T IR01B-10040MS 12-Kwa-s	6: ARDG-000384-T IR01B-10040MS 12-Kwa-s	7: ARDG-000385-T IR01B-10040MS 12-Kwa-s
Sample Date & Time					30-Aug-22	30-Aug-22	30-Aug-22
Ag [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	< 0.5	< 0.5	< 0.5
Al [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	74000	73000	76000
As [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	30	52	730
Ba [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	66	63	360
Be [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.37	0.38	1
Bi [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	< 0.09	< 0.09	0.36
Ca [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	89000	95000	43000
Cd [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.22	0.12	0.12
Co [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	41	44	25
Cr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	100	120	140
Cu [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	85	93	71
Fe [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	70000	72000	49000
K [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	5500	5600	21000
Li [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	42	47	22
Mg [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	23000	23000	11000
Mn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	1600	1600	470
Mo [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.8	1.0	1.9
Ni [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	110	110	93
Pb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	6	6	10
Sb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	1.0	1.1	< 0.8
Se [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	< 0.7	< 0.7	< 0.7
Sn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	< 6	< 6	< 6
Sr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	200	210	160
Ti [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	2400	2500	2200
Tl [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.24	0.25	0.82
U [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.080	0.086	1.31
V [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	210	210	97
Y [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	7.29	9.25	10.8
Zn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	110	93	63

Online LIMS

0003072397

Analysis	8: ARDG-000386-T IR01B-10040MS 12-Kwa-s	9: ARDG-000387-T IR01B-10040MS 12-Kwa-s	10: ARDG-000388-T IR01B-10040MS 12-Kwa-s	11: ARDG-000389-T IR01B-10040MS 12-Kwa-s
Sample Date & Time	02-Sep-22	02-Sep-22	02-Sep-22	02-Sep-22
Ag [µg/g]	< 0.5	1.1	< 0.5	1.1
Al [µg/g]	75000	78000	87000	86000
As [µg/g]	190	1700	560	150
Ba [µg/g]	960	730	590	520
Be [µg/g]	1	2	1	1
Bi [µg/g]	0.26	1	0.27	0.32
Ca [µg/g]	10000	44000	12000	14000
Cd [µg/g]	0.08	0.41	0.11	0.15
Co [µg/g]	24	13	24	20
Cr [µg/g]	140	58	100	75
Cu [µg/g]	49	37	47	43
Fe [µg/g]	45000	37000	46000	39000
K [µg/g]	25000	22000	24000	20000
Li [µg/g]	31	7.1	32	27
Mg [µg/g]	17000	12000	17000	15000
Mn [µg/g]	360	590	390	340
Mo [µg/g]	1.8	3.3	3.2	2.0
Ni [µg/g]	77	18	79	64
Pb [µg/g]	17	620	20	25
Sb [µg/g]	< 0.8	1.3	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	280	570	260	360
Ti [µg/g]	3600	2800	3500	1700
Tl [µg/g]	0.56	0.50	0.55	0.44
U [µg/g]	1.42	1.10	1.49	1.33
V [µg/g]	110	64	110	85
Y [µg/g]	4.72	9.03	5.72	6.30
Zn [µg/g]	95	38	90	86

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Project : PO#1124452

04-October-2022

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Date Rec. : 12 September 2022
LR Report: CA19080-SEP22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis Time	ARDG-000390-T IR01B-10040MS 13-Kwa-s	ARDG-000391-T IR01B-10040MS 13-Kwa-s	ARDG-000392-T IR01B-10040MS 13-Kwa-s	ARDG-000393-T IR01B-10040MS 13-Kwa-s
Sample Date & Time					03-Sep-22	03-Sep-22	04-Sep-22	04-Sep-22
Paste pH [no unit]	26-Sep-22	16:02	28-Sep-22	10:32	8.48	8.49	8.90	9.12
Fizz Rate [rating]	26-Sep-22	16:02	28-Sep-22	10:32	4	4	4	3
Sample weight [g]	26-Sep-22	16:02	28-Sep-22	10:32	1.99	2.03	2.01	2.03
HCl_add [mL]	26-Sep-22	16:02	28-Sep-22	10:32	57.20	55.10	60.00	53.90
HCl [Normality]	26-Sep-22	16:02	28-Sep-22	10:32	0.10	0.10	0.10	0.10
NaOH [Normality]	26-Sep-22	16:02	28-Sep-22	10:32	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26-Sep-22	16:02	28-Sep-22	10:32	28.26	28.36	29.53	29.78
Final pH [no unit]	26-Sep-22	16:02	28-Sep-22	10:32	1.95	1.85	1.74	1.60
NP [t CaCO3/1000 t]	26-Sep-22	16:02	28-Sep-22	10:32	72.7	65.9	75.8	59.4
AP [t CaCO3/1000 t]	28-Sep-22	10:32	28-Sep-22	10:32	10.9	9.38	4.06	4.06
Net NP [t CaCO3/1000 t]	28-Sep-22	10:32	28-Sep-22	10:32	61.8	56.5	71.7	55.3
NP/AP [ratio]	28-Sep-22	10:32	28-Sep-22	10:32	6.65	7.03	18.7	14.6
S [%]	22-Sep-22	15:05	23-Sep-22	17:03	0.409	0.354	0.174	0.199
Acid Leachable SO4-S [%]	23-Sep-22	17:03	23-Sep-22	17:03	0.06	0.05	0.04	0.07
Sulphide [%]	23-Sep-22	15:52	23-Sep-22	17:03	0.35	0.30	0.13	0.13
C [%]	22-Sep-22	15:05	23-Sep-22	17:03	1.00	0.921	1.13	0.921
CO3 (HCl) [%]	26-Sep-22	08:13	26-Sep-22	11:03	4.56	4.11	5.14	3.97

Analysis	9:	10:	11:	12:	13:	14:	15:
	ARDG-000394-T IR01B-10040MS 13-Kwa-s	ARDG-000395-T IR01B-10040MS 13-Kwa-s	ARDG-000396-T IR01B-10040MS 13-Kwa-s	ARDG-000397-T IR01B-10040MS 13-Kwa-s	ARDG-000398-T IR01B-10040MS 13-Kwa-s	ARDG-000399-T IR01B-10040MS 13-Kwa-s	ARDG-000400-T IR01B-10040MS 13-Kwa-s
Sample Date & Time	05-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22
Paste pH [no unit]	8.50	9.10	8.91	9.09	9.14	9.17	9.14
Fizz Rate [rating]	3	3	3	3	3	3	3
Sample weight [g]	2.01	1.98	2.01	2.02	2.02	2.03	2.05
HCl_add [mL]	48.10	44.30	47.60	53.60	50.10	55.00	52.90
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26.04	25.83	25.60	31.28	26.22	29.74	22.34
Final pH [no unit]	1.70	1.65	1.64	1.58	1.58	1.61	1.92
NP [t CaCO3/1000 t]	54.9	46.6	54.7	55.2	59.1	62.2	74.5

Online LIMS

0003072430

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Project : PO#1124452

LR Report : CA19080-SEP22

Analysis	9:	10:	11:	12:	13:	14:	15:
	ARDG-000394-T	ARDG-000395-T	ARDG-000396-T	ARDG-000397-T	ARDG-000398-T	ARDG-000399-T	ARDG-000400-T
	IR01B-10040MS	IR01B-10040MS	IR01B-10040MS	IR01B-10040MS	IR01B-10040MS	IR01B-10040MS	IR01B-10040MS
	13-Kwa-s	13-Kwa-s	13-Kwa-s	13-Kwa-s	13-Kwa-s	13-Kwa-s	13-Kwa-s
AP [t CaCO ₃ /1000 t]	15.9	3.44	8.44	5.62	4.69	5.62	6.25
Net NP [t CaCO ₃ /1000 t]	39.0	43.2	46.3	49.6	54.4	56.6	68.2
NP/AP [ratio]	3.44	13.6	6.48	9.81	12.6	11.1	11.9
S [%]	0.627	0.174	0.355	0.233	0.220	0.254	0.297
Acid Leachable SO ₄ -S [%]	0.12	0.06	0.08	0.05	0.07	0.07	0.10
Sulphide [%]	0.51	0.11	0.27	0.18	0.15	0.18	0.20
C [%]	0.889	0.692	0.792	0.815	0.844	0.916	1.10
CO ₃ (HCl) [%]	3.85	2.94	3.56	3.68	3.80	4.16	5.05

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project : PO#1124452

04-October-2022

Date Rec. : 16 September 2022
LR Report: CA19111-SEP22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis ARDG-000401 Completed -TIR01B0-100 Time 40MS14-Kwa-	5: Analysis ARDG-000402 -TIR01B0-100 40MS14-Kwa-	6: Analysis ARDG-000403 -TIR01B0-100 40MS14-Kwa-	7: Analysis ARDG-000403 -TIR01B0-100 40MS14-Kwa-
Sample Date & Time				09-Sep-22	09-Sep-22	09-Sep-22	
CN(T) [µg/g]	28-Sep-22	11:34	29-Sep-22	16:12	< 10	< 10	< 10
CN(Free) [µg/g]	28-Sep-22	09:00	29-Sep-22	08:32	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	27-Sep-22	18:36	29-Sep-22	16:12	< 10	< 10	< 10
Ag [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 0.5	< 0.5	< 0.5
Al [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	68000	72000	72000
As [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	94	84	1900
Ba [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	530	560	500
Be [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	1	1	1
Bi [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	0.24	0.23	0.46
Ca [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	11000	11000	18000
Cd [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	0.07	0.11	0.14
Co [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	18	18	19
Cr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	71	59	63
Cu [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	47	45	30
Fe [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	36000	35000	36000
K [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	18000	18000	17000
Li [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	24	24	20
Mg [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	13000	12000	13000
Mn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	320	310	360
Mo [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	2.0	1.8	2.7
Ni [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	59	57	58
Pb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	10	10	30
Sb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 0.8	< 0.8	0.9
Se [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 0.7	< 0.7	< 0.7
Sn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 6	< 6	< 6

Online LIMS

0003072945

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Project : PO#1124452

LR Report : CA19111-SEP22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000401 -TIR01B0-100 40MS14-Kwas	ARDG-000402 -TIR01B0-100 40MS14-Kwas	ARDG-000403 -TIR01B0-100 40MS14-Kwas
Sr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	270	280	280
Ti [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	2200	2200	2500
Tl [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	0.38	0.38	0.40
U [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	1.13	1.25	1.34
V [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	75	83	74
Y [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	5.10	5.13	5.38
Zn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	77	76	68

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000404 -TIR01B0-100 40MS14-Kwas	ARDG-000405 -TIR01B0-100 40MS14-Kwas	ARDG-000406 -TIR01B0-100 40MS14-Kwas	ARDG-000407 -TIR01B0-100 40MS14-Kwas	ARDG-000408 -TIR01B0-100 40MS14-Kwas	ARDG-000409 -TIR01B0-100 40MS14-Kwas	ARDG-000410 -TIR01B0-100 40MS14-Kwas
Sample Date & Time	09-Sep-22	10-Sep-22	10-Sep-22	10-Sep-22	10-Sep-22	10-Sep-22	10-Sep-22
CN(T) [µg/g]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
CN(Free) [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5
Al [µg/g]	85000	81000	60000	74000	60000	71000	77000
As [µg/g]	76	58	75	430	590	47	150
Ba [µg/g]	470	540	530	650	650	440	490
Be [µg/g]	1	1	1	1	1	1	1
Bi [µg/g]	0.37	0.24	0.21	0.55	1	0.33	0.33
Ca [µg/g]	14000	16000	12000	11000	14000	11000	13000
Cd [µg/g]	0.70	0.12	0.17	0.13	0.23	0.11	0.08
Co [µg/g]	20	19	19	24	20	22	19
Cr [µg/g]	96	79	140	100	99	88	97
Cu [µg/g]	45	55	41	44	52	52	44
Fe [µg/g]	40000	39000	34000	48000	37000	38000	38000
K [µg/g]	20000	20000	16000	25000	21000	20000	21000
Li [µg/g]	29	27	24	38	21	29	27
Mg [µg/g]	15000	14000	11000	18000	13000	14000	14000
Mn [µg/g]	420	320	310	390	370	330	350
Mo [µg/g]	2.1	1.8	1.9	2.0	14	1.7	1.9
Ni [µg/g]	66	61	58	83	60	66	64
Pb [µg/g]	20	10	16	23	380	11	16
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	270	290	260	230	300	250	280


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LR Report : CA19111-SEP22

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000404	ARDG-000405	ARDG-000406	ARDG-000407	ARDG-000408	ARDG-000409	ARDG-000410
	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100
	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-
	s	s	s	s	s	s	s
Ti [µg/g]	1200	1800	1400	2200	2800	1300	2000
Tl [µg/g]	0.42	0.43	0.41	0.56	0.45	0.42	0.48
U [µg/g]	1.21	1.24	0.95	1.42	1.31	1.35	1.34
V [µg/g]	85	89	68	120	78	89	83
Y [µg/g]	5.92	5.99	2.85	5.24	4.28	5.52	5.47
Zn [µg/g]	120	66	81	92	65	83	73

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Project : PO#1124452

04-October-2022

Date Rec. : 12 September 2022
LR Report: CA19081-SEP22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000390-T IR01B-10040MS 13-Kwa-s	6: ARDG-000391-T IR01B-10040MS 13-Kwa-s	7: ARDG-000392-T IR01B-10040MS 13-Kwa-s	8: ARDG-000393-T IR01B-10040MS 13-Kwa-s	9: ARDG-000394-T IR01B-10040MS 13-Kwa-s
Sample Date & Time					03-Sep-22	03-Sep-22	04-Sep-22	04-Sep-22	05-Sep-22
Ag [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	71000	71000	78000	83000	86000
As [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	31	58	110	150	330
Ba [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	490	470	490	520	650
Be [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	1	1	1	1	1
Bi [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	0.30	0.26	0.16	0.34	0.32
Ca [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	25000	22000	23000	17000	16000
Cd [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	0.08	0.07	0.07	0.07	0.15
Co [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	14	15	9	19	21
Cr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	41	43	33	78	98
Cu [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	48	54	20	49	67
Fe [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	96000	96000	57000	37000	55000
K [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	10000	10000	19000	23000	20000
Li [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	24	23	20	15	28
Mg [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	13000	13000	9200	12000	14000
Mn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	400	370	350	300	430
Mo [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	2.1	1.8	1.4	2.0	2.3
Ni [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	44	47	21	56	64
Pb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	5	5	7	12	15
Sb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	190	180	260	250	300
Ti [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	1900	2000	2100	2700	2700
Tl [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	0.21	0.23	0.37	0.44	0.46
U [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	1.22	1.14	1.26	1.34	1.43
V [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	63	63	41	74	90
Y [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	8.79	8.02	5.60	6.78	6.02
Zn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:07	64	63	53	54	80

Analysis	10: ARDG-000395-T IR01B-10040MS 13-Kwa-s	11: ARDG-000396-T IR01B-10040MS 13-Kwa-s	12: ARDG-000397-T IR01B-10040MS 13-Kwa-s	13: ARDG-000398-T IR01B-10040MS 13-Kwa-s	14: ARDG-000399-T IR01B-10040MS 13-Kwa-s	15: ARDG-000400-T IR01B-10040MS 13-Kwa-s
Sample Date & Time	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	79000	76000	71000	60000	81000	78000
As [µg/g]	140	80	36	220	230	360
Ba [µg/g]	640	510	670	530	690	670
Be [µg/g]	1	1	1	1	1	1
Bi [µg/g]	0.21	0.23	0.36	0.26	0.40	0.32
Ca [µg/g]	13000	14000	14000	15000	17000	21000
Cd [µg/g]	0.09	0.09	0.13	0.15	0.21	0.26
Co [µg/g]	20	19	18	18	19	19
Cr [µg/g]	91	110	110	89	91	89
Cu [µg/g]	44	48	41	40	40	41
Fe [µg/g]	36000	38000	36000	32000	37000	37000
K [µg/g]	19000	21000	20000	17000	21000	21000
Li [µg/g]	24	23	24	20	22	20
Mg [µg/g]	13000	13000	13000	11000	13000	12000
Mn [µg/g]	330	340	330	320	350	380
Mo [µg/g]	1.8	1.8	1.8	1.8	3.1	3.4
Ni [µg/g]	61	63	58	58	56	51
Pb [µg/g]	12	10	12	8	16	14
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	310	280	350	290	400	410
Ti [µg/g]	2000	1600	1700	1900	3000	3200
Tl [µg/g]	0.40	0.43	0.42	0.36	0.44	0.45
U [µg/g]	0.99	1.42	1.12	0.59	1.24	1.10
V [µg/g]	74	74	70	69	79	80
Y [µg/g]	5.21	6.18	5.08	3.89	5.35	5.22
Zn [µg/g]	76	60	72	70	82	79

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Project : PO#1124452

27-September-2022

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Date Rec. : 12 September 2022

LR Report: CA19082-SEP22

Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000390 ARDG-000391 -TIR01B-1004 OMS13-Kwa-s	6: ARDG-000391 ARDG-000391 -TIR01B-1004 OMS13-Kwa-s	7: ARDG-000392 ARDG-000392 -TIR01B-1004 OMS13-Kwa-s
Sample Date & Time					03-Sep-22	03-Sep-22	04-Sep-22
Sample weight [g]	15-Sep-22	11:03	16-Sep-22	17:38	250	250	250
Volume D.I. Water [mL]	15-Sep-22	11:03	16-Sep-22	17:38	750	750	750
Final pH [no unit]	15-Sep-22	11:03	16-Sep-22	17:38	8.28	8.49	8.71
pH [No unit]	16-Sep-22	16:44	19-Sep-22	14:52	7.97	7.95	8.00
Conductivity [uS/cm]	16-Sep-22	16:44	19-Sep-22	14:52	392	375	430
Alkalinity [mg/L as CaCO3]	16-Sep-22	16:44	20-Sep-22	11:01	78	70	71
SO4 [mg/L]	20-Sep-22	08:35	21-Sep-22	20:27	29	26	29
Hg [mg/L]	20-Sep-22	12:00	21-Sep-22	12:08	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.275	0.321	0.488
As [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.0051	0.0070	0.0125
Ba [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.0101	0.00931	0.00637
B [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.026	0.026	0.032
Be [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	21.0	16.5	15.2
Cd [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.000036	0.000028	0.000030
Cr [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.007	< 0.007	< 0.007
K [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	13.8	12.2	22.1
Li [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.0014	0.0014	0.0024
Mg [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	6.49	5.05	4.90
Mn [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.00354	0.00242	0.00243
Mo [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.0110	0.00894	0.00753

Online LIMS

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Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000390 -TIR01B-1004 OMS13-Kwa-s	ARDG-000391 -TIR01B-1004 OMS13-Kwa-s	ARDG-000392 -TIR01B-1004 OMS13-Kwa-s
Na [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	34.1	31.1	43.3
Ni [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.0002	0.0002	0.0002
Pb [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.0010	0.0010	0.0026
Se [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.00023	0.00036	0.00030
Si [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.91	0.91	1.19
Sn [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.182	0.130	0.0927
Ti [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	< 0.00005	< 0.00005	0.00007
Tl [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.000008	0.000007	0.000011
U [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.000069	0.000069	0.000237
W [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.00055	0.00052	0.00148
V [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.00009	0.00012	0.00028
Zn [mg/L]	21-Sep-22	23:58	23-Sep-22	09:03	0.002	< 0.002	< 0.002

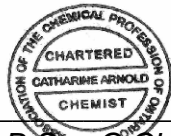
Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000393 -TIR01B-1004 OMS13-Kwa-s	ARDG-000394 -TIR01B-1004 OMS13-Kwa-s	ARDG-000395 -TIR01B-1004 OMS13-Kwa-s	ARDG-000396 -TIR01B-1004 OMS13-Kwa-s	ARDG-000397 -TIR01B-1004 OMS13-Kwa-s	ARDG-000398 -TIR01B-1004 OMS13-Kwa-s
Sample Date & Time	04-Sep-22	05-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22	06-Sep-22
Sample weight [g]	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.94	8.14	8.99	8.84	9.00	8.96
pH [No unit]	8.10	7.95	8.06	7.88	8.11	7.98
Conductivity [uS/cm]	363	667	310	377	318	328
Alkalinity [mg/L as CaCO3]	69	83	76	61	68	68
SO4 [mg/L]	27	170	26	51	39	39
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.609	0.121	0.636	0.463	0.570	0.604
As [mg/L]	0.0578	0.0195	0.141	0.0599	0.0697	0.206
Ba [mg/L]	0.00287	0.0156	0.00349	0.00330	0.00448	0.00410
B [mg/L]	0.024	0.023	0.021	0.022	0.021	0.019
Be [mg/L]	0.000012	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000010
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11.8	47.2	10.7	15.6	12.8	14.6
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000045	0.000511	0.000048	0.000051	0.000039	0.000081
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000393	ARDG-000394	ARDG-000395	ARDG-000396	ARDG-000397	ARDG-000398
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	OMS13-Kwa-s	OMS13-Kwa-s	OMS13-Kwa-s	OMS13-Kwa-s	OMS13-Kwa-s	OMS13-Kwa-s
K [mg/L]	27.0	25.7	21.2	19.7	20.6	21.5
Li [mg/L]	0.0012	0.0043	0.0016	0.0014	0.0020	0.0017
Mg [mg/L]	4.71	16.8	4.07	5.96	4.90	5.84
Mn [mg/L]	0.00165	0.04480	0.00162	0.00304	0.00207	0.00290
Mo [mg/L]	0.0112	0.0193	0.00871	0.0121	0.00917	0.0133
Na [mg/L]	33.7	35.8	29.2	34.9	26.9	32.2
Ni [mg/L]	0.0002	0.0020	0.0003	0.0004	0.0002	0.0005
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0079	0.0045	0.0105	0.0085	0.0176	0.0111
Se [mg/L]	0.00057	0.00088	0.00026	0.00054	0.00067	0.00061
Si [mg/L]	1.55	1.50	1.34	1.33	1.52	1.48
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0544	0.277	0.0592	0.0798	0.0792	0.0835
Ti [mg/L]	0.00028	< 0.00005	0.00012	< 0.00005	0.00018	< 0.00005
Tl [mg/L]	0.000012	0.000016	0.000011	0.000011	0.000024	0.000011
U [mg/L]	0.000446	0.000855	0.000243	0.000650	0.000383	0.000475
W [mg/L]	0.00251	0.00234	0.00233	0.00245	0.00322	0.00322
V [mg/L]	0.00152	0.00012	0.00195	0.00099	0.00147	0.00211
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14:	15:	16:	17:BLK:
	ARDG-000399	ARDG-000400	ARDG-000393	\$D.I. Leachate
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	Blank
	OMS13-Kwa-s	OMS13-Kwa-s	OMS13-Kwa-s	
Sample Date & Time	06-Sep-22	06-Sep-22		
Sample weight [g]	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	8.93	9.02	8.96	5.83
pH [No unit]	8.13	7.99	8.21	5.98
Conductivity [uS/cm]	273	315	355	2
Alkalinity [mg/L as CaCO3]	59	68	70	< 2
SO4 [mg/L]	24	31	26	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.595	0.546	0.582	< 0.001
As [mg/L]	0.217	0.232	0.0583	< 0.0002
Ba [mg/L]	0.00323	0.00370	0.00288	< 0.00008
B [mg/L]	0.018	0.020	0.022	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	0.000008	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	11.0	11.8	11.6	< 0.01

Analysis	14: ARDG-000399 -TIR01B-1004 OMS13-Kwa-s	15: ARDG-000400 -TIR01B-1004 OMS13-Kwa-s	16: ARDG-000393 -TIR01B-1004 OMS13-Kwa-s	17:BLK: \$D.I. Leachate Blank
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000066	0.000081	0.000051	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	19.2	22.7	26.1	0.033
Li [mg/L]	0.0015	0.0017	0.0012	< 0.0001
Mg [mg/L]	3.97	4.49	4.59	0.002
Mn [mg/L]	0.00159	0.00188	0.00132	0.00007
Mo [mg/L]	0.0107	0.0132	0.0111	0.00011
Na [mg/L]	25.1	27.6	33.0	0.02
Ni [mg/L]	0.0003	0.0005	0.0003	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0110	0.0132	0.0079	< 0.0009
Se [mg/L]	0.00020	0.00035	0.00049	< 0.00004
Si [mg/L]	1.40	1.52	1.43	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0616	0.0710	0.0525	< 0.00008
Ti [mg/L]	< 0.00005	0.00034	0.00033	< 0.00005
Tl [mg/L]	< 0.000005	0.000006	0.000010	< 0.000005
U [mg/L]	0.000370	0.000511	0.000387	< 0.000002
W [mg/L]	0.00301	0.00385	0.00249	0.00003
V [mg/L]	0.00206	0.00211	0.00152	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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Project : PO#1124452

30-September-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 16 September 2022
LR Report: CA19112-SEP22
Reference: Meliadine

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, Nunavut
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Copy: #1

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000401-T IR01B0-10040M S14-Kwa-s	ARDG-000402-T IR01B0-10040M S14-Kwa-s	ARDG-000403-T IR01B0-10040M S14-Kwa-s	ARDG-000404-T IR01B0-10040M S14-Kwa-s
Sample Date & Time								
Sample weight [g]	22-Sep-22	13:35	26-Sep-22	10:42	250	250	250	250
Volume D.I. Water [mL]	22-Sep-22	13:35	26-Sep-22	10:42	750	750	750	750
Final pH [no unit]	22-Sep-22	13:35	26-Sep-22	10:42	8.28	8.08	8.56	8.39
pH [No unit]	26-Sep-22	12:41	27-Sep-22	11:03	7.90	7.91	8.04	7.99
Conductivity [uS/cm]	26-Sep-22	12:41	27-Sep-22	11:03	1080	1100	487	766
Alkalinity [mg/L as CaCO3]	26-Sep-22	12:41	27-Sep-22	11:03	55	58	64	60
SO4 [mg/L]	26-Sep-22	14:11	27-Sep-22	15:43	81	84	53	52
Hg [mg/L]	27-Sep-22	11:31	27-Sep-22	13:35	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	26-Sep-22	14:39	27-Sep-22	17:00	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	26-Sep-22	14:39	27-Sep-22	17:00	0.290	0.240	0.461	0.381
As [mg/L]	26-Sep-22	14:39	27-Sep-22	17:00	0.108	0.0692	0.307	0.0311
Ba [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.0186	0.02016	0.00683	0.00748
B [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.050	0.062	0.024	0.025
Be [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	26.6	29.6	18.5	19.2
Cd [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.000020	0.000013	0.000020	0.000011
Co [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.000237	0.000287	0.000165	0.000127
Cr [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.00030	0.00026	< 0.00008	0.00010
Cu [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	< 0.0002	0.0003	0.0003	< 0.0002
Fe [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	< 0.007	< 0.007	0.018	< 0.007
K [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	32.6	33.7	22.3	29.5
Li [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.0036	0.0040	0.0025	0.0024
Mg [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	17.1	18.7	8.97	10.7
Mn [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.0107	0.0162	0.00468	0.00374
Mo [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.0203	0.0174	0.0215	0.0108
Na [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	131	133	51.0	91.2
Ni [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.0017	0.0022	0.0009	0.0005
Pb [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	< 0.00009	< 0.00009	0.00019	< 0.00009
Sb [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.0064	0.0054	0.0064	0.0055
Se [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	0.00077	0.00081	0.00061	0.00058
Si [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	2.13	2.30	2.00	1.89
Sn [mg/L]	26-Sep-22	14:39	27-Sep-22	17:01	< 0.00006	< 0.00006	< 0.00006	< 0.00006

Online LIMS

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Project : PO#1124452

LR Report : CA19112-SEP22

Table with 9 columns: Analysis, 1: Analysis Start Date, 2: Analysis Start Time, 3: Analysis Completed Date, 4: Analysis Completed Time, 5: ARDG-000401-T IR01B0-10040M S14-Kwa-s, 6: ARDG-000402-T IR01B0-10040M S14-Kwa-s, 7: ARDG-000403-T IR01B0-10040M S14-Kwa-s, 8: ARDG-000404-T IR01B0-10040M S14-Kwa-s. Rows include Sr, Ti, TI, U, W, Y, V, Zn.

Table with 17 columns: Analysis, 9: ARDG-000405-T IR01B0-10040M S14-Kwa-s, 10: ARDG-000406-T IR01B0-10040M S14-Kwa-s, 11: ARDG-000407-T IR01B0-10040M S14-Kwa-s, 12: ARDG-000408-T IR01B0-10040M S14-Kwa-s, 13: ARDG-000409-T IR01B0-10040M S14-Kwa-s, 14: ARDG-000410-T IR01B0-10040M S14-Kwa-s, 15: ARDG-000410-T IR01B0-10040M S14-Kwa-s, 16:BLK: \$D.I. Leachate Blank. Rows include Sample Date & Time, Sample weight, Volume D.I. Water, Final pH, pH, Conductivity, Alkalinity, SO4, and various metals like Hg, Ag, Al, As, Ba, B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, U.

Online LIMS

0003068887

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Project : PO#1124452

LR Report : CA19112-SEP22

Analysis	9: ARDG-000405-T IR01B0-10040M S14-Kwa-s	10: ARDG-000406-T IR01B0-10040M S14-Kwa-s	11: ARDG-000407-T IR01B0-10040M S14-Kwa-s	12: ARDG-000408-T IR01B0-10040M S14-Kwa-s	13: ARDG-000409-T IR01B0-10040M S14-Kwa-s	14: ARDG-000410-T IR01B0-10040M S14-Kwa-s	15: ARDG-000410-T IR01B0-10040M S14-Kwa-s	16:BLK: \$D.I. Leachate Blank
W [mg/L]	0.00374	0.00508	0.00133	0.00872	0.00263	0.00317	0.00278	< 0.00002
Y [mg/L]	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002
V [mg/L]	0.00142	0.00133	0.00073	0.00122	0.00143	0.00118	0.00120	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

30-October-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 03 October 2022

LR Report: CA19008-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Date Completed	Analysis Time	ARDG-000460-T IR01B-10035MS 03-Mv	ARDG-000461-T IR01B-10035MS 03-Mv	ARDG-000462-T IR01B-10035MS 03-Kwa-s	ARDG-000463-T IR01B-10035MS 03-Kwa-s
Sample Date & Time					23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22
Paste pH [no unit]	12-Oct-22	16:04	14-Oct-22	08:57	8.91	8.79	8.98	9.34
Fizz Rate [rating]	12-Oct-22	16:04	14-Oct-22	08:57	4	4	3	3
Sample weight [g]	12-Oct-22	16:04	14-Oct-22	08:57	1.89	1.94	1.89	1.88
HCl_add [mL]	12-Oct-22	16:04	14-Oct-22	08:57	120.00	150.00	35.00	55.00
HCl [Normality]	12-Oct-22	16:04	14-Oct-22	08:57	0.10	0.10	0.10	0.10
NaOH [Normality]	12-Oct-22	16:04	14-Oct-22	08:57	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	12-Oct-22	16:04	14-Oct-22	08:57	33.55	71.08	16.23	31.52
Final pH [no unit]	12-Oct-22	16:04	14-Oct-22	08:57	1.87	1.56	1.72	1.58
NP [t CaCO3/1000 t]	12-Oct-22	16:04	14-Oct-22	08:57	229	203	49.6	62.4
AP [t CaCO3/1000 t]	14-Oct-22	08:57	14-Oct-22	08:57	6.25	20.9	5.62	5.94
Net NP [t CaCO3/1000 t]	14-Oct-22	08:57	14-Oct-22	08:57	222	182	44.0	56.5
NP/AP [ratio]	14-Oct-22	08:57	14-Oct-22	08:57	36.6	9.71	8.82	10.5
S [%]	12-Oct-22	07:09	13-Oct-22	16:15	0.321	0.951	0.278	0.239
Acid Leachable SO4-S [%]	13-Oct-22	16:15	13-Oct-22	16:15	0.12	0.28	0.10	0.05
Sulphide [%]	13-Oct-22	11:59	13-Oct-22	16:15	0.20	0.67	0.18	0.19
C [%]	12-Oct-22	07:09	13-Oct-22	16:15	2.98	2.96	0.741	0.947
CO3 (HCl) [%]	14-Oct-22	12:58	14-Oct-22	15:00	14.4	14.4	3.19	4.11

Analysis	9:	10:	11:	12:	13:
	ARDG-000464-T IR01B-10035MS 03-Kwa-s	ARDG-000465-T IR01B-10035MS 03-Kwa-s	ARDG-000466-T IR01B-10035MS 03-Kwa-s	ARDG-000467-T IR01B-10035MS 03-Kwa-s	ARDG-000468-T IR01B-10035MS 03-Kwa-s
Sample Date & Time	23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22
Paste pH [no unit]	9.41	9.33	9.42	9.38	9.53
Fizz Rate [rating]	3	3	3	3	3
Sample weight [g]	2.10	1.88	1.92	1.87	2.08
HCl_add [mL]	60.00	35.00	50.00	50.00	50.00
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]	30.80	16.16	31.10	30.20	28.35
Final pH [no unit]	1.66	1.89	1.55	1.51	1.58
NP [t CaCO3/1000 t]	69.5	50.1	49.2	53.0	52.0
AP [t CaCO3/1000 t]	5.62	5.00	4.06	4.38	3.75

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Project : PO#1124452
LR Report : CA19008-OCT22


Analysis	9: ARDG-000464-T 03-Kwa-s	10: ARDG-000465-T 03-Kwa-s	11: ARDG-000466-T 03-Kwa-s	12: ARDG-000467-T 03-Kwa-s	13: ARDG-000468-T 03-Kwa-s
Net NP [t CaCO3/1000 t]	63.9	45.1	45.1	48.6	48.2
NP/AP [ratio]	12.4	10.0	12.1	12.1	13.9
S [%]	0.223	0.197	0.196	0.183	0.163
Acid Leachable SO4-S [%]	0.04	< 0.04	0.07	0.04	0.04
Sulphide [%]	0.18	0.16	0.13	0.14	0.12
C [%]	1.02	0.752	0.726	0.810	0.795
CO3 (HCl) [%]	4.62	3.31	3.00	3.54	3.47

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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



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Project : PO#1124452

04-October-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 16 September 2022
LR Report: CA19110-SEP22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000401 -TIR01B0-100 40MS14-Kwa- s	6: ARDG-000402 -TIR01B0-100 40MS14-Kwa- s	7: ARDG-000403 -TIR01B0-100 40MS14-Kwa- s
Sample Date & Time							
Paste pH [no unit]	26-Sep-22	16:02	28-Sep-22	10:32	8.67	8.77	9.10
Fizz Rate [rating]	26-Sep-22	16:02	28-Sep-22	10:32	2	2	2
Sample weight [g]	26-Sep-22	16:02	28-Sep-22	10:32	2.02	2.02	1.95
HCl_add [mL]	26-Sep-22	16:02	28-Sep-22	10:32	43.90	46.30	55.00
HCl [Normality]	26-Sep-22	16:02	28-Sep-22	10:32	0.10	0.10	0.10
NaOH [Normality]	26-Sep-22	16:02	28-Sep-22	10:32	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26-Sep-22	16:02	28-Sep-22	10:32	26.04	30.08	29.31
Final pH [no unit]	26-Sep-22	16:02	28-Sep-22	10:32	1.63	1.71	1.60
NP [t CaCO3/1000 t]	26-Sep-22	16:02	28-Sep-22	10:32	44.2	40.2	65.9
AP [t CaCO3/1000 t]	03-Oct-22	13:25	03-Oct-22	13:25	5.62	5.94	7.19
Net NP [t CaCO3/1000 t]	03-Oct-22	13:25	03-Oct-22	13:25	38.6	34.3	58.7
NP/AP [ratio]	03-Oct-22	13:25	03-Oct-22	13:25	7.86	6.77	9.17
S [%]	27-Sep-22	11:48	03-Oct-22	13:25	0.223	0.222	0.292
Acid Leachable SO4-S [%]	03-Oct-22	13:25	03-Oct-22	13:25	0.04	< 0.04	0.06
Sulphide [%]	03-Oct-22	11:26	03-Oct-22	13:25	0.18	0.19	0.23
C [%]	27-Sep-22	11:48	03-Oct-22	13:25	0.604	0.584	1.01
CO3 (HCl) [%]	03-Oct-22	12:42	03-Oct-22	13:41	2.58	2.47	4.65

Analysis	8: ARDG-000404 -TIR01B0-100 40MS14-Kwa- s	9: ARDG-000405 -TIR01B0-100 40MS14-Kwa- s	10: ARDG-000406 -TIR01B0-100 40MS14-Kwa- s	11: ARDG-000407 -TIR01B0-100 40MS14-Kwa- s	12: ARDG-000408 -TIR01B0-100 40MS14-Kwa- s	13: ARDG-000409 -TIR01B0-100 40MS14-Kwa- s	14: ARDG-000410 -TIR01B0-100 40MS14-Kwa- s
Sample Date & Time							
Paste pH [no unit]	8.76	9.00	8.92	8.45	9.25	9.01	8.90

Online LIMS

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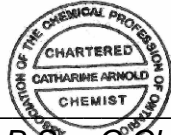
Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000404	ARDG-000405	ARDG-000406	ARDG-000407	ARDG-000408	ARDG-000409	ARDG-000410
	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100	-TIR01B0-100
	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-	40MS14-Kwa-
	s	s	s	s	s	s	s
Fizz Rate [rating]	2	2	2	2	2	2	2
Sample weight [g]	2.09	2.08	2.00	2.01	1.98	2.04	1.97
HCl_add [mL]	48.40	48.20	42.50	40.10	55.00	43.30	45.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	27.24	25.55	24.34	21.29	27.90	25.25	24.58
Final pH [no unit]	1.65	1.66	1.65	1.77	1.65	1.60	1.71
NP [t CaCO3/1000 t]	50.6	54.4	45.4	46.8	68.4	44.2	51.8
AP [t CaCO3/1000 t]	4.38	5.00	5.00	4.06	8.44	6.88	5.31
Net NP [t CaCO3/1000 t]	46.2	49.4	40.4	42.7	60.0	37.3	46.5
NP/AP [ratio]	11.6	10.9	9.08	11.5	8.11	6.43	9.75
S [%]	0.176	0.227	0.222	0.157	0.345	0.284	0.222
Acid Leachable SO4-S [%]	< 0.04	0.07	0.06	< 0.04	0.08	0.06	0.05
Sulphide [%]	0.14	0.16	0.16	0.13	0.27	0.22	0.17
C [%]	0.732	0.826	0.685	0.698	0.924	0.631	0.724
CO3 (HCl) [%]	2.86	3.45	2.69	2.79	4.10	2.65	3.19

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

30-October-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 03 October 2022

LR Report: CA19009-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000460-T IR01B-10035MS 03-Mv	6: ARDG-000461-T IR01B-10035MS 03-Mv	7: ARDG-000462-T IR01B-10035MS 03-Kwa-s	8: ARDG-000463-T IR01B-10035MS 03-Kwa-s	9: ARDG-000464-T IR01B-10035MS 03-Kwa-s
Sample Date & Time					23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22
CN(T) [µg/g]	06-Oct-22	10:26	12-Oct-22	15:24	< 10	< 10	< 10	< 10	< 10
CN(Free) [µg/g]	20-Oct-22	08:05	20-Oct-22	14:44	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	06-Oct-22	10:26	12-Oct-22	15:24	< 10	< 10	< 10	< 10	< 10
Ag [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	71000	66000	58000	60000	54000
As [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	100	260	13	110	95
Ba [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	99	84	480	530	460
Be [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	0.45	0.59	1.1	1.4	1.1
Bi [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	< 0.09	0.20	0.22	0.59	0.49
Ca [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	92000	70000	16000	16000	18000
Cd [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	0.19	0.29	0.07	0.09	0.08
Co [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	47	39	19	19	18
Cr [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	130	120	71	74	68
Cu [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	84	137	40	35	30
Fe [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	77000	89000	37000	46000	41000
K [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	4700	6700	19000	18000	18000
Li [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	52	48	25	25	21
Mg [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	25000	26000	11000	13000	12000
Mn [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	1500	1900	290	430	440
Mo [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	1.6	1.7	4.7	3.1	4.3
Ni [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	108	96	61	66	59
Pb [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	5	10	10	78	23
Sb [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	< 0.7	1.1	< 0.7	< 0.7	< 0.7
Sn [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	180	170	250	270	280
Ti [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	1800	2300	2900	3300	3100
Tl [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	0.33	0.43	0.62	0.66	0.61
U [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	0.14	0.47	0.91	1.02	0.81
V [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	200	170	74	87	74
Y [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	8.21	7.40	4.50	4.99	4.91
Zn [µg/g]	15-Oct-22	15:21	18-Oct-22	14:06	120	210	72	76	66

Analysis	10: ARDG-000465-T IR01B-10035MS 03-Kwa-s	11: ARDG-000466-T IR01B-10035MS 03-Kwa-s	12: ARDG-000467-T IR01B-10035MS 03-Kwa-s	13: ARDG-000468-T IR01B-10035MS 03-Kwa-s
Sample Date & Time	23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22
CN(T) [µg/g]	< 10	< 10	< 10	< 10
CN(Free) [µg/g]	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	< 10	< 10	< 10	< 10
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	61000	71000	58000	71000
As [µg/g]	170	350	240	500
Ba [µg/g]	550	450	610	550
Be [µg/g]	1.2	1.4	1.3	1.3
Bi [µg/g]	0.30	0.26	0.32	0.25
Ca [µg/g]	13000	12000	13000	13000
Cd [µg/g]	0.16	0.11	0.10	0.08
Co [µg/g]	19	23	18	22
Cr [µg/g]	64	110	120	100
Cu [µg/g]	46	54	38	44
Fe [µg/g]	34000	43000	35000	42000
K [µg/g]	18000	22000	19000	22000
Li [µg/g]	24	29	22	29
Mg [µg/g]	12000	16000	12000	15000
Mn [µg/g]	300	380	300	350
Mo [µg/g]	2.3	3.9	4.8	4.6
Ni [µg/g]	57	77	59	73
Pb [µg/g]	13	15	18	14
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	290	250	290	300
Ti [µg/g]	2200	3000	2700	2800
Tl [µg/g]	0.65	0.73	0.62	0.71
U [µg/g]	0.92	1.04	1.19	1.52
V [µg/g]	66	92	70	92
Y [µg/g]	4.10	4.03	3.44	4.88
Zn [µg/g]	79	95	75	85

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Project : PO#1124452

30-November-2022

Date Rec. : 17 October 2022
LR Report: CA19087-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000352-T IR01B-10045MS 06-Kwa-s	6: ARDG-000353-T IR01B-10045MS 06-Kwa-s	7: ARDG-000354-T IR01B-10045MS 06-Kwa-s	8: ARDG-000355-T IR01B-10045MS 06-Kwa-s	9: ARDG-000356-T IR01B-10045MS 06-Kwa-s	10: ARDG-000357-T IR01B-10045MS 06-Kwa-s	11: ARDG-000358-T IR01B-10045MS 06-Kwa-s	12: ARDG-000359-T IR01B-10045MS 06-Kwa-s
Silver [µg/g]	28-Nov-22	18:25	30-Nov-22	11:52	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	28-Nov-22	18:25	30-Nov-22	11:52	75000	74000	83000	75000	85000	77000	83000	70000
Arsenic [µg/g]	28-Nov-22	18:25	30-Nov-22	11:52	350	53	250	120	190	110	110	360
Barium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:52	900	740	3300	610	770	620	2600	640
Beryllium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:53	1.5	1.1	2.1	1.1	1.5	1.2	1.8	1.1
Bismuth [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	0.24	0.33	0.27	0.24	0.22	0.25	0.94	0.28
Calcium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	28000	17000	15000	16000	13000	16000	15000	17000
Cadmium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	0.19	0.10	0.08	0.11	0.10	0.12	0.17	0.11
Cobalt [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	15	19	21	19	22	21	22	17
Chromium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	90	170	160	150	170	160	160	160
Copper [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	35	44	59	48	48	47	53	42
Iron [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	53000	36000	42000	35000	42000	36000	40000	31000
Potassium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	15000	13000	23000	15000	22000	15000	21000	14000
Lithium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	24	28	40	25	38	26	37	21
Magnesium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	12000	11000	15000	11000	15000	11000	14000	9600
Manganese [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	530	350	390	370	390	380	370	330
Molybdenum [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	3.3	3.2	2.9	3.0	3.1	3.1	3.0	3.5
Nickel [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	37	54	72	58	74	58	68	53
Lead [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	25	16	35	13	14	14	150	14
Antimony [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7

Online LIMS

0003235614



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Project : PO#1124452

LR Report : CA19087-OCT22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date	4: Analysis Date	5: ARDG-000352-T IR01B-10045MS 06-Kwa-s	6: ARDG-000353-T IR01B-10045MS 06-Kwa-s	7: ARDG-000354-T IR01B-10045MS 06-Kwa-s	8: ARDG-000355-T IR01B-10045MS 06-Kwa-s	9: ARDG-000356-T IR01B-10045MS 06-Kwa-s	10: ARDG-000357-T IR01B-10045MS 06-Kwa-s	11: ARDG-000358-T IR01B-10045MS 06-Kwa-s	12: ARDG-000359-T IR01B-10045MS 06-Kwa-s
Tin [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	7.1	6.4	6.5	6.2	6.8	6.3	6.5	6.2
Strontium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	470	450	500	320	370	320	500	340
Titanium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	2800	1900	3000	2000	2700	2000	2600	2000
Thallium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	0.43	0.39	0.72	0.44	0.58	0.45	0.62	0.43
Uranium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	1.89	1.97	1.88	1.67	1.83	1.71	1.82	1.76
Vanadium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	81	81	110	89	110	91	97	74
Yttrium [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	8.42	7.12	7.16	6.82	6.67	7.20	7.53	6.49
Zinc [µg/g]	28-Nov-22	18:25	30-Nov-22	11:54	66	78	92	74	96	74	89	69

Analysis	13: ARDG-000360-T IR01B-10045MS 06-Kwa-s	14: ARDG-000361-T IR01B-10045MS 06-Kwa-s	15: ARDG-000362-T IR01B-10045MS 06-Kwa-s	16: ARDG-000363-T IR01B-10045MS 06-Kwa-s	17: ARDG-000364-T IR01B-10045MS 06-Kwa-s	18: ARDG-000365-T IR01B-10045MS 07-Mg	19: ARDG-000366-T IR01B-10045MS 07-Kwa-s	20: ARDG-000367-T IR01B-10045MS 07-Kwa-s	21: ARDG-000368-T IR01B-10045MS 07-Kwa-s	22: ARDG-000369-T IR01B-10045MS 07-Kwa-s	23: ARDG-000370-T IR01B-10045MS 07-Kwa-s
Silver [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	84000	85000	77000	89000	85000	72000	77000	86000	77000	75000	76000
Arsenic [µg/g]	170	290	43	69	140	31	36	350	40	83	160
Barium [µg/g]	860	920	640	920	790	190	890	690	680	860	800
Beryllium [µg/g]	1.3	1.3	1.1	1.4	1.4	0.71	1.2	1.4	1.2	1.1	1.1
Bismuth [µg/g]	0.36	0.33	0.23	0.34	0.39	0.13	0.23	0.37	0.28	0.26	0.24
Calcium [µg/g]	13000	12000	17000	13000	13000	58000	15000	13000	14000	15000	13000
Cadmium [µg/g]	0.11	0.07	0.10	0.09	0.08	0.11	0.09	0.07	0.10	0.08	0.12
Cobalt [µg/g]	23	23	17	24	22	46	20	21	20	19	19
Chromium [µg/g]	180	180	160	180	170	100	160	160	170	160	160
Copper [µg/g]	58	50	50	48	55	99	43	44	51	47	46
Iron [µg/g]	42000	43000	32000	46000	42000	88000	37000	44000	33000	33000	33000
Potassium [µg/g]	19000	20000	14000	21000	20000	5200	19000	20000	16000	18000	17000
Lithium [µg/g]	37	37	26	45	35	44	29	39	28	27	27
Magnesium [µg/g]	14000	15000	9800	17000	14000	30000	12000	16000	11000	11000	11000
Manganese [µg/g]	360	360	350	390	390	1300	260	400	340	330	300
Molybdenum [µg/g]	3.3	3.1	3.7	3.1	3.5	2.4	3.3	2.7	3.8	3.4	3.9
Nickel [µg/g]	74	77	54	82	75	56	62	75	62	59	57
Lead [µg/g]	14	17	16	20	46	11	10	16	11	14	10
Antimony [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	6.2	6.3	6.2	6.4	6.2	6.4	6.1	6.2	6.2	6.2	6.2


OnLine LIMS

0003235614

Analysis	13:	14:	15:	16:	17:	18:	19:	20:	21:	22:	23:
	ARDG-000360-T	ARDG-000361-T	ARDG-000362-T	ARDG-000363-T	ARDG-000364-T	ARDG-000365-T	ARDG-000366-T	ARDG-000367-T	ARDG-000368-T	ARDG-000369-T	ARDG-000370-T
	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS	IR01B-10045MS
	06-Kwa-s	06-Kwa-s	06-Kwa-s	06-Kwa-s	06-Kwa-s	07-Mg	07-Kwa-s	07-Kwa-s	07-Kwa-s	07-Kwa-s	07-Kwa-s
Strontium [µg/g]	310	310	370	330	310	310	320	290	310	300	300
Titanium [µg/g]	1900	1600	1300	1400	1300	5000	2500	1700	1300	2200	2300
Thallium [µg/g]	0.53	0.58	0.41	0.54	0.56	0.30	0.50	0.53	0.60	0.50	0.45
Uranium [µg/g]	2.02	1.82	1.67	1.99	1.95	0.40	1.74	1.84	1.71	1.75	1.74
Vanadium [µg/g]	110	110	75	120	110	260	87	110	84	81	80
Yttrium [µg/g]	7.64	7.37	6.86	7.50	6.99	18.3	7.08	7.62	7.52	6.46	6.63
Zinc [µg/g]	98	94	66	97	85	88	62	88	71	62	62

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-013	EPA 3052/200.8

Catharine Arnold

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



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Project : PO#1124452
LR Report : CA19087-OCT22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0199-NOV22</i>													
Aluminum	3	µg/g	<3			0	20	101	70	130			
Antimony	0.8	µg/g	<0.8			ND	20	102	70	130			
Arsenic	0.5	µg/g	<0.5			9	20	103	70	130			
Barium	0.01	µg/g	<0.01			1	20	94	70	130			
Beryllium	0.02	µg/g	<0.02			3	20	91	70	130			
Bismuth	0.09	µg/g	<0.09			ND	20	99	70	130			
Cadmium	0.02	µg/g	<0.02			2	20	103	70	130			
Chromium	0.5	µg/g	<0.5			1	20	105	70	130			
Cobalt	0.01	µg/g	<0.01			4	20	105	70	130			
Copper	0.1	µg/g	<0.1			3	20	102	70	130			
Iron	3	µg/g	<3			2	20	107	70	130			
Lead	0.05	µg/g	<0.05			11	20	96	70	130			
Lithium	2	µg/g	<2			3	20	94	70	130			
Magnesium	3	µg/g	<0.1			1	20	105	70	130			
Manganese	0.1	µg/g	<0.1			0	20	107	70	130			
Molybdenum	0.1	µg/g	<0.1			6	20	97	70	130			
Nickel	0.1	µg/g	<0.1			1	20	106	70	130			
Selenium	0.7	µg/g	<0.7			ND	20	102	70	130			
Silver	0.5	µg/g	<0.01			54	20	NV	70	130			
Strontium	0.02	µg/g	<0.02			1	20	101	70	130			
Thallium	0.02	µg/g	<0.02			3	20	NV	70	130			
Tin	6	µg/g	<6			4	20	93	70	130			
Titanium	0.1	µg/g	<0.1			0	20	97	70	130			
Uranium	0.002	µg/g	<0.002			6	20	91	70	130			
Vanadium	1	µg/g	<1			1	20	99	70	130			
Yttrium	0.004	µg/g	<0.004			5	20	101	70	130			
Zinc	0.7	µg/g	<0.7			2	20	103	70	130			



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Project : PO#1124452

30-October-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 03 October 2022
LR Report: CA19010-OCT22
Reference: Meliadine

Meliadine
, Nunavut
X0C 0A0, Canada

Copy: #1

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	Analysis Time IR01B-10035MS	ARDG-000460-T ARD01B-10035MS	ARDG-000461-T ARD01B-10035MS	ARDG-000462-T ARD01B-10035MS	ARDG-000463-T ARD01B-10035MS
					03-Mv	03-Mv	03-Kwa-s	03-Kwa-s
Sample Date & Time					23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22
Sample weight [g]	12-Oct-22	09:05	13-Oct-22	09:27	250	250	250	250
Volume D.I. Water [mL]	12-Oct-22	09:05	13-Oct-22	09:27	750	750	750	750
Final pH [no unit]	13-Oct-22	07:30	13-Oct-22	09:27	8.64	8.21	8.71	8.82
pH [No unit]	13-Oct-22	15:39	14-Oct-22	15:42	8.05	8.10	8.13	8.17
Conductivity [uS/cm]	13-Oct-22	15:39	14-Oct-22	15:42	304	554	578	320
Alkalinity [mg/L as CaCO3]	13-Oct-22	15:39	14-Oct-22	15:42	64	82	58	73
SO4 [mg/L]	14-Oct-22	07:04	17-Oct-22	15:15	43	120	60	45
Hg [mg/L]	17-Oct-22	10:14	18-Oct-22	10:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	0.448	0.208	0.428	0.591
As [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	0.0026	0.0094	0.0091	0.0867
Ba [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	0.00666	0.00204	0.00766	0.00588
B [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	0.018	0.050	0.023	0.028
Be [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	27-Oct-22	17:58	30-Oct-22	11:44	19.7	50.4	21.1	16.3
Cd [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.000005	0.000032	0.000005	0.000005
Co [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.000029	0.000559	0.000058	0.000073
Cr [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.00008	0.00087	< 0.00008	< 0.00008
Cu [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.0011	0.0012	0.0003	0.0007
Fe [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	6.81	7.76	27.7	26.3
Li [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.0026	0.0051	0.0030	0.0023
Mg [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	7.74	20.0	9.58	6.38
Mn [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.00404	0.0370	0.00376	0.00269
Mo [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.00491	0.00978	0.00728	0.00773
Na [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	30.7	41.2	67.9	26.9
Ni [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.0002	0.0016	0.0001	0.0004
Pb [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.00009	< 0.00009	< 0.00009	0.00020
Sb [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.0021	0.0026	0.0053	0.0095
Se [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.00046	0.00239	0.00041	0.00040
Si [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	1.51	1.91	2.30	2.23
Sn [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.00006	< 0.00006	< 0.00006	< 0.00006

Online LIMS

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Project : PO#1124452

LR Report : CA19010-OCT22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000460-T IR01B-10035MS 03-Mv	6: ARDG-000461-T IR01B-10035MS 03-Mv	7: ARDG-000462-T IR01B-10035MS 03-Kwa-s	8: ARDG-000463-T IR01B-10035MS 03-Kwa-s
Sr [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.0532	0.0774	0.149	0.0897
Ti [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.00005	< 0.00005	< 0.00005	< 0.00005
TI [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.000005	< 0.000005	0.000024	0.000012
U [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.000024	0.000154	0.000397	0.000327
V [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.00065	0.00023	0.00075	0.00132
W [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	0.00121	0.00162	0.00264	0.00307
Zn [mg/L]	27-Oct-22	17:58	30-Oct-22	11:45	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: ARDG-000464-T IR01B-10035MS 03-Kwa-s	10: ARDG-000465-T IR01B-10035MS 03-Kwa-s	11: ARDG-000466-T IR01B-10035MS 03-Kwa-s	12: ARDG-000467-T IR01B-10035MS 03-Kwa-s	13: ARDG-000468-T IR01B-10035MS 03-Kwa-s	14: ARDG-000469-T IR01B-10035MS 03-Kwa-s
Sample Date & Time	23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22	23-Sep-22	
Sample weight [g]	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	8.97	8.80	9.10	8.79	9.01	9.02
pH [No unit]	8.05	7.99	8.08	8.04	8.10	8.07
Conductivity [uS/cm]	265	448	233	443	260	245
Alkalinity [mg/L as CaCO3]	63	63	68	66	69	56
SO4 [mg/L]	39	44	8	43	18	17
Hg [mg/L]	0.00002	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.710	0.524	0.744	0.533	0.712	0.721
As [mg/L]	0.0895	0.105	0.148	0.162	0.170	0.182
Ba [mg/L]	0.00414	0.00644	0.00239	0.00706	0.00272	0.00264
B [mg/L]	0.014	0.023	0.016	0.022	0.017	0.021
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16.5	15.7	8.16	16.9	10.2	10.2
Cd [mg/L]	0.000006	< 0.000003	0.000003	0.000005	0.000005	0.000006
Co [mg/L]	0.000064	0.000096	0.000043	0.000115	0.000053	0.000046
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0008	0.0006	0.0009	0.0004	0.0137	0.0008
Fe [mg/L]	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	21.7	24.7	25.0	27.8	25.9	25.9
Li [mg/L]	0.0019	0.0030	0.0015	0.0041	0.0015	0.0018
Mg [mg/L]	6.32	7.99	3.11	7.95	3.85	3.78
Mn [mg/L]	0.00294	0.00370	0.00145	0.00274	0.00105	0.00106
Mo [mg/L]	0.00812	0.00792	0.00487	0.0119	0.00628	0.0140
Na [mg/L]	22.2	51.8	23.1	47.5	22.3	22.5
Ni [mg/L]	0.0004	0.0006	0.0003	0.0006	0.0003	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0082	0.0091	0.0067	0.0098	0.0081	0.0082
Se [mg/L]	0.00036	0.00054	0.00010	0.00032	0.00014	0.00020
Si [mg/L]	2.10	2.34	2.23	2.64	2.08	2.14
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0797	0.0917	0.0367	0.0908	0.0454	0.0459
Ti [mg/L]	0.00008	< 0.00005	0.00009	0.00005	0.00022	0.00015
TI [mg/L]	0.000007	0.000014	0.000006	0.000012	0.000011	0.000011
U [mg/L]	0.000312	0.000248	0.000198	0.000512	0.000199	0.000183
V [mg/L]	0.00159	0.00123	0.00323	0.00166	0.00232	0.00248

Online LIMS

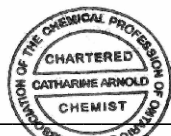
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Project : PO#1124452
LR Report : CA19010-OCT22

Analysis	9:	10:	11:	12:	13:	14:
	ARDG-000464-T	ARDG-000465-T	ARDG-000466-T	ARDG-000467-T	ARDG-000468-T	ARDG-000468-T
	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS
	03-Kwa-s	03-Kwa-s	03-Kwa-s	03-Kwa-s	03-Kwa-s	03-Kwa-s
W [mg/L]	0.00212	0.00190	0.00247	0.00475	0.00371	0.00368
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
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Project : PO#1124452

29-November-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 07 November 2022
LR Report: CA19060-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000469 -TIR01B-1003 5MS04-Kwa-s	ARDG-000470 -TIR01B-1003 5MS04-Kwa-s	ARDG-000471 -TIR01B-1003 5MS04-Kwa-s
Sample Date & Time					02-Oct-22	02-Oct-22	02-Oct-22
Paste pH [no unit]	21-Nov-22	09:15	22-Nov-22	15:36	9.01	8.98	8.67
Fizz Rate [rating]	21-Nov-22	09:15	22-Nov-22	15:36	3	3	3
Sample weight [g]	21-Nov-22	09:15	22-Nov-22	15:36	1.98	1.89	1.84
HCl_add [mL]	21-Nov-22	09:15	22-Nov-22	15:36	50.00	45.00	40.00
HCl [Normality]	21-Nov-22	09:15	22-Nov-22	15:36	0.10	0.10	0.10
NaOH [Normality]	21-Nov-22	09:15	22-Nov-22	15:36	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	21-Nov-22	09:15	22-Nov-22	15:36	26.55	23.83	22.18
Final pH [no unit]	21-Nov-22	09:15	22-Nov-22	15:36	1.71	1.68	1.69
NP [t CaCO3/1000 t]	21-Nov-22	09:15	22-Nov-22	15:36	59.2	56.0	48.4
AP [t CaCO3/1000 t]	23-Nov-22	07:17	23-Nov-22	07:17	4.06	5.00	5.00
Net NP [t CaCO3/1000 t]	23-Nov-22	07:17	23-Nov-22	07:17	55.1	51.0	43.4
NP/AP [ratio]	23-Nov-22	07:17	23-Nov-22	07:17	14.6	11.2	9.68
S [%]	21-Nov-22	12:45	23-Nov-22	07:17	0.169	0.241	0.224
Acid Leachable SO4-S [%]	23-Nov-22	07:16	23-Nov-22	07:17	< 0.04	0.08	0.06
Sulphide [%]	22-Nov-22	16:33	23-Nov-22	07:17	0.13	0.16	0.16
C [%]	21-Nov-22	12:45	23-Nov-22	07:17	0.851	0.811	0.671
CO3 (HCl) [%]	23-Nov-22	17:18	25-Nov-22	09:08	3.75	3.60	2.94

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000472 -TIR01B-1003 5MS04-Kwa-s	ARDG-000473 -TIR01B-1003 5MS04-Kwa-s	ARDG-000474 -TIR01B-1003 5MS04-Kwa-s	ARDG-000475 -TIR01B-1003 5MS04-Kwa-s	ARDG-000476 -TIR01B-1003 5MS06-Kwa-s	ARDG-000477 -TIR01B-1003 5MS06-Kwa-s	ARDG-000478 -TIR01B-1003 5MS06-Kwa-s
Sample Date & Time	02-Oct-22	02-Oct-22	03-Oct-22	03-Oct-22	06-Oct-22	07-Oct-22	08-Oct-22
Paste pH [no unit]	9.01	8.99	8.72	8.98	9.10	9.08	8.95
Fizz Rate [rating]	3	3	3	3	3	3	3
Sample weight [g]	1.90	1.91	2.02	1.89	1.90	1.86	1.81

Online LIMS

0003138591

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000472	ARDG-000473	ARDG-000474	ARDG-000475	ARDG-000476	ARDG-000477	ARDG-000478
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	5MS04-Kwa-s	5MS04-Kwa-s	5MS04-Kwa-s	5MS04-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s
HCl_add [mL]	45.00	40.00	40.00	40.00	40.00	40.00	40.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23.87	21.85	21.32	24.47	21.70	22.11	21.43
Final pH [no unit]	1.75	1.86	1.81	1.61	1.79	1.70	1.77
NP [t CaCO3/1000 t]	55.6	47.5	46.2	41.1	48.1	48.1	51.3
AP [t CaCO3/1000 t]	5.62	5.31	5.94	3.75	5.31	5.31	5.94
Net NP [t CaCO3/1000 t]	50.0	42.2	40.3	37.4	42.8	42.8	45.4
NP/AP [ratio]	9.88	8.94	7.78	11.0	9.05	9.05	8.64
S [%]	0.227	0.249	0.267	0.190	0.224	0.225	0.255
Acid Leachable SO4-S [%]	0.05	0.08	0.08	0.07	0.05	0.06	0.06
Sulphide [%]	0.18	0.17	0.19	0.12	0.17	0.17	0.19
C [%]	0.826	0.725	0.703	0.661	0.685	0.683	0.727
CO3 (HCl) [%]	3.58	2.90	3.05	2.72	2.92	2.91	3.25

Analysis	15:	16:	17:	18:
	ARDG-000479	ARDG-000480	ARDG-000481	ARDG-000482
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s
Sample Date & Time	09-Oct-22	10-Oct-22	11-Oct-22	12-Oct-22
Paste pH [no unit]	9.15	8.96	9.01	8.85
Fizz Rate [rating]	3	3	3	3
Sample weight [g]	1.91	1.84	1.93	1.92
HCl_add [mL]	45.00	40.00	50.00	45.00
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]	23.82	23.82	25.25	24.20
Final pH [no unit]	1.76	1.65	1.70	1.72
NP [t CaCO3/1000 t]	55.4	44.0	64.1	54.2
AP [t CaCO3/1000 t]	7.19	5.31	5.94	7.81
Net NP [t CaCO3/1000 t]	48.2	38.7	58.2	46.4
NP/AP [ratio]	7.71	8.28	10.8	6.94
S [%]	0.297	0.223	0.217	0.304
Acid Leachable SO4-S [%]	0.07	0.05	< 0.04	0.05
Sulphide [%]	0.23	0.17	0.19	0.25
C [%]	0.843	0.630	0.959	0.796
CO3 (HCl) [%]	3.66	2.61	4.13	3.51

ABA - Modified Sobek

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

 Weight of Sample

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Project : PO#1124452**LR Report :** CA19060-NOV22

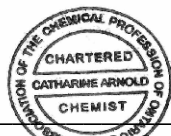
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

16-December-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 07 November 2022

LR Report: CA19061-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000469 -TIR01B-1003 5MS04-Kwa-s	6: ARDG-000470 -TIR01B-1003 5MS04-Kwa-s	7: ARDG-000471 -TIR01B-1003 5MS04-Kwa-s
Sample Date & Time					02-Oct-22	02-Oct-22	02-Oct-22
Ag [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	< 0.5	< 0.5	< 0.5
Al [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	76000	78000	77000
As [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	190	210	200
Ba [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	660	680	720
Be [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	1	1	1
Bi [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	0.21	0.20	0.19
Ca [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	15000	14000	11000
Cd [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	0.10	0.08	0.09
Co [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	18	20	20
Cr [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	57	74	89
Cu [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	45	54	49
Fe [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	41000	48000	40000
K [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	18000	18000	20000
Li [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	34	38	42
Mg [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	12000	13000	13000
Mn [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	370	390	370
Mo [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	1.5	1.4	1.6
Ni [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	59	64	67
Pb [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	15	13	12
Sb [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	< 0.8	< 0.8	< 0.8
Se [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	< 0.7	< 0.7	< 0.7
Sn [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	< 6	< 6	< 6
Sr [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	280	270	260
Ti [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	3100	3800	3300
Tl [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	0.49	0.48	0.52
U [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	1.85	1.87	2.04
V [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	77	85	83

Online LIMS

0003162710

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Project : PO#1124452

LR Report : CA19061-NOV22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000469 -TIR01B-1003 5MS04-Kwa-s	6: ARDG-000470 -TIR01B-1003 5MS04-Kwa-s	7: ARDG-000471 -TIR01B-1003 5MS04-Kwa-s
Y [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	7.22	6.54	6.12
Zn [µg/g]	06-Dec-22	19:21	07-Dec-22	17:22	64	68	72

Analysis	8: ARDG-000472 -TIR01B-1003 5MS04-Kwa-s	9: ARDG-000473 -TIR01B-1003 5MS04-Kwa-s	10: ARDG-000474 -TIR01B-1003 5MS04-Kwa-s	11: ARDG-000475 -TIR01B-1003 5MS04-Kwa-s	12: ARDG-000476 -TIR01B-1003 5MS06-Kwa-s	13: ARDG-000477 -TIR01B-1003 5MS06-Kwa-s	14: ARDG-000478 -TIR01B-1003 5MS06-Kwa-s
Sample Date & Time	02-Oct-22	02-Oct-22	03-Oct-22	03-Oct-22	06-Oct-22	07-Oct-22	08-Oct-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	73000	77000	71000	71000	83000	73000	78000
As [µg/g]	250	71	220	32	120	130	260
Ba [µg/g]	870	1000	670	730	580	560	670
Be [µg/g]	1	1	1	1	1	1	2
Bi [µg/g]	0.35	0.19	0.28	0.18	0.20	0.21	0.25
Ca [µg/g]	14000	11000	12000	11000	13000	12000	13000
Cd [µg/g]	0.13	0.06	0.08	0.06	0.08	0.06	0.08
Co [µg/g]	18	20	19	18	20	18	18
Cr [µg/g]	95	120	70	65	73	68	67
Cu [µg/g]	45	41	44	46	47	45	41
Fe [µg/g]	35000	42000	39000	39000	40000	38000	39000
K [µg/g]	17000	21000	19000	18000	19000	17000	18000
Li [µg/g]	33	47	38	40	41	41	38
Mg [µg/g]	12000	15000	13000	13000	14000	13000	13000
Mn [µg/g]	300	340	360	310	370	340	370
Mo [µg/g]	1.8	1.6	1.5	1.8	1.9	1.6	2.2
Ni [µg/g]	56	69	64	62	68	61	62
Pb [µg/g]	44	12	25	10	36	29	23
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	380	320	270	310	290	270	320
Ti [µg/g]	2800	2600	2300	2100	2000	1800	3300
Tl [µg/g]	0.47	0.63	0.60	0.49	0.53	0.50	0.54
U [µg/g]	1.79	1.74	2.03	1.37	1.91	1.85	2.27
V [µg/g]	71	93	76	72	81	75	82
Y [µg/g]	6.34	6.27	5.80	4.85	6.66	6.27	6.12
Zn [µg/g]	72	84	74	73	82	75	73

Analysis	15:	16:	17:	18:
	ARDG-000479	ARDG-000480	ARDG-000481	ARDG-000482
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s	5MS06-Kwa-s
Sample Date & Time	09-Oct-22	10-Oct-22	11-Oct-22	12-Oct-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	79000	81000	69000	67000
As [µg/g]	240	95	240	68
Ba [µg/g]	1600	720	680	770
Be [µg/g]	2	2	1	1
Bi [µg/g]	0.52	0.25	0.20	0.22
Ca [µg/g]	15000	10000	16000	16000
Cd [µg/g]	0.10	0.05	0.05	0.08
Co [µg/g]	19	19	17	18
Cr [µg/g]	75	70	89	98
Cu [µg/g]	45	43	44	43
Fe [µg/g]	39000	43000	35000	40000
K [µg/g]	21000	20000	18000	16000
Li [µg/g]	37	51	30	40
Mg [µg/g]	13000	15000	11000	13000
Mn [µg/g]	370	370	330	380
Mo [µg/g]	1.7	1.5	1.4	1.3
Ni [µg/g]	62	68	55	55
Pb [µg/g]	380	18	13	16
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	410	250	320	370
Ti [µg/g]	3500	1900	2900	3200
Tl [µg/g]	0.67	0.60	0.51	0.46
U [µg/g]	2.03	2.04	1.52	1.31
V [µg/g]	83	87	66	81
Y [µg/g]	6.32	7.78	5.83	6.19
Zn [µg/g]	76	81	64	71

Catharine Arnold



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Project : PO#1124452

06-February-2023

Date Rec. : 07 November 2022

LR Report: CA19062-NOV22

Reference: Meliadine

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: ARDG-000469-T IR01B-10035MS 04-Kwa-s	6: ARDG-000470-T IR01B-10035MS 04-Kwa-s	7: ARDG-000471-T IR01B-10035MS 04-Kwa-s	8: ARDG-000472-T IR01B-10035MS 04-Kwa-s	9: ARDG-000473-T IR01B-10035MS 04-Kwa-s	10: ARDG-000474-T IR01B-10035MS 04-Kwa-s
Sample Date & Time					02-Oct-22	02-Oct-22	02-Oct-22	02-Oct-22	02-Oct-22	03-Oct-22
Sample weight [g]	30-Jan-23	08:21	31-Jan-23	15:34	250	250	250	250	249	250
Volume D.I. Water [mL]	30-Jan-23	08:21	31-Jan-23	15:34	750	750	750	750	750	750
Final pH [no unit]	31-Jan-23	10:15	31-Jan-23	15:34	8.85	8.84	8.41	8.95	8.92	8.36
pH [No unit]	31-Jan-23	15:18	01-Feb-23	11:30	7.98	7.92	7.86	7.96	7.96	7.79
Conductivity [uS/cm]	31-Jan-23	15:18	01-Feb-23	11:30	437	455	1670	323	349	963
Alkalinity [mg/L as CaCO3]	31-Jan-23	15:18	01-Feb-23	11:30	45	44	43	42	42	44
Sulphate [mg/L]	01-Feb-23	10:27	01-Feb-23	13:03	70	78	120	78	73	140
Mercury [mg/L]	01-Feb-23	13:15	01-Feb-23	17:10	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.443	0.423	0.216	0.482	0.427	0.231
Arsenic [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.173	0.109	0.0659	0.167	0.166	0.0542
Barium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00516	0.00547	0.0221	0.00642	0.00622	0.0122
Boron [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.018	0.020	0.028	0.013	0.012	0.023
Beryllium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.000022	< 0.000007	0.000031	< 0.000007	0.000008	0.000031
Bismuth [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	16.0	19.2	32.9	15.2	14.8	30.2

Online LIMS

000320922



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Project : PO#1124452
LR Report : CA19062-NOV22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000469-T IR01B-10035MS 04-Kwa-s	ARDG-000470-T IR01B-10035MS 04-Kwa-s	ARDG-000471-T IR01B-10035MS 04-Kwa-s	ARDG-000472-T IR01B-10035MS 04-Kwa-s	ARDG-000473-T IR01B-10035MS 04-Kwa-s	ARDG-000474-T IR01B-10035MS 04-Kwa-s
Cadmium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.000055	0.000007	0.000084	0.000003	0.000009	0.000031
Cobalt [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.000110	0.000094	0.000585	0.000076	0.000104	0.000370
Chromium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00016	< 0.00008	0.00025	< 0.00008	< 0.00008	0.00009
Copper [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.0003	0.0003	0.0006	< 0.0002	< 0.0002	0.0005
Iron [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	18.8	19.8	30.3	18.3	18.9	24.6
Lithium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.0019	0.0018	0.0050	0.0022	0.0021	0.0036
Magnesium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	6.30	7.26	27.7	6.14	6.08	18.2
Manganese [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00423	0.00419	0.0385	0.00342	0.00309	0.0215
Molybdenum [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00989	0.00742	0.00886	0.00692	0.00461	0.00653
Sodium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	36.6	38.3	203	22.7	23.6	97.5
Nickel [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.0004	0.0004	0.0018	0.0003	0.0003	0.0018
Lead [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	< 0.00009	< 0.00009	< 0.00009	0.00013	< 0.00009	< 0.00009
Antimony [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.0054	0.0048	0.0046	0.0062	0.0067	0.0036
Selenium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00105	0.00085	0.00213	0.00156	0.00123	0.00164
Silicon [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	1.90	1.74	1.90	2.03	1.94	1.86
Tin [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.0776	0.0937	0.230	0.0902	0.0887	0.191
Titanium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00068	0.00014	0.00085	0.00015	0.00015	0.00031
Thallium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.000015	0.000007	0.000035	0.000018	0.000016	0.000030
Uranium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.000763	0.000573	0.00112	0.000588	0.000370	0.00124
Tungsten [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00285	0.00226	0.00289	0.00321	0.00190	0.00196
Vanadium [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	0.00129	0.00088	0.00055	0.00145	0.00127	0.00052
Zinc [mg/L]	01-Feb-23	11:36	02-Feb-23	11:13	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	11:	12:	13:	14:	15:	16:	17:	18:
	ARDG-000475-T IR01B-10035MS 04-Kwa-s	ARDG-000476-T IR01B-10035MS 06-Kwa-s	ARDG-000477-T IR01B-10035MS 06-Kwa-s	ARDG-000478-T IR01B-10035MS 06-Kwa-s	ARDG-000479-T IR01B-10035MS 06-Kwa-s	ARDG-000480-T IR01B-10035MS 06-Kwa-s	ARDG-000481-T IR01B-10035MS 06-Kwa-s	ARDG-000482-T IR01B-10035MS 06-Kwa-s
Sample Date & Time	03-Oct-22	06-Oct-22	07-Oct-22	08-Oct-22	09-Oct-22	10-Oct-22	11-Oct-22	12-Oct-22

OnLine LIMS

000320922



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Project : PO#1124452

LR Report : CA19062-NOV22

Analysis	11: ARDG-000475-T IR01B-10035MS 04-Kwa-s	12: ARDG-000476-T IR01B-10035MS 06-Kwa-s	13: ARDG-000477-T IR01B-10035MS 06-Kwa-s	14: ARDG-000478-T IR01B-10035MS 06-Kwa-s	15: ARDG-000479-T IR01B-10035MS 06-Kwa-s	16: ARDG-000480-T IR01B-10035MS 06-Kwa-s	17: ARDG-000481-T IR01B-10035MS 06-Kwa-s	18: ARDG-000482-T IR01B-10035MS 06-Kwa-s
Sample weight [g]	250	250	250	249	250	250	250	249
Volume D.I. Water [mL]	750	750	750	750	750	750	750	750
Final pH [no unit]	8.81	9.04	9.07	8.89	8.85	8.87	9.02	8.88
pH [No unit]	7.92	8.07	8.01	7.86	7.97	7.91	8.04	7.83
Conductivity [uS/cm]	437	241	277	464	476	301	389	597
Alkalinity [mg/L as CaCO3]	42	50	48	43	47	41	51	40
Sulphate [mg/L]	87	40	42	78	74	58	69	81
Mercury [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Silver [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Aluminum [mg/L]	0.376	0.573	0.568	0.372	0.426	0.461	0.460	0.396
Arsenic [mg/L]	0.207	0.0839	0.0841	0.0835	0.109	0.145	0.117	0.0954
Barium [mg/L]	0.00640	0.00190	0.00213	0.00496	0.0102	0.00281	0.00431	0.00837
Boron [mg/L]	0.024	0.009	0.013	0.047	0.016	0.021	0.013	0.016
Beryllium [mg/L]	0.000017	< 0.000007	0.000010	< 0.000007	< 0.000007	< 0.000007	< 0.000007	0.000009
Bismuth [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Calcium [mg/L]	15.9	10.2	10.3	14.3	17.2	12.3	13.8	21.9
Cadmium [mg/L]	0.000013	0.000006	0.000019	0.000012	0.000027	0.000010	0.000009	0.000019
Cobalt [mg/L]	0.000157	0.000123	0.000107	0.000094	0.000112	0.000101	0.000076	0.000087
Chromium [mg/L]	< 0.00008	< 0.00008	0.00010	< 0.00008	0.00011	< 0.00008	< 0.00008	0.00009
Copper [mg/L]	0.0002	0.0004	0.0008	0.0004	0.0004	0.0002	0.0003	0.0003
Iron [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
Potassium [mg/L]	19.6	16.0	17.4	19.6	21.7	16.6	20.8	19.9
Lithium [mg/L]	0.0025	0.0016	0.0017	0.0022	0.0023	0.0018	0.0021	0.0020
Magnesium [mg/L]	7.69	3.41	3.51	6.63	7.20	5.22	6.08	7.71
Manganese [mg/L]	0.00435	0.00208	0.00201	0.00604	0.00565	0.00365	0.00202	0.00259
Molybdenum [mg/L]	0.00752	0.00848	0.0102	0.0119	0.0120	0.00931	0.00708	0.00497
Sodium [mg/L]	38.8	17.4	22.2	45.8	38.6	24.1	32.4	58.7
Nickel [mg/L]	0.0005	0.0017	0.0016	0.0014	0.0024	0.0014	0.0003	0.0003
Lead [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00017	< 0.00009	< 0.00009	< 0.00009
Antimony [mg/L]	0.0064	0.0060	0.0064	0.0031	0.0054	0.0057	0.0056	0.0057
Selenium [mg/L]	0.00143	0.00050	0.00061	0.00103	0.00105	0.00046	0.00120	0.00147

Online LIMS

0003220922

Analysis	11: ARDG-000475-T IR01B-10035MS 04-Kwa-s	12: ARDG-000476-T IR01B-10035MS 06-Kwa-s	13: ARDG-000477-T IR01B-10035MS 06-Kwa-s	14: ARDG-000478-T IR01B-10035MS 06-Kwa-s	15: ARDG-000479-T IR01B-10035MS 06-Kwa-s	16: ARDG-000480-T IR01B-10035MS 06-Kwa-s	17: ARDG-000481-T IR01B-10035MS 06-Kwa-s	18: ARDG-000482-T IR01B-10035MS 06-Kwa-s
Silicon [mg/L]	2.05	1.85	1.88	1.87	1.87	1.77	2.13	2.15
Tin [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Strontium [mg/L]	0.0895	0.0415	0.0445	0.0831	0.109	0.0548	0.0713	0.147
Titanium [mg/L]	0.00027	0.00020	0.00050	0.00013	0.00041	0.00012	0.00031	0.00019
Thallium [mg/L]	0.000014	0.000007	0.000008	0.000013	0.000021	0.000009	0.000011	0.000016
Uranium [mg/L]	0.000774	0.000319	0.000307	0.000759	0.000717	0.000294	0.000510	0.000338
Tungsten [mg/L]	0.00290	0.00407	0.00419	0.00275	0.00488	0.00191	0.00728	0.00286
Vanadium [mg/L]	0.00147	0.00157	0.00162	0.00104	0.00105	0.00116	0.00178	0.00163
Zinc [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Alkalinity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2320
Anions by discrete analyzer	ME-CA-[ENV]EWL-LAK-AN-026	US EPA 375.4
Conductivity	ME-CA-[ENV]EWL-LAK-AN-006	SM 2510
Inorganics-General	ME-CA-[ENV]SPE-LAK-AN-004	EPA 7471A/SM 3112B
Metals in aqueous samples - ICP-MS	ME-CA-[ENV]SPE-LAK-AN-006	SM 3030/EPA 200.8
pH	ME-CA-[ENV]EWL-LAK-AN-006	SM 4500

Chris Sullivan



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



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Project : PO#1124452
LR Report : CA19062-NOV22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Alkalinity - QCBatchID: EWL0501-JAN23</i>													
Alkalinity	2	mg/L as Ca	< 2			4	20	100	80	120	NA		
<i>Anions by discrete analyzer - QCBatchID: DIO5002-FEB23</i>													
Sulphate	2	mg/L	<2			1	20	108	80	120	101	75	125
<i>Conductivity - QCBatchID: EWL0501-JAN23</i>													
Conductivity	2	uS/cm	< 2			0	20	99	90	110	NA		
<i>Inorganics-General - QCBatchID: EHG0060-JAN23</i>													
Mercury	0.00001	mg/L	< 0.00001			0	20	113	80	120	105	70	130
<i>Metals - QCBatchID: EMS0009-FEB23</i>													
Cobalt	0.000004	mg/L	<0.000004			ND	20	98	90	110	98	70	130
<i>Metals in aqueous samples - ICP-MS - QCBatchID: EMS0009-FEB23</i>													
Aluminum	0.001	mg/L	<0.001			1	20	98	90	110	101	70	130
Antimony	0.0009	mg/L	<0.0009			ND	20	98	90	110	129	70	130
Arsenic	0.0002	mg/L	<0.0002			3	20	100	90	110	90	70	130
Barium	0.00008	mg/L	<0.00002			5	20	101	90	110	97	70	130
Beryllium	0.000007	mg/L	<0.000007			ND	20	98	90	110	87	70	130
Bismuth	0.00001	mg/L	<0.00001			ND	20	93	90	110	88	70	130
Boron	0.002	mg/L	<0.002			2	20	103	90	110	NV	70	130
Cadmium	0.000003	mg/L	<0.000003			ND	20	98	90	110	94	70	130
Calcium	0.01	mg/L	<0.01			0	20	103	90	110	97	70	130
Chromium	0.00008	mg/L	<0.00008			ND	20	98	90	110	105	70	130
Copper	0.0002	mg/L	<0.0002			0	20	98	90	110	99	70	130
Iron	0.007	mg/L	<0.007			2	20	110	90	110	94	70	130
Lead	0.00009	mg/L	<0.00001			3	20	97	90	110	97	70	130
Lithium	0.0001	mg/L	<0.0001			5	20	98	90	110	94	70	130
Magnesium	0.001	mg/L	<0.001			1	20	101	90	110	93	70	130
Manganese	0.00001	mg/L	<0.00001			2	20	103	90	110	96	70	130
Molybdenum	0.00004	mg/L	<0.00004			3	20	96	90	110	92	70	130
Nickel	0.0001	mg/L	<0.0001			4	20	98	90	110	94	70	130
Potassium	0.009	mg/L	<0.009			0	20	100	90	110	91	70	130
Selenium	0.00004	mg/L	<0.00004			ND	20	101	90	110	83	70	130
Silicon	0.02	mg/L	<0.02			9	20	101	90	110	NV	70	130
Silver	0.00005	mg/L	<0.00005			ND	20	98	90	110	90	70	130
Sodium	0.01	mg/L	<0.01			3	20	100	90	110	91	70	130
Strontium	0.00008	mg/L	<0.00002			1	20	97	90	110	93	70	130
Thallium	0.000005	mg/L	<0.000005			0	20	96	90	110	96	70	130



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Project : PO#1124452
LR Report : CA19062-NOV22

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
Tin	0.00006	mg/L	<0.00006			ND	20	99	90	110	NV	70	130
Titanium	0.00005	mg/L	<0.00005			ND	20	99	90	110	NV	70	130
Tungsten	0.00002	mg/L	<0.00002			5	20	98	90	110	NV	70	130
Uranium	0.000002	mg/L	<0.000002			4	20	93	90	110	95	70	130
Vanadium	0.00001	mg/L	<0.00001			ND	20	100	90	110	101	70	130
Zinc	0.002	mg/L	<0.002			ND	20	100	90	110	95	70	130
<i>pH - QCBatchID: EWL0501-JAN23</i>													
pH	0.05	No unit	NA			0		100			NA		



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Agnico Eagle Mines Limited

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Meliadine
, Nunavut
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Project : PO#1124452

29-January-2023

Date Rec. : 28 December 2022
LR Report: CA19253-DEC22
Reference: Meliadine - PO#1124452

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: ARDG-000447 -TIR01B-1003 5MS02-Kwa-s	6: ARDG-000448 -TIR01B-1003 5MS02-Kwa-s	7: ARDG-000449 -TIR01B-1003 5MS02-Kwa-s	8: ARDG-000450 -TIR01B-1003 5MS02-Kwa-s	9: ARDG-000451 -TIR01B-1003 5MS02-Kwa-s	10: ARDG-000452 -TIR01B-1003 5MS02-Kwa-s
Sample Date & Time					18-Sep-22	18-Sep-22	18-Sep-22	19-Sep-22	19-Sep-22	19-Sep-22
Paste pH [no unit]	09-Jan-23	09:26	11-Jan-23	11:40	8.93	8.91	8.45	8.90	9.01	8.94
Fizz Rate [rating]	09-Jan-23	09:26	11-Jan-23	11:40	2	2	2	2	3	2
Sample weight [g]	09-Jan-23	09:26	11-Jan-23	11:40	1.96	2.09	2.05	1.95	1.99	2.00
HCl_add [mL]	09-Jan-23	09:26	11-Jan-23	11:40	41.80	35.00	33.00	30.80	29.80	32.60
HCl [Normality]	09-Jan-23	09:26	11-Jan-23	11:40	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	09-Jan-23	09:26	11-Jan-23	11:40	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	09-Jan-23	09:26	11-Jan-23	11:40	21.27	14.40	12.98	14.30	13.72	12.64
Final pH [no unit]	09-Jan-23	09:26	11-Jan-23	11:40	1.45	1.82	1.80	1.59	1.60	1.76
NP [t CaCO3/1000 t]	09-Jan-23	09:26	11-Jan-23	11:40	52.4	49.3	48.8	42.3	40.4	49.9
AP [t CaCO3/1000 t]	27-Jan-23	12:32	27-Jan-23	12:32	4.69	5.62	9.06	5.62	7.19	5.94
Net NP [t CaCO3/1000 t]	27-Jan-23	12:32	27-Jan-23	12:32	47.7	43.7	39.7	36.7	33.2	44.0
NP/AP [ratio]	27-Jan-23	12:32	27-Jan-23	12:32	11.2	8.76	5.38	7.52	5.62	8.40
S [%]	20-Jan-23	08:10	27-Jan-23	12:32	0.228	0.237	0.337	0.240	0.322	0.234
Acid Leachable SO4-S [%]	27-Jan-23	12:32	27-Jan-23	12:32	0.08	0.06	0.05	0.06	0.09	0.04

OnLine LIMS

0003211697



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Project : PO#1124452

LR Report : CA19253-DEC22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000447 -TIR01B-1003 5MS02-Kwa-s	6: ARDG-000448 -TIR01B-1003 5MS02-Kwa-s	7: ARDG-000449 -TIR01B-1003 5MS02-Kwa-s	8: ARDG-000450 -TIR01B-1003 5MS02-Kwa-s	9: ARDG-000451 -TIR01B-1003 5MS02-Kwa-s	10: ARDG-000452 -TIR01B-1003 5MS02-Kwa-s
Sulphide [%]	26-Jan-23	15:34	27-Jan-23	12:32	0.15	0.18	0.29	0.18	0.23	0.19
C [%]	20-Jan-23	08:10	26-Jan-23	15:55	0.737	0.736	0.661	0.577	0.583	0.695
CO3 (HCl) [%]	26-Jan-23	09:25	26-Jan-23	15:55	3.19	3.24	2.99	2.44	2.40	3.05

Analysis	11: ARDG-000453 -TIR01B-1003 5MS02-Kwa-s	12: ARDG-000454 -TIR01B-1003 5MS02-Kwa-s	13: ARDG-000455 -TIR01B-1003 5MS02-Kwa-s	14: ARDG-000456 -TIR01B-1003 5MS02-Kwa-s	15: ARDG-000457 -TIR01B-1003 5MS02-Kwa-s	16: ARDG-000458 -TIR01B-1003 5MS02-Kwa-s	17: ARDG-000459 -TIR01B-1003 5MS02-Kwa-s
Sample Date & Time	19-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22
Paste pH [no unit]	8.73	8.86	9.07	8.98	8.99	9.07	8.63
Fizz Rate [rating]	2	2	2	2	2	2	2
Sample weight [g]	1.96	1.97	2.00	2.07	2.07	2.00	1.98
HCl_add [mL]	43.00	40.00	31.50	33.20	31.90	34.30	33.10
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	20.69	14.65	13.40	13.36	14.85	15.92	14.90
Final pH [no unit]	1.48	1.78	1.79	1.87	1.58	1.64	1.63
NP [t CaCO3/1000 t]	56.9	64.3	45.3	47.9	41.2	45.9	46.0
AP [t CaCO3/1000 t]	7.50	8.75	3.44	6.25	4.69	3.44	5.62
Net NP [t CaCO3/1000 t]	49.4	55.6	41.9	41.6	36.5	42.5	40.4
NP/AP [ratio]	7.59	7.35	13.2	7.66	8.79	13.4	8.18
S [%]	0.304	0.333	0.185	0.238	0.195	0.196	0.236
Acid Leachable SO4-S [%]	0.06	0.05	0.08	< 0.04	0.04	0.09	0.06
Sulphide [%]	0.24	0.28	0.11	0.20	0.15	0.11	0.18
C [%]	0.798	0.968	0.728	0.709	0.629	0.720	0.667
CO3 (HCl) [%]	3.54	4.42	3.07	3.11	2.62	2.95	2.86

ABA - Modified Sobek

*NP (Neutralization Potential)

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

Weight of Sample

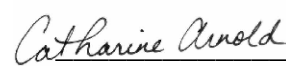

*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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 <0.04 will be calculated using a 0.04 value.



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mel

Project : PO#1124452

24-January-2023

Date Rec. : 28 December 2022

LR Report: CA19254-DEC22

Reference: PO#1124452

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: ARDG-000447-T IR01B-10035MS 02-Kwa-s	6: ARDG-000448-T IR01B-10035MS 02-Kwa-s	7: ARDG-000449-T IR01B-10035MS 02-Kwa-s	8: ARDG-000450-T IR01B-10035MS 02-Kwa-s	9: ARDG-000451-T IR01B-10035MS 02-Kwa-s	10: ARDG-000452-T IR01B-10035MS 02-Kwa-s
Sample Date & Time					18-Sep-22	18-Sep-22	18-Sep-22	19-Sep-22	19-Sep-22	19-Sep-22
Ag [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	38000	35000	36000	29000	32000	35000
As [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	440	400	510	23	19	42
Ba [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	570	540	1000	530	600	580
Be [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	1.1	1.1	1.4	0.98	1.0	1.0
Bi [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	0.21	0.22	0.20	0.15	0.17	0.17
Ca [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	9200	8100	8300	8900	9500	9200
Cd [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	0.12	0.11	0.09	0.07	0.09	0.08
Co [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	19	18	22	17	19	18
Cr [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	150	170	86	90	79	80
Cu [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	45	48	79	42	44	49
Fe [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	35000	34000	42000	30000	32000	33000
K [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	15000	14000	23000	11000	12000	13000
Li [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	27	26	33	25	28	27
Mg [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	11000	10000	13000	8600	9500	9500
Mn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	280	280	290	240	250	250

OnLine LIMS

0003206300



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mel

Project : PO#1124452

LR Report : CA19254-DEC22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000447-T IR01B-10035MS 02-Kwa-s	ARDG-000448-T IR01B-10035MS 02-Kwa-s	ARDG-000449-T IR01B-10035MS 02-Kwa-s	ARDG-000450-T IR01B-10035MS 02-Kwa-s	ARDG-000451-T IR01B-10035MS 02-Kwa-s	ARDG-000452-T IR01B-10035MS 02-Kwa-s
Mo [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	1.4	1.6	1.6	1.8	1.5	1.4
Ni [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	64	62	75	56	57	57
Pb [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	14	14	14	9	11	11
Sb [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	220	220	210	200	200	200
Ti [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	1000	1000	930	940	880	1000
Tl [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	0.45	0.44	0.67	0.37	0.38	0.42
U [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	1.38	1.27	1.69	0.49	0.43	0.67
V [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	64	69	85	53	55	55
Y [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	4.30	3.99	4.62	2.81	3.09	2.81
Zn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:17	66	68	75	59	62	62

Analysis	11:	12:	13:	14:	15:	16:	17:
	ARDG-000453-T IR01B-10035MS 02-Kwa-s	ARDG-000454-T IR01B-10035MS 02-Kwa-s	ARDG-000455-T IR01B-10035MS 02-Kwa-s	ARDG-000456-T IR01B-10035MS 02-Kwa-s	ARDG-000457-T IR01B-10035MS 02-Kwa-s	ARDG-000458-T IR01B-10035MS 02-Kwa-s	ARDG-000459-T IR01B-10035MS 02-Kwa-s
Sample Date & Time	19-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	32000	30000	38000	37000	35000	44000	42000
As [µg/g]	550	130	79	75	86	120	93
Ba [µg/g]	570	640	440	630	620	610	520
Be [µg/g]	1.2	0.99	1.2	1.1	1.2	1.2	1.1
Bi [µg/g]	0.27	0.15	0.43	0.20	0.16	0.21	0.17
Ca [µg/g]	10000	14000	8300	8500	7400	9200	8700
Cd [µg/g]	0.11	0.15	0.09	0.09	0.08	0.10	0.08
Co [µg/g]	17	18	21	19	21	21	18
Cr [µg/g]	78	82	88	130	170	91	70
Cu [µg/g]	49	49	46	47	48	51	48

OnLine LIMS

0003206300

Analysis	11: ARDG-000453-T IR01B-10035MS 02-Kwa-s	12: ARDG-000454-T IR01B-10035MS 02-Kwa-s	13: ARDG-000455-T IR01B-10035MS 02-Kwa-s	14: ARDG-000456-T IR01B-10035MS 02-Kwa-s	15: ARDG-000457-T IR01B-10035MS 02-Kwa-s	16: ARDG-000458-T IR01B-10035MS 02-Kwa-s	17: ARDG-000459-T IR01B-10035MS 02-Kwa-s
Fe [µg/g]	31000	28000	36000	35000	38000	36000	34000
K [µg/g]	14000	13000	14000	16000	17000	16000	14000
Li [µg/g]	24	17	28	27	33	31	30
Mg [µg/g]	9100	7900	11000	11000	12000	12000	11000
Mn [µg/g]	250	280	290	260	260	290	270
Mo [µg/g]	1.8	2.3	1.4	1.4	1.6	1.5	1.0
Ni [µg/g]	56	53	67	66	71	69	64
Pb [µg/g]	38	15	21	15	14	18	16
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	200	260	200	230	190	240	220
Ti [µg/g]	2100	1700	1100	1000	860	880	800
Tl [µg/g]	0.45	0.43	0.47	0.48	0.50	0.46	0.45
U [µg/g]	0.51	0.43	0.60	1.55	1.50	1.43	1.02
V [µg/g]	53	46	65	63	79	71	62
Y [µg/g]	2.91	3.68	2.96	4.31	3.68	4.38	3.86
Zn [µg/g]	60	57	68	67	75	69	68

Catharine Arnold



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Project : PO#1124452

22-February-2023

Date Rec. : 28 December 2022
LR Report: CA19255-DEC22
Reference: Meliadine - PO#1124452

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000447-T IR01B-10035MS 02-Kwa-s	6: ARDG-000448-T IR01B-10035MS 02-Kwa-s	7: ARDG-000449-T IR01B-10035MS 02-Kwa-s
Sample Date & Time					18-Sep-22	18-Sep-22	18-Sep-22
Sample weight [g]	12-Feb-23	08:30	13-Feb-23	15:26	250	249	250
Volume D.I. Water [mL]	12-Feb-23	08:30	13-Feb-23	15:26	750	750	750
Final pH [no unit]	13-Feb-23	11:15	13-Feb-23	15:26	9.05	8.95	8.40
pH [No unit]	13-Feb-23	15:34	14-Feb-23	09:57	8.05	8.05	7.71
Conductivity [uS/cm]	13-Feb-23	15:34	14-Feb-23	09:57	231	289	604
Alkalinity [mg/L as CaCO3]	13-Feb-23	15:34	15-Feb-23	10:01	41	45	34
SO4 [mg/L]	15-Feb-23	11:29	15-Feb-23	14:16	43	56	270
Hg [mg/L]	16-Feb-23	07:00	16-Feb-23	12:51	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.618	0.568	0.169
As [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.180	0.164	0.0322
Ba [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.00192	0.00269	0.01280
B [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.013	0.018	0.030
Be [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.00001	< 0.00001	0.00020
Ca [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	11.3	13.7	43.8
Cd [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.000035	0.000053	0.000306
Cr [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.00008	0.00009	< 0.00008
Cu [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.0002	0.0002	< 0.0002
Fe [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.007	< 0.007	< 0.007
K [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	15.2	18.1	24.1
Li [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.0017	0.0022	0.0048
Mg [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	4.26	5.70	20.8
Mn [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.00151	0.00223	0.04343
Mo [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.00555	0.00755	0.00249
Na [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	18.1	24.0	33.5
Ni [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.0002	0.0003	0.0008

Online LIMS

0003239138



mel

SGS Canada Inc.

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Lakefield - Ontario - KOL 2H0
Phone: 705-652-2000 FAX: 705-652-6365

Project : PO#1124452

LR Report : CA19255-DEC22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000447-T IR01B-10035MS 02-Kwa-s	ARDG-000448-T IR01B-10035MS 02-Kwa-s	ARDG-000449-T IR01B-10035MS 02-Kwa-s
Pb [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.0047	0.0057	0.0022
Se [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	0.00080	0.00101	0.00232
Si [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	1.95	1.89	1.97
Sn [mg/L]	15-Feb-23	09:27	19-Feb-23	16:42	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	0.0464	0.0598	0.201
Ti [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	0.00014	0.00006	< 0.00005
Tl [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	< 0.000005	0.000005	0.000017
U [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	0.000282	0.000527	0.000539
W [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	0.00379	0.00474	0.00215
V [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	0.00217	0.00197	0.00041
Zn [mg/L]	15-Feb-23	09:27	19-Feb-23	16:43	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000450-T IR01B-10035MS 02-Kwa-s	ARDG-000451-T IR01B-10035MS 02-Kwa-s	ARDG-000452-T IR01B-10035MS 02-Kwa-s	ARDG-000453-T IR01B-10035MS 02-Kwa-s	ARDG-000454-T IR01B-10035MS 02-Kwa-s	ARDG-000455-T IR01B-10035MS 02-Kwa-s	ARDG-000456-T IR01B-10035MS 02-Kwa-s
Sample Date & Time	19-Sep-22	19-Sep-22	19-Sep-22	19-Sep-22	30-Sep-22	30-Sep-22	30-Sep-22
Sample weight [g]	249	250	249	249	250	249	249
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	8.90	8.58	8.78	8.80	8.85	9.09	9.04
pH [No unit]	7.91	7.89	7.98	7.90	7.97	8.15	7.83
Conductivity [uS/cm]	296	324	306	326	356	249	270
Alkalinity [mg/L as CaCO3]	35	36	44	38	43	55	44
SO4 [mg/L]	71	86	72	90	85	43	52
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.532	0.474	0.498	0.500	0.467	0.630	0.599
As [mg/L]	0.0422	0.0436	0.0675	0.167	0.139	0.182	0.107
Ba [mg/L]	0.00489	0.00591	0.00490	0.00619	0.00635	0.00187	0.00258
B [mg/L]	0.012	0.014	0.013	0.014	0.014	0.015	0.012
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	0.00005	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	16.7	18.2	15.8	19.7	19.5	9.49	11.4
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000043	0.000039	0.000055	0.000084	0.000103	0.000037	0.000052
Cr [mg/L]	< 0.00008	0.00011	0.00009	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0003	< 0.0002	< 0.0002	0.0004	0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	0.008	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	16.6	19.4	19.4	19.4	19.9	18.8	20.1
Li [mg/L]	0.0018	0.0029	0.0021	0.0036	0.0028	0.0022	0.0019
Mg [mg/L]	5.92	6.56	6.33	8.55	9.10	4.20	4.84
Mn [mg/L]	0.00180	0.00224	0.00192	0.00361	0.00418	0.00131	0.00167
Mo [mg/L]	0.00519	0.00508	0.00520	0.00647	0.01006	0.00506	0.00468

Online LIMS

0003239138

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000450-T	ARDG-000451-T	ARDG-000452-T	ARDG-000453-T	ARDG-000454-T	ARDG-000455-T	ARDG-000456-T
	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s
Na [mg/L]	21.0	22.7	22.2	19.1	23.9	22.4	22.2
Ni [mg/L]	0.0002	0.0002	0.0002	0.0003	0.0003	0.0002	0.0002
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	0.00023	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0046	0.0040	0.0041	0.0060	0.0036	0.0059	0.0066
Se [mg/L]	0.00114	0.00148	0.00078	0.00223	0.00196	0.00108	0.00103
Si [mg/L]	1.92	2.07	1.92	2.19	2.26	1.98	1.98
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0823	0.0954	0.0861	0.0988	0.106	0.0449	0.0587
Ti [mg/L]	0.00006	0.00010	0.00011	0.00009	0.00007	0.00005	0.00006
Tl [mg/L]	0.000014	0.000013	0.000009	0.000012	0.000010	0.000006	0.000010
U [mg/L]	0.000387	0.000338	0.000457	0.00106	0.00170	0.000410	0.000418
W [mg/L]	0.00337	0.00408	0.00440	0.00663	0.00806	0.00484	0.00329
V [mg/L]	0.00157	0.00173	0.00151	0.00149	0.00167	0.00274	0.00192
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	15:	16:	17:	18:	19:BLK:
	ARDG-000457-T	ARDG-000458-T	ARDG-000459-T	ARDG-000451-T	\$D.I. Leachate
	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	IR01B-10035MS 02-Kwa-s	Blank
Sample Date & Time	30-Sep-22	30-Sep-22	30-Sep-22		
Sample weight [g]	252	249	249	249	---
Volume D.I. Water [mL]	750	750	750	750	750
Final pH [no unit]	9.12	9.09	8.89	9.02	5.66
pH [No unit]	7.96	7.99	7.77	7.79	6.13
Conductivity [uS/cm]	213	236	438	314	< 2
Alkalinity [mg/L as CaCO3]	43	46	35	34	< 2
SO4 [mg/L]	44	47	160	79	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.603	0.561	0.348	0.506	0.001
As [mg/L]	0.170	0.153	0.0923	0.0495	< 0.0002
Ba [mg/L]	0.00167	0.00202	0.00530	0.00557	< 0.00008
B [mg/L]	0.013	0.014	0.024	0.013	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	9.81	10.7	24.3	20.0	0.02
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000046	0.000043	0.000120	0.000048	0.000005
Cr [mg/L]	0.00008	0.00009	0.00019	0.00009	< 0.00008
Cu [mg/L]	0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	16.5	18.3	20.5	20.2	0.072
Li [mg/L]	0.0014	0.0016	0.0027	0.0029	< 0.0001
Mg [mg/L]	3.49	3.93	9.47	6.96	0.004

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Project : PO#1124452

LR Report : CA19255-DEC22

Analysis	15: ARDG-000457-T IR01B-10035MS 02-Kwa-s	16: ARDG-000458-T IR01B-10035MS 02-Kwa-s	17: ARDG-000459-T IR01B-10035MS 02-Kwa-s	18: ARDG-000451-T IR01B-10035MS 02-Kwa-s	19:BLK: \$D.I. Leachate Blank
Mn [mg/L]	0.00102	0.00138	0.00517	0.00224	0.00015
Mo [mg/L]	0.00500	0.00759	0.00583	0.00559	0.00023
Na [mg/L]	16.6	18.5	33.2	23.0	0.02
Ni [mg/L]	0.0003	0.0002	0.0004	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0065	0.0065	0.0040	0.0038	< 0.0009
Se [mg/L]	0.00087	0.00040	0.00126	0.00160	0.00010
Si [mg/L]	1.95	2.10	2.08	2.07	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00012
Sr [mg/L]	0.0424	0.0476	0.110	0.105	0.00008
Ti [mg/L]	0.00010	0.00036	0.00013	0.00016	0.00010
Tl [mg/L]	0.000006	0.000005	0.000009	0.000012	< 0.000005
U [mg/L]	0.000229	0.000309	0.000358	0.000302	< 0.000002
W [mg/L]	0.00390	0.00481	0.00339	0.00380	0.00003
V [mg/L]	0.00269	0.00240	0.00110	0.00199	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

16-December-2022

Date Rec. : 22 November 2022
LR Report: CA19261-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis ARDG-000495 Completed Time	Analysis ARDG-000496 -TIR01B-1003 OMS02-kwa-s	Analysis ARDG-000497 -TIR01B-1003 OMS02-kwa-s	Analysis ARDG-000497 -TIR01B-1003 OMS02-kwa-s
Sample Date & Time					25-Oct-22	25-Oct-22	25-Oct-22
Paste pH [no unit]	30-Nov-22	16:15	02-Dec-22	11:02	9.08	9.13	8.75
Fizz Rate [rating]	30-Nov-22	16:15	02-Dec-22	11:02	3	3	3
Sample weight [g]	30-Nov-22	16:15	02-Dec-22	11:02	2.12	2.04	1.83
HCl_add [mL]	30-Nov-22	16:15	02-Dec-22	11:02	30.00	30.00	55.00
HCl [Normality]	30-Nov-22	16:15	02-Dec-22	11:02	0.10	0.10	0.10
NaOH [Normality]	30-Nov-22	16:15	02-Dec-22	11:02	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30-Nov-22	16:15	02-Dec-22	11:02	10.67	12.24	24.70
Final pH [no unit]	30-Nov-22	16:15	02-Dec-22	11:02	1.93	1.80	1.63
NP [t CaCO3/1000 t]	30-Nov-22	16:15	02-Dec-22	11:02	45.6	43.5	82.8
AP [t CaCO3/1000 t]	02-Dec-22	11:02	02-Dec-22	11:03	8.12	5.94	11.6
Net NP [t CaCO3/1000 t]	02-Dec-22	11:02	02-Dec-22	11:03	37.5	37.6	71.2
NP/AP [ratio]	02-Dec-22	11:02	02-Dec-22	11:03	5.61	7.33	7.16
S [%]	28-Nov-22	16:42	01-Dec-22	11:50	0.279	0.271	0.495
Acid Leachable SO4-S [%]	01-Dec-22	11:50	01-Dec-22	11:50	< 0.04	0.08	0.12
Sulphide [%]	30-Nov-22	19:30	01-Dec-22	11:50	0.26	0.19	0.37
C [%]	28-Nov-22	16:42	01-Dec-22	11:50	0.677	0.631	1.35
CO3 (HCl) [%]	01-Dec-22	15:15	01-Dec-22	17:02	2.99	2.82	6.37

Analysis	8:	9:	10:	11:
	ARDG-000498 -TIR01B-1003 OMS02-kwa-s	ARDG-000499 -TIR01B-1003 OMS02-kwa-s	ARDG-000500 -TIR01B-1003 OMS02-kwa-s	ARDG-000501 -TIR01B-1003 OMS02-kwa-s
Sample Date & Time	25-Oct-22	25-Oct-22	25-Oct-22	26-Oct-22
Paste pH [no unit]	9.19	9.07	9.15	8.96
Fizz Rate [rating]	3	3	3	3
Sample weight [g]	1.90	1.87	2.08	1.95

Analysis	8:	9:	10:	11:
	ARDG-000498	ARDG-000499	ARDG-000500	ARDG-000501
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	OMS02-kwa-s	OMS02-kwa-s	OMS02-kwa-s	OMS02-kwa-s
HCl_add [mL]	30.00	30.00	57.00	30.00
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]	15.46	17.12	23.13	14.89
Final pH [no unit]	1.67	1.52	1.70	1.76
NP [t CaCO3/1000 t]	38.3	34.4	81.4	38.8
AP [t CaCO3/1000 t]	4.38	5.31	5.94	3.75
Net NP [t CaCO3/1000 t]	33.9	29.1	75.5	35.0
NP/AP [ratio]	8.75	6.48	13.7	10.3
S [%]	0.200	0.239	0.243	0.163
Acid Leachable SO4-S [%]	0.06	0.07	0.05	0.04
Sulphide [%]	0.14	0.17	0.19	0.12
C [%]	0.680	0.527	1.23	0.692
CO3 (HCl) [%]	2.80	2.27	5.76	3.00

ABA - Modified Sobek

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

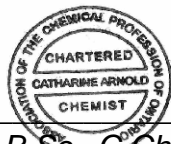
 Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

16-December-2022

Date Rec. : 22 November 2022
LR Report: CA19262-NOV22

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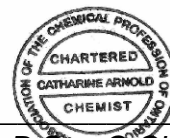
CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000495-T IR01B-10030MS 02-kwa-s	6: ARDG-000496-T IR01B-10030MS 02-kwa-s	7: ARDG-000497-T IR01B-10030MS 02-kwa-s	8: ARDG-000498-T IR01B-10030MS 02-kwa-s	9: ARDG-000499-T IR01B-10030MS 02-kwa-s
Sample Date & Time					25-Oct-22	25-Oct-22	25-Oct-22	25-Oct-22	25-Oct-22
Ag [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	68000	81000	63000	85000	56000
As [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	130	290	440	88	36
Ba [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	750	820	750	670	650
Be [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	1	2	2	1	1
Bi [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	0.20	0.24	0.29	0.23	0.20
Ca [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	16000	16000	24000	12000	11000
Cd [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	0.05	0.04	0.14	0.11	0.08
Co [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	17	21	15	21	19
Cr [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	54	61	53	76	68
Cu [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	51	48	43	45	41
Fe [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	39000	45000	71000	43000	37000
K [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	16000	19000	15000	20000	15000
Li [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	45	50	40	46	42
Mg [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	12000	14000	11000	15000	12000
Mn [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	350	390	540	380	290
Mo [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	2.4	2.4	3.5	2.2	3.5
Ni [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	61	70	51	73	59
Pb [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	13	15	48	14	12
Sb [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	310	340	310	290	240
Ti [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	1400	1500	3100	1500	1200
Tl [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	0.50	0.57	0.51	0.57	0.47
U [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	1.49	1.64	1.74	1.95	1.22
V [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	71	82	66	85	63
Y [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	5.36	5.48	6.23	6.37	4.11
Zn [µg/g]	06-Dec-22	19:21	09-Dec-22	08:03	73	81	72	79	74

Analysis	10:	11:
	ARDG-000500-T IR01B-10030MS 02-kwa-s	ARDG-000501-T IR01B-10030MS 02-kwa-s
Sample Date & Time	25-Oct-22	26-Oct-22
Ag [µg/g]	< 0.5	< 0.5
Al [µg/g]	61000	80000
As [µg/g]	220	140
Ba [µg/g]	680	690
Be [µg/g]	2	1
Bi [µg/g]	0.21	0.87
Ca [µg/g]	22000	12000
Cd [µg/g]	0.13	0.04
Co [µg/g]	16	21
Cr [µg/g]	55	69
Cu [µg/g]	32	44
Fe [µg/g]	41000	42000
K [µg/g]	17000	21000
Li [µg/g]	29	42
Mg [µg/g]	11000	14000
Mn [µg/g]	450	370
Mo [µg/g]	2.2	3.5
Ni [µg/g]	45	69
Pb [µg/g]	12	20
Sb [µg/g]	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6
Sr [µg/g]	350	320
Ti [µg/g]	3900	3700
Tl [µg/g]	0.47	0.58
U [µg/g]	1.11	1.83
V [µg/g]	64	87
Y [µg/g]	5.89	5.34
Zn [µg/g]	49	79

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Project : PO#1124452

16-December-2022

Date Rec. : 22 November 2022
LR Report: CA19263-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000495 -TIR01B-1003 OMS02-kwa-s	ARDG-000496 -TIR01B-1003 OMS02-kwa-s	ARDG-000497 -TIR01B-1003 OMS02-kwa-s
Sample Date & Time					25-Oct-22	25-Oct-22	25-Oct-22
Sample weight [g]	07-Dec-22	10:27	08-Dec-22	14:42	250	250	250
Volume D.I. Water [mL]	07-Dec-22	10:27	08-Dec-22	14:42	750	750	750
Final pH [no unit]	08-Dec-22	11:27	08-Dec-22	14:42	8.93	9.20	8.32
pH [No unit]	09-Dec-22	15:28	12-Dec-22	11:10	8.00	7.99	7.94
Conductivity [uS/cm]	09-Dec-22	15:28	12-Dec-22	11:10	199	181	239
Alkalinity [mg/L as CaCO3]	09-Dec-22	15:28	12-Dec-22	11:10	43	41	63
SO4 [mg/L]	09-Dec-22	11:31	12-Dec-22	16:29	31	25	24
Hg [mg/L]	09-Dec-22	08:02	09-Dec-22	15:27	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.834	0.891	0.523
As [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.0387	0.0445	0.0162
Ba [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00279	0.00241	0.00436
B [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.009	0.008	0.009
Be [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	9.82	9.48	16.9
Cd [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.000003	< 0.000003	0.000003
Co [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.000029	0.000028	0.000024
Cr [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.0003	0.0002	0.0003
Fe [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.007	< 0.007	< 0.007
K [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	16.9	14.8	18.2
Li [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.0010	0.0008	0.0016
Mg [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	2.28	2.11	4.64
Mn [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00080	0.00075	0.00361
Mo [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00493	0.00433	0.00788
Na [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	14.8	13.6	13.4

Online LIMS

0003162090



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Project : PO#1124452

LR Report : CA19263-NOV22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000495 -TIR01B-1003 OMS02-kwa-s	ARDG-000496 -TIR01B-1003 OMS02-kwa-s	ARDG-000497 -TIR01B-1003 OMS02-kwa-s
Ni [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.0001	< 0.0001	0.0001
Pb [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.00009	< 0.00009	0.00019
Sb [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.0036	0.0038	0.0034
Se [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00048	0.00054	0.00039
Si [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	1.70	1.89	1.20
Sn [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.0511	0.0469	0.101
Ti [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00027	0.00026	0.00018
Tl [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.000007	0.000006	< 0.000005
U [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.000154	0.000145	0.000144
W [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00291	0.00207	0.00271
V [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	0.00220	0.00221	0.00022
Zn [mg/L]	10-Dec-22	10:52	13-Dec-22	09:43	< 0.002	< 0.002	< 0.002


Analysis	8:	9:	10:	11:	12:	13:BLK:
	ARDG-000498 -TIR01B-1003 OMS02-kwa-s	ARDG-000499 -TIR01B-1003 OMS02-kwa-s	ARDG-000500 -TIR01B-1003 OMS02-kwa-s	ARDG-000501 -TIR01B-1003 OMS02-kwa-s	ARDG-000501 -TIR01B-1003 OMS02-kwa-s	\$D.I. Leachate Blank
Sample Date & Time	25-Oct-22	25-Oct-22	25-Oct-22	26-Oct-22		
Sample weight [g]	250	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	9.25	8.81	9.30	8.89	8.92	5.68
pH [No unit]	8.18	8.00	8.40	8.19	8.08	5.62
Conductivity [uS/cm]	214	261	193	306	309	3
Alkalinity [mg/L as CaCO3]	60	45	59	53	52	< 2
SO4 [mg/L]	8	31	12	38	38	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001	0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.819	0.755	0.817	0.604	0.605	< 0.001
As [mg/L]	0.0833	0.0291	0.133	0.0623	0.0635	< 0.0002
Ba [mg/L]	0.00148	0.00365	0.00193	0.00273	0.00277	< 0.00008
B [mg/L]	0.010	0.009	0.007	0.012	0.012	0.004
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	6.89	10.9	8.40	10.6	10.6	0.02
Cd [mg/L]	< 0.000003	0.000004	< 0.000003	< 0.000003	0.000003	< 0.000003
Co [mg/L]	0.000031	0.000143	0.000049	0.000058	0.000066	0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	< 0.0002	< 0.0002	0.0002	0.0003	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	20.8	18.5	18.2	24.4	24.0	0.043

Online LIMS

0003162090

Analysis	8: ARDG-000498 -TIR01B-1003 OMS02-kwa-s	9: ARDG-000499 -TIR01B-1003 OMS02-kwa-s	10: ARDG-000500 -TIR01B-1003 OMS02-kwa-s	11: ARDG-000501 -TIR01B-1003 OMS02-kwa-s	12: ARDG-000501 -TIR01B-1003 OMS02-kwa-s	13:BLK: \$D.I. Leachate Blank
Li [mg/L]	0.0010	0.0012	0.0011	0.0014	0.0014	< 0.0001
Mg [mg/L]	2.31	3.06	2.67	4.51	4.45	0.004
Mn [mg/L]	0.00073	0.00101	0.00101	0.00164	0.00168	0.00021
Mo [mg/L]	0.00481	0.00644	0.00640	0.00521	0.00540	0.00006
Na [mg/L]	19.0	21.8	15.3	25.8	26.5	0.05
Ni [mg/L]	0.0001	< 0.0001	0.0002	0.0002	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0063	0.0059	0.0069	0.0061	0.0059	< 0.0009
Se [mg/L]	0.00035	0.00059	0.00058	0.00054	0.00058	< 0.00004
Si [mg/L]	1.80	1.68	1.93	1.78	1.74	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	0.00038
Sr [mg/L]	0.0325	0.0528	0.0444	0.0543	0.0548	< 0.00008
Ti [mg/L]	0.00037	0.00017	0.00023	0.00022	0.00031	< 0.00005
Tl [mg/L]	< 0.000005	0.000010	< 0.000005	0.000010	0.000012	< 0.000005
U [mg/L]	0.000179	0.000099	0.000451	0.000186	0.000183	0.000040
W [mg/L]	0.00274	0.00284	0.00652	0.00213	0.00208	0.00002
V [mg/L]	0.00267	0.00187	0.00259	0.00147	0.00153	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

16-December-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 22 November 2022

LR Report: CA19264-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000502 -TIR01B-1003 OMS04-kwa-s	ARDG-000503 -TIR01B-1003 OMS04-kwa-s	ARDG-000504 -TIR01B-1003 OMS04-kwa-s
Sample Date & Time					27-Oct-22	27-Oct-22	27-Oct-22
Paste pH [no unit]	14-Dec-22	16:00	16-Dec-22	15:45	8.69	8.93	8.75
Fizz Rate [rating]	14-Dec-22	16:00	16-Dec-22	15:45	3	3	2
Sample weight [g]	14-Dec-22	16:00	16-Dec-22	15:45	1.97	1.95	2.04
HCl_add [mL]	15-Dec-22	14:00	16-Dec-22	15:45	44.30	60.20	39.70
HCl [Normality]	14-Dec-22	16:00	16-Dec-22	15:45	0.10	0.10	0.10
NaOH [Normality]	14-Dec-22	16:00	16-Dec-22	15:45	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Dec-22	14:41	16-Dec-22	15:45	20.15	35.59	17.16
Final pH [no unit]	15-Dec-22	16:01	16-Dec-22	15:45	1.81	1.65	1.89
NP [t CaCO3/1000 t]	16-Dec-22	14:41	16-Dec-22	15:45	61.3	63.1	55.2
AP [t CaCO3/1000 t]	16-Dec-22	15:46	16-Dec-22	15:46	11.6	5.31	7.81
Net NP [t CaCO3/1000 t]	16-Dec-22	15:46	16-Dec-22	15:46	49.7	57.8	47.4
NP/AP [ratio]	16-Dec-22	15:46	16-Dec-22	15:46	5.30	11.9	7.07
S [%]	08-Dec-22	11:21	13-Dec-22	10:59	0.401	0.217	0.292
Acid Leachable SO4-S [%]	13-Dec-22	10:59	13-Dec-22	10:59	< 0.04	0.05	0.04
Sulphide [%]	13-Dec-22	10:59	13-Dec-22	10:59	0.37	0.17	0.25
C [%]	08-Dec-22	11:21	13-Dec-22	10:48	0.824	0.818	0.818
CO3 (HCl) [%]	12-Dec-22	10:07	13-Dec-22	10:48	3.62	3.77	3.58

Analysis	8:	9:
	ARDG-000505 -TIR01B-1003 OMS04-kwa-s	ARDG-000506 -TIR01B-1003 OMS04-kwa-s
Sample Date & Time	27-Oct-22	27-Oct-22
Paste pH [no unit]	8.82	8.72
Fizz Rate [rating]	3	3
Sample weight [g]	1.96	1.94

Analysis	8:	9:
	ARDG-000505	ARDG-000506
	-TIR01B-1003	-TIR01B-1003
	OMS04-kwa-s	OMS04-kwa-s
HCl_add [mL]	62.40	40.80
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30.24	23.02
Final pH [no unit]	1.69	1.68
NP [t CaCO3/1000 t]	82.0	45.8
AP [t CaCO3/1000 t]	10.6	3.75
Net NP [t CaCO3/1000 t]	71.4	42.0
NP/AP [ratio]	7.72	12.2
S [%]	0.406	0.168
Acid Leachable SO4-S [%]	0.07	0.05
Sulphide [%]	0.34	0.12
C [%]	1.16	0.572
CO3 (HCl) [%]	5.18	2.55

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

16-December-2022

Date Rec. : 22 November 2022

LR Report: CA19265-NOV22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report


Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start	Analysis Start	Analysis	Analysis	Analysis ARDG-000502-T	Analysis ARDG-000503-T	Analysis ARDG-000504-T	Analysis ARDG-000505-T	Analysis ARDG-000506-T
	Date	Time Completed	DateCompleted	Time	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS
					04-kwa-s	04-kwa-s	04-kwa-s	04-kwa-s	04-kwa-s
Sample Date & Time					27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22
Ag [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	72000	69000	71000	75000	76000
As [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	48	160	27	30	60
Ba [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	610	720	1600	880	830
Be [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	1	1	2	1	1
Bi [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.18	0.24	0.32	0.20	0.14
Ca [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	17000	14000	14000	22000	12000
Cd [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.12	0.12	0.07	0.14	0.11
Co [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	20	18	17	15	16
Cr [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	62	60	49	47	62
Cu [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	41	47	45	34	44
Fe [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	43000	35000	38000	34000	37000
K [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	18000	16000	18000	20000	17000
Li [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	36	30	32	26	37
Mg [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	12000	11000	13000	11000	13000
Mn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	340	320	310	350	300
Mo [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	4.5	4.8	4.5	3.8	3.6
Ni [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	65	57	56	43	56
Pb [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	9	19	50	14	11
Sb [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

OnLine LIMS

0003162074

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time Completed	5: ARDG-000502-T IR01B-10030MS 04-kwa-s	6: ARDG-000503-T IR01B-10030MS 04-kwa-s	7: ARDG-000504-T IR01B-10030MS 04-kwa-s	8: ARDG-000505-T IR01B-10030MS 04-kwa-s	9: ARDG-000506-T IR01B-10030MS 04-kwa-s
Se [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	280	330	430	450	340
Ti [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	3900	2900	2100	2400	1100
Tl [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.48	0.43	0.45	0.60	0.43
U [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	1.71	1.78	1.70	1.95	1.66
V [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	78	64	68	68	68
Y [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	7.89	6.91	8.35	8.00	6.93
Zn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	70	74	77	69	74

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16-December-2022

Date Rec. : 22 November 2022
LR Report: CA19266-NOV22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

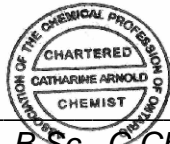
Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000502-T IR01B-10030MS 04-kwa-s	ARDG-000503-T IR01B-10030MS 04-kwa-s	ARDG-000504-T IR01B-10030MS 04-kwa-s	ARDG-000505-T IR01B-10030MS 04-kwa-s	ARDG-000506-T IR01B-10030MS 04-kwa-s	ARDG-000507-T IR01B-10030MS 04-kwa-s
Sample Date & Time					27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22	27-Oct-22	
Sample weight [g]	08-Dec-22	11:42	09-Dec-22	15:19	250	250	250	250	250	250
Volume D.I. Water [mL]	08-Dec-22	11:42	09-Dec-22	15:19	750	750	750	750	750	750
Final pH [no unit]	09-Dec-22	10:39	09-Dec-22	15:19	8.68	8.96	8.83	8.85	8.84	8.85
pH [No unit]	12-Dec-22	14:38	13-Dec-22	11:40	7.82	8.01	7.80	7.86	7.88	7.77
Conductivity [uS/cm]	12-Dec-22	14:38	13-Dec-22	11:40	493	341	437	476	749	715
Alkalinity [mg/L as CaCO3]	12-Dec-22	14:38	13-Dec-22	11:40	53	59	53	56	50	59
SO4 [mg/L]	15-Dec-22	09:57	15-Dec-22	16:08	77	41	62	96	48	48
Hg [mg/L]	13-Dec-22	17:15	14-Dec-22	06:26	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.00005	< 0.00005	0.00007	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.402	0.593	0.435	0.402	0.418	0.426
As [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.0227	0.172	0.0181	0.0162	0.0959	0.0957
Ba [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00809	0.00458	0.0189	0.0118	0.00986	0.00878
B [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.011	0.014	0.052	0.015	0.019	0.019
Be [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.00001	< 0.00001	0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	22.8	13.3	18.7	25.4	18.4	18.0
Cd [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.000006	0.000005	0.000090	0.000003	0.000004	0.000003
Co [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.000066	0.000064	0.000010	0.000074	0.000132	0.000124
Cr [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.00008	< 0.00008	0.000070	< 0.00008	< 0.00008	< 0.00008

OnLine LIMS

0003162062

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000502-T IR01B-10030MS 04-kwa-s	6: ARDG-000503-T IR01B-10030MS 04-kwa-s	7: ARDG-000504-T IR01B-10030MS 04-kwa-s	8: ARDG-000505-T IR01B-10030MS 04-kwa-s	9: ARDG-000506-T IR01B-10030MS 04-kwa-s	10: ARDG-000506-T IR01B-10030MS 04-kwa-s
Cu [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.0002	< 0.0002	0.0003	0.0002	< 0.0002	< 0.0002
Fe [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.007	< 0.007	0.010	< 0.007	< 0.007	< 0.007
K [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	26.5	21.4	20.4	25.9	25.4	24.7
Li [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.0021	0.0029	0.0013	0.0043	0.0018	0.0017
Mg [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	9.85	5.53	7.20	10.8	9.84	9.26
Mn [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00706	0.00343	0.00416	0.00796	0.00398	0.00380
Mo [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00791	0.0105	0.00644	0.0058	0.00932	0.00902
Na [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	40.8	30.6	35.2	32.0	89.2	82.8
Ni [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.0002	0.0004	0.0009	0.0002	0.0004	0.0005
Pb [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.00009	< 0.00009	0.00037	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.0071	0.0063	0.0050	0.0056	0.0052	0.0051
Se [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00091	0.00142	0.00237	0.00080	0.00057	0.00053
Si [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	1.86	1.90	1.68	1.73	1.85	1.87
Sn [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.00006	< 0.00006	0.00058	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.163	0.0745	0.148	0.205	0.136	0.131
Ti [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00021	0.00018	0.00162	0.00020	0.00018	0.00026
Tl [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.000019	0.000011	0.000020	0.000015	0.000015	0.000014
U [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.000449	0.000436	0.000470	0.00189	0.000212	0.000205
W [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00326	0.00387	0.00191	0.00342	0.00218	0.00218
V [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	0.00073	0.00172	0.00086	0.00063	0.00097	0.00105
Zn [mg/L]	10-Dec-22	19:04	15-Dec-22	14:56	< 0.002	< 0.002	0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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Project : PO#1124452

22-November-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 26 October 2022
LR Report: CA19268-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed	ARDG-000411 -TIR01B-1004 Time0-MS15-Kwa-s0	ARDG-000412 -TIR01B-1004 -MS15-Kwa-s0	ARDG-000413 -TIR01B-1004 -MS15-Kwa-s0
Sample Date & Time					05-Sep-22	05-Sep-22	05-Sep-22
Paste pH [no unit]	07-Nov-22	16:00	09-Nov-22	22:11	8.73	8.81	8.70
Fizz Rate [rating]	07-Nov-22	16:00	09-Nov-22	22:11	2	2	3
Sample weight [g]	07-Nov-22	16:00	09-Nov-22	22:11	2.11	1.84	2.03
HCl_add [mL]	08-Nov-22	16:00	09-Nov-22	22:11	40.00	30.00	60.00
HCl [Normality]	07-Nov-22	16:00	09-Nov-22	22:11	0.10	0.10	0.10
NaOH [Normality]	07-Nov-22	16:00	09-Nov-22	22:11	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	08-Nov-22	16:00	09-Nov-22	22:11	19.44	13.90	25.99
Final pH [no unit]	08-Nov-22	16:00	09-Nov-22	22:11	1.56	1.67	1.60
NP [t CaCO3/1000 t]	08-Nov-22	16:00	09-Nov-22	22:11	48.7	43.7	83.8
AP [t CaCO3/1000 t]	09-Nov-22	22:11	09-Nov-22	22:13	5.00	5.00	21.6
Net NP [t CaCO3/1000 t]	09-Nov-22	22:12	09-Nov-22	22:13	43.7	38.7	62.2
NP/AP [ratio]	09-Nov-22	22:12	09-Nov-22	22:13	9.74	8.74	3.89
S [%]	01-Nov-22	13:33	08-Nov-22	09:54	0.247	0.230	0.796
Acid Leachable SO4-S [%]	08-Nov-22	09:54	08-Nov-22	09:54	0.09	0.07	0.11
Sulphide [%]	07-Nov-22	14:44	08-Nov-22	09:54	0.16	0.16	0.69
C [%]	01-Nov-22	13:33	08-Nov-22	09:54	0.752	0.662	1.24
CO3 (HCl) [%]	09-Nov-22	07:05	09-Nov-22	22:11	3.27	2.85	5.81

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000414 -TIR01B-1004 0-MS15-Kwa-s0	ARDG-000415 -TIR01B-1004 -MS15-Kwa-s0	ARDG-000416 -TIR01B-1004 -MS15-Kwa-s0	ARDG-000417 -TIR01B-1004 -MS15-Kwa-s0	ARDG-000418 -TIR01B-1004 -MS15-Kwa-s0	ARDG-000419 -TIR01B-1004 -MS15-Kwa-s0	ARDG-000420 -TIR01B-1004 -MS15-Kwa-s0
Sample Date & Time	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22
Paste pH [no unit]	8.66	8.65	9.01	8.82	8.62	8.69	8.84
Fizz Rate [rating]	2	2	2	2	2	3	3
Sample weight [g]	1.89	2.05	2.11	1.96	2.00	1.90	1.92

Online LIMS

0003130368

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000414	ARDG-000415	ARDG-000416	ARDG-000417	ARDG-000418	ARDG-000419	ARDG-000420
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	0-MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0
HCl_add [mL]	30.00	40.00	40.00	30.00	30.00	40.00	35.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11.23	19.07	19.56	13.64	13.26	21.15	13.35
Final pH [no unit]	1.89	1.57	1.58	1.71	1.73	1.50	1.80
NP [t CaCO3/1000 t]	49.7	51.1	48.4	41.7	41.8	49.6	56.4
AP [t CaCO3/1000 t]	4.69	5.94	4.38	3.75	3.44	5.62	5.31
Net NP [t CaCO3/1000 t]	45.0	45.2	44.0	38.0	38.4	44.0	51.1
NP/AP [ratio]	10.6	8.61	11.1	11.1	12.2	8.82	10.6
S [%]	0.233	0.259	0.231	0.172	0.170	0.267	0.203
Acid Leachable SO4-S [%]	0.08	0.07	0.09	0.05	0.06	0.09	< 0.04
Sulphide [%]	0.15	0.19	0.14	0.12	0.11	0.18	0.17
C [%]	0.802	0.785	0.730	0.698	0.669	0.742	0.858
CO3 (HCl) [%]	3.55	3.59	3.18	2.87	2.81	3.36	3.87

Analysis	15:	16:	17:	18:	19:	20:	21:
	ARDG-000421	ARDG-000422	ARDG-000423	ARDG-000424	ARDG-000425	ARDG-000426	ARDG-000427
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	0-MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0	MS15-Kwa-s0
Sample Date & Time	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22
Paste pH [no unit]	8.76	8.55	8.79	9.04	8.88	8.86	8.99
Fizz Rate [rating]	3	2	3	3	3	2	2
Sample weight [g]	1.96	1.99	1.90	1.86	2.11	2.06	2.01
HCl_add [mL]	45.00	40.00	30.00	30.00	47.00	30.00	30.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	21.72	15.21	13.24	13.36	19.36	13.96	15.96
Final pH [no unit]	1.50	1.80	1.73	1.72	1.66	1.66	1.51
NP [t CaCO3/1000 t]	59.4	62.3	44.1	44.7	65.5	38.9	34.9
AP [t CaCO3/1000 t]	4.06	10.9	5.94	3.44	6.56	7.50	3.75
Net NP [t CaCO3/1000 t]	55.3	51.4	38.2	41.3	58.9	31.4	31.2
NP/AP [ratio]	14.6	5.70	7.43	13.0	9.98	5.19	9.31
S [%]	0.175	0.442	0.229	0.160	0.241	0.316	0.159
Acid Leachable SO4-S [%]	0.04	0.09	< 0.04	0.05	< 0.04	0.08	< 0.04
Sulphide [%]	0.13	0.35	0.19	0.11	0.21	0.24	0.12
C [%]	0.891	0.935	0.657	0.700	0.937	0.642	0.520
CO3 (HCl) [%]	4.02	4.34	2.87	3.20	4.32	2.69	2.26

Analysis	22:	23:
	ARDG-000428	ARDG-000429
	-TIR01B-1004	-TIR01B-1004
	0-MS15-Kwa-s0-MS15-Kwa-s	
Sample Date & Time	05-Sep-22	05-Sep-22
Paste pH [no unit]	8.88	8.89
Fizz Rate [rating]	3	3
Sample weight [g]	1.91	1.80
HCl_add [mL]	47.00	62.00
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17.92	29.18
Final pH [no unit]	1.82	1.51
NP [t CaCO3/1000 t]	76.1	91.2
AP [t CaCO3/1000 t]	6.56	9.06
Net NP [t CaCO3/1000 t]	69.5	82.1
NP/AP [ratio]	11.6	10.1
S [%]	0.313	0.416
Acid Leachable SO4-S [%]	0.10	0.13
Sulphide [%]	0.21	0.29
C [%]	1.16	1.33
CO3 (HCl) [%]	5.43	6.17

ABA - Modified Sobek

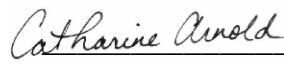

*NP (Neutralization Potential)
= $50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})$

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 <0.04 will be calculated using a 0.04 value.



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Project : PO#1124452

29-November-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 26 October 2022

LR Report: CA19269-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis Time Completed	ARDG-000411-T IR01B-10040-M S15-Kwa-s	ARDG-000412-T IR01B-10040-M S15-Kwa-s	ARDG-000413-T IR01B-10040-M S15-Kwa-s	ARDG-000414-T IR01B-10040-M S15-Kwa-s	ARDG-000415-T IR01B-10040-M S15-Kwa-s
Sample Date & Time					05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22
Ag [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	< 0.5	< 0.5	0.5	< 0.5	< 0.5
Al [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	90000	100000	79000	84000	87000
As [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	180	120	97	110	160
Ba [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	920	800	5600	710	2800
Be [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	1	1	4	1	2
Bi [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	0.27	0.35	1	0.18	0.76
Ca [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	14000	12000	23000	14000	14000
Cd [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	0.09	0.11	0.21	0.12	0.13
Co [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	21	25	21	20	19
Cr [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	170	180	200	170	170
Cu [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	58	65	63	52	56
Fe [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	39000	48000	38000	34000	38000
K [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	18000	22000	21000	17000	20000
Li [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	36	47	34	25	34
Mg [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	13000	17000	10000	11000	13000
Mn [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	390	490	450	360	390
Mo [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	1.7	1.6	2.7	1.6	1.5
Ni [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	67	87	57	59	66
Pb [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	19	69	380	16	170
Sb [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	7.8	7.7	8.1	7.1	7.3
Sr [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	350	290	840	370	580
Ti [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	1700	1900	4100	2500	3800
Tl [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	0.43	0.59	0.85	0.40	0.64
U [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	0.60	0.70	1.85	0.37	0.78
V [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	96	130	84	85	99
Y [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	7.28	8.16	10.9	6.88	7.38
Zn [µg/g]	22-Nov-22	00:53	24-Nov-22	14:22	76	92	89	69	79

Analysis	10: ARDG-000416-T IR01B-10040-M S15-Kwa-s	11: ARDG-000417-T IR01B-10040-M S15-Kwa-s	12: ARDG-000418-T IR01B-10040-M S15-Kwa-s	13: ARDG-000419-T IR01B-10040-M S15-Kwa-s	14: ARDG-000420-T IR01B-10040-M S15-Kwa-s	15: ARDG-000421-T IR01B-10040-M S15-Kwa-s	16: ARDG-000422-T IR01B-10040-M S15-Kwa-s	17: ARDG-000423-T IR01B-10040-M S15-Kwa-s
Sample Date & Time	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	89000	85000	88000	92000	83000	82000	81000	97000
As [µg/g]	320	140	120	120	170	230	330	350
Ba [µg/g]	800	800	770	780	730	720	770	1200
Be [µg/g]	1	1	1	1	1	1	1	2
Bi [µg/g]	0.42	0.29	0.24	0.36	< 0.09	0.09	0.21	0.31
Ca [µg/g]	13000	11000	11000	13000	16000	16000	18000	12000
Cd [µg/g]	0.12	0.16	0.15	0.09	0.12	0.14	0.12	0.12
Co [µg/g]	21	20	21	23	19	19	21	25
Cr [µg/g]	180	180	180	190	190	180	210	200
Cu [µg/g]	59	54	51	63	48	50	63	58
Fe [µg/g]	42000	40000	43000	42000	33000	32000	37000	47000
K [µg/g]	19000	19000	19000	21000	17000	17000	15000	25000
Li [µg/g]	35	32	33	33	22	22	21	40
Mg [µg/g]	14000	13000	14000	14000	10000	10000	10000	16000
Mn [µg/g]	390	350	370	410	350	380	390	460
Mo [µg/g]	2.4	1.9	1.8	1.5	1.4	1.4	1.5	2.2
Ni [µg/g]	75	69	72	74	56	54	58	85
Pb [µg/g]	83	33	32	22	17	17	24	63
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	7.3	< 6	7.0	6.9	6.7	6.6	7.0	8.4
Sr [µg/g]	340	310	310	340	390	380	440	350
Ti [µg/g]	3300	3300	3400	1800	2700	2800	3300	4600
Tl [µg/g]	0.48	0.54	0.45	0.54	0.43	0.38	0.41	0.74
U [µg/g]	0.53	1.31	0.43	0.53	0.25	0.20	1.17	1.00
V [µg/g]	110	100	100	110	82	81	85	130
Y [µg/g]	6.96	5.55	5.94	7.66	7.72	7.29	7.88	7.33
Zn [µg/g]	83	82	82	83	64	63	77	95

Analysis	18: ARDG-000424-T IR01B-10040-M S15-Kwa-s	19: ARDG-000425-T IR01B-10040-M S15-Kwa-s	20: ARDG-000426-T IR01B-10040-M S15-Kwa-s	21: ARDG-000427-T IR01B-10040-M S15-Kwa-s	22: ARDG-000428-T IR01B-10040-M S15-Kwa-s	23: ARDG-000429-T IR01B-10040-M S15-Kwa-s
Sample Date & Time	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	0.8	< 0.5
Al [µg/g]	89000	94000	88000	100000	92000	93000
As [µg/g]	680	71	240	78	1000	2200
Ba [µg/g]	980	940	670	1000	800	850
Be [µg/g]	1	1	1	1	2	2
Bi [µg/g]	0.18	0.32	0.21	0.15	2	0.67
Ca [µg/g]	12000	18000	12000	10000	22000	24000
Cd [µg/g]	0.12	0.16	0.09	0.08	0.19	0.23
Co [µg/g]	21	20	22	24	19	22
Cr [µg/g]	200	150	200	180	170	170
Cu [µg/g]	55	47	64	51	59	68
Fe [µg/g]	41000	43000	40000	48000	42000	44000
K [µg/g]	22000	22000	19000	23000	21000	23000
Li [µg/g]	33	36	32	47	26	25
Mg [µg/g]	14000	15000	13000	17000	13000	14000

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Project : PO#1124452

LR Report : CA19269-OCT22

Analysis	18:	19:	20:	21:	22:	23:
	ARDG-000424-T	ARDG-000425-T	ARDG-000426-T	ARDG-000427-T	ARDG-000428-T	ARDG-000429-T
	IR01B-10040-M	IR01B-10040-M	IR01B-10040-M	IR01B-10040-M	IR01B-10040-M	IR01B-10040-M
	S15-Kwa-s	S15-Kwa-s	S15-Kwa-s	S15-Kwa-s	S15-Kwa-s	S15-Kwa-s
Mn [µg/g]	390	420	350	370	470	500
Mo [µg/g]	2.0	1.6	1.7	1.6	2.1	3.3
Ni [µg/g]	72	64	70	84	57	62
Pb [µg/g]	23	19	23	14	220	71
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	7.2	6.8	7.0	8.1	7.3	9.1
Sr [µg/g]	330	420	310	350	440	450
Ti [µg/g]	4100	2500	2400	1500	3800	3800
Tl [µg/g]	0.57	0.54	0.46	0.58	0.52	0.58
U [µg/g]	0.55	0.57	0.27	0.45	0.64	0.68
V [µg/g]	110	110	100	130	110	110
Y [µg/g]	6.27	8.68	8.06	8.49	8.19	8.25
Zn [µg/g]	79	82	79	94	74	70

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Project : PO#1124452

18-November-2022

Date Rec. : 26 October 2022
LR Report: CA19270-OCT22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date Completed	4: Analysis Time Completed	5: ARDG-000411-T IR01B-10040-M S15-Kwa-s	6: ARDG-000412-T IR01B-10040-M S15-Kwa-s	7: ARDG-000413-T IR01B-10040-M S15-Kwa-s
Sample Date & Time					05-Sep-22	05-Sep-22	05-Sep-22
Sample weight [g]	03-Nov-22	12:49	04-Nov-22	15:59	250	250	250
Volume D.I. Water [mL]	03-Nov-22	12:49	04-Nov-22	15:59	750	750	750
Final pH [no unit]	04-Nov-22	11:45	04-Nov-22	15:59	8.92	9.08	8.74
pH [No unit]	07-Nov-22	06:32	07-Nov-22	16:10	7.88	7.80	7.75
Conductivity [uS/cm]	07-Nov-22	06:32	07-Nov-22	16:10	285	264	515
Alkalinity [mg/L as CaCO3]	07-Nov-22	06:32	07-Nov-22	16:10	49	55	52
SO4 [mg/L]	08-Nov-22	18:13	08-Nov-22	21:46	53	34	140
Hg [mg/L]	09-Nov-22	11:41	11-Nov-22	10:31	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.590	0.541	0.357
As [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.148	0.127	0.0216
Ba [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.00455	0.00271	0.0851
B [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.011	< 0.002	0.010
Be [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.00005	0.00001	0.00002
Ca [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	12.2	8.38	31.4
Cd [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.000050	0.000020	0.000020
Co [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.000090	0.000010	0.000120
Cr [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.0005	0.0011	0.0005
Fe [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.030	< 0.007	< 0.007
K [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	20.0	20.2	26.4
Li [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.0013	< 0.0001	0.0064
Mg [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	4.68	3.32	13.5
Mn [mg/L]	08-Nov-22	09:12	11-Nov-22	10:31	0.00234	0.00016	0.0194
Mo [mg/L]	08-Nov-22	09:12	11-Nov-22	10:32	0.00742	0.00555	0.0118
Na [mg/L]	08-Nov-22	09:12	11-Nov-22	10:32	23.8	23.4	29.4

Online LIMS

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Project : PO#1124452

LR Report : CA19270-OCT22

Table with 8 columns: Analysis, 1: Analysis Start Date, 2: Analysis Start Time, 3: Analysis Completed Date, 4: Analysis Completed Time, 5: ARDG-000411-T IR01B-10040-M S15-Kwa-s, 6: ARDG-000412-T IR01B-10040-M S15-Kwa-s, 7: ARDG-000413-T IR01B-10040-M S15-Kwa-s. Rows include elements like Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, Tl, U, W, V, Zn.

Table with 8 columns: Analysis, 8: ARDG-000414-T IR01B-10040-M S15-Kwa-s, 9: ARDG-000415-T IR01B-10040-M S15-Kwa-s, 10: ARDG-000416-T IR01B-10040-M S15-Kwa-s, 11: ARDG-000417-T IR01B-10040-M S15-Kwa-s, 12: ARDG-000418-T IR01B-10040-M S15-Kwa-s, 13: ARDG-000419-T IR01B-10040-M S15-Kwa-s, 14: ARDG-000420-T IR01B-10040-M S15-Kwa-s. Rows include parameters like Sample Date & Time, Sample weight, Volume D.I. Water, Final pH, pH, Conductivity, Alkalinity, SO4, and various metals (Hg, Ag, Al, As, Ba, B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn).

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Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000414-T	ARDG-000415-T	ARDG-000416-T	ARDG-000417-T	ARDG-000418-T	ARDG-000419-T	ARDG-000420-T
	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s
Mo [mg/L]	0.0159	0.00825	0.00974	0.00905	0.00870	0.0119	0.0138
Na [mg/L]	55.9	44.6	28.3	30.4	30.3	30.6	38.8
Ni [mg/L]	0.0009	0.0004	0.0015	0.0004	0.0002	0.0085	< 0.0001
Pb [mg/L]	0.00045	0.00155	0.00049	0.00023	0.00067	0.00028	0.00021
Sb [mg/L]	0.0036	0.0045	0.0050	0.0042	0.0042	0.0034	0.0044
Se [mg/L]	0.00180	0.00117	0.00084	0.00071	0.00082	0.00057	0.00061
Si [mg/L]	1.44	1.33	1.35	1.24	1.28	1.31	1.43
Sn [mg/L]	0.00020	0.00031	0.00027	0.00021	0.00033	0.00041	0.00027
Sr [mg/L]	0.102	0.200	0.0607	0.0608	0.0666	0.0825	0.0763
Ti [mg/L]	0.00040	0.00040	0.00073	0.00082	0.00052	0.00053	0.00046
Tl [mg/L]	0.000010	0.000040	0.000020	< 0.000005	0.000020	< 0.000005	< 0.000005
U [mg/L]	0.000830	0.000880	0.000250	0.000220	0.000270	0.000560	0.000610
W [mg/L]	0.00405	0.00249	0.00400	0.00289	0.00259	0.00304	0.00542
V [mg/L]	0.00184	0.00119	0.00208	0.00155	0.00153	0.00162	0.00212
Zn [mg/L]	0.007	< 0.002	0.015	0.011	0.007	0.008	0.040

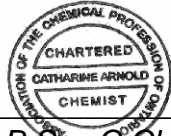
Analysis	15:	16:	17:	18:	19:	20:	21:
	ARDG-000421-T	ARDG-000422-T	ARDG-000423-T	ARDG-000424-T	ARDG-000425-T	ARDG-000426-T	ARDG-000427-T
	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s
Sample Date & Time	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22	05-Sep-22
Sample weight [g]	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	8.85	8.68	8.88	8.86	8.89	8.84	8.96
pH [No unit]	7.87	7.87	7.91	7.95	7.89	7.78	7.92
Conductivity [uS/cm]	551	433	330	250	301	254	225
Alkalinity [mg/L as CaCO3]	50	49	51	56	49	62	49
SO4 [mg/L]	53	85	50	25	52	71	45
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.443	0.420	0.430	0.570	0.564	0.479	0.555
As [mg/L]	0.165	0.0892	0.207	0.187	0.185	0.0826	0.237
Ba [mg/L]	0.00606	0.00839	0.00666	0.00317	0.00428	0.00388	0.00326
B [mg/L]	0.003	0.005	0.005	0.005	0.002	< 0.002	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	0.00001	0.00001	0.00001	< 0.00001	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	14.8	21.8	10.0	7.76	12.5	14.7	10.2
Cd [mg/L]	0.000040	0.000030	< 0.000003	0.000020	0.000020	0.000020	0.000020
Co [mg/L]	< 0.000004	0.000050	< 0.000004	< 0.000004	< 0.000004	0.000010	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0006	0.0007	0.0005	0.0007	0.0006	0.0004	0.0012
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.310
K [mg/L]	21.6	19.9	25.4	21.4	21.1	22.0	19.9
Li [mg/L]	0.0009	0.0015	0.0005	< 0.0001	0.0004	0.0004	0.0002

Analysis	15:	16:	17:	18:	19:	20:	21:
	ARDG-000421-T	ARDG-000422-T	ARDG-000423-T	ARDG-000424-T	ARDG-000425-T	ARDG-000426-T	ARDG-000427-T
	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s
Mg [mg/L]	7.96	9.38	4.93	3.05	4.65	6.36	3.87
Mn [mg/L]	0.00286	0.0104	0.00102	0.00005	0.00026	0.00134	0.00103
Mo [mg/L]	0.0132	0.0110	0.0108	0.00605	0.00719	0.0113	0.00428
Na [mg/L]	63.6	33.1	27.6	21.9	23.5	18.7	15.5
Ni [mg/L]	< 0.0001	0.0010	0.0004	< 0.0001	< 0.0001	0.0270	< 0.0001
Pb [mg/L]	0.00025	0.00035	0.00016	0.00015	0.00020	0.00014	0.00015
Sb [mg/L]	0.0040	0.0023	0.0054	0.0052	0.0039	0.0030	0.0043
Se [mg/L]	0.00046	0.00149	0.00055	0.00039	0.00056	0.00108	0.00064
Si [mg/L]	1.39	1.24	1.99	1.33	1.26	1.28	1.27
Sn [mg/L]	0.00018	0.00016	0.00012	0.00020	0.00014	0.00011	0.00012
Sr [mg/L]	0.104	0.147	0.0688	0.0457	0.0895	0.0778	0.0596
Ti [mg/L]	0.00036	0.00041	0.00051	0.00061	0.00050	0.00034	0.00057
Tl [mg/L]	< 0.000005	< 0.000005	0.000010	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000620	0.002260	0.000330	0.000220	0.000260	0.000360	0.000160
W [mg/L]	0.00500	0.00333	0.00279	0.00301	0.00342	0.00520	0.00187
V [mg/L]	0.00191	0.00101	0.00182	0.00255	0.00188	0.00136	0.00222
Zn [mg/L]	0.007	0.013	0.005	0.010	0.006	< 0.002	< 0.002

Analysis	22:	23:	24:	25:BLK:
	ARDG-000428-T	ARDG-000429-T	ARDG-000429-T	\$D.I. Leachate
	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	IR01B-10040-M S15-Kwa-s	Blank
Sample Date & Time	05-Sep-22	05-Sep-22		
Sample weight [g]	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	8.93	8.99	9.01	6.17
pH [No unit]	7.98	7.93	7.87	6.31
Conductivity [uS/cm]	287	336	312	6
Alkalinity [mg/L as CaCO3]	57	56	56	2
SO4 [mg/L]	59	77	71	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.505	0.452	0.474	0.003
As [mg/L]	0.238	0.229	0.222	0.0009
Ba [mg/L]	0.00403	0.00514	0.00573	0.00151
B [mg/L]	0.004	0.006	< 0.002	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	0.00002	0.00001	0.00001	0.00003
Ca [mg/L]	13.9	17.0	16.6	1.54
Cd [mg/L]	0.000040	0.000040	0.000020	0.000020
Co [mg/L]	0.000020	0.000080	< 0.000004	< 0.000004
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	0.0004	0.0007	0.0007	0.0013
Fe [mg/L]	< 0.007	0.110	< 0.007	< 0.007

Analysis	22: ARDG-000428-T IR01B-10040-M S15-Kwa-s	23: ARDG-000429-T IR01B-10040-M S15-Kwa-s	24: ARDG-000429-T IR01B-10040-M S15-Kwa-s	25:BLK: \$D.I. Leachate Blank
K [mg/L]	23.9	25.8	24.3	0.060
Li [mg/L]	0.0005	0.0016	0.0009	< 0.0001
Mg [mg/L]	5.87	7.14	7.24	0.240
Mn [mg/L]	0.00159	0.00331	0.00300	< 0.00001
Mo [mg/L]	0.0109	0.0127	0.0129	0.00280
Na [mg/L]	17.9	19.8	18.9	2.80
Ni [mg/L]	< 0.0001	0.0913	< 0.0001	< 0.0001
Pb [mg/L]	0.00135	0.00037	0.00042	0.00027
Sb [mg/L]	0.0047	0.0035	0.0036	< 0.0009
Se [mg/L]	0.00091	0.00107	0.00089	< 0.00004
Si [mg/L]	1.31	1.39	1.23	< 0.02
Sn [mg/L]	0.00019	0.00014	0.00015	0.00032
Sr [mg/L]	0.0879	0.112	0.109	0.0713
Ti [mg/L]	0.00059	0.00032	0.00048	0.00068
Tl [mg/L]	< 0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000560	0.000680	0.000690	< 0.000002
W [mg/L]	0.00646	0.00713	0.00691	0.00062
V [mg/L]	0.00171	0.00169	0.00152	0.00010
Zn [mg/L]	< 0.002	0.005	0.004	0.056

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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Project : PO#1124452

18-November-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 26 October 2022

LR Report: CA19271-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000430-T IR01B-10040MS 16-Kwa-s	ARDG-000431-T IR01B-10040MS 16-Kwa-s	ARDG-000432-T IR01B-10040MS 16-Kwa-s
Sample Date & Time					17-Sep-22	17-Sep-22	17-Sep-22
Paste pH [no unit]	03-Nov-22	09:45	07-Nov-22	11:01	8.98	9.11	9.12
Fizz Rate [rating]	03-Nov-22	09:45	07-Nov-22	11:01	2	2	2
Sample weight [g]	03-Nov-22	09:45	07-Nov-22	11:01	1.97	1.99	1.96
HCl_add [mL]	04-Nov-22	09:48	07-Nov-22	11:01	42.50	41.90	29.60
HCl [Normality]	03-Nov-22	09:45	07-Nov-22	11:01	0.10	0.10	0.10
NaOH [Normality]	03-Nov-22	09:45	07-Nov-22	11:01	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	04-Nov-22	09:48	07-Nov-22	11:01	19.82	20.00	11.67
Final pH [no unit]	04-Nov-22	09:48	07-Nov-22	11:01	1.58	1.55	1.84
NP [t CaCO3/1000 t]	04-Nov-22	09:48	07-Nov-22	11:01	57.6	55.0	45.7
AP [t CaCO3/1000 t]	08-Nov-22	09:55	08-Nov-22	09:55	4.06	2.50	3.12
Net NP [t CaCO3/1000 t]	08-Nov-22	09:55	08-Nov-22	09:55	53.5	52.5	42.6
NP/AP [ratio]	08-Nov-22	09:55	08-Nov-22	09:55	14.2	22.0	14.6
S [%]	01-Nov-22	13:33	08-Nov-22	09:55	0.227	0.214	0.192
Acid Leachable SO4-S [%]	08-Nov-22	09:54	08-Nov-22	09:55	0.10	0.13	0.09
Sulphide [%]	07-Nov-22	14:44	08-Nov-22	09:55	0.13	0.08	0.10
C [%]	01-Nov-22	13:33	08-Nov-22	09:55	0.855	0.849	0.723
CO3 (HCl) [%]	09-Nov-22	07:05	09-Nov-22	23:00	3.85	3.75	3.15

Analysis	8:	9:	10:	11:	12:	14:	15:
	ARDG-000433-T IR01B-10040MS 16-Kwa-s	ARDG-000434-T IR01B-10040MS 16-Kwa-s	ARDG-000435-T IR01B-10040MS 16-Kwa-s	ARDG-000436-T IR01B-10040MS 16-Kwa-s	ARDG-000437-T IR01B-10040MS 16-Kwa-s	ARDG-000439-T IR01B-10040MS 16-Kwa-s	ARDG-000440-T IR01B-10040MS 16-Kwa-s
Sample Date & Time	17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22
Paste pH [no unit]	8.86	8.90	8.90	8.85	9.05	9.24	9.20
Fizz Rate [rating]	2	2	2	2	2	2	2
Sample weight [g]	2.02	2.03	1.96	2.09	1.98	1.97	1.98
HCl_add [mL]	55.00	30.00	39.10	40.90	48.00	44.50	40.30

Online LIMS

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Project : PO#1124452

LR Report : CA19271-OCT22

Analysis	8: ARDG-000433-T IR01B-10040MS 16-Kwa-s	9: ARDG-000434-T IR01B-10040MS 16-Kwa-s	10: ARDG-000435-T IR01B-10040MS 16-Kwa-s	11: ARDG-000436-T IR01B-10040MS 16-Kwa-s	12: ARDG-000437-T IR01B-10040MS 16-Kwa-s	14: ARDG-000439-T IR01B-10040MS 16-Kwa-s	15: ARDG-000440-T IR01B-10040MS 16-Kwa-s
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26.20	11.23	18.57	16.67	28.90	13.99	16.34
Final pH [no unit]	1.54	1.89	1.56	1.72	1.49	1.93	1.73
NP [t CaCO3/1000 t]	71.3	46.2	52.4	58.0	48.2	77.4	60.5
AP [t CaCO3/1000 t]	5.31	3.75	5.94	9.38	4.06	2.50	3.44
Net NP [t CaCO3/1000 t]	66.0	42.4	46.5	48.6	44.1	74.9	57.1
NP/AP [ratio]	13.4	12.3	8.83	6.19	11.9	31.0	17.6
S [%]	0.234	0.184	0.269	0.402	0.181	0.119	0.170
Acid Leachable SO4-S [%]	0.06	0.06	0.08	0.10	0.05	< 0.04	0.06
Sulphide [%]	0.17	0.12	0.19	0.30	0.13	0.08	0.11
C [%]	1.10	0.697	0.801	0.887	0.685	1.15	0.898
CO3 (HCl) [%]	4.89	3.06	3.38	3.97	3.05	5.33	4.02

Analysis	16: ARDG-000441-T IR01B-10040MS 16-Kwa-s	17: ARDG-000442-T IR01B-10040MS 16-Kwa-s	18: ARDG-000443-T IR01B-10040MS 16-Kwa-s	19: ARDG-000444-T IR01B-10040MS 16-Kwa-s	20: ARDG-000445-T IR01B-10040MS 16-Kwa-s	21: ARDG-000446-T IR01B-10040MS 16-Kwa-s	22: 2301 10040MS16 2301
Sample Date & Time	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	N/A
Paste pH [no unit]	8.96	9.12	8.77	8.90	8.89	9.03	9.07
Fizz Rate [rating]	2	2	2	2	2	2	2
Sample weight [g]	2.08	2.05	2.06	1.99	1.94	2.03	2.03
HCl_add [mL]	30.00	36.80	30.50	36.80	27.10	27.20	34.10
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	11.83	18.87	11.53	19.72	11.80	11.20	13.61
Final pH [no unit]	1.78	1.51	1.78	1.50	1.79	1.84	1.75
NP [t CaCO3/1000 t]	43.7	43.7	46.0	42.9	39.4	39.4	50.5
AP [t CaCO3/1000 t]	5.94	5.94	3.75	5.62	4.38	5.00	5.31
Net NP [t CaCO3/1000 t]	37.8	37.8	42.2	37.3	35.0	34.4	45.2
NP/AP [ratio]	7.36	7.36	12.3	7.63	9.01	7.88	9.51
S [%]	0.223	0.240	0.171	0.235	0.217	0.195	0.245
Acid Leachable SO4-S [%]	< 0.04	0.05	0.05	0.06	0.08	< 0.04	0.08
Sulphide [%]	0.19	0.19	0.12	0.18	0.14	0.16	0.17
C [%]	0.656	0.650	0.642	0.656	0.635	0.621	0.776
CO3 (HCl) [%]	2.82	2.83	2.80	2.84	2.69	2.67	3.41

ABA - Modified Sobek

*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

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at <https://www.sgs.ca/en/terms-and-conditions> (Printed copies are available upon request.)

Test method information available upon request. *Temperature Upon Receipt* is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

SGS Canada Inc.

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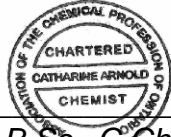
mel

Project : PO#1124452

LR Report : CA19271-OCT22

Sampl es wi th a % Sul phi de val ue of <0. 04 wi ll be cal cul ated usi ng a 0. 04 val ue.

Catharine Arnold
Catharine Arnold, B.Sc., C.Chem
Project Specialist,
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Project : PO#1124452

29-November-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 26 October 2022

LR Report: CA19272-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000430-T IR01B-10040MS 16-Kwa-s	ARDG-000431-T IR01B-10040MS 16-Kwa-s	ARDG-000432-T IR01B-10040MS 16-Kwa-s	ARDG-000433-T IR01B-10040MS 16-Kwa-s	ARDG-000434-T IR01B-10040MS 16-Kwa-s
Sample Date & Time					17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22
Ag [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	96000	86000	90000	85000	98000
As [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	440	350	340	42	240
Ba [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	830	720	780	680	840
Be [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	2	1	1	1	1
Bi [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	2	0.37	0.29	0.25	0.25
Ca [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	16000	15000	13000	19000	14000
Cd [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	0.17	0.06	0.11	0.12	0.13
Co [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	21	20	20	19	22
Cr [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	160	170	170	150	190
Cu [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	49	51	50	52	54
Fe [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	41000	35000	37000	38000	43000
K [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	21000	17000	18000	16000	21000
Li [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	38	28	34	31	40
Mg [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	13000	11000	12000	13000	15000
Mn [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	400	360	350	420	380
Mo [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	2.7	2.1	1.9	1.7	1.8
Ni [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	66	58	65	57	73
Pb [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	68	16	15	11	14
Sb [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	7.3	7.1	8.5	6.4	6.2
Sr [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	440	370	360	370	340
Ti [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	3900	2800	2300	2600	2400
Tl [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	0.55	0.45	0.49	0.43	0.52
U [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	0.96	1.25	0.66	0.31	0.93
V [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	110	87	97	95	110
Y [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	7.66	8.15	8.04	7.26	8.09
Zn [µg/g]	22-Nov-22	06:47	24-Nov-22	14:24	91	68	75	73	87

Analysis	10: ARDG-000435-T IR01B-10040MS 16-Kwa-s	11: ARDG-000436-T IR01B-10040MS 16-Kwa-s	12: ARDG-000437-T IR01B-10040MS 16-Kwa-s	14: ARDG-000439-T IR01B-10040MS 16-Kwa-s	15: ARDG-000440-T IR01B-10040MS 16-Kwa-s	16: ARDG-000441-T IR01B-10040MS 16-Kwa-s	17: ARDG-000442-T IR01B-10040MS 16-Kwa-s	18: ARDG-000443-T IR01B-10040MS 16-Kwa-s
Sample Date & Time	17-Sep-22	17-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	89000	88000	98000	94000	93000	95000	97000	86000
As [µg/g]	76	190	200	230	290	65	500	100
Ba [µg/g]	770	890	1000	700	730	980	800	950
Be [µg/g]	1	2	2	1	1	1	1	1
Bi [µg/g]	0.27	0.41	0.41	0.23	0.29	0.43	0.40	0.24
Ca [µg/g]	16000	16000	12000	21000	16000	15000	13000	14000
Cd [µg/g]	0.12	0.13	0.08	0.17	0.12	0.15	0.11	0.08
Co [µg/g]	20	23	22	22	22	23	22	19
Cr [µg/g]	180	200	180	150	160	190	180	160
Cu [µg/g]	46	48	51	48	57	56	56	48
Fe [µg/g]	37000	38000	46000	41000	41000	46000	42000	34000
K [µg/g]	16000	18000	23000	19000	20000	20000	21000	16000
Li [µg/g]	34	30	45	38	36	43	38	28
Mg [µg/g]	12000	11000	16000	17000	15000	14000	14000	10000
Mn [µg/g]	370	350	370	560	420	400	420	290
Mo [µg/g]	1.7	2.2	2.1	1.7	1.5	1.7	1.6	1.8
Ni [µg/g]	59	62	78	61	67	79	74	58
Pb [µg/g]	18	41	27	15	16	22	20	29
Sb [µg/g]	< 0.8	< 0.8	< 0.8	1.9	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	6.3	6.4	6.4	7.6	7.0	6.9	6.6	< 6
Sr [µg/g]	380	520	340	390	360	340	330	400
Ti [µg/g]	1600	3700	2100	1800	2000	1700	2300	3100
Tl [µg/g]	0.41	0.50	0.63	0.57	0.51	0.52	0.52	0.38
U [µg/g]	0.71	1.28	0.87	0.24	0.56	0.93	0.82	0.76
V [µg/g]	88	93	120	110	110	110	110	84
Y [µg/g]	8.17	7.75	8.48	8.19	8.18	8.60	8.04	7.39
Zn [µg/g]	75	84	92	83	82	87	82	66

Analysis	19: ARDG-000444-T IR01B-10040MS 16-Kwa-s	20: ARDG-000445-T IR01B-10040MS 16-Kwa-s	21: ARDG-000446-T IR01B-10040MS 16-Kwa-s	22: 2301 10040MS16 2301
Sample Date & Time	18-Sep-22	18-Sep-22	18-Sep-22	N/A
Ag [µg/g]	< 0.5	< 0.5	< 0.5	1.1
Al [µg/g]	95000	97000	94000	88000
As [µg/g]	72	70	50	270
Ba [µg/g]	710	920	920	710
Be [µg/g]	1	1	1	1
Bi [µg/g]	0.39	0.28	0.24	0.65
Ca [µg/g]	12000	13000	12000	15000
Cd [µg/g]	0.11	0.11	0.08	0.15
Co [µg/g]	23	23	22	20
Cr [µg/g]	180	190	190	180
Cu [µg/g]	55	48	45	63
Fe [µg/g]	42000	44000	44000	36000
K [µg/g]	21000	20000	19000	16000
Li [µg/g]	35	41	39	27
Mg [µg/g]	14000	14000	14000	11000


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LR Report : CA19272-OCT22

Analysis	19: ARDG-000444-T IR01B-10040MS 16-Kwa-s	20: ARDG-000445-T IR01B-10040MS 16-Kwa-s	21: ARDG-000446-T IR01B-10040MS 16-Kwa-s	22: 2301 10040MS16 2301
Mn [µg/g]	390	360	360	370
Mo [µg/g]	1.6	1.8	1.6	2.4
Ni [µg/g]	72	75	73	63
Pb [µg/g]	17	15	14	89
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	6.9	6.6	6.1	6.8
Sr [µg/g]	330	350	340	380
Ti [µg/g]	1800	1900	1600	1700
Tl [µg/g]	0.54	0.48	0.48	0.41
U [µg/g]	0.68	0.79	0.55	0.59
V [µg/g]	110	110	110	89
Y [µg/g]	7.60	8.55	8.23	8.56
Zn [µg/g]	81	92	93	72

Catharine Arnold

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Project : PO#1124452

18-November-2022

Date Rec. : 26 October 2022
LR Report: CA19273-OCT22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed	5: ARDG-000430 -TIR01B-1004 Time	6: ARDG-000431 -TIR01B-1004 Time	7: ARDG-000432 -TIR01B-1004 Time	8: ARDG-000433 -TIR01B-1004 Time	9: ARDG-000434 -TIR01B-1004 Time	10: ARDG-000435 -TIR01B-1004 Time
Sample Date & Time					17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22
Sample weight [g]	04-Nov-22	10:08	07-Nov-22	10:47	250	250	250	250	250	250
Volume D.I. Water [mL]	04-Nov-22	10:08	07-Nov-22	10:47	750	750	750	750	750	750
Final pH [no unit]	05-Nov-22	08:13	07-Nov-22	10:47	8.73	9.10	9.13	8.99	8.96	8.97
pH [No unit]	07-Nov-22	15:42	08-Nov-22	10:23	7.86	7.89	7.92	7.81	7.76	7.77
Conductivity [uS/cm]	07-Nov-22	15:42	08-Nov-22	10:23	242	220	219	302	385	331
Alkalinity [mg/L as CaCO3]	07-Nov-22	15:42	08-Nov-22	10:23	58	57	57	53	50	46
SO4 [mg/L]	15-Nov-22	12:47	17-Nov-22	09:36	41	37	36	73	50	62
Hg [mg/L]	08-Nov-22	12:43	11-Nov-22	10:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.616	0.659	0.749	0.506	0.491	0.506
As [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.233	0.164	0.182	0.0278	0.101	0.0908
Ba [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00305	0.00292	0.00266	0.00462	0.00426	0.00535
B [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.037	0.030	0.025	0.017	0.027	0.019

OnLine LIMS

0003127356



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Project : PO#1124452

LR Report : CA19273-OCT22

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000430 -TIR01B-1004 OMS16-Kwa-s	ARDG-000431 -TIR01B-1004 OMS16-Kwa-s	ARDG-000432 -TIR01B-1004 OMS16-Kwa-s	ARDG-000433 -TIR01B-1004 OMS16-Kwa-s	ARDG-000434 -TIR01B-1004 OMS16-Kwa-s	ARDG-000435 -TIR01B-1004 OMS16-Kwa-s
Be [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	11.7	9.92	11.2	17.0	13.3	14.2
Cd [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.000005	< 0.000003	0.000003	0.000006	0.000005	0.000006
Co [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.000076	0.000047	0.000052	0.000038	0.000071	0.000088
Cr [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00021	0.00026	0.00099	0.00039	0.00022	0.00034
Cu [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.0003	0.0002	0.0004	0.0002	0.0002	0.0002
Fe [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.007	< 0.007	0.011	< 0.007	< 0.007	< 0.007
K [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	18.9	18.6	20.8	19.3	21.8	19.9
Li [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.0023	0.0018	0.0017	0.0022	0.0020	0.0022
Mg [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	3.90	3.31	3.86	6.16	5.32	4.83
Mn [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00142	0.00119	0.00131	0.00239	0.00181	0.00169
Mo [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00764	0.00623	0.00717	0.00628	0.00772	0.00586
Na [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	15.1	14.5	17.5	15.7	33.6	24.4
Ni [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.0004	0.0003	0.0005	0.0002	0.0003	0.0003
Pb [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.0084	0.0055	0.0056	0.0028	0.0043	0.0053
Se [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00063	0.00071	0.00060	0.00119	0.00071	0.00077
Si [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	1.69	1.58	1.53	1.83	1.50	1.57
Sn [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.0636	0.0469	0.0541	0.0762	0.0754	0.0806
Ti [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00017	0.00018	0.00020	0.00009	0.00012	0.00016
Tl [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.000008	0.000007	0.000008	0.000017	0.000012	0.000010
U [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.000629	0.000524	0.000333	0.000497	0.000412	0.000525
W [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00628	0.00511	0.00435	0.00570	0.00270	0.00423
V [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	0.00245	0.00263	0.00276	0.00140	0.00157	0.00170
Zn [mg/L]	08-Nov-22	09:12	11-Nov-22	10:33	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Online LIMS

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Project : PO#1124452

LR Report : CA19273-OCT22

Analysis	11:	12:	14:	15:	16:	17:	18:	19:	20:
	ARDG-000436	ARDG-000437	ARDG-000439	ARDG-000440	ARDG-000441	ARDG-000442	ARDG-000443	ARDG-000444	ARDG-000445
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s
Sample Date & Time	17-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22	18-Sep-22
Sample weight [g]	250	250	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750	750	750
Final pH [no unit]	8.91	8.82	8.93	9.08	8.98	9.16	8.88	8.81	8.96
pH [No unit]	7.86	7.89	8.04	8.01	7.78	7.87	7.72	7.80	7.82
Conductivity [uS/cm]	336	229	255	274	270	236	537	312	280
Alkalinity [mg/L as CaCO3]	52	55	59	62	46	48	49	48	52
SO4 [mg/L]	83	35	25	26	59	24	83	47	53
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.474	0.689	0.665	0.644	0.558	0.677	0.426	0.544	0.574
As [mg/L]	0.0937	0.175	0.142	0.151	0.144	0.126	0.122	0.0680	0.136
Ba [mg/L]	0.00890	0.00312	0.00235	0.00233	0.00406	0.00212	0.0104	0.00284	0.00370
B [mg/L]	0.017	0.017	0.016	0.019	0.018	0.016	0.062	0.040	0.022
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	19.4	10.5	9.27	9.28	13.6	8.94	20.4	11.5	11.5
Cd [mg/L]	0.000008	0.000009	0.000004	0.000005	0.000003	0.000004	0.000008	0.000005	0.000008
Co [mg/L]	0.000122	0.000057	0.000051	0.000050	0.000065	0.000033	0.000106	0.000035	0.000056
Cr [mg/L]	0.00060	0.00075	0.00025	0.00010	0.00076	0.00027	0.00033	0.00030	0.00036
Cu [mg/L]	< 0.0002	0.0004	0.0004	0.0004	0.0004	0.0003	0.0004	0.0002	0.0002
Fe [mg/L]	< 0.007	0.007	0.007	0.012	0.007	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	21.3	21.3	19.5	20.4	18.9	16.0	21.6	20.7	20.1
Li [mg/L]	0.0031	0.0016	0.0015	0.0017	0.0016	0.0014	0.0028	0.0017	0.0018
Mg [mg/L]	7.46	3.54	3.28	3.42	3.97	2.69	7.86	4.01	4.02
Mn [mg/L]	0.00418	0.00106	0.00124	0.00113	0.00168	0.00092	0.00447	0.00165	0.00137
Mo [mg/L]	0.01079	0.00660	0.00645	0.00703	0.00763	0.00580	0.0108	0.00856	0.00670
Na [mg/L]	17.6	15.8	20.5	23.1	16.5	19.7	47.0	24.7	19.4

OnLine LIMS

0003127356



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mel

Project : PO#1124452
LR Report : CA19273-OCT22

Analysis	11:	12:	14:	15:	16:	17:	18:	19:	20:
	ARDG-000436	ARDG-000437	ARDG-000439	ARDG-000440	ARDG-000441	ARDG-000442	ARDG-000443	ARDG-000444	ARDG-000445
	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004	-TIR01B-1004
	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s	OMS16-Kwa-s
Ni [mg/L]	0.0005	0.0006	0.0006	0.0007	0.0004	0.0004	0.0007	0.0004	0.0004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0052	0.0059	0.0066	0.0063	0.0054	0.0066	0.0055	0.0069	0.0055
Se [mg/L]	0.00151	0.00059	0.00055	0.00056	0.00125	0.00069	0.00115	0.00060	0.00077
Si [mg/L]	1.54	1.42	1.49	1.51	1.50	1.46	1.56	1.42	1.50
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.123	0.0528	0.0438	0.0449	0.0661	0.0403	0.127	0.0550	0.0544
Ti [mg/L]	0.00008	0.00014	0.00023	0.00015	0.00010	0.00025	0.00025	0.00012	0.00011
Tl [mg/L]	0.000015	0.000010	0.000008	0.000008	0.000011	0.000006	0.000019	0.000006	0.000010
U [mg/L]	0.00228	0.000248	0.000200	0.000242	0.000414	0.000307	0.00106	0.000312	0.000353
W [mg/L]	0.00700	0.00373	0.00421	0.00515	0.00492	0.00288	0.00416	0.00467	0.00413
V [mg/L]	0.00128	0.00236	0.00278	0.00278	0.00186	0.00223	0.00143	0.00156	0.00197
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	21:	22:	23:	24:BLK:
	ARDG-000446	2301	2301	\$D.I. Leachate
	-TIR01B-1004	1004OMS16	1004OMS16	Blank
	OMS16-Kwa-s	2301	2301	
Sample Date & Time	18-Sep-22	N/A		
Sample weight [g]	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750
Final pH [no unit]	9.02	9.02	8.98	5.61
pH [No unit]	7.77	7.84	7.83	7.32
Conductivity [uS/cm]	253	268	265	7
Alkalinity [mg/L as CaCO3]	49	50	53	4
SO4 [mg/L]	45	55	55	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001

OnLine LIMS

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Project : PO#1124452

LR Report : CA19273-OCT22


Analysis	21: ARDG-000446 -TIR01B-1004 OMS16-Kwa-s	22: 2301 10040MS16 2301	23: 2301 \$D.I. 10040MS16 2301	24:BLK: Leachate Blank
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.611	0.558	0.550	< 0.001
As [mg/L]	0.131	0.154	0.149	0.0002
Ba [mg/L]	0.00337	0.00321	0.00317	0.00009
B [mg/L]	0.022	0.017	0.027	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10.9	11.9	11.7	0.04
Cd [mg/L]	0.000007	0.000009	0.000003	< 0.000003
Co [mg/L]	0.000057	0.000075	0.000078	0.000013
Cr [mg/L]	0.00045	0.00087	0.00051	0.00017
Cu [mg/L]	0.0002	0.0003	0.0003	0.0004
Fe [mg/L]	< 0.007	0.007	< 0.007	< 0.007
K [mg/L]	18.4	17.4	17.4	0.234
Li [mg/L]	0.0018	0.0021	0.0020	< 0.0001
Mg [mg/L]	3.59	4.61	4.84	0.005
Mn [mg/L]	0.00136	0.00224	0.00222	0.00033
Mo [mg/L]	0.00590	0.00857	0.00793	0.00045
Na [mg/L]	17.1	18.4	19.0	0.01
Ni [mg/L]	0.0004	0.0005	0.0006	0.0002
Pb [mg/L]	< 0.00009	0.00027	0.00029	< 0.00009
Sb [mg/L]	0.0058	0.0056	0.0056	< 0.0009
Se [mg/L]	0.00101	0.00150	0.00155	< 0.00004
Si [mg/L]	1.50	1.65	1.61	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0489	0.0554	0.0556	0.00010
Ti [mg/L]	0.00023	0.00028	0.00010	0.00006
Tl [mg/L]	0.000010	0.000010	0.000009	< 0.000005

OnLine LIMS

0003127356

Analysis	21: ARDG-000446 -TIR01B-1004 OMS16-Kwa-s	22: 2301 10040MS16 2301	23: 2301 \$D.I. 10040MS16 2301	24:BLK: Leachate Blank
U [mg/L]	0.000327	0.000702	0.000656	0.000004
W [mg/L]	0.00368	0.00585	0.00536	< 0.00002
V [mg/L]	0.00199	0.00193	0.00195	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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



SGS Canada Inc.

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Project : PO#1124452

24-January-2023

Date Rec. : 30 December 2022

LR Report: CA19275-DEC22

Reference: Meliadine - PO#1124452

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: ARDG-00054 20MS15-Mv	6: ARDG-00054 20MS15-Mv	7: ARDG-00054 20MS15-Mv	8: ARDG-00054 20MS15-Mv	9: ARDG-00054 20MS15-Mv	10: ARDG-00055 20MS14-Mv
Sample Date & Time					10-Dec-22	10-Dec-22	10-Dec-22	10-Dec-22	10-Dec-22	14-Dec-22
Paste pH [no unit]	12-Jan-23	08:44	16-Jan-23	12:17	8.73	8.48	8.77	8.48	8.67	8.75
Fizz Rate [rating]	12-Jan-23	08:44	16-Jan-23	12:17	4	4	4	4	4	4
Sample weight [g]	12-Jan-23	08:44	16-Jan-23	12:17	1.91	1.89	2.03	1.99	1.97	1.96
HCl_add [mL]	12-Jan-23	08:44	16-Jan-23	12:17	145.00	155.00	115.00	145.00	135.00	155.00
HCl [Normality]	12-Jan-23	08:44	16-Jan-23	12:17	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	12-Jan-23	08:44	16-Jan-23	12:17	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	12-Jan-23	08:44	16-Jan-23	12:17	60.75	58.60	35.45	60.74	60.87	70.52
Final pH [no unit]	12-Jan-23	08:44	16-Jan-23	12:17	1.55	1.56	1.86	1.56	1.57	1.55
NP [t CaCO3/1000 t]	12-Jan-23	08:44	16-Jan-23	12:17	220	255	196	212	188	216
AP [t CaCO3/1000 t]	16-Jan-23	12:17	16-Jan-23	12:17	4.38	5.00	4.06	9.38	4.06	2.81
Net NP [t CaCO3/1000 t]	16-Jan-23	12:17	16-Jan-23	12:17	216	250	192	202	184	213
NP/AP [ratio]	16-Jan-23	12:17	16-Jan-23	12:17	50.4	51.0	48.2	22.6	46.3	76.6
S [%]	05-Jan-23	16:40	10-Jan-23	16:04	0.198	0.193	0.174	0.308	0.161	0.126
Acid Leachable SO4-S [%]	10-Jan-23	16:04	10-Jan-23	16:04	0.06	< 0.04	0.04	< 0.04	< 0.04	< 0.04

OnLine LIMS

0003206296



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Project : PO#1124452

LR Report : CA19275-DEC22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-00054 ARDG-00054 20MS15-Mv	6: ARDG-00054 ARDG-00054 20MS15-Mv	7: ARDG-00054 ARDG-00054 20MS15-Mv	8: ARDG-00054 ARDG-00054 20MS15-Mv	9: ARDG-00054 ARDG-00054 20MS15-Mv	10: ARDG-00055 ARDG-00055 20MS14-Mv
Sulphide [%]	10-Jan-23	08:43	10-Jan-23	16:04	0.14	0.16	0.13	0.30	0.13	0.09
C [%]	05-Jan-23	16:40	09-Jan-23	15:46	2.92	3.36	2.55	3.10	2.76	3.00
CO3 (HCl) [%]	09-Jan-23	09:36	09-Jan-23	15:46	14.0	16.4	12.4	15.1	13.4	14.7

Analysis	11: ARDG-00055 ARDG-00055 20MS14-Mv	12: ARDG-00055 ARDG-00055 20MS14-Mv	13: ARDG-00055 ARDG-00055 20MS14-Mv	14: ARDG-00055 ARDG-00055 20MS14-Mv	15: ARDG-00055 ARDG-00055 20MS14-Mv	16: ARDG-00055 ARDG-00055 20MS14-Mv	17: ARDG-00055 ARDG-00055 20MS14-Mv
Sample Date & Time	14-Dec-22	14-Dec-22	16-Dec-22	16-Dec-22	16-Dec-22	16-Dec-22	16-Dec-22
Paste pH [no unit]	8.80	8.88	8.84	8.98	8.44	9.08	8.82
Fizz Rate [rating]	4	4	4	4	4	4	4
Sample weight [g]	1.97	1.93	2.03	2.01	2.12	2.19	2.09
HCl_add [mL]	140.00	160.00	100.00	100.00	145.00	120.00	120.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	63.02	71.03	24.52	39.22	56.35	34.39	37.43
Final pH [no unit]	1.54	1.50	1.79	1.49	1.63	1.73	1.89
NP [t CaCO3/1000 t]	195	230	186	151	209	196	198
AP [t CaCO3/1000 t]	2.50	2.81	1.88	2.19	3.44	1.25	3.44
Net NP [t CaCO3/1000 t]	193	228	184	149	206	194	194
NP/AP [ratio]	78.2	82.0	99.1	69.1	60.8	156	57.5
S [%]	0.129	0.124	0.084	0.114	0.146	0.048	0.150
Acid Leachable SO4-S [%]	0.05	< 0.04	< 0.04	0.04	< 0.04	< 0.04	0.04
Sulphide [%]	0.08	0.09	0.06	0.07	0.11	0.04	0.11
C [%]	3.01	3.70	2.38	1.86	2.74	2.53	2.72
CO3 (HCl) [%]	14.7	18.1	11.4	9.02	13.2	12.3	13.3

ABA - Modified Sobek

*NP (Neutralization Potential)

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

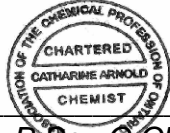
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project Specialist,
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Project : PO#1124452

06-February-2023

Date Rec. : 30 December 2022
LR Report: CA19276-DEC22
Reference: Meliadine - PO#1124452

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000545-T IR01B-10020MS 15-Mv	ARDG-000546-T IR01B-10020MS 15-Mv	ARDG-000547-T IR01B-10020MS 15-Mv	ARDG-000548-T IR01B-10020MS 15-Mv	ARDG-000549-T IR01B-10020MS 15-Mv	ARDG-000550-T IR01B-10020MS 14-Mv	ARDG-000551-T IR01B-10020MS 14-Mv	ARDG-000552-T IR01B-10020MS 14-Mv
Sample Date & Time					10-Dec-22	10-Dec-22	10-Dec-22	10-Dec-22	10-Dec-22	14-Dec-22	14-Dec-22	14-Dec-22
Silver [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	65000	49000	53000	59000	49000	60000	55000	63000
Arsenic [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	26	170	140	14	130	27	26	97
Barium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	140	190	47	100	71	61	68	71
Beryllium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	0.42	0.37	0.31	0.41	0.31	0.37	0.37	0.38
Bismuth [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	71000	80000	66000	71000	68000	62000	65000	66000
Cadmium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	0.17	0.14	0.13	0.09	0.15	0.09	0.08	0.12
Cobalt [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	44	45	43	45	43	42	43	39
Chromium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	210	200	160	190	150	200	200	200
Copper [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	93	110	91	130	90	77	92	94
Iron [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	64000	66000	81000	70000	78000	71000	71000	66000
Potassium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	5500	7700	2400	4900	3300	4200	4500	4500
Lithium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	52	46	48	40	37	49	48	39
Magnesium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	20000	17000	19000	25000	18000	28000	25000	25000
Manganese [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	2000	1900	1500	1400	1600	1400	1500	1300
Molybdenum [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	1.5	1.4	1.1	1.2	0.9	1.0	1.1	0.8
Nickel [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	110	120	100	110	95	110	110	100
Lead [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	3.1	4.7	2.8	2.7	3.3	2.7	2.6	4.9

OnLine LIMS

0003220938



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Project : PO#1124452
LR Report : CA19276-DEC22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000545-T IR01B-10020MS 15-Mv	6: ARDG-000546-T IR01B-10020MS 15-Mv	7: ARDG-000547-T IR01B-10020MS 15-Mv	8: ARDG-000548-T IR01B-10020MS 15-Mv	9: ARDG-000549-T IR01B-10020MS 15-Mv	10: ARDG-000550-T IR01B-10020MS 14-Mv	11: ARDG-000551-T IR01B-10020MS 14-Mv	12: ARDG-000552-T IR01B-10020MS 14-Mv
Antimony [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	< 0.8	1.1	0.8	0.8	0.9	0.8	0.8	0.8
Selenium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:45	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Strontium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	110	92	110	110	100	97	99	150
Titanium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	2300	2600	3700	2700	4200	1500	1300	3200
Thallium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	0.26	0.36	0.09	0.22	0.13	0.20	0.21	0.20
Uranium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	0.16	0.21	0.11	0.34	0.10	0.077	0.061	0.064
Vanadium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	230	220	250	220	240	210	220	220
Yttrium [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	7.5	6.1	5.6	6.5	6.2	5.6	5.2	5.2
Zinc [µg/g]	30-Jan-23	11:35	31-Jan-23	15:46	89	88	96	77	110	83	83	84

Analysis	13: ARDG-000553-T IR01B-10020MS 14-Mv	14: ARDG-000554-T IR01B-10020MS 14-Mv	15: ARDG-000555-T IR01B-10020MS 14-Mv	16: ARDG-000556-T IR01B-10020MS 14-Mv	17: ARDG-000557-T IR01B-10020MS 14-Mv
Sample Date & Time	16-Dec-22	16-Dec-22	16-Dec-22	16-Dec-22	16-Dec-22
Silver [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	65000	62000	61000	47000	64000
Arsenic [µg/g]	8.9	11	180	2.9	82
Barium [µg/g]	39	12	66	14	49
Beryllium [µg/g]	0.29	0.26	0.33	0.27	0.28
Bismuth [µg/g]	0.19	0.13	< 0.09	< 0.09	< 0.09
Calcium [µg/g]	70000	68000	71000	68000	70000
Cadmium [µg/g]	0.12	0.13	0.20	0.12	0.10
Cobalt [µg/g]	46	46	43	39	47
Chromium [µg/g]	190	200	160	200	170
Copper [µg/g]	140	120	89	78	110
Iron [µg/g]	78000	81000	78000	67000	79000
Potassium [µg/g]	2900	630	3700	1400	2600
Lithium [µg/g]	57	52	45	98	46
Magnesium [µg/g]	34000	32000	22000	24000	26000
Manganese [µg/g]	1500	1600	1700	1300	1600
Molybdenum [µg/g]	1.0	0.8	1.0	0.6	0.9
Nickel [µg/g]	120	93	100	100	100
Lead [µg/g]	2.8	6.2	6.4	2.8	2.5
Antimony [µg/g]	2.7	1.5	< 0.8	0.8	< 0.8

OnLine LIMS

0003220938

Analysis	13: ARDG-000553-T IR01B-10020MS 14-Mv	14: ARDG-000554-T IR01B-10020MS 14-Mv	15: ARDG-000555-T IR01B-10020MS 14-Mv	16: ARDG-000556-T IR01B-10020MS 14-Mv	17: ARDG-000557-T IR01B-10020MS 14-Mv
Selenium [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Tin [µg/g]	6	< 6	< 6	< 6	< 6
Strontium [µg/g]	110	150	120	140	97
Titanium [µg/g]	3200	2200	3500	1300	2700
Thallium [µg/g]	0.19	0.03	0.14	0.04	0.09
Uranium [µg/g]	0.043	0.032	0.024	0.008	0.024
Vanadium [µg/g]	240	260	250	210	240
Yttrium [µg/g]	12.7	15.1	6.5	8.4	7.0
Zinc [µg/g]	80	83	130	74	84

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-013	EPA 3052/200.8

Chris Sullivan



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



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mel

Project : PO#1124452
LR Report : CA19276-DEC22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0181-JAN23</i>													
Aluminum	3	µg/g	<3			5	20	101	70	130	92	70	130
Antimony	0.8	µg/g	<0.8			ND	20	93	70	130	122	70	130
Arsenic	0.5	µg/g	<0.5			6	20	99	70	130	98	70	130
Barium	0.01	µg/g	<0.01			1	20	94	70	130	94	70	130
Beryllium	0.02	µg/g	<0.02			12	20	97	70	130	82	70	130
Bismuth	0.09	µg/g	<0.09			ND	20	91	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			16	20	107	70	130	NV	70	130
Chromium	0.5	µg/g	<0.5			1	20	97	70	130	76	70	130
Cobalt	0.01	µg/g	<0.01			3	20	98	70	130	87	70	130
Copper	0.1	µg/g	<0.1			4	20	100	70	130	97	70	130
Iron	3	µg/g	<3			1	20	102	70	130	90	70	130
Lead	0.05	µg/g	<0.05			1	20	91	70	130	103	70	130
Lithium	2	µg/g	<2			10	20	94	70	130	87	70	130
Magnesium	3	µg/g	<0.1			4	20	100	70	130	87	70	130
Manganese	0.1	µg/g	<0.1			1	20	100	70	130	91	70	130
Molybdenum	0.1	µg/g	<0.1			5	20	91	70	130	89	70	130
Nickel	0.1	µg/g	<0.1			1	20	99	70	130	98	70	130
Selenium	0.7	µg/g	<0.7			ND	20	95	70	130	NV	70	130
Silver	0.5	µg/g	<0.01			11	20	98	70	130	NV	70	130
Strontium	0.02	µg/g	<0.02			1	20	96	70	130	91	70	130
Thallium	0.02	µg/g	<0.02			3	20	NV	70	130	NV	70	130
Tin	6	µg/g	<6			7	20	100	70	130	NV	70	130
Titanium	0.1	µg/g	<0.1			1	20	101	70	130	71	70	130
Uranium	0.002	µg/g	<0.002			1	20	99	70	130	80	70	130
Vanadium	1	µg/g	<1			1	20	96	70	130	94	70	130
Yttrium	0.004	µg/g	<0.004			1	20	102	70	130	NV	70	130
Zinc	0.7	µg/g	<0.7			0	20	91	70	130	88	70	130



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Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

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, Nunavut
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Project : PO#1124452

18-January-2023

Date Rec. : 30 December 2022
LR Report: CA19277-DEC22
Reference: Meliadine - PO#1124452

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: ARDG-000545-T IR01B-10020MS 15-Mv	6: ARDG-000546-T IR01B-10020MS 15-Mv	7: ARDG-000547-T IR01B-10020MS 15-Mv
Sample Date & Time					10-Dec-22	10-Dec-22	10-Dec-22
Sample weight [g]	05-Jan-23	08:46	06-Jan-23	14:42	250	250	250
Volume D.I. Water [mL]	05-Jan-23	08:46	06-Jan-23	14:42	750	750	750
Final pH [no unit]	05-Jan-23	08:46	06-Jan-23	14:42	8.64	8.50	8.83
pH [No unit]	09-Jan-23	08:04	11-Jan-23	11:16	8.00	7.99	8.12
Conductivity [uS/cm]	09-Jan-23	08:04	11-Jan-23	11:16	299	773	363
Alkalinity [mg/L as CaCO3]	09-Jan-23	08:04	11-Jan-23	11:16	66	68	72
SO4 [mg/L]	10-Jan-23	10:44	12-Jan-23	09:56	15	47	29
Hg [mg/L]	12-Jan-23	07:21	12-Jan-23	10:58	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.548	0.367	0.632
As [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.0090	0.0801	0.0439
Ba [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00081	0.00236	0.00124
B [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.014	0.041	0.030
Be [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	12.5	18.1	7.20
Cd [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.000003	0.000004	< 0.000003
Co [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.000032	0.000107	0.000026
Cr [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00029	0.00063	0.00051
Cu [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.007	0.008	0.009
K [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	8.12	14.1	9.82
Li [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.0018	0.0016	0.0007
Mg [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	5.22	8.03	2.02
Mn [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00341	0.00478	0.00112
Mo [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00399	0.00893	0.00403
Na [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	35.9	112	56.9
Ni [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.0001	0.0006	0.0002

Online LIMS

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LR Report : CA19277-DEC22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000545-T IR01B-10020MS 15-Mv	ARDG-000546-T IR01B-10020MS 15-Mv	ARDG-000547-T IR01B-10020MS 15-Mv
Pb [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.0013	0.0019	0.0013
Se [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00036	0.00075	0.00070
Si [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	1.32	1.42	1.18
Sn [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.0207	0.0419	0.0190
Ti [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.00005	0.00006	0.00010
Tl [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.000007	0.000012	< 0.000005
U [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.000006	0.000095	0.000012
W [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00105	0.00173	0.00140
V [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	0.00118	0.00123	0.00200
Zn [mg/L]	09-Jan-23	12:28	10-Jan-23	15:15	< 0.002	< 0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000548-T IR01B-10020MS 15-Mv	ARDG-000549-T IR01B-10020MS 15-Mv	ARDG-000550-T IR01B-10020MS 14-Mv	ARDG-000551-T IR01B-10020MS 14-Mv	ARDG-000552-T IR01B-10020MS 14-Mv	ARDG-000553-T IR01B-10020MS 14-Mv	ARDG-000554-T IR01B-10020MS 14-Mv
Sample Date & Time	10-Dec-22	10-Dec-22	14-Dec-22	14-Dec-22	14-Dec-22	16-Dec-22	16-Dec-22
Sample weight [g]	250	250	250	250	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	8.52	8.50	8.69	8.68	8.79	8.75	9.02
pH [No unit]	7.92	7.98	8.10	8.03	8.29	7.84	7.92
Conductivity [uS/cm]	717	271	237	229	295	223	175
Alkalinity [mg/L as CaCO3]	65	63	72	71	90	43	44
SO4 [mg/L]	42	23	8	9	18	9	6
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.275	0.475	0.456	0.495	0.591	0.545	0.680
As [mg/L]	0.0015	0.0498	0.0016	0.0017	0.0747	0.0018	0.0021
Ba [mg/L]	0.00231	0.00134	0.00062	0.00085	0.00052	0.00065	0.00079
B [mg/L]	0.016	0.019	0.012	0.015	0.022	0.013	0.015
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23.1	15.4	11.2	11.5	9.45	10.7	7.06
Cd [mg/L]	0.000006	0.000006	0.000005	0.000005	0.000003	< 0.000003	< 0.000003
Co [mg/L]	0.000021	0.000066	0.000024	0.000025	0.000057	0.000078	0.000036
Cr [mg/L]	0.00049	0.00035	0.00024	0.00032	0.00029	0.00039	0.00033
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	0.015
K [mg/L]	11.4	6.70	6.88	6.40	5.65	5.34	4.89
Li [mg/L]	0.0014	0.0010	0.0017	0.0016	0.0022	0.0007	0.0005
Mg [mg/L]	12.3	4.93	6.02	5.04	5.83	2.09	1.16
Mn [mg/L]	0.00429	0.00291	0.00185	0.00193	0.00237	0.00122	0.00081
Mo [mg/L]	0.00289	0.00514	0.00420	0.00363	0.00501	0.00224	0.00436

Online LIMS

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Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000548-T IR01B-10020MS 15-Mv	ARDG-000549-T IR01B-10020MS 15-Mv	ARDG-000550-T IR01B-10020MS 14-Mv	ARDG-000551-T IR01B-10020MS 14-Mv	ARDG-000552-T IR01B-10020MS 14-Mv	ARDG-000553-T IR01B-10020MS 14-Mv	ARDG-000554-T IR01B-10020MS 14-Mv
Na [mg/L]	86.7	28.4	25.6	24.1	41.4	25.9	23.0
Ni [mg/L]	0.0001	0.0004	0.0002	0.0002	0.0004	0.0003	0.190
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0010	0.0038	0.0009	< 0.0009	0.0054	0.0018	0.0014
Se [mg/L]	0.00047	0.00059	0.00020	0.00016	0.00099	0.00013	0.00013
Si [mg/L]	1.35	1.21	1.25	1.15	1.45	1.08	1.12
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0614	0.0306	0.0218	0.0219	0.0162	0.0281	0.0204
Ti [mg/L]	< 0.00005	0.00005	< 0.00005	< 0.00005	< 0.00005	0.00010	< 0.00005
Tl [mg/L]	0.000013	0.000006	0.000006	0.000005	< 0.000005	< 0.000005	< 0.000005
U [mg/L]	0.000061	0.000023	0.000014	0.000008	0.000015	< 0.000002	0.000002
W [mg/L]	0.00156	0.00087	0.00068	0.00058	0.00221	0.00086	0.00076
V [mg/L]	0.00072	0.00126	0.00075	0.00080	0.00175	0.00106	0.00164
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	15:	16:	17:
	ARDG-000555-T IR01B-10020MS 14-Mv	ARDG-000556-T IR01B-10020MS 14-Mv	ARDG-000557-T IR01B-10020MS 14-Mv
Sample Date & Time	16-Dec-22	16-Dec-22	16-Dec-22
Sample weight [g]	250	250	250
Volume D.I. Water [mL]	750	750	750
Final pH [no unit]	8.33	8.84	8.67
pH [No unit]	7.99	8.16	8.06
Conductivity [uS/cm]	590	137	197
Alkalinity [mg/L as CaCO3]	59	48	70
SO4 [mg/L]	30	4	9
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.375	0.728	0.552
As [mg/L]	0.0511	0.0016	0.0264
Ba [mg/L]	0.00132	0.00031	0.00065
B [mg/L]	0.018	0.015	0.017
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23.2	7.31	10.1
Cd [mg/L]	0.000006	< 0.000003	0.000003
Co [mg/L]	0.000252	0.000006	0.000025
Cr [mg/L]	0.00049	0.00025	0.00030
Cu [mg/L]	< 0.0002	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007
K [mg/L]	9.48	2.24	5.63
Li [mg/L]	0.0017	0.0014	0.0011
Mg [mg/L]	9.40	1.42	3.62

Analysis	15:	16:	17:
	ARDG-000555-T IR01B-10020MS 14-Mv	ARDG-000556-T IR01B-10020MS 14-Mv	ARDG-000557-T IR01B-10020MS 14-Mv
Mn [mg/L]	0.00524	0.00098	0.00159
Mo [mg/L]	0.00609	0.00154	0.00311
Na [mg/L]	81.7	21.4	21.9
Ni [mg/L]	0.0007	0.0002	0.0004
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0018	0.0011	0.0021
Se [mg/L]	0.00059	0.00008	0.00039
Si [mg/L]	1.27	1.03	1.14
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0516	0.0153	0.0196
Ti [mg/L]	< 0.00005	< 0.00005	< 0.00005
Tl [mg/L]	0.000009	< 0.000005	< 0.000005
U [mg/L]	0.000009	0.000005	0.000007
W [mg/L]	0.00075	0.00087	0.00062
V [mg/L]	0.00114	0.00165	0.00138
Zn [mg/L]	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold
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Mel

Project : PO#1124452

29-January-2023

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 29 December 2022
LR Report: CA19285-DEC22
Reference: Meliadine - PO#1124452

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Date Completed	Analysis Date Completed	ARDG-000534-T IR01B-10025MS 03-Kwa-s	ARDG-000535-T IR01B-10025MS 03-Kwa-s	ARDG-000536-T IR01B-10025MS 03-Kwa-s	ARDG-000537-T IR01B-10025MS 03-Kwa-s
Sample Date & Time					26-Nov-22	26-Nov-22	26-Nov-22	26-Nov-22
Paste pH [no unit]	09-Jan-23	09:26	11-Jan-23	11:41	9.04	9.09	9.12	9.09
Fizz Rate [rating]	09-Jan-23	09:26	11-Jan-23	11:41	2	2	3	3
Sample weight [g]	09-Jan-23	09:26	11-Jan-23	11:41	1.93	1.97	2.08	2.10
HCl_add [mL]	09-Jan-23	09:26	11-Jan-23	11:41	40.00	48.00	42.00	42.70
HCl [Normality]	09-Jan-23	09:26	11-Jan-23	11:41	0.10	0.10	0.10	0.10
NaOH [Normality]	09-Jan-23	09:26	11-Jan-23	11:41	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	09-Jan-23	09:26	11-Jan-23	11:41	18.57	26.16	23.09	23.27
Final pH [no unit]	09-Jan-23	09:26	11-Jan-23	11:41	1.88	1.55	1.58	1.57
NP [t CaCO3/1000 t]	09-Jan-23	09:26	11-Jan-23	11:41	55.5	55.4	45.5	46.3
AP [t CaCO3/1000 t]	27-Jan-23	12:33	27-Jan-23	12:33	10.0	4.06	10.0	8.75
Net NP [t CaCO3/1000 t]	27-Jan-23	12:33	27-Jan-23	12:33	45.5	51.3	35.5	37.6
NP/AP [ratio]	27-Jan-23	12:33	27-Jan-23	12:33	5.55	13.6	4.55	5.29
S [%]	20-Jan-23	08:10	27-Jan-23	12:33	0.301	0.177	0.337	0.330
Acid Leachable SO4-S [%]	27-Jan-23	12:32	27-Jan-23	12:33	< 0.04	0.05	< 0.04	0.05
Sulphide [%]	26-Jan-23	15:34	27-Jan-23	12:33	0.32	0.13	0.32	0.28
C [%]	20-Jan-23	08:10	26-Jan-23	15:56	0.805	0.805	0.599	0.605
CO3 (HCl) [%]	26-Jan-23	09:25	26-Jan-23	15:56	3.55	3.60	2.59	2.56

Analysis	9:	10:	11:	12:	13:	14:	15:
	ARDG-000538-T IR01B-10025MS 03-Kwa-s	ARDG-000539-T IR01B-10025MS 03-Kwa-s	ARDG-000540-T IR01B-10025MS 04-Kwa-s	ARDG-000541-T IR01B-10025MS 04-Kwa-s	ARDG-000542-T IR01B-10025MS 04-Kwa-s	ARDG-000543-T IR01B-10025MS 04-Kwa-s	ARDG-000544-T IR01B-10025MS 04-Kwa-s
Sample Date & Time	26-Nov-22	26-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22
Paste pH [no unit]	8.90	9.13	8.90	8.86	9.14	9.17	9.08
Fizz Rate [rating]	3	3	2	2	2	2	2
Sample weight [g]	1.93	1.94	1.99	2.01	2.06	1.95	1.95
HCl_add [mL]	55.20	35.00	42.50	43.70	43.40	47.50	40.20
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26.12	18.58	24.56	23.25	26.18	27.70	23.06
Final pH [no unit]	1.61	1.83	1.57	1.67	1.52	1.55	1.65
NP [t CaCO3/1000 t]	75.3	42.3	45.1	50.9	41.8	50.8	43.9

Online LIMS

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Project : PO#1124452

LR Report : CA19285-DEC22

Analysis	9:	10:	11:	12:	13:	14:	15:
	ARDG-000538-T	ARDG-000539-T	ARDG-000540-T	ARDG-000541-T	ARDG-000542-T	ARDG-000543-T	ARDG-000544-T
	IR01B-10025MS	IR01B-10025MS	IR01B-10025MS	IR01B-10025MS	IR01B-10025MS	IR01B-10025MS	IR01B-10025MS
	03-Kwa-s	03-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s	04-Kwa-s
AP [t CaCO ₃ /1000 t]	15.0	6.56	5.00	5.31	5.00	4.06	7.81
Net NP [t CaCO ₃ /1000 t]	60.3	35.7	40.1	45.6	36.8	46.7	36.1
NP/AP [ratio]	5.02	6.45	9.02	9.58	8.36	12.5	5.62
S [%]	0.681	0.247	0.230	0.261	0.194	0.211	0.288
Acid Leachable SO ₄ -S [%]	0.20	< 0.04	0.07	0.09	< 0.04	0.08	< 0.04
Sulphide [%]	0.48	0.21	0.16	0.17	0.16	0.13	0.25
C [%]	1.12	0.632	0.606	0.669	0.506	0.619	0.643
CO ₃ (HCl) [%]	4.79	2.68	2.54	2.93	2.15	2.80	2.57

ABA - Modified Sobek

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

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

31-January-2023

Date Rec. : 29 December 2022
LR Report: CA19286-DEC22
Reference: Meliadine - PO#1124452

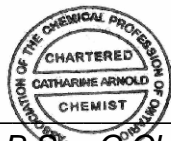
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000534-T IR01B-10025MS 03-Kwa-s	6: ARDG-000535-T IR01B-10025MS 03-Kwa-s	7: ARDG-000536-T IR01B-10025MS 03-Kwa-s	8: ARDG-000537-T IR01B-10025MS 03-Kwa-s	9: ARDG-000538-T IR01B-10025MS 03-Kwa-s
Sample Date & Time					26-Nov-22	26-Nov-22	26-Nov-22	26-Nov-22	26-Nov-22
Ag [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	77000	82000	71000	73000	79000
As [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	15	220	61	73	310
Ba [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	790	800	640	630	810
Be [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	1.2	1.5	1.0	1.0	1.5
Bi [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	0.20	0.30	0.26	0.28	0.48
Ca [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	14000	13000	14000	14000	18000
Cd [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	0.12	0.25	0.12	0.12	0.11
Co [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	18	22	19	20	21
Cr [µg/g]	30-Jan-23	11:35	31-Jan-23	11:18	230	210	220	240	250
Cu [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	32	54	46	49	64
Fe [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	37000	43000	34000	33000	46000
K [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	17000	21000	12000	12000	19000
Li [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	30	39	29	28	29
Mg [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	12000	13000	9900	9900	12000
Mn [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	360	370	320	320	410
Mo [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	1.7	1.8	3.3	1.6	1.9
Ni [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	59	73	58	56	64
Pb [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	14	22	15	16	15
Sb [µg/g]	30-Jan-23	11:35	31-Jan-23	11:19	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	30-Jan-23	11:35	31-Jan-23	11:20	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	30-Jan-23	11:35	31-Jan-23	11:20	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	30-Jan-23	11:35	31-Jan-23	11:20	410	320	340	340	320
Ti [µg/g]	30-Jan-23	11:35	31-Jan-23	11:20	2100	3300	1300	1200	2600
Tl [µg/g]	30-Jan-23	11:35	31-Jan-23	11:20	0.44	0.53	0.30	0.28	0.48
U [µg/g]	30-Jan-23	11:35	31-Jan-23	11:21	1.7	1.8	1.9	2.0	2.1
V [µg/g]	30-Jan-23	11:35	31-Jan-23	11:21	89	110	79	78	94
Y [µg/g]	30-Jan-23	11:35	31-Jan-23	11:21	7.4	8.0	10	7.2	8.5
Zn [µg/g]	30-Jan-23	11:35	31-Jan-23	11:21	68	90	66	68	60

Analysis	10: ARDG-000539-T IR01B-10025MS 03-Kwa-s	11: ARDG-000540-T IR01B-10025MS 04-Kwa-s	12: ARDG-000541-T IR01B-10025MS 04-Kwa-s	13: ARDG-000542-T IR01B-10025MS 04-Kwa-s	14: ARDG-000543-T IR01B-10025MS 04-Kwa-s	15: ARDG-000544-T IR01B-10025MS 04-Kwa-s
Sample Date & Time	26-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	76000	74000	74000	79000	73000	81000
As [µg/g]	100	100	390	400	44	310
Ba [µg/g]	790	650	720	830	750	610
Be [µg/g]	1.1	1.1	1.1	1.2	1.1	1.3
Bi [µg/g]	0.26	0.29	0.25	0.56	0.29	0.29
Ca [µg/g]	12000	9600	11000	9800	12000	12000
Cd [µg/g]	0.10	0.14	0.11	0.10	0.08	0.16
Co [µg/g]	19	20	18	20	18	22
Cr [µg/g]	210	260	260	200	200	220
Cu [µg/g]	50	45	45	46	48	48
Fe [µg/g]	37000	39000	41000	41000	37000	39000
K [µg/g]	15000	15000	15000	16000	15000	17000
Li [µg/g]	31	32	27	36	28	39
Mg [µg/g]	12000	12000	11000	13000	11000	13000
Mn [µg/g]	310	350	300	310	300	340
Mo [µg/g]	1.5	1.6	1.8	1.5	1.5	1.6
Ni [µg/g]	64	69	60	73	58	71
Pb [µg/g]	27	15	12	24	13	18
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	0.9
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	6
Sr [µg/g]	310	230	290	300	310	260
Ti [µg/g]	1500	1500	2000	1800	1600	1300
Tl [µg/g]	0.39	0.40	0.36	0.40	0.36	0.50
U [µg/g]	1.9	1.7	1.7	1.7	1.9	1.8
V [µg/g]	88	94	85	100	82	100
Y [µg/g]	7.2	6.6	7.0	7.7	6.8	8.3
Zn [µg/g]	78	76	72	77	69	73

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Project : PO#1124452

28-February-2023

Date Rec. : 29 December 2022
LR Report: CA19287-DEC22
Reference: Meliadine - PO#1124452

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000534-T IR01B-10025MS 03-Kwa-s	6: ARDG-000535-T IR01B-10025MS 03-Kwa-s	7: ARDG-000536-T IR01B-10025MS 03-Kwa-s
Sample Date & Time					26-Nov-22	26-Nov-22	26-Nov-22
Sample weight [g]	30-Jan-23	08:21	31-Jan-23	15:34	250	250	249
Volume D.I. Water [mL]	30-Jan-23	08:21	31-Jan-23	15:34	750	750	750
Final pH [no unit]	31-Jan-23	10:15	31-Jan-23	15:34	8.66	8.93	8.93
pH [No unit]	31-Jan-23	15:18	01-Feb-23	11:30	8.07	8.34	7.79
Conductivity [uS/cm]	31-Jan-23	15:18	01-Feb-23	11:30	300	212	247
Alkalinity [mg/L as CaCO3]	31-Jan-23	15:18	01-Feb-23	11:30	47	52	39
SO4 [mg/L]	01-Feb-23	10:27	02-Feb-23	11:55	70	28	55
Hg [mg/L]	03-Feb-23	17:06	08-Feb-23	10:50	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.521	0.691	0.611
As [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.0100	0.183	0.0715
Ba [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00569	0.00274	0.00411
B [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.015	0.015	0.012
Be [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	< 0.000007	0.000010	0.000029
Bi [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00076	0.00004	< 0.00001
Ca [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	14.7	9.53	12.9
Cd [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.000011	0.000007	0.000052
Co [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.000039	0.000052	0.000055
Cr [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00247	0.00138	0.00020
Cu [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.0003	0.0006	< 0.0002
Fe [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.039	0.027	< 0.007
K [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	20.8	18.2	14.8
Li [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.0018	0.0015	0.0020
Mg [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	5.29	2.91	3.47
Mn [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00230	0.00130	0.00183
Mo [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.0101	0.00887	0.00661
Na [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	13.9	12.1	15.8
Ni [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.0002	0.0003	0.0002

Online LIMS

0003246179

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Project : PO#1124452

LR Report : CA19287-DEC22

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000534-T IR01B-10025MS 03-Kwa-s	ARDG-000535-T IR01B-10025MS 03-Kwa-s	ARDG-000536-T IR01B-10025MS 03-Kwa-s
Pb [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.0033	0.0081	0.0055
Se [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00076	0.00043	0.00185
Si [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	1.60	1.65	1.90
Sn [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00024	0.00008	< 0.00006
Sr [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.111	0.0516	0.0735
Ti [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00030	0.00018	0.00047
Tl [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.000023	0.000012	0.000016
U [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.000413	0.000321	0.000369
W [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00507	0.00551	0.00533
V [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	0.00129	0.00223	0.00198
Zn [mg/L]	01-Feb-23	11:36	08-Feb-23	10:50	< 0.002	0.002	< 0.002

Analysis	8:	9:	10:	11:	12:	13:	14:
	ARDG-000537-T IR01B-10025MS 03-Kwa-s	ARDG-000538-T IR01B-10025MS 03-Kwa-s	ARDG-000539-T IR01B-10025MS 03-Kwa-s	ARDG-000540-T IR01B-10025MS 04-Kwa-s	ARDG-000541-T IR01B-10025MS 04-Kwa-s	ARDG-000542-T IR01B-10025MS 04-Kwa-s	ARDG-000543-T IR01B-10025MS 04-Kwa-s
Sample Date & Time	26-Nov-22	26-Nov-22	26-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22	27-Nov-22
Sample weight [g]	250	250	250	250	250	250	249
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	9.00	8.91	9.05	9.01	8.94	9.14	9.21
pH [No unit]	8.06	8.09	7.95	8.07	8.02	8.11	8.14
Conductivity [uS/cm]	245	263	224	266	316	202	221
Alkalinity [mg/L as CaCO3]	39	54	44	43	45	49	48
SO4 [mg/L]	53	35	46	53	85	31	22
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.616	0.585	0.612	0.526	0.498	0.714	0.730
As [mg/L]	0.0737	0.0353	0.0639	0.121	0.169	0.151	0.0812
Ba [mg/L]	0.00411	0.00323	0.00345	0.00288	0.00573	0.00299	0.00293
B [mg/L]	0.010	0.012	0.008	0.014	0.015	0.009	0.012
Be [mg/L]	0.000035	0.000009	< 0.000007	0.000036	0.000011	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	12.6	12.0	10.5	10.4	16.5	8.38	8.77
Cd [mg/L]	0.000088	0.000019	0.000006	0.000073	0.000007	0.000008	0.000005
Co [mg/L]	0.000069	0.000046	0.000033	0.000090	0.000090	0.000034	0.000032
Cr [mg/L]	0.00027	0.00009	< 0.00008	0.00026	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.0003
Fe [mg/L]	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	14.6	18.9	15.6	16.0	20.7	17.1	16.2
Li [mg/L]	0.0019	0.0020	0.0013	0.0015	0.0022	0.0015	0.0015
Mg [mg/L]	3.31	3.94	2.91	3.20	5.91	2.43	2.50
Mn [mg/L]	0.00177	0.00228	0.00116	0.00139	0.00304	0.00085	0.00091
Mo [mg/L]	0.00667	0.0103	0.00636	0.00766	0.0102	0.00446	0.00705

Analysis	8: ARDG-000537-T IR01B-10025MS 03-Kwa-s	9: ARDG-000538-T IR01B-10025MS 03-Kwa-s	10: ARDG-000539-T IR01B-10025MS 03-Kwa-s	11: ARDG-000540-T IR01B-10025MS 04-Kwa-s	12: ARDG-000541-T IR01B-10025MS 04-Kwa-s	13: ARDG-000542-T IR01B-10025MS 04-Kwa-s	14: ARDG-000543-T IR01B-10025MS 04-Kwa-s
Na [mg/L]	15.7	16.1	15.0	19.3	17.5	13.3	18.3
Ni [mg/L]	0.0002	0.0002	0.0002	0.0003	0.0003	0.0001	0.0002
Pb [mg/L]	0.00009	0.00016	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0056	0.0128	0.0052	0.0065	0.0052	0.0087	0.0069
Se [mg/L]	0.00261	0.00079	0.00072	0.00197	0.00207	0.00092	0.00049
Si [mg/L]	1.84	1.71	1.86	2.03	2.06	1.78	1.82
Sn [mg/L]	< 0.00006	0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0714	0.0691	0.0594	0.0464	0.0807	0.0459	0.0457
Ti [mg/L]	0.00111	0.00032	0.00010	0.00108	0.00009	0.00029	0.00009
Tl [mg/L]	0.000022	0.000007	0.000013	0.000013	0.000015	0.000020	0.000006
U [mg/L]	0.000438	0.000340	0.000205	0.000297	0.000768	0.000177	0.000284
W [mg/L]	0.00579	0.00637	0.00537	0.00340	0.00405	0.00280	0.00380
V [mg/L]	0.00207	0.00098	0.00181	0.00195	0.00159	0.00279	0.00238
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	15: ARDG-000544-T IR01B-10025MS 04-Kwa-s	16: ARDG-000544-T IR01B-10025MS 04-Kwa-s	17:BLK: \$D.I. Leachate Blank
Sample Date & Time	27-Nov-22		
Sample weight [g]	249	249	---
Volume D.I. Water [mL]	750	750	750
Final pH [no unit]	9.05	9.04	5.76
pH [No unit]	7.98	7.97	5.36
Conductivity [uS/cm]	273	269	2
Alkalinity [mg/L as CaCO3]	39	40	< 2
SO4 [mg/L]	63	60	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.524	0.527	0.001
As [mg/L]	0.0863	0.0870	< 0.0002
Ba [mg/L]	0.00301	0.00309	< 0.00008
B [mg/L]	0.014	0.012	< 0.002
Be [mg/L]	< 0.000007	0.000050	< 0.000007
Bi [mg/L]	< 0.00001	0.00001	< 0.00001
Ca [mg/L]	12.9	12.6	0.02
Cd [mg/L]	0.000009	0.000094	< 0.000003
Co [mg/L]	0.000047	0.000067	0.000004
Cr [mg/L]	< 0.00008	0.00022	< 0.00008
Cu [mg/L]	0.0002	< 0.0002	0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007
K [mg/L]	18.6	17.2	0.182
Li [mg/L]	0.0018	0.0018	< 0.0001
Mg [mg/L]	3.72	3.49	0.003


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Project : PO#1124452

LR Report : CA19287-DEC22

Analysis	15: ARDG-000544-T IR01B-10025MS 04-Kwa-s	16: ARDG-000544-T IR01B-10025MS 04-Kwa-s	17:BLK: \$D.I. Leachate Blank
Mn [mg/L]	0.00152	0.00138	0.00027
Mo [mg/L]	0.00422	0.00403	0.00026
Na [mg/L]	18.4	17.7	0.03
Ni [mg/L]	0.0002	0.0002	< 0.0001
Pb [mg/L]	< 0.00009	0.00009	< 0.00009
Sb [mg/L]	0.0050	0.0050	< 0.0009
Se [mg/L]	0.00072	0.00200	0.00004
Si [mg/L]	1.91	1.90	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0590	0.0560	0.00008
Ti [mg/L]	0.00019	0.00098	< 0.00005
Tl [mg/L]	0.000011	0.000017	0.000012
U [mg/L]	0.000259	0.000268	< 0.000002
W [mg/L]	0.00348	0.00373	< 0.00002
V [mg/L]	0.00179	0.00181	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002

Catharine Arnold 
Catharine Arnold, B.Sc., C.Chem
 Project Specialist,
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Project : PO#1124452

LR Report : CA19287-DEC22

SFE 3:1 ratio 24hr (MEND) prefilter pH



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Project : PO#1124452

16-December-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 28 October 2022
LR Report: CA19334-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000483 -TIR01B-1003 5MS05-Kwa-s	ARDG-000484 -TIR01B-1003 5MS05-Kwa-s	ARDG-000485 -TIR01B-1003 5MS05-Kwa-s
Sample Date & Time					14-Oct-22	14-Oct-22	14-Oct-22
Paste pH [no unit]	30-Nov-22	16:15	02-Dec-22	11:03	8.29	8.89	8.64
Fizz Rate [rating]	30-Nov-22	16:15	02-Dec-22	11:03	2	2	3
Sample weight [g]	30-Nov-22	16:15	02-Dec-22	11:03	1.86	1.98	1.92
HCl_add [mL]	30-Nov-22	16:15	02-Dec-22	11:03	30.00	30.00	25.00
HCl [Normality]	30-Nov-22	16:15	02-Dec-22	11:03	0.10	0.10	0.10
NaOH [Normality]	30-Nov-22	16:15	02-Dec-22	11:03	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	30-Nov-22	16:15	02-Dec-22	11:03	13.24	12.42	11.39
Final pH [no unit]	30-Nov-22	16:15	02-Dec-22	11:03	1.65	1.67	1.69
NP [t CaCO3/1000 t]	30-Nov-22	16:15	02-Dec-22	11:03	45.1	44.4	35.4
AP [t CaCO3/1000 t]	02-Dec-22	11:03	02-Dec-22	11:03	4.06	3.44	1.88
Net NP [t CaCO3/1000 t]	02-Dec-22	11:03	02-Dec-22	11:03	41.0	41.0	33.5
NP/AP [ratio]	02-Dec-22	11:03	02-Dec-22	11:03	11.1	12.9	18.9
S [%]	24-Nov-22	19:02	29-Nov-22	13:27	0.191	0.187	0.108
Acid Leachable SO4-S [%]	29-Nov-22	13:27	29-Nov-22	13:27	0.06	0.08	0.05
Sulphide [%]	28-Nov-22	19:14	29-Nov-22	13:27	0.13	0.11	0.06
C [%]	24-Nov-22	19:02	29-Nov-22	13:27	0.697	0.659	0.603
CO3 (HCl) [%]	29-Nov-22	07:25	29-Nov-22	13:27	2.89	2.95	2.51

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000486 -TIR01B-1003 5MS05-Kwa-s	ARDG-000487 -TIR01B-1003 5MS05-Kwa-s	ARDG-000488 -TIR01B-1003 5MS05-Kwa-s	ARDG-000489 -TIR01B-1003 5MS05-Kwa-s	ARDG-000490 -TIR01B-1003 5MS05-Kwa-s	ARDG-000491 -TIR01B-1003 5MS05-Kwa-s
Sample Date & Time	18-Oct-22	18-Oct-22	18-Oct-22	18-Oct-22	18-Oct-22	18-Oct-22
Paste pH [no unit]	8.40	9.23	9.08	9.23	9.01	9.12
Fizz Rate [rating]	3	3	3	3	3	3
Sample weight [g]	1.99	1.91	2.04	1.94	1.89	1.87

Online LIMS

0003161283

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000486	ARDG-000487	ARDG-000488	ARDG-000489	ARDG-000490	ARDG-000491
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	5MS05-Kwa-s	5MS05-Kwa-s	5MS05-Kwa-s	5MS05-Kwa-s	5MS05-Kwa-s	5MS05-Kwa-s
HCl_add [mL]	60.00	40.00	40.00	35.00	40.00	30.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	27.36	16.76	13.40	15.92	17.72	12.17
Final pH [no unit]	1.51	1.59	1.88	1.59	1.56	1.73
NP [t CaCO3/1000 t]	82.0	60.8	65.2	49.2	58.9	47.7
AP [t CaCO3/1000 t]	3.12	5.00	5.31	5.94	5.62	4.69
Net NP [t CaCO3/1000 t]	78.9	55.8	59.9	43.3	53.3	43.0
NP/AP [ratio]	26.2	12.2	12.3	8.29	10.5	10.2
S [%]	0.179	0.280	0.273	0.302	0.282	0.251
Acid Leachable SO4-S [%]	0.08	0.12	0.10	0.11	0.10	0.10
Sulphide [%]	0.10	0.16	0.17	0.19	0.18	0.15
C [%]	1.27	0.993	1.02	0.756	0.858	0.754
CO3 (HCl) [%]	5.85	4.36	4.57	3.37	3.92	3.41

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project : PO#1124452

16-December-2022

Date Rec. : 28 October 2022
LR Report: CA19335-OCT22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000483-T IR01B-10035MS 05-Kwa-s	6: ARDG-000484-T IR01B-10035MS 05-Kwa-s	7: ARDG-000485-T IR01B-10035MS 05-Kwa-s	8: ARDG-000486-T IR01B-10035MS 05-Kwa-s	9: ARDG-000487-T IR01B-10035MS 05-Kwa-s
Sample Date & Time					14-Oct-22	14-Oct-22	14-Oct-22	18-Oct-22	18-Oct-22
Ag [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	83000	81000	83000	82000	76000
As [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	93	96	490	170	680
Ba [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	880	660	890	940	1300
Be [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	2	1	1	1	2
Bi [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	0.54	0.27	0.31	0.18	0.76
Ca [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	13000	14000	10000	23000	16000
Cd [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	0.07	0.06	0.09	0.14	0.09
Co [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	22	21	21	17	20
Cr [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	160	160	160	140	170
Cu [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	54	47	46	39	31
Fe [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	48000	46000	41000	44000	41000
K [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	21000	19000	19000	20000	18000
Li [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	42	34	38	30	29
Mg [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	15000	13000	13000	13000	12000
Mn [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	390	420	350	460	370
Mo [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	1.7	1.4	1.6	1.6	1.7
Ni [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	74	70	71	59	70
Pb [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	36	19	18	16	170
Sb [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	6.1	6.6	< 6	< 6	< 6
Sr [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	290	290	290	450	400
Ti [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	2900	3500	3000	3800	3400
Tl [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	0.59	0.49	0.52	0.53	0.54
U [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	1.99	1.90	1.98	2.06	2.03
V [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	110	100	100	100	95
Y [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	7.48	7.18	7.54	8.96	6.73
Zn [µg/g]	28-Nov-22	23:09	02-Dec-22	11:21	85	79	85	70	67

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Project : PO#1124452

LR Report : CA19335-OCT22

Analysis	10: ARDG-000488-T IR01B-10035MS 05-Kwa-s	11: ARDG-000489-T IR01B-10035MS 05-Kwa-s	12: ARDG-000490-T IR01B-10035MS 05-Kwa-s	13: ARDG-000491-T IR01B-10035MS 05-Kwa-s
Sample Date & Time	18-Oct-22	18-Oct-22	18-Oct-22	18-Oct-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	71000	79000	77000	77000
As [µg/g]	88	130	140	15
Ba [µg/g]	810	860	840	890
Be [µg/g]	1	1	1	1
Bi [µg/g]	0.21	0.37	0.34	0.24
Ca [µg/g]	18000	13000	15000	13000
Cd [µg/g]	0.09	0.07	0.11	0.11
Co [µg/g]	16	21	17	20
Cr [µg/g]	140	160	150	170
Cu [µg/g]	36	47	41	43
Fe [µg/g]	34000	38000	35000	36000
K [µg/g]	19000	18000	18000	19000
Li [µg/g]	25	28	26	31
Mg [µg/g]	11000	12000	11000	11000
Mn [µg/g]	400	320	350	330
Mo [µg/g]	1.2	1.7	1.7	1.8
Ni [µg/g]	50	65	60	63
Pb [µg/g]	32	49	46	12
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6
Sr [µg/g]	340	340	390	390
Ti [µg/g]	2900	3300	3000	2600
Tl [µg/g]	0.52	0.50	0.51	0.54
U [µg/g]	1.68	1.93	1.79	1.76
V [µg/g]	87	90	87	87
Y [µg/g]	6.71	6.10	7.08	6.88
Zn [µg/g]	58	79	71	86

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Project : PO#1124452

18-November-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 28 October 2022
LR Report: CA19336-OCT22
Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000483-T IR01B-10035MS 05-Kwa-s	ARDG-000484-T IR01B-10035MS 05-Kwa-s	ARDG-000485-T IR01B-10035MS 05-Kwa-s	ARDG-000486-T IR01B-10035MS 05-Kwa-s
Sample Date & Time					14-Oct-22	14-Oct-22	14-Oct-22	18-Oct-22
Sample weight [g]	04-Nov-22	10:08	07-Nov-22	10:49	250	250	250	250
Volume D.I. Water [mL]	04-Nov-22	10:08	07-Nov-22	10:49	750	750	750	750
Final pH [no unit]	05-Nov-22	08:13	07-Nov-22	10:49	8.30	8.75	8.71	8.71
pH [No unit]	07-Nov-22	15:42	08-Nov-22	10:26	7.93	7.96	8.06	8.51
Conductivity [uS/cm]	07-Nov-22	15:42	08-Nov-22	10:26	2550	435	544	878
Alkalinity [mg/L as CaCO3]	07-Nov-22	15:42	08-Nov-22	10:26	65	59	67	113
SO4 [mg/L]	15-Nov-22	12:47	17-Nov-22	09:37	110	35	40	9
Hg [mg/L]	08-Nov-22	12:43	11-Nov-22	10:40	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.217	0.496	0.367	0.398
As [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.0250	0.110	0.141	0.0468
Ba [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.03661	0.00461	0.00753	0.0179
B [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.037	0.030	0.040	0.021
Be [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	37.9	14.6	13.7	26.4
Cd [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.000007	0.000007	0.000008	0.000007
Co [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.000705	0.000087	0.000147	0.000165
Cr [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.00057	0.00014	0.00012	0.00037
Cu [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.0003	0.0003	0.0004	0.0006
Fe [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	< 0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	41.0	17.3	18.5	41.1
Li [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.0065	0.0023	0.0041	0.0041
Mg [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	40.6	5.75	7.71	9.74
Mn [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.01556	0.00298	0.00456	0.00513
Mo [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.0179	0.0143	0.0141	0.00665
Na [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	349	42.9	50.1	23.0
Ni [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.0032	0.0009	0.0010	0.0010
Pb [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.00010	< 0.00009	< 0.00009	0.00010
Sb [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.0057	0.0093	0.0088	0.0090
Se [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	0.00063	0.00032	0.00034	0.00032
Si [mg/L]	08-Nov-22	09:12	11-Nov-22	10:40	1.58	1.39	1.63	1.23

Online LIMS

0003127350



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Project : PO#1124452

LR Report : CA19336-OCT22

Table with 9 columns: Analysis, 1: Analysis Start Date, 2: Analysis Start Time, 3: Analysis Date, 4: Analysis Time, 5: ARDG-000483-T IR01B-10035MS 05-Kwa-s, 6: ARDG-000484-T IR01B-10035MS 05-Kwa-s, 7: ARDG-000485-T IR01B-10035MS 05-Kwa-s, 8: ARDG-000486-T IR01B-10035MS 05-Kwa-s. Rows include Sn, Sr, Ti, TI, U, W, V, Zn.

Table with 6 columns: Analysis, 9: ARDG-000487-T IR01B-10035MS 05-Kwa-s, 10: ARDG-000488-T IR01B-10035MS 05-Kwa-s, 11: ARDG-000489-T IR01B-10035MS 05-Kwa-s, 12: ARDG-000490-T IR01B-10035MS 05-Kwa-s, 13: ARDG-000491-T IR01B-10035MS 05-Kwa-s. Rows include Sample Date & Time, Sample weight, Volume D.I. Water, Final pH, pH, Conductivity, Alkalinity, SO4, Hg, Ag, Al, As, Ba, B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, Pb, Sb, Se, Si, Sn, Sr, Ti, TI, U.

Online LIMS

0003127350

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Project : PO#1124452

LR Report : CA19336-OCT22

Analysis	9:	10:	11:	12:	13:
	ARDG-000487-T	ARDG-000488-T	ARDG-000489-T	ARDG-000490-T	ARDG-000491-T
	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS	IR01B-10035MS
	05-Kwa-s	05-Kwa-s	05-Kwa-s	05-Kwa-s	05-Kwa-s
W [mg/L]	0.00829	0.01603	0.00580	0.00470	0.00327
V [mg/L]	0.00321	0.00156	0.00158	0.00108	0.00129
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

Catharine Arnold
 Catharine Arnold, B.Sc., C.Chem
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Project : PO#1124452

16-December-2022

Date Rec. : 30 November 2022
LR Report: CA19343-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000521 -TIR01B-1003 OMS06-kwa-s	ARDG-000522 -TIR01B-1003 OMS06-kwa-s	ARDG-000523 -TIR01B-1003 OMS06-kwa-s
Sample Date & Time					30-Oct-22	30-Oct-22	30-Oct-22
Paste pH [no unit]	14-Dec-22	16:00	16-Dec-22	15:46	8.75	8.52	8.55
Fizz Rate [rating]	14-Dec-22	16:00	16-Dec-22	15:46	3	3	2
Sample weight [g]	14-Dec-22	16:00	16-Dec-22	15:46	1.99	1.93	1.98
HCl_add [mL]	15-Dec-22	14:00	16-Dec-22	15:46	39.70	38.00	37.50
HCl [Normality]	14-Dec-22	16:00	16-Dec-22	15:46	0.10	0.10	0.10
NaOH [Normality]	14-Dec-22	16:00	16-Dec-22	15:46	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Dec-22	14:41	16-Dec-22	15:46	16.06	21.00	22.04
Final pH [no unit]	15-Dec-22	16:01	16-Dec-22	15:46	1.73	1.58	1.57
NP [t CaCO3/1000 t]	16-Dec-22	14:41	16-Dec-22	15:46	59.4	44.0	39.0
AP [t CaCO3/1000 t]	16-Dec-22	15:46	16-Dec-22	15:46	8.75	4.06	4.38
Net NP [t CaCO3/1000 t]	16-Dec-22	15:46	16-Dec-22	15:46	50.6	39.9	34.6
NP/AP [ratio]	16-Dec-22	15:46	16-Dec-22	15:46	6.79	10.8	8.91
S [%]	08-Dec-22	18:00	14-Dec-22	15:07	0.373	0.225	0.235
Acid Leachable SO4-S [%]	14-Dec-22	15:07	14-Dec-22	15:07	0.09	0.10	0.10
Sulphide [%]	14-Dec-22	09:55	14-Dec-22	15:07	0.28	0.13	0.14
C [%]	08-Dec-22	18:00	13-Dec-22	11:45	0.902	0.624	0.593
CO3 (HCl) [%]	13-Dec-22	10:28	13-Dec-22	11:45	4.17	2.84	2.62

Analysis	8:	9:	10:
	ARDG-000524 -TIR01B-1003 OMS06-kwa-s	ARDG-000525 -TIR01B-1003 OMS06-kwa-s	ARDG-000526 -TIR01B-1003 OMS06-kwa-s
Sample Date & Time	30-Oct-22	30-Oct-22	30-Oct-22
Paste pH [no unit]	8.82	8.87	8.69
Fizz Rate [rating]	2	3	3
Sample weight [g]	1.99	2.07	1.99

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Project : PO#1124452

LR Report : CA19343-NOV22

Analysis	8:	9:	10:
	ARDG-000524	ARDG-000525	ARDG-000526
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	OMS06-kwa-s	OMS06-kwa-s	OMS06-kwa-s
HCl_add [mL]	51.40	29.01	27.00
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	24.29	13.68	10.02
Final pH [no unit]	1.70	1.93	1.98
NP [t CaCO3/1000 t]	68.1	37.0	42.7
AP [t CaCO3/1000 t]	4.38	4.06	5.94
Net NP [t CaCO3/1000 t]	63.7	32.9	36.8
NP/AP [ratio]	15.6	9.11	7.19
S [%]	0.244	0.218	0.247
Acid Leachable SO4-S [%]	0.10	0.09	0.06
Sulphide [%]	0.14	0.13	0.19
C [%]	1.02	0.647	0.770
CO3 (HCl) [%]	4.67	2.74	3.31

ABA - Modified Sobek

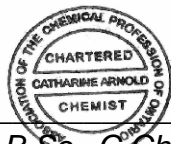
$$*NP \text{ (Neutralization Potential)} = \frac{50 \times (N \text{ of HCL} \times \text{Total HCL added} - N \text{ NaOH} \times \text{NaOH added})}{\text{Weight of Sample}}$$

*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 <0.04 will be calculated using a 0.04 value.

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16-December-2022

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CERTIFICATE OF ANALYSIS

Final Report

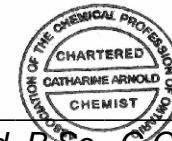
Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:
	Analysis Start	Analysis Start	Analysis	Analysis	Analysis ARDG-000521-T	Analysis ARDG-000522-T	Analysis ARDG-000523-T	Analysis ARDG-000524-T	Analysis ARDG-000525-T	Analysis ARDG-000526-T
	Date	Time Completed	DateCompleted	Time	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS	IR01B-10030MS
					06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s
Sample Date & Time					30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22
Ag [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	69000	75000	67000	74000	80000	76000
As [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	140	100	83	170	120	150
Ba [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	4600	710	680	4600	690	650
Be [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	3	2	2	2	1	1
Bi [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.30	0.33	0.37	0.40	0.28	0.21
Ca [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	17000	11000	9800	19000	11000	12000
Cd [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.15	0.09	0.08	0.09	0.06	0.07
Co [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	20	23	20	21	22	18
Cr [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	49	85	110	56	58	46
Cu [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	45	52	42	57	48	47
Fe [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	45000	44000	45000	45000	44000	41000
K [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	24000	20000	19000	23000	20000	20000
Li [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	48	46	46	49	44	41
Mg [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	16000	15000	15000	15000	15000	14000
Mn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	470	370	340	450	360	370
Mo [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	2.7	3.1	3.5	3.0	2.6	2.4
Ni [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	72	74	73	72	72	66
Pb [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	170	28	37	71	23	16
Sb [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8

OnLine LIMS

0003162052

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: ARDG-000521-T IR01B-10030MS 06-kwa-s	6: ARDG-000522-T IR01B-10030MS 06-kwa-s	7: ARDG-000523-T IR01B-10030MS 06-kwa-s	8: ARDG-000524-T IR01B-10030MS 06-kwa-s	9: ARDG-000525-T IR01B-10030MS 06-kwa-s	10: ARDG-000526-T IR01B-10030MS 06-kwa-s
Se [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	630	250	250	710	270	260
Ti [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	4000	2400	2800	4400	2400	2000
Tl [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.76	0.53	0.50	0.69	0.49	0.53
U [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	1.86	2.03	1.38	1.80	2.04	1.87
V [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	90	90	89	89	86	83
Y [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	8.38	6.80	5.02	8.26	6.73	6.45
Zn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	100	86	86	88	83	82

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Project : PO#1124452

16-December-2022

Date Rec. : 30 November 2022
 LR Report: CA19345-NOV22
 Reference: Meliadine

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CERTIFICATE OF ANALYSIS

Final Report


Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:	10:	11:	12:BLK:
	Analysis Start	Analysis Start	Analysis	Analysis ARDG-000521-T	Analysis ARDG-000522-T	Analysis ARDG-000523-T	Analysis ARDG-000524-T	Analysis ARDG-000525-T	Analysis ARDG-000526-T	Analysis ARDG-000527-T	Analysis ARDG-000528-T	\$D.I. Leachate
	Date	Time Completed	Date Completed	Time IR01B-10030MS	Time IR01B-10030MS	Time IR01B-10030MS	Time IR01B-10030MS	Time IR01B-10030MS	Time IR01B-10030MS	Time IR01B-10030MS	Time IR01B-10030MS	Blank
				06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	06-kwa-s	
Sample Date & Time				30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22	30-Oct-22		
Sample weight [g]	09-Dec-22	10:51	12-Dec-22	08:03	250	250	250	250	250	250	250	---
Volume D.I. Water [mL]	09-Dec-22	10:51	12-Dec-22	08:03	750	750	750	750	750	750	750	750
Final pH [no unit]	10-Dec-22	09:04	12-Dec-22	08:03	8.94	8.72	8.77	9.00	9.08	8.94	8.95	5.68
pH [No unit]	12-Dec-22	07:52	13-Dec-22	12:22	8.16	8.15	7.76	8.10	8.23	8.40	8.33	5.98
Conductivity [uS/cm]	12-Dec-22	07:52	12-Dec-22	15:34	322	876	500	532	290	413	386	< 2
Alkalinity [mg/L as CaCO3]	12-Dec-22	07:52	12-Dec-22	15:34	58	50	49	61	58	51	49	< 2
SO4 [mg/L]	15-Dec-22	10:38	15-Dec-22	15:45	25	61	44	33	30	53	49	< 2
Hg [mg/L]	13-Dec-22	13:55	14-Dec-22	09:22	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00001	0.00002	< 0.00001
Ag [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00076	0.00014	0.00090	0.00009	< 0.00005	< 0.00005	0.00033	< 0.00005
Al [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.530	0.329	0.330	0.078	0.463	0.450	0.474	0.001
As [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.214	0.0985	0.0496	1.49	0.0978	0.0984	0.105	< 0.0002
Ba [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.0325	0.00836	0.00557	0.761	0.00400	0.00397	0.0539	< 0.00008
B [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.008	0.052	0.049	1.20	0.028	0.038	0.031	< 0.002
Be [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	9.65	19.7	11.8	14.8	13.6	14.6	13.0	< 0.01
Cd [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.000006	0.000007	0.000008	0.000567	< 0.000003	0.000006	0.000003	< 0.000003
Co [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.000058	0.000149	0.000082	0.000893	0.000036	0.000056	0.000094	0.000007
Cr [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	< 0.00008	< 0.00008	0.00009	0.00049	< 0.00008	< 0.00008	< 0.00008	< 0.00008

OnLine LIMS

0003162058

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: ARDG-000521-T IR01B-10030MS 06-kwa-s	6: ARDG-000522-T IR01B-10030MS 06-kwa-s	7: ARDG-000523-T IR01B-10030MS 06-kwa-s	8: ARDG-000524-T IR01B-10030MS 06-kwa-s	9: ARDG-000525-T IR01B-10030MS 06-kwa-s	10: ARDG-000526-T IR01B-10030MS 06-kwa-s	11: ARDG-000526-T IR01B-10030MS 06-kwa-s	12:BLK: \$D.I. Leachate Blank
Cu [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.0002	< 0.0002	< 0.0002	0.0011	< 0.0002	0.0004	0.0002	< 0.0002
Fe [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	< 0.007	< 0.007	0.008	0.034	< 0.007	0.011	< 0.007	< 0.007
K [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	25.6	28.9	20.1	7.81	20.4	22.0	30.0	0.046
Li [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.0019	0.0020	0.0016	0.0033	0.0012	0.0013	0.0026	< 0.0001
Mg [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	4.56	12.2	7.05	4.00	5.52	5.97	6.43	0.002
Mn [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00228	0.00665	0.00519	0.00197	0.00236	0.00265	0.00179	0.00010
Mo [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.0152	0.0197	0.0131	2.57	0.00825	0.00951	0.00854	0.00026
Na [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	28.2	96.6	53.5	243	34.7	38.4	54.5	0.02
Ni [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.0003	0.0007	0.0004	0.0064	0.0003	0.0003	0.0003	< 0.0001
Pb [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00033	0.00013	< 0.00009	0.00567	< 0.00009	< 0.00009	0.00021	< 0.00009
Sb [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.0092	0.0054	0.0031	0.0141	0.0061	0.0056	0.0083	< 0.0009
Se [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00077	0.00047	0.00041	0.00073	0.00048	0.00066	0.00063	< 0.00004
Si [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	1.57	1.39	1.42	1.88	1.43	1.42	1.47	< 0.02
Sn [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00011	0.00014	0.00016	0.00015	0.00014	0.00014	0.00013	< 0.00006
Sr [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.123	0.122	0.0749	0.0442	0.0739	0.0870	0.201	< 0.00008
Ti [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00013	< 0.00005	0.00024	0.00081	0.00009	0.00010	< 0.00005	0.00032
Tl [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.000015	0.000017	0.000010	< 0.000005	0.000011	0.000010	0.000025	< 0.000005
U [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.000135	0.000330	0.000363	0.00130	0.000499	0.000512	0.000700	< 0.000002
W [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00974	0.00370	0.00212	0.659	0.00237	0.00274	0.00374	< 0.00002
V [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	0.00153	0.00070	0.00063	0.00106	0.00113	0.00105	0.00138	< 0.00001
Zn [mg/L]	14-Dec-22	12:14	15-Dec-22	17:25	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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Project : PO#1124452

21-December-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 30 November 2022
LR Report: CA19346-NOV22

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CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed
Sample Date & Time					02-Nov-22	02-Nov-22	02-Nov-22	02-Nov-22
Paste pH [no unit]	16-Dec-22	16:45	19-Dec-22	16:23	9.03	9.01	9.05	9.01
Fizz Rate [rating]	15-Dec-22	16:00	19-Dec-22	16:23	2	2	2	2
Sample weight [g]	15-Dec-22	16:00	19-Dec-22	16:23	2.09	2.02	2.05	2.02
HCl_add [mL]	16-Dec-22	14:00	19-Dec-22	16:23	28.30	27.30	28.80	27.30
HCl [Normality]	15-Dec-22	16:00	19-Dec-22	16:23	0.10	0.10	0.10	0.10
NaOH [Normality]	15-Dec-22	16:00	19-Dec-22	16:23	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Dec-22	22:02	19-Dec-22	16:23	13.56	14.03	14.04	12.66
Final pH [no unit]	16-Dec-22	16:00	19-Dec-22	16:23	1.89	1.86	1.90	1.80
NP [t CaCO3/1000 t]	16-Dec-22	22:02	19-Dec-22	16:23	35.3	32.8	36.0	36.2
AP [t CaCO3/1000 t]	19-Dec-22	16:23	19-Dec-22	16:23	5.00	4.69	6.56	5.94
Net NP [t CaCO3/1000 t]	19-Dec-22	16:23	19-Dec-22	16:23	30.3	28.1	29.4	30.3
NP/AP [ratio]	19-Dec-22	16:23	19-Dec-22	16:23	7.06	7.00	5.49	6.10
S [%]	13-Dec-22	14:02	15-Dec-22	16:23	0.251	0.241	0.293	0.332
S [%]	20-Dec-22	13:20	20-Dec-22	14:37	---	---	---	---
Acid Leachable SO4-S [%]	15-Dec-22	16:22	15-Dec-22	16:23	0.09	0.09	0.08	0.14
Sulphide [%]	15-Dec-22	09:32	15-Dec-22	16:23	0.16	0.15	0.21	0.19
C [%]	13-Dec-22	14:02	15-Dec-22	16:23	0.491	0.456	0.518	0.542
CO3 (HCl) [%]	15-Dec-22	08:37	15-Dec-22	16:23	2.22	1.99	2.39	2.44

Analysis	9:	10:	11:	12:	13:	14:	15:	16:
	Analysis Start Date	Analysis Start Time	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed	Analysis Date Completed
Sample Date & Time	04-Nov-22	04-Nov-22	04-Nov-22	05-Nov-22	05-Nov-22	05-Nov-22	05-Nov-22	05-Nov-22
Paste pH [no unit]	9.08	8.88	8.84	9.07	9.05	9.03	8.95	8.06
Fizz Rate [rating]	2	3	2	2	3	2	3	2
Sample weight [g]	2.02	1.98	2.02	2.03	2.00	1.91	1.92	2.08
HCl_add [mL]	27.80	38.00	29.50	28.60	29.30	38.61	39.60	39.00
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	12.87	21.41	13.07	14.12	13.07	20.00	17.74	18.76
Final pH [no unit]	1.97	1.62	1.91	1.77	1.89	1.66	1.66	1.82
NP [t CaCO3/1000 t]	37.0	41.9	40.7	35.7	40.6	48.7	56.9	48.7

Online LIMS

0003167566

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Project : PO#1124452

LR Report : CA19346-NOV22

Analysis	9: ARDG-000511-T IR01B-10030MS 01-kwa-s	10: ARDG-000512-T IR01B-10030MS 01-kwa-s	11: ARDG-000513-T IR01B-10030MS 01-kwa-s	12: ARDG-000514-T IR01B-10030MS 01-kwa-s	13: ARDG-000515-T IR01B-10030MS 01-kwa-s	14: ARDG-000516-T IR01B-10030MS 01-kwa-s	15: ARDG-000517-T IR01B-10030MS 01-kwa-s	16: ARDG-000518-T IR01B-10030MS 01-kwa-s
AP [t CaCO3/1000 t]	4.06	3.44	4.06	4.06	6.56	7.81	9.69	50.6
Net NP [t CaCO3/1000 t]	32.9	38.5	36.6	31.6	34.0	40.9	47.2	-1.92
NP/AP [ratio]	9.11	12.2	10.0	8.79	6.19	6.23	5.87	0.96
S [%]	0.222	0.213	0.200	0.206	0.303	0.332	0.460	1.67
S [%]	---	---	---	---	---	---	---	1.63
Acid Leachable SO4-S [%]	0.09	0.10	0.07	0.08	0.09	0.08	0.15	0.05
Sulphide [%]	0.13	0.11	0.13	0.13	0.21	0.25	0.31	1.62
C [%]	0.579	0.628	0.626	0.533	0.711	0.761	1.05	0.986
CO3 (HCl) [%]	2.70	2.79	2.81	2.35	2.78	3.44	4.17	4.43

ABA - Modified Sobek

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

 Weight of Sample

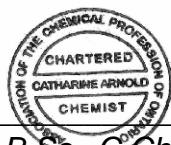
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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 <0.04 will be calculated using a 0.04 value.

Revised with sample dates corrected.

Catharine Arnold

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Project : PO#1124452

21-December-2022

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 30 November 2022

LR Report: CA19347-NOV22

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CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1:	2:	3:	4:	5:	6:	7:	8:	9:
	Analysis Start Date	Analysis Start Time Completed	Analysis Date Completed	Analysis ARDG-000507-T IR01B-10030MS	Analysis ARDG-000508-T IR01B-10030MS	Analysis ARDG-000509-T IR01B-10030MS	Analysis ARDG-000510-T IR01B-10030MS	Analysis ARDG-000511-T IR01B-10030MS	Analysis ARDG-000511-T IR01B-10030MS
				01-kwa-s	01-kwa-s	01-kwa-s	01-kwa-s	01-kwa-s	01-kwa-s
Sample Date & Time				02-Nov-22	02-Nov-22	02-Nov-22	02-Nov-22	02-Nov-22	04-Nov-22
Ag [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	82000	79000	66000	61000	56000
As [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	97	53	17	19	69
Ba [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	650	650	710	680	500
Be [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	1	1	1	1	1
Bi [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.24	0.23	0.22	0.32	0.20
Ca [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	12000	12000	13000	12000	10000
Cd [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.06	0.11	0.07	0.11	0.08
Co [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	20	18	18	18	21
Cr [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	62	63	54	58	73
Cu [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	59	54	43	41	52
Fe [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	45000	42000	41000	40000	40000
K [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	19000	19000	15000	15000	17000
Li [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	50	47	40	40	41
Mg [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	15000	14000	12000	12000	14000
Mn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	360	330	280	280	320
Mo [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	2.8	2.9	3.3	2.9	2.7
Ni [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	70	68	58	56	70
Pb [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	14	14	14	23	14
Sb [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8
Se [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	260	260	280	260	200
Ti [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	1200	1000	1500	1500	1600
Tl [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	0.46	0.47	0.41	0.40	0.43
U [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	1.98	2.00	1.47	1.38	1.05
V [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	87	81	62	58	67
Y [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	7.65	7.53	5.17	4.67	3.93
Zn [µg/g]	14-Dec-22	10:08	16-Dec-22	10:12	83	79	76	74	76

SGS Canada Inc.


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LR Report : CA19347-NOV22

Analysis	10: ARDG-000512-T IR01B-10030MS 01-kwa-s	11: ARDG-000513-T IR01B-10030MS 01-kwa-s	12: ARDG-000514-T IR01B-10030MS 01-kwa-s	13: ARDG-000515-T IR01B-10030MS 01-kwa-s	14: ARDG-000516-T IR01B-10030MS 01-kwa-s	15: ARDG-000517-T IR01B-10030MS 01-kwa-s	16: ARDG-000518-T IR01B-10030MS 01-kwa-s
Sample Date & Time	04-Nov-22	04-Nov-22	05-Nov-22	05-Nov-22	05-Nov-22	05-Nov-22	05-Nov-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8
Al [µg/g]	71000	73000	73000	58000	77000	74000	58000
As [µg/g]	68	60	20	140	1400	200	230
Ba [µg/g]	590	560	720	650	880	840	260
Be [µg/g]	1	1	1	1	1	1	1
Bi [µg/g]	0.26	0.28	0.28	0.32	0.67	0.29	0.17
Ca [µg/g]	11000	12000	12000	14000	15000	18000	19000
Cd [µg/g]	0.10	0.10	0.05	0.08	0.08	0.11	0.13
Co [µg/g]	19	20	20	18	19	17	13
Cr [µg/g]	96	65	61	63	73	74	77
Cu [µg/g]	53	49	48	49	48	47	61
Fe [µg/g]	41000	40000	39000	34000	44000	55000	110000
K [µg/g]	19000	18000	18000	15000	21000	17000	11000
Li [µg/g]	45	42	43	34	42	43	47
Mg [µg/g]	14000	14000	13000	11000	15000	13000	12000
Mn [µg/g]	360	360	290	300	380	390	790
Mo [µg/g]	2.9	2.9	3.2	3.9	4.2	2.8	3.3
Ni [µg/g]	68	65	63	58	69	60	46
Pb [µg/g]	15	15	11	22	32	15	9
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	0.8	< 0.8	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	250	260	280	280	300	290	190
Ti [µg/g]	1500	1300	1400	1500	1900	3400	2900
Tl [µg/g]	0.50	0.47	0.45	0.40	0.51	0.46	0.29
U [µg/g]	2.05	1.90	1.80	1.38	1.73	1.81	1.43
V [µg/g]	73	73	71	62	82	71	60
Y [µg/g]	5.55	5.79	6.41	4.39	7.40	7.13	6.60
Zn [µg/g]	85	81	74	70	82	76	85

Revised sample dates.

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Project : PO#1124452

10-January-2023

Date Rec. : 30 November 2022
LR Report: CA19348-NOV22
Reference: Meliadine

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000507 -TIR01B-1003 OMS01-kwa-s	ARDG-000508 -TIR01B-1003 OMS01-kwa-s	ARDG-000509 -TIR01B-1003 OMS01-kwa-s
Sample Date & Time					02-Nov-22	02-Nov-22	02-Nov-22
Sample weight [g]	19-Dec-22	09:30	21-Dec-22	15:58	250	250	250
Volume D.I. Water [mL]	19-Dec-22	09:30	21-Dec-22	15:58	750	750	750
Final pH [no unit]	21-Dec-22	15:08	21-Dec-22	15:58	9.01	9.02	8.99
pH [No unit]	22-Dec-22	09:34	23-Dec-22	08:56	8.02	8.01	8.07
Conductivity [uS/cm]	22-Dec-22	09:34	23-Dec-22	08:56	287	267	265
Alkalinity [mg/L as CaCO3]	22-Dec-22	09:34	23-Dec-22	08:56	48	46	48
SO4 [mg/L]	22-Dec-22	14:10	28-Dec-22	16:17	24	23	36
Hg [mg/L]	23-Dec-22	08:32	23-Dec-22	08:42	< 0.00001	< 0.00001	0.00009
Ag [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.636	0.660	0.581
As [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.0301	0.0273	0.0273
Ba [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.00239	0.00224	0.00494
B [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.016	0.018	0.017
Be [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	9.31	9.13	10.7
Cd [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.000003	0.000013	< 0.000003
Co [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.000034	0.000020	0.000016
Cr [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.00082	0.00084	0.00058
Cu [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.0006	0.0005	0.0004
Fe [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.008	0.008	0.008
K [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	19.0	18.7	18.0
Li [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.0012	0.0011	0.0015
Mg [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	2.42	2.33	3.16
Mn [mg/L]	23-Dec-22	04:32	29-Dec-22	13:07	0.00099	0.00100	0.00115
Mo [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.00954	0.00954	0.00928

Online LIMS

0003187835

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000507 -TIR01B-1003 OMS01-kwa-s	6: ARDG-000508 -TIR01B-1003 OMS01-kwa-s	7: ARDG-000509 -TIR01B-1003 OMS01-kwa-s
Na [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	28.1	27.5	24.2
Ni [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.0003	0.0003	0.0003
Pb [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.0055	0.0053	0.0075
Se [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.00036	0.00012	0.00046
Si [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	1.65	1.65	1.81
Sn [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.0438	0.0419	0.0533
Ti [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.00011	0.00016	0.00015
Tl [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.000006	0.000010	0.000007
U [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.000074	0.000072	0.000131
V [mg/L]	23-Dec-22	04:32	29-Dec-22	13:08	0.00170	0.00176	0.00145
Zn [mg/L]	23-Dec-22	04:32	30-Dec-22	10:26	< 0.002	< 0.002	< 0.002

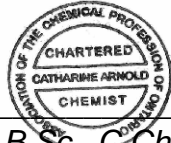
Analysis	8: ARDG-000510 -TIR01B-1003 OMS01-kwa-s	9: ARDG-000511 -TIR01B-1003 OMS01-kwa-s	10: ARDG-000512 -TIR01B-1003 OMS01-kwa-s	11: ARDG-000513 -TIR01B-1003 OMS01-kwa-s	12: ARDG-000514 -TIR01B-1003 OMS01-kwa-s	13: ARDG-000515 -TIR01B-1003 OMS01-kwa-s
Sample Date & Time	02-Nov-22	04-Nov-22	04-Nov-22	04-Nov-22	05-Nov-22	05-Nov-22
Sample weight [g]	250	250	251	250	250	250
Volume D.I. Water [mL]	750	750	750	750	750	750
Final pH [no unit]	9.01	9.13	9.02	8.93	9.00	8.98
pH [No unit]	8.10	8.09	7.99	8.00	8.07	8.03
Conductivity [uS/cm]	256	212	354	366	237	276
Alkalinity [mg/L as CaCO3]	47	56	52	49	49	48
SO4 [mg/L]	34	17	44	49	32	70
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.00008	0.00009
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.579	0.676	0.476	0.451	0.704	0.523
As [mg/L]	0.0304	0.0491	0.0455	0.0395	0.0191	0.0949
Ba [mg/L]	0.00406	0.00218	0.00338	0.00349	0.00289	0.00433
B [mg/L]	0.016	0.017	0.024	0.025	0.013	0.013
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10.0	8.91	13.2	14.0	10.8	13.8
Cd [mg/L]	< 0.000003	< 0.000003	< 0.000003	0.000005	0.000008	0.000003
Co [mg/L]	0.000023	0.000037	0.000058	0.000037	0.000413	0.000065
Cr [mg/L]	0.00038	0.00111	0.00104	0.00112	0.00026	0.00119
Cu [mg/L]	0.0003	0.0008	0.0005	0.0004	0.0008	0.0006
Fe [mg/L]	< 0.007	0.010	0.009	0.009	0.011	0.011
K [mg/L]	16.7	16.3	21.3	20.0	17.1	19.9

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000510	ARDG-000511	ARDG-000512	ARDG-000513	ARDG-000514	ARDG-000515
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	OMS01-kwa-s	OMS01-kwa-s	OMS01-kwa-s	OMS01-kwa-s	OMS01-kwa-s	OMS01-kwa-s
Li [mg/L]	0.0014	0.0015	0.0015	0.0015	0.0012	0.0018
Mg [mg/L]	2.92	2.70	4.77	4.82	3.13	5.07
Mn [mg/L]	0.00105	0.00102	0.00213	0.00198	0.00121	0.00293
Mo [mg/L]	0.00850	0.0100	0.0128	0.0124	0.00656	0.0114
Na [mg/L]	23.1	16.3	35.3	35.8	16.6	19.7
Ni [mg/L]	0.0002	0.0003	0.0007	0.0005	0.0002	0.0003
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	0.00011	< 0.00009
Sb [mg/L]	0.0078	0.0058	0.0045	0.0040	0.0049	0.0051
Se [mg/L]	0.00033	0.00034	0.00061	0.00047	0.00064	0.00129
Si [mg/L]	1.72	1.69	1.91	1.80	1.63	2.00
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0515	0.0363	0.0587	0.0640	0.0487	0.0749
Ti [mg/L]	0.00018	0.00019	0.00010	0.00016	0.00024	0.00023
Tl [mg/L]	0.000007	0.000007	0.000009	0.000009	0.000019	0.000011
U [mg/L]	0.000124	0.000161	0.000109	0.000114	0.000405	0.000575
V [mg/L]	0.00158	0.00175	0.00117	0.00108	0.00164	0.00164
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	14:	15:	16:	17:	18:BLK:
	ARDG-000516	ARDG-000517	ARDG-000518	ARDG-000518	\$D.I. Leachate
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	Blank
	OMS01-kwa-s	OMS01-kwa-s	OMS01-kwa-s	OMS01-kwa-s	
Sample Date & Time	05-Nov-22	05-Nov-22	05-Nov-22		
Sample weight [g]	250	250	250	250	---
Volume D.I. Water [mL]	750	750	750	750	750
Final pH [no unit]	9.01	9.02	8.15	8.10	5.74
pH [No unit]	8.22	7.04	7.90	7.85	5.69
Conductivity [uS/cm]	220	201	674	737	< 2
Alkalinity [mg/L as CaCO3]	48	62	56	54	2
SO4 [mg/L]	61	20	170	220	< 2
Hg [mg/L]	< 0.00001	0.00008	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.553	0.687	0.136	0.100	< 0.001
As [mg/L]	0.180	0.0558	0.0041	0.0025	< 0.0002
Ba [mg/L]	0.00408	0.00294	0.01784	0.02008	< 0.00008
B [mg/L]	0.013	0.017	0.014	0.015	< 0.002
Be [mg/L]	< 0.000007	< 0.000007	< 0.000007	< 0.000007	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	13.9	10.4	65.1	76.5	0.02
Cd [mg/L]	0.000008	< 0.000003	0.000011	0.000005	< 0.000003
Co [mg/L]	0.000041	0.000021	0.000185	0.000207	< 0.000004

Analysis	14: ARDG-000516 -TIR01B-1003 OMS01-kwa-s	15: ARDG-000517 -TIR01B-1003 OMS01-kwa-s	16: ARDG-000518 -TIR01B-1003 OMS01-kwa-s	17: ARDG-000518 -TIR01B-1003 OMS01-kwa-s	18:BLK: \$D.I. Leachate Blank
Cr [mg/L]	0.00018	0.00084	0.00030	0.00031	0.00021
Cu [mg/L]	0.0004	0.0004	0.0005	0.0006	0.0003
Fe [mg/L]	< 0.007	0.009	< 0.007	< 0.007	0.008
K [mg/L]	19.7	19.8	18.0	18.2	0.038
Li [mg/L]	0.0017	0.0016	0.0035	0.0041	< 0.0001
Mg [mg/L]	4.80	3.40	12.1	14.2	0.003
Mn [mg/L]	0.00229	0.00144	0.04898	0.07207	0.00024
Mo [mg/L]	0.00859	0.00894	0.00528	0.00490	0.00006
Na [mg/L]	13.3	17.5	28.5	30.1	< 0.01
Ni [mg/L]	0.0002	0.0004	0.0004	0.0004	< 0.0001
Pb [mg/L]	< 0.00009	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0072	0.0077	0.0015	0.0011	< 0.0009
Se [mg/L]	0.00076	0.00099	0.00072	0.00078	0.00006
Si [mg/L]	1.78	1.66	1.43	1.56	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0733	0.0499	0.300	0.338	< 0.00008
Ti [mg/L]	0.00009	0.00008	0.00022	0.00005	0.00012
Tl [mg/L]	0.000012	< 0.000005	0.000009	0.000011	< 0.000005
U [mg/L]	0.000412	0.000188	0.000228	0.000238	< 0.000002
V [mg/L]	0.00179	0.00131	0.00012	0.00007	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3:1 ratio 24hr (MEND) prefilter pH

Catharine Arnold

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Project Specialist,
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mel

Project : PO#1124452

10-January-2023

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 30 November 2022
LR Report: CA19356-NOV22
Reference: Meliadine - PO#1124452

Meliadine
, Nunavut
X0C 0A0, Canada

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

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	ARDG-000519 -TIR01B-1003 OMS05-kwa-s	ARDG-000520 -TIR01B-1003 OMS05-kwa-s	ARDG-000527 -TIR01B-1003 OMS05-kwa-s
Sample Date & Time					11-Nov-22	11-Nov-22	11-Nov-22
Paste pH [no unit]	04-Jan-23	09:58	06-Jan-23	09:15	9.13	8.92	9.01
Fizz Rate [rating]	04-Jan-23	09:58	06-Jan-23	09:15	3	2	2
Sample weight [g]	04-Jan-23	09:58	06-Jan-23	09:15	2.00	1.99	1.97
HCl_add [mL]	04-Jan-23	09:58	06-Jan-23	09:15	30.00	29.40	36.70
HCl [Normality]	04-Jan-23	09:58	06-Jan-23	09:15	0.10	0.10	0.10
NaOH [Normality]	04-Jan-23	09:58	06-Jan-23	09:15	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	04-Jan-23	09:58	06-Jan-23	09:15	12.77	12.02	17.71
Final pH [no unit]	04-Jan-23	09:58	06-Jan-23	09:15	1.59	1.89	1.56
NP [t CaCO3/1000 t]	04-Jan-23	09:58	06-Jan-23	09:15	43.1	43.7	48.2
AP [t CaCO3/1000 t]	06-Jan-23	16:33	06-Jan-23	16:33	5.31	4.06	5.00
Net NP [t CaCO3/1000 t]	06-Jan-23	16:33	06-Jan-23	16:33	37.8	39.6	43.2
NP/AP [ratio]	06-Jan-23	16:33	06-Jan-23	16:33	8.11	10.8	9.64
S [%]	05-Jan-23	13:25	06-Jan-23	16:33	0.224	0.191	0.223
Acid Leachable SO4-S [%]	06-Jan-23	16:33	06-Jan-23	16:33	0.05	0.06	0.06
Sulphide [%]	06-Jan-23	14:09	06-Jan-23	16:33	0.17	0.13	0.16
C [%]	05-Jan-23	13:25	06-Jan-23	15:17	0.597	0.670	0.710
CO3 (HCl) [%]	06-Jan-23	11:06	06-Jan-23	15:17	2.54	2.86	3.22

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000528 -TIR01B-1003 OMS05-kwa-s	ARDG-000529 -TIR01B-1003 OMS05-kwa-s	ARDG-000530 -TIR01B-1003 OMS05-kwa-s	ARDG-000531 -TIR01B-1003 OMS05-kwa-s	ARDG-000532 -TIR01B-1003 OMS05-kwa-s	ARDG-000533 -TIR01B-1003 OMS05-kwa-s
Sample Date & Time	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22
Paste pH [no unit]	9.08	9.09	8.73	9.02	8.70	9.02
Fizz Rate [rating]	2	3	4	2	2	3

Online LIMS

0003187832

Analysis	8:	9:	10:	11:	12:	13:
	ARDG-000528	ARDG-000529	ARDG-000530	ARDG-000531	ARDG-000532	ARDG-000533
	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003	-TIR01B-1003
	OMS05-kwa-s	OMS05-kwa-s	OMS05-kwa-s	OMS05-kwa-s	OMS05-kwa-s	OMS05-kwa-s
Sample weight [g]	1.98	1.98	1.90	2.10	2.01	1.96
HCl_add [mL]	46.60	37.80	53.40	36.60	34.50	28.90
HCl [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23.64	19.45	19.56	17.49	17.61	11.99
Final pH [no unit]	1.65	1.63	1.71	1.64	1.54	1.84
NP [t CaCO3/1000 t]	58.0	46.3	89.0	45.5	42.0	43.1
AP [t CaCO3/1000 t]	8.44	3.44	9.38	4.69	11.2	5.00
Net NP [t CaCO3/1000 t]	49.6	42.9	79.6	40.8	30.8	38.1
NP/AP [ratio]	6.87	13.5	9.49	9.71	3.73	8.62
S [%]	0.332	0.166	0.351	0.198	0.384	0.210
Acid Leachable SO4-S [%]	0.06	0.06	0.05	0.05	< 0.04	0.05
Sulphide [%]	0.27	0.11	0.30	0.15	0.36	0.16
C [%]	0.781	0.640	1.10	0.695	0.702	0.649
CO3 (HCl) [%]	3.60	2.76	5.17	3.07	2.99	2.76

ABA - Modified Sobek

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

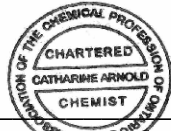
Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project Specialist,
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SGS Canada Inc.

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18-January-2023

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 30 November 2022
LR Report: CA19357-NOV22

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

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Date Completed	4: Analysis Date Completed	5: ARDG-000519-T IR01B-10030MS 05-kwa-s	6: ARDG-000520-T IR01B-10030MS 05-kwa-s	7: ARDG-000527-T IR01B-10030MS 05-kwa-s
Sample Date & Time					11-Nov-22	11-Nov-22	11-Nov-22
Ag [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	< 0.5	< 0.5	< 0.5
Al [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	43000	50000	49000
As [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	46	260	200
Ba [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	450	760	760
Be [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	1	2	2
Bi [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	0.36	0.37	0.39
Ca [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	13000	9700	11000
Cd [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	0.16	0.11	0.11
Co [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	16	21	19
Cr [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	91	95	82
Cu [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	37	44	37
Fe [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	30000	42000	40000
K [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	14000	23000	21000
Li [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	35	59	51
Mg [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	9600	16000	16000
Mn [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	280	260	320
Mo [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	2.5	2.9	2.1
Ni [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	51	72	64
Pb [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	15	31	35
Sb [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	< 0.8	< 0.8	0.8
Se [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	< 0.7	< 0.7	< 0.7
Sn [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	< 6	< 6	< 6
Sr [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	240	210	200
Ti [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	2400	2700	2500
Tl [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	0.34	0.56	0.60
U [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	0.61	2.03	1.94
V [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	64	94	86
Y [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	3.58	4.59	3.97
Zn [µg/g]	11-Jan-23	00:57	12-Jan-23	10:08	63	80	70

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LR Report : CA19357-NOV22

Analysis	8: ARDG-000528-T IR01B-10030MS 05-kwa-s	9: ARDG-000529-T IR01B-10030MS 05-kwa-s	10: ARDG-000530-T IR01B-10030MS 05-kwa-s	11: ARDG-000531-T IR01B-10030MS 05-kwa-s	12: ARDG-000532-T IR01B-10030MS 05-kwa-s	13: ARDG-000533-T IR01B-10030MS 05-kwa-s
Sample Date & Time	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	54000	60000	60000	64000	58000	50000
As [µg/g]	140	88	31	150	270	18
Ba [µg/g]	610	1000	830	750	890	970
Be [µg/g]	1	2	1	2	2	1
Bi [µg/g]	0.39	0.44	0.93	0.40	0.50	0.46
Ca [µg/g]	11000	11000	31000	11000	10000	11000
Cd [µg/g]	0.11	0.11	0.17	0.09	0.09	0.06
Co [µg/g]	19	19	16	19	18	17
Cr [µg/g]	92	82	50	84	140	75
Cu [µg/g]	40	41	41	40	41	45
Fe [µg/g]	36000	44000	46000	44000	47000	38000
K [µg/g]	19000	19000	15000	21000	21000	18000
Li [µg/g]	38	53	46	50	47	48
Mg [µg/g]	13000	17000	13000	16000	15000	14000
Mn [µg/g]	280	300	560	350	300	250
Mo [µg/g]	3.3	2.5	1.9	2.2	2.7	2.1
Ni [µg/g]	61	66	55	66	60	57
Pb [µg/g]	16	91	77	21	99	14
Sb [µg/g]	< 0.8	< 0.8	< 0.8	< 0.8	1.0	< 0.8
Se [µg/g]	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Sn [µg/g]	< 6	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	220	270	360	240	240	270
Ti [µg/g]	1700	1600	2400	3000	2700	970
Tl [µg/g]	0.47	0.47	0.37	0.53	0.50	0.46
U [µg/g]	1.62	1.88	1.65	1.92	1.88	1.65
V [µg/g]	80	87	78	91	90	72
Y [µg/g]	4.54	4.51	5.56	4.19	4.28	4.07
Zn [µg/g]	59	83	68	75	75	73

Catharine Arnold
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 Project Specialist,
 Environment, Health & Safety



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Project : PO#1124452

11-January-2023

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 30 November 2022
LR Report: CA19358-NOV22
Reference: Meliadine - PO#1124452

Meliadine
, Nunavut
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time Completed	Analysis DateCompleted	Analysis Time	ARDG-000519-T IR01B-10030MS 05-kwa-s	ARDG-000520-T IR01B-10030MS 05-kwa-s	ARDG-000527-T IR01B-10030MS 05-kwa-s	ARDG-000528-T IR01B-10030MS 05-kwa-s
Sample Date & Time					11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22
Sample weight [g]	29-Dec-22	07:15	03-Jan-23	09:46	250	250	250	251
Volume D.I. Water [mL]	29-Dec-22	07:15	03-Jan-23	09:46	750	750	750	750
Final pH [no unit]	29-Dec-22	07:15	03-Jan-23	09:46	8.93	8.90	8.86	8.81
pH [No unit]	30-Dec-22	13:15	04-Jan-23	09:21	8.32	8.35	8.26	8.25
Conductivity [uS/cm]	30-Dec-22	13:15	04-Jan-23	09:21	201	237	230	249
Alkalinity [mg/L as CaCO3]	30-Dec-22	13:15	04-Jan-23	09:21	47	53	55	50
SO4 [mg/L]	03-Jan-23	08:50	05-Jan-23	11:47	21	22	14	29
Hg [mg/L]	04-Jan-23	09:52	11-Jan-23	12:29	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.793	0.648	0.727	0.696
As [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.294	0.107	0.173	0.116
Ba [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00194	0.00284	0.00220	0.00273
B [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.011	0.015	0.017	0.016
Be [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.000022	0.000015	0.000016	0.000017
Bi [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	9.32	10.3	9.82	12.9
Cd [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.000003	< 0.000003	< 0.000003	0.000004
Co [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.000042	0.000037	0.000033	0.001721
Cr [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.00008	0.00008	< 0.00008	< 0.00008
Cu [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.0002	< 0.0002	< 0.0002	0.0003
Fe [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.013	< 0.007	< 0.007	< 0.007
K [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	18.5	26.3	20.9	21.0
Li [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.0015	0.0016	0.0016	0.0014
Mg [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	2.58	4.09	3.72	5.09
Mn [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00132	0.00097	0.00144	0.00191
Mo [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00987	0.00708	0.00841	0.0139
Na [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	21.3	35.1	20.8	20.9
Ni [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.0003	0.0002	0.0002	0.0004
Pb [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.00009	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.0097	0.0063	0.0070	0.0065
Se [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00060	0.00031	0.00017	0.00028
Si [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	2.06	1.79	1.71	1.55
Sn [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.00006	< 0.00006	< 0.00006	< 0.00006

Online LIMS

0003189677



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mel

Project : PO#1124452
LR Report : CA19358-NOV22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: ARDG-000519-T IR01B-10030MS 05-kwa-s	6: ARDG-000520-T IR01B-10030MS 05-kwa-s	7: ARDG-000527-T IR01B-10030MS 05-kwa-s	8: ARDG-000528-T IR01B-10030MS 05-kwa-s
Sr [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.0450	0.0487	0.0378	0.0512
Ti [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00090	0.00012	0.00016	0.00010
Tl [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.000007	0.000011	0.000006	0.000006
U [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.000469	0.000149	0.000228	0.000346
W [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00550	0.00317	0.00234	0.00359
V [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	0.00410	0.00208	0.00219	0.00162
Zn [mg/L]	06-Jan-23	18:58	11-Jan-23	12:30	< 0.002	< 0.002	< 0.002	< 0.002

Analysis	9: ARDG-000529-T IR01B-10030MS 05-kwa-s	10: ARDG-000530-T IR01B-10030MS 05-kwa-s	11: ARDG-000531-T IR01B-10030MS 05-kwa-s	12: ARDG-000532-T IR01B-10030MS 05-kwa-s	13: ARDG-000533-T IR01B-10030MS 05-kwa-s	14: ARDG-000533-T IR01B-10030MS 05-kwa-s	15:BLK: SD.I. Leachate Blank
Sample Date & Time	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22	11-Nov-22		
Sample weight [g]	252	250	251	250	251	250	---
Volume D.I. Water [mL]	750	750	750	750	750	750	750
Final pH [no unit]	8.83	8.70	8.69	8.72	8.80	8.77	5.70
pH [No unit]	8.31	8.07	8.26	8.16	8.15	8.22	6.19
Conductivity [uS/cm]	229	342	282	294	263	257	< 2
Alkalinity [mg/L as CaCO3]	53	41	55	57	56	53	< 2
SO4 [mg/L]	18	38	31	44	40	39	< 2
Hg [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ag [mg/L]	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005	< 0.00005
Al [mg/L]	0.730	0.531	0.597	0.581	0.643	0.629	0.001
As [mg/L]	0.166	0.0363	0.129	0.0523	0.0269	0.0262	< 0.0002
Ba [mg/L]	0.00311	0.00517	0.00583	0.00774	0.00478	0.00428	< 0.00008
B [mg/L]	0.015	0.020	0.016	0.012	0.011	0.011	< 0.002
Be [mg/L]	0.000017	0.000016	0.000011	0.000016	0.000013	0.000018	< 0.000007
Bi [mg/L]	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Ca [mg/L]	10.4	17.5	12.2	16.6	13.3	13.0	< 0.01
Cd [mg/L]	< 0.000003	0.000003	0.000006	0.000005	< 0.000003	< 0.000003	0.000003
Co [mg/L]	0.000037	0.000028	0.000032	0.000056	0.000028	0.000031	0.000006
Cr [mg/L]	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008	< 0.00008
Cu [mg/L]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Fe [mg/L]	< 0.007	< 0.007	< 0.007	0.007	< 0.007	< 0.007	< 0.007
K [mg/L]	20.0	18.9	25.9	26.1	22.2	21.2	0.015
Li [mg/L]	0.0019	0.0009	0.0013	0.0019	0.0017	0.0017	< 0.0001
Mg [mg/L]	3.46	4.53	4.83	7.02	5.39	5.27	< 0.001
Mn [mg/L]	0.00109	0.00251	0.00195	0.00298	0.00170	0.00168	0.00008
Mo [mg/L]	0.00479	0.00897	0.0157	0.00929	0.00608	0.00617	< 0.00004
Na [mg/L]	21.9	35.4	24.0	27.8	23.3	22.2	< 0.01
Ni [mg/L]	0.0003	0.0004	0.0003	0.0003	0.0002	0.0002	< 0.0001
Pb [mg/L]	0.00019	< 0.00009	< 0.00009	0.00076	< 0.00009	< 0.00009	< 0.00009
Sb [mg/L]	0.0079	0.0051	0.0063	0.0066	0.0058	0.0056	< 0.0009
Se [mg/L]	0.00039	0.00024	0.00020	0.00041	0.00078	0.00075	< 0.00004
Si [mg/L]	1.64	1.54	1.76	1.53	1.63	1.66	< 0.02
Sn [mg/L]	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006	< 0.00006
Sr [mg/L]	0.0534	0.118	0.0568	0.0825	0.0743	0.0725	< 0.00008
Ti [mg/L]	0.00008	0.00009	0.00010	0.00062	< 0.00005	0.00008	< 0.00005
Tl [mg/L]	0.000012	< 0.000005	0.000011	0.000016	0.000014	0.000015	< 0.000005
U [mg/L]	0.000129	0.000313	0.000218	0.000250	0.000295	0.000288	< 0.000002
W [mg/L]	0.00225	0.00218	0.00205	0.00377	0.00318	0.00309	< 0.00002

Online LIMS

0003189677

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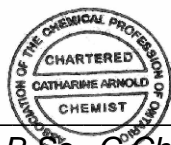
Project : PO#1124452

LR Report : CA19358-NOV22

Analysis	9: ARDG-000529-T IR01B-10030MS 05-kwa-s	10: ARDG-000530-T IR01B-10030MS 05-kwa-s	11: ARDG-000531-T IR01B-10030MS 05-kwa-s	12: ARDG-000532-T IR01B-10030MS 05-kwa-s	13: ARDG-000533-T IR01B-10030MS 05-kwa-s	14: ARDG-000533-T IR01B-10030MS 05-kwa-s	15:BLK: \$D.I. Leachate Blank
V [mg/L]	0.00200	0.00080	0.00159	0.00075	0.00130	0.00126	< 0.00001
Zn [mg/L]	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

SFE 3: 1 ratio 24hr (MEND) prefilter pH

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



Appendix C: Filtered Tailings Laboratory Certificates of Analysis



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Project : P.O# 999004

26-January-2022

Date Rec. : 13 January 2022

LR Report: CA14166-JAN22

Copy: #1

CERTIFICATE OF ANALYSIS


Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed Date	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					09-Jan-22 07:30	09-Jan-22	26-Dec-21	26-Dec-21 08:00
CN(T) [µg/g]	21-Jan-22	08:05	25-Jan-22	11:43	22	25	25	27
CN(Free) [µg/g]	24-Jan-22	08:00	25-Jan-22	09:50	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	21-Jan-22	08:05	25-Jan-22	11:43	< 10	< 10	< 10	< 10
Ag [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	0.7	0.5	< 0.5	0.5
Al [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	58000	61000	59000	59000
As [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	9900	8900	12000	9800
Ba [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	540	530	560	520
Be [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	1	1	1	1
Bi [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	2	2	1	1
Ca [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	30000	34000	34000	33000
Cd [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	0.47	0.46	0.59	0.50
Co [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	16	19	21	18
Cr [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	54	65	60	45
Cu [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	100	110	130	120
Fe [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	110000	100000	110000	110000
K [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	17000	17000	17000	16000

OnLine LIMS

0002783363

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed Date	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Li [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	18	19	19	18
Mg [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	11000	12000	12000	11000
Mn [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	520	650	670	610
Mo [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	11	8.3	7.1	8.0
Na [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	11000	13000	11000	12000
Ni [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	40	45	43	40
P [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	640	570	620	590
Pb [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	450	390	360	400
Sb [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	3.0	2.8	3.8	3.1
Se [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	1.0	1.0	1.0	1.0
Sn [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	< 6	< 6	< 6	< 6
Sr [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	250	260	260	250
Ti [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	1900	2100	2100	2000
Tl [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	0.41	0.43	0.45	0.40
U [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	1.25	1.21	1.20	1.17
V [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	68	80	82	78
Y [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	7.34	7.86	7.78	7.37
Zn [µg/g]	26-Jan-22	12:12	26-Jan-22	15:52	130	130	190	150

Catharine Arnold

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Project Specialist,
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Project : PO#1124452

18-March-2022

Date Rec. : 16 February 2022

LR Report: CA15263-FEB22

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CERTIFICATE OF ANALYSIS

Final Report


Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1 Composite 1	6: Tailings -Solid Tailings -Solid Composite 2	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					23-Jan-22 07:30	23-Jan-22	06-Feb-22	06-Feb-22 15:00
CN(T) [µg/g]	24-Feb-22	10:21	28-Feb-22	16:05	16	20	16	20
CN(Free) [µg/g]	03-Mar-22	10:00	04-Mar-22	09:31	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	24-Feb-22	10:21	09-Mar-22	15:19	< 10	< 10	< 10	< 10
Ag [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 0.5	< 0.5	< 0.5	0.5
Al [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	63000	57000	56000	51000
As [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	6100	8200	6200	10000
Ba [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	540	550	530	390
Be [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1	1	1	0.93
Bi [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	0.88	1	0.89	2
Ca [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	32000	29000	29000	35000
Cd [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	0.29	0.29	0.28	0.22
Co [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	16	15	14	17
Cr [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	38	56	68	72
Cu [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	86	84	84	91
Fe [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	100000	100000	100000	110000

OnLine LIMS

0002835096

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
K [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	16000	16000	15000	13000
Li [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	24	21	22	20
Mg [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	12000	11000	11000	12000
Mn [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	560	470	490	600
Mo [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	4.5	6.5	4.3	17
Na [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	15000	12000	13000	13000
Ni [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	39	39	37	39
P [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	590	570	570	550
Pb [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	140	240	170	360
Sb [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1.9	2.6	2.0	2.9
Se [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 0.7	< 0.7	< 0.7	0.8
Sn [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	< 6	< 6	< 6	< 6
Sr [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	260	250	250	230
Ti [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	2100	1800	1800	2000
Tl [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	0.44	0.44	0.42	0.36
U [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	1.27	1.29	1.26	1.22
V [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	68	60	59	74
Y [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	7.92	7.38	7.45	7.61
Zn [µg/g]	22-Feb-22	17:47	23-Feb-22	12:10	110	100	110	89

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Project : PO#1124452

18-March-2022

Date Rec. : 16 February 2022
LR Report: CA15264-FEB22

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 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					23-Jan-22 07:30	23-Jan-22	06-Feb-22	06-Feb-22 15:00
Paste pH [no unit]	23-Feb-22	08:00	25-Feb-22	09:40	8.28	8.25	8.27	8.31
Fizz Rate [no unit]	23-Feb-22	08:00	25-Feb-22	09:40	3	3	4	4
Sample weight [g]	23-Feb-22	08:00	25-Feb-22	09:40	1.95	1.95	1.92	1.99
HCl_add [mL]	24-Feb-22	08:00	25-Feb-22	09:40	68.50	68.10	68.00	102.60
HCl [Normality]	23-Feb-22	08:00	25-Feb-22	09:40	0.10	0.10	0.10	0.10
NaOH [Normality]	23-Feb-22	08:00	25-Feb-22	09:40	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	24-Feb-22	15:36	25-Feb-22	09:40	33.25	35.42	34.11	61.50
Final pH [no unit]	24-Feb-22	08:00	25-Feb-22	09:40	1.89	1.77	1.91	1.57
NP [t CaCO3/1000 t]	24-Feb-22	15:36	25-Feb-22	09:40	90.4	83.8	88.3	103
AP [t CaCO3/1000 t]	17-Mar-22	10:52	17-Mar-22	10:53	27.5	34.7	32.2	39.7
Net NP [t CaCO3/1000 t]	17-Mar-22	10:52	17-Mar-22	10:53	62.9	49.1	56.1	63.6
NP/AP [ratio]	17-Mar-22	10:52	17-Mar-22	10:53	3.29	2.42	2.74	2.60
S [%]	16-Mar-22	17:54	17-Mar-22	10:53	1.20	1.36	1.21	1.46
Acid Leachable SO4-S [%]	17-Mar-22	10:52	17-Mar-22	10:53	0.32	0.25	0.18	0.19
Sulphide [%]	14-Mar-22	10:25	17-Mar-22	10:53	0.88	1.11	1.03	1.27

OnLine LIMS

0002835127


Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
C [%]	16-Mar-22	17:54	17-Mar-22	10:53	1.44	1.40	1.43	1.74
CO3 (HCl) [%]	15-Mar-22	07:14	17-Mar-22	10:53	6.63	6.37	6.33	8.19

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project : PO# 1124452

13-April-2022

Date Rec. : 24 March 2022
LR Report: CA19096-MAR22

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 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					06-Mar-22 15:00	06-Mar-22	07-Mar-22	20-Mar-22 15:00
Paste pH [no unit]	30-Mar-22	08:29	01-Apr-22	10:53	8.34	8.91	8.28	8.33
Fizz Rate [no unit]	30-Mar-22	08:29	01-Apr-22	10:53	3	3	3	3
Sample weight [g]	30-Mar-22	08:29	01-Apr-22	10:53	2.08	1.97	2.02	2.11
HCl_add [mL]	31-Mar-22	06:31	01-Apr-22	10:53	75.00	68.10	73.20	65.00
HCl [Normality]	30-Mar-22	08:29	01-Apr-22	10:53	0.10	0.10	0.10	0.10
NaOH [Normality]	30-Mar-22	08:29	01-Apr-22	10:53	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	31-Mar-22	08:31	01-Apr-22	10:53	42.22	27.89	41.17	31.07
Final pH [no unit]	31-Mar-22	08:31	01-Apr-22	10:53	1.64	1.62	1.61	1.90
NP [t CaCO3/1000 t]	31-Mar-22	08:31	01-Apr-22	10:53	78.8	102	79.3	80.4
AP [t CaCO3/1000 t]	06-Apr-22	10:07	06-Apr-22	10:07	29.1	29.4	27.2	23.4
Net NP [t CaCO3/1000 t]	06-Apr-22	10:07	06-Apr-22	10:07	49.7	72.7	52.1	57.0
NP/AP [ratio]	06-Apr-22	10:07	06-Apr-22	10:07	2.71	3.48	2.92	3.43
S [%]	05-Apr-22	08:53	06-Apr-22	10:07	1.23	1.20	1.12	1.11
Acid Leachable SO4-S [%]	06-Apr-22	10:06	06-Apr-22	10:07	0.30	0.26	0.25	0.36
Sulphide [%]	06-Apr-22	09:23	06-Apr-22	10:07	0.93	0.94	0.87	0.75

OnLine LIMS

0002863983

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
C [%]	05-Apr-22	08:53	06-Apr-22	10:07	1.20	1.36	1.27	1.42
CO3 (HCl) [%]	06-Apr-22	08:04	06-Apr-22	10:07	5.41	6.08	5.85	6.58

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

13-April-2022

Date Rec. : 24 March 2022

LR Report: CA19097-MAR22

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 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					06-Mar-22 15:00	06-Mar-22	07-Mar-22	20-Mar-22 15:00
CN(T) [µg/g]	31-Mar-22	10:28	07-Apr-22	14:12	19	22	18	18
CN(Free) [µg/g]	06-Apr-22	08:42	06-Apr-22	13:56	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	31-Mar-22	10:28	05-Apr-22	08:52	< 10	< 10	< 10	< 10
Ag [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	62000	61000	61000	62000
As [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	8200	7900	6500	5800
Ba [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	510	490	510	540
Be [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	1	1	1	1
Bi [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	0.99	1	0.78	0.89
Ca [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	27000	29000	28000	30000
Cd [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	0.24	0.38	0.20	0.28
Co [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	14	16	12	16
Cr [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	110	120	94	110
Cu [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	84	100	75	85
Fe [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	120000	120000	130000	110000

OnLine LIMS

0002863986

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
K [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	15000	15000	14000	15000
Li [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	22	20	21	22
Mg [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	11000	11000	10000	12000
Mn [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	410	460	410	470
Mo [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	7.5	8.2	5.5	5.5
Ni [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	37	40	32	40
Pb [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	250	320	140	180
Sb [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	2.8	2.6	2.2	1.9
Se [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	0.7	1.0	< 0.7	< 0.7
Sn [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	< 6	22	< 6	< 6
Sr [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	270	260	290	270
Ti [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	2000	2000	1900	2000
Tl [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	0.37	0.38	0.34	0.38
U [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	1.30	1.37	1.25	1.21
V [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	65	76	59	76
Y [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	8.21	8.75	7.64	7.69
Zn [µg/g]	30-Mar-22	18:16	31-Mar-22	16:18	74	110	77	100

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Project : PO#1124452

12-May-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 21 April 2022
LR Report: CA19157-APR22

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CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: Tailings - Solid 1	6: Tailings -Solid Composite 1
Sample Date & Time					17-Apr-22 08:15	03-Apr-22
Paste pH [no unit]	27-Apr-22	08:10	28-Apr-22	15:22	8.52	8.53
Fizz Rate [no unit]	27-Apr-22	08:10	28-Apr-22	15:22	3	3
Sample weight [g]	27-Apr-22	08:10	28-Apr-22	15:22	2.07	1.98
HCl_add [mL]	28-Apr-22	06:10	28-Apr-22	15:22	80.20	70.60
HCl [Normality]	27-Apr-22	08:10	28-Apr-22	15:22	0.10	0.10
NaOH [Normality]	27-Apr-22	08:10	28-Apr-22	15:22	0.10	0.10
Vol NaOH to pH=8.3 [mL]	28-Apr-22	08:16	28-Apr-22	15:22	38.47	35.34
Final pH [no unit]	28-Apr-22	08:16	28-Apr-22	15:22	1.53	1.52
NP [t CaCO3/1000 t]	28-Apr-22	08:16	28-Apr-22	15:22	101	89.0
AP [t CaCO3/1000 t]	02-May-22	17:02	02-May-22	17:02	29.4	31.2
Net NP [t CaCO3/1000 t]	02-May-22	17:02	02-May-22	17:02	71.4	57.8
NP/AP [ratio]	02-May-22	17:02	02-May-22	17:02	3.43	2.85
S [%]	29-Apr-22	08:32	02-May-22	17:02	1.04	1.18
Acid Leachable SO4-S [%]	02-May-22	17:02	02-May-22	17:02	0.10	0.18
Sulphide [%]	02-May-22	16:36	02-May-22	17:02	0.94	1.00
C [%]	29-Apr-22	08:32	02-May-22	11:26	1.64	1.41
CO3 (HCl) [%]	02-May-22	11:08	02-May-22	11:26	7.98	6.73

Analysis	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time	20-Mar-22	03-Apr-22 15:00
Paste pH [no unit]	8.51	8.46
Fizz Rate [no unit]	3	3
Sample weight [g]	2.00	1.82
HCl_add [mL]	55.20	54.50
HCl [Normality]	0.10	0.10

Analysis	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	23.87	24.96
Final pH [no unit]	1.83	1.74
NP [t CaCO3/1000 t]	78.3	81.1
AP [t CaCO3/1000 t]	32.5	30.0
Net NP [t CaCO3/1000 t]	45.8	51.1
NP/AP [ratio]	2.41	2.70
S [%]	1.12	1.07
Acid Leachable SO4-S [%]	0.08	0.11
Sulphide [%]	1.04	0.96
C [%]	1.21	1.24
CO3 (HCl) [%]	5.84	5.89

ABA - Modified Sobek

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

Weight of Sample

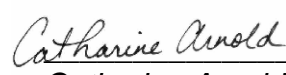
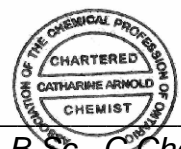
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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 <0.04 will be calculated using a 0.04 value.

Revised with sample dates corrected.



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Project : PO#1124452

12-May-2022

Date Rec. : 21 April 2022
LR Report: CA19158-APR22

Copy: #2

CERTIFICATE OF ANALYSIS

Final Report - Revised

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					17-Apr-22 08:15	03-Apr-22	20-Mar-22	03-Apr-22 15:00
CN(T) [µg/g]	05-May-22	12:21	10-May-22	08:26	24	19	23	24
CN(Free) [µg/g]	03-May-22	08:47	04-May-22	13:31	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	05-May-22	12:21	10-May-22	08:26	< 10	< 10	< 10	< 10
Ag [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	< 0.5	< 0.5	< 0.5	1.1
Al [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	63000	64000	43000	34000
As [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	7300	8400	7400	6800
Ba [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	580	590	360	320
Be [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	1	1	0.84	0.68
Bi [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	1	1	1	1
Ca [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	32000	31000	26000	27000
Cd [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	0.35	0.28	0.33	0.50
Co [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	18	18	15	16
Cr [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	46	50	30	37
Cu [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	100	111	100	105
Fe [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	91000	93000	89000	84000
K [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	16000	16000	11000	9900

OnLine LIMS

0002897968

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Li [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	22	23	21	20
Mg [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	12000	11000	10000	10000
Mn [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	520	530	430	470
Mo [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	7.1	6.6	7.1	9.2
Ni [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	47	45	37	40
Pb [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	240	210	250	270
Sb [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	2.5	2.9	1.4	0.9
Se [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	0.8	0.7	0.7	< 0.7
Sn [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	< 6	< 6	< 6	< 6
Sr [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	260	260	200	160
Ti [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	2000	1500	600	540
Tl [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	0.43	0.47	0.35	0.31
U [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	1.21	1.25	1.02	0.97
V [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	86	83	54	54
Y [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	7.75	7.92	7.81	9.54
Zn [µg/g]	28-Apr-22	19:04	29-Apr-22	10:55	100	100	97	120

Revised with sample dates corrected.

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Project Specialist,
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Project : PO#1124452

08-June-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 19 May 2022
LR Report: CA19133-MAY22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings Solid 1 DUP	7: Tailings -Solid Composite 1
Sample Date & Time					01-May-22	01-May-22	17-Apr-22
Paste pH [no unit]	01-Jun-22	16:30	03-Jun-22	16:37	9.56	8.80	9.01
Fizz Rate [no unit]	01-Jun-22	16:30	03-Jun-22	16:37	2	1	1
Sample weight [g]	01-Jun-22	16:30	03-Jun-22	16:37	2.02	1.99	1.99
HCl_add [mL]	02-Jun-22	14:34	03-Jun-22	16:37	30.00	20.00	20.00
HCl [Normality]	01-Jun-22	16:30	03-Jun-22	16:37	0.10	0.10	0.10
NaOH [Normality]	01-Jun-22	16:30	03-Jun-22	16:37	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	02-Jun-22	16:40	03-Jun-22	16:37	16.93	18.99	17.68
Final pH [no unit]	02-Jun-22	16:40	03-Jun-22	16:37	1.51	1.00	0.87
NP [t CaCO3/1000 t]	02-Jun-22	16:40	03-Jun-22	16:37	32.3	2.5	5.8
AP [t CaCO3/1000 t]	03-Jun-22	13:38	03-Jun-22	13:38	39.1	42.5	32.2
Net NP [t CaCO3/1000 t]	03-Jun-22	13:38	03-Jun-22	13:38	-6.76	-40.00	-26.39
NP/AP [ratio]	03-Jun-22	13:38	03-Jun-22	13:38	0.83	0.06	0.18
S [%]	01-Jun-22	15:49	03-Jun-22	13:38	1.48	1.52	1.20
Acid Leachable SO4-S [%]	03-Jun-22	13:38	03-Jun-22	13:38	0.23	0.16	0.17
Sulphide [%]	02-Jun-22	11:06	03-Jun-22	13:38	1.25	1.36	1.03
C [%]	01-Jun-22	15:49	02-Jun-22	12:24	1.53	1.55	1.44
CO3 (HCl) [%]	02-Jun-22	10:09	02-Jun-22	12:24	6.63	6.70	6.46
	31-May-22	---	31-May-22	---	1	1	1
Weight [g]	31-May-22	---	31-May-22	---	2542	1931	2417
Split	31-May-22	---	31-May-22	---	<	<	<

Analysis	8: Tailings -Solid Composite 2	9: Tailings - Solid 2
Sample Date & Time	01-May-22	15-May-22

Analysis	8: Tailings -Solid Composite 2	9: Tailings - Solid 2
Paste pH [no unit]	9.28	9.41
Fizz Rate [no unit]	1	1
Sample weight [g]	2.00	2.02
HCl_add [mL]	30.00	30.00
HCl [Normality]	0.10	0.10
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	8.27	18.29
Final pH [no unit]	1.50	1.51
NP [t CaCO3/1000 t]	54.3	29.0
AP [t CaCO3/1000 t]	34.4	27.8
Net NP [t CaCO3/1000 t]	19.9	1.19
NP/AP [ratio]	1.58	1.04
S [%]	1.24	1.15
Acid Leachable SO4-S [%]	0.14	0.26
Sulphide [%]	1.10	0.89
C [%]	1.45	1.36
CO3 (HCl) [%]	6.52	6.14
	1	1
Weight [g]	2814	3475
Split	<	0.47

ABA - Modified Sobek

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

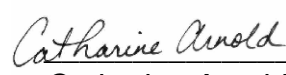

Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.



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Project : PO#1124452

20-June-2022

Date Rec. : 19 May 2022

LR Report: CA19134-MAY22

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 1	6: Tailings Solid 1 DUP	7: Tailings -Solid Composite 1	8: Tailings -Solid Composite 2	9: Tailings - Solid 2
Sample Date & Time					01-May-22	01-May-22	17-Apr-22	01-May-22	15-May-22
CN(T) [µg/g]	15-Jun-22	14:07	17-Jun-22	17:20	21	20	25	31	24
CN(Free) [µg/g]	02-Jun-22	18:30	03-Jun-22	15:50	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	15-Jun-22	14:07	17-Jun-22	17:20	< 10	< 10	< 10	< 10	< 10
Ag [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Al [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	56000	58000	61000	61000	65000
As [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	14000	14000	10000	9200	8700
Ba [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	490	480	530	530	540
Be [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	1	1	1	1	1
Bi [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	2	2	2	1	1
Ca [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	30000	30000	29000	29000	27000
Cd [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.69	0.70	0.52	0.32	0.35
Co [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	18	19	17	15	16
Cr [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	180	270	61	54	52
Cu [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	100	100	93	97	96
Fe [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	110000	110000	98000	100000	95000

OnLine LIMS

0002943440

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings Tailings -Solid Solid 1 DUP Composite 1	7: Tailings -Solid Composite 1	8: Tailings -Solid Composite 2	9: Tailings - Solid 2
K [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	15000	16000	16000	16000	16000
Li [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	14	14	16	15	16
Mg [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	12000	12000	11000	11000	11000
Mn [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	590	590	530	510	490
Mo [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	12	14	9.9	8.4	7.8
Ni [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	43	44	39	36	41
Pb [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	410	410	360	350	320
Sb [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	3.9	4.0	3.0	2.7	2.4
Se [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	1.1	1.1	1.0	0.8	0.8
Sn [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	< 6	< 6	< 6	< 6	< 6
Sr [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	200	200	220	240	230
Ti [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	1700	1700	1900	1900	2000
Tl [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	0.49	0.49	0.42	0.39	0.39
U [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	1.1	1.1	1.1	1.1	1.2
V [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	75	76	71	66	70
Y [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	7.40	7.32	7.11	7.01	7.08
Zn [µg/g]	07-Jun-22	16:47	08-Jun-22	15:28	200	210	140	100	110

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Project : PO#1124452

29-July-2022

Date Rec. : 30 June 2022
LR Report: CA19268-JUN22

Copy: #1

CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					29-May-22	May-22	Jun-22	26-Jun-22
Paste pH [no unit]	13-Jul-22	08:30	15-Jul-22	13:13	8.34	8.31	8.34	8.44
Fizz Rate [no unit]	13-Jul-22	08:30	15-Jul-22	13:13	3	3	3	3
Sample weight [g]	13-Jul-22	08:30	15-Jul-22	13:13	2.00	1.99	2.00	2.01
HCl Added [mL]	14-Jul-22	06:32	15-Jul-22	13:13	70.00	95.30	94.90	90.00
HCl [Normality]	13-Jul-22	08:30	15-Jul-22	13:13	0.10	0.10	0.10	0.10
NaOH [Normality]	13-Jul-22	08:30	15-Jul-22	13:13	0.10	0.10	0.10	0.10
NaOH to pH=8.3 [mL]	14-Jul-22	08:36	15-Jul-22	13:13	36.33	63.06	60.92	49.48
Final pH [no unit]	14-Jul-22	08:36	15-Jul-22	13:13	1.91	1.55	1.55	1.88
NP [t CaCO3/1000 t]	14-Jul-22	08:36	15-Jul-22	13:13	84.2	81.0	85.0	101
AP [t CaCO3/1000 t]	26-Jul-22	09:52	26-Jul-22	09:52	34.4	38.1	33.1	32.8
Net NP [t CaCO3/1000 t]	26-Jul-22	09:52	26-Jul-22	09:52	49.8	42.9	51.9	68.0
NP/AP [ratio]	26-Jul-22	09:52	26-Jul-22	09:52	2.45	2.12	2.57	3.07
Sulphur (total) [%]	24-Jul-22	10:04	26-Jul-22	09:52	1.24	1.36	1.15	1.14
Acid Leachable SO4-S [%]	26-Jul-22	09:51	26-Jul-22	09:52	0.14	0.14	0.09	0.09
Sulphide [%]	25-Jul-22	18:10	26-Jul-22	09:52	1.10	1.22	1.06	1.05
Carbon (total) [%]	24-Jul-22	10:04	25-Jul-22	11:42	1.23	1.32	1.45	1.63
Carbonate (HCl) [%]	24-Jul-22	11:42	25-Jul-22	11:42	5.58	5.91	6.73	7.74

ABA - Modified Sobek

*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

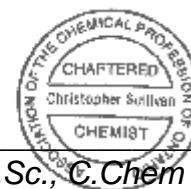
NP/AP Ratio = NP/AP

*Results expressed as tonnes CaCO3 equivalent/1000 tonnes of material
Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Acid Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-019	ASTM E1915-07A
Carbon/Sulphur	ME-CA-[ENV]ARD-LAK-AN-020	ASTM E1915-07A
Neutralization Potential	ME-CA-[ENV]ARD-LAK-AN-001/003	MEND PROJECT 1.16.1B
Paste pH	ME-CA-[ENV]ARD-LAK-AN-005	ARD Prediction Manual, 2009

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Project : PO#1124452
LR Report : CA19268-JUN22

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Carbon/Sulphur - QCBatchID: ECS0044-JUL22</i>													
Sulphide	0.04	%	< 0.04			ND	20	109	80	120			
<i>Carbon/Sulphur - QCBatchID: ECS0064-JUL22</i>													
Carbon (total)	0.005	%	<0.005			0	20				98	70 130	
Sulphur (total)	0.005	%	<0.005			ND	20				98	70 130	
<i>Carbon/Sulphur - QCBatchID: ECS0065-JUL22</i>													
Carbonate (HCl)	0.04	%	<0.04			ND	20	99	80	120			



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29-July-2022

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Date Rec. : 30 June 2022
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: Tailings - Solid 1	6: Tailings -Solid Composite 1	7: Tailings -Solid Composite 2	8: Tailings - Solid 2
Sample Date & Time					29-May-22	May-22	Jun-22	26-Jun-22
Cyanide (total) [µg/g]	22-Jul-22	10:13	26-Jul-22	09:30	26	24	21	27
Free Cyanide [µg/g]	20-Jul-22	14:24	20-Jul-22	14:58	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide (WAD) [µg/g]	22-Jul-22	10:13	26-Jul-22	09:29	< 10	< 10	< 10	< 10
Silver [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	< 0.5	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	66000	65000	64000	69000
Arsenic [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	8600	8300	8000	8300
Barium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	610	670	470	500
Beryllium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	1	1	1	1
Bismuth [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	1	1	1	2
Calcium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	27000	29000	31000	37000
Cadmium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	0.66	0.47	0.52	0.65
Cobalt [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	16	17	17	20
Chromium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	80	79	79	99
Copper [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	92	97	88	110
Iron [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	100000	110000	100000	95000
Potassium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	17000	16000	15000	17000
Lithium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	21	21	20	20
Magnesium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	12000	12000	12000	14000
Manganese [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	500	540	560	680
Molybdenum [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	12	11	12	13
Nickel [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	42	43	41	48
Lead [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	330	330	400	350
Antimony [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	2.5	2.4	2.4	2.4
Selenium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	0.9	0.9	1.0	1.2
Tin [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	< 6	< 6	< 6	< 6
Strontium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	230	250	230	240
Titanium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	2600	2600	2700	2900
Thallium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	0.57	0.46	0.50	0.42
Uranium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	1.29	1.32	1.16	1.02
Vanadium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	77	79	82	100
Yttrium [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	7.22	8.98	7.12	7.77
Zinc [µg/g]	14-Jul-22	17:20	19-Jul-22	15:13	96	120	110	110

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Cyanide by SFA	ME-CA-[ENV]SFA-LAK-AN-005	SM 4500
Cyanide by SFA	ME-CA-[ENV]SFA-LAK-AN-005	SM4500
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-013	EPA 3052/200.8

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Project : PO#1124452

LR Report : CA19269-JUN22

Quality Control Report

Parameter	Reporting Limit	Unit	Method Blank	Inorganic Analysis									
				Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
<i>Cyanide by SFA - QCBatchID: SKA5066-JUL22</i>													
Free Cyanide	0.05	µg/g	<0.05			ND	20	96	80	120	96	75	125
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0110-JUL22</i>													
Aluminum	3	µg/g	<3			1	20	93	70	130	85	70	130
Antimony	0.8	µg/g	<0.8			0	20	93	70	130	107	70	130
Arsenic	0.5	µg/g	<0.5			0	20	94	70	130	105	70	130
Barium	0.01	µg/g	<0.01			1	20	101	70	130	93	70	130
Beryllium	0.02	µg/g	<0.02			2	20	91	70	130	80	70	130
Bismuth	0.09	µg/g	<0.09			3	20	90	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			3	20	95	70	130	NV	70	130
Chromium	0.5	µg/g	<0.5			1	20	96	70	130	90	70	130
Cobalt	0.01	µg/g	<0.01			1	20	97	70	130	100	70	130
Copper	0.1	µg/g	<0.1			0	20	94	70	130	105	70	130
Iron	3	µg/g	<3			1	20	92	70	130	104	70	130
Lead	0.05	µg/g	<0.05			2	20	98	70	130	95	70	130
Lithium	2	µg/g	<2			0	20	96	70	130	98	70	130
Magnesium	3	µg/g	<3			1	20	94	70	130	103	70	130
Manganese	0.1	µg/g	<0.1			0	20	96	70	130	97	70	130
Molybdenum	0.1	µg/g	<0.1			0	20	93	70	130	104	70	130
Nickel	0.1	µg/g	<0.1			1	20	94	70	130	110	70	130
Selenium	0.7	µg/g	<0.7			3	20	101	70	130	NV	70	130
Silver	0.5	µg/g	<0.01			0	20	93	70	130	NV	70	130
Strontium	0.02	µg/g	<0.02			0	20	93	70	130	90	70	130
Thallium	0.02	µg/g	<0.02			3	20	96	70	130	NV	70	130
Tin	6	µg/g	<6			ND	20	106	70	130	NV	70	130
Titanium	0.1	µg/g	<0.1			1	20	94	70	130	101	70	130
Uranium	0.002	µg/g	<0.002			2	20	96	70	130	81	70	130
Vanadium	1	µg/g	<1			1	20	95	70	130	107	70	130
Yttrium	0.004	µg/g	<0.004			6	20	96	70	130	NV	70	130
Zinc	0.7	µg/g	<0.7			1	20	97	70	130	102	70	130

05-July-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 17 June 2022
LR Report: CA19187-JUN22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid- Dup
Sample Date & Time					12-Jun-22 8:20	12-Jun-22 8:20
Paste pH [no unit]	21-Jun-22	08:30	22-Jun-22	11:58	8.52	8.50
Fizz Rate [no unit]	21-Jun-22	08:30	22-Jun-22	11:58	4	4
Sample weight [g]	21-Jun-22	08:30	22-Jun-22	11:58	2.00	1.99
HCl_add [mL]	22-Jun-22	06:30	22-Jun-22	11:58	90.00	65.00
HCl [Normality]	21-Jun-22	08:30	22-Jun-22	11:58	0.10	0.10
NaOH [Normality]	21-Jun-22	08:30	22-Jun-22	11:58	0.10	0.10
Vol NaOH to pH=8.3 [mL]	22-Jun-22	08:41	22-Jun-22	11:58	50.69	28.47
Final pH [no unit]	22-Jun-22	08:41	22-Jun-22	11:58	1.67	1.93
NP [t CaCO3/1000 t]	22-Jun-22	08:41	22-Jun-22	11:58	98.3	91.8
AP [t CaCO3/1000 t]	29-Jun-22	16:48	29-Jun-22	16:48	31.2	29.7
Net NP [t CaCO3/1000 t]	29-Jun-22	16:48	29-Jun-22	16:48	67.0	62.1
NP/AP [ratio]	29-Jun-22	16:48	29-Jun-22	16:48	3.15	3.09
S [%]	28-Jun-22	13:48	29-Jun-22	16:48	1.15	1.10
Acid Leachable SO4-S [%]	29-Jun-22	16:48	29-Jun-22	16:48	0.15	0.15
Sulphide [%]	29-Jun-22	15:06	29-Jun-22	16:48	1.00	0.95
C [%]	28-Jun-22	13:48	29-Jun-22	13:51	1.37	1.35
CO3 (HCl) [%]	29-Jun-22	08:21	29-Jun-22	13:51	6.33	6.24

Analysis	7: Tailings -Solid - Composite
Sample Date & Time	12-Jun-22 17:00
Paste pH [no unit]	8.49
Fizz Rate [no unit]	4
Sample weight [g]	2.00
HCl_add [mL]	90.00
HCl [Normality]	0.10

Analysis	7: Tailings -Solid - Composite
NaOH [Normality]	0.10
Vol NaOH to pH=8.3 [mL]	52.39
Final pH [no unit]	1.75
NP [t CaCO3/1000 t]	94.0
AP [t CaCO3/1000 t]	30.3
Net NP [t CaCO3/1000 t]	63.7
NP/AP [ratio]	3.10
S [%]	1.15
Acid Leachable SO4-S [%]	0.18
Sulphide [%]	0.97
C [%]	1.38
CO3 (HCl) [%]	6.42

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Catharine Arnold

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Project : PO#1124452

20-July-2022

Date Rec. : 17 June 2022
LR Report: CA19188-JUN22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid- Dup	7: Tailings -Solid - Composite
Sample Date & Time					12-Jun-22 8:20	12-Jun-22 8:20	12-Jun-22 17:00
Cyanide (total) [µg/g]	07-Jul-22	10:00	13-Jul-22	13:26	20	22	22
Free Cyanide [µg/g]	04-Jul-22	11:28	04-Jul-22	15:05	< 0.05	< 0.05	< 0.05
Cyanide (WAD) [µg/g]	07-Jul-22	10:00	11-Jul-22	16:25	< 10	< 10	< 10
Silver [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	< 0.5	< 0.5	< 0.5
Aluminum [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	63000	64000	63000
Arsenic [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	7400	7300	7500
Barium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	600	590	590
Beryllium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	1	1	1
Bismuth [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	1	1	1
Calcium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	31000	31000	32000
Cadmium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	0.52	0.54	0.56
Cobalt [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	16	15	18
Chromium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	62	57	53
Copper [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	89	87	92
Iron [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	100000	110000	97000
Potassium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	15000	15000	15000
Lithium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	19	19	20
Magnesium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	12000	12000	12000
Manganese [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	530	550	590
Molybdenum [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	10	9.5	11
Nickel [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	39	40	45
Lead [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	460	430	530
Antimony [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	2.4	2.3	2.4
Selenium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	0.9	0.8	0.8
Tin [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	< 6	< 6	< 6
Strontium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	270	280	260
Titanium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	1900	1900	2000
Thallium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	0.40	0.40	0.40
Uranium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	1.36	1.37	1.24
Vanadium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	68	68	77

Online LIMS

0002982736

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Project : PO#1124452
LR Report : CA19188-JUN22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: Tailings - Solid	6: Tailings -Solid- Dup	7: Tailings -Solid - Composite
Yttrium [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	7.68	7.83	7.80
Zinc [µg/g]	28-Jun-22	21:49	05-Jul-22	10:04	91	92	91

Method Descriptions

Parameter	SGS Method Code	Reference Method Code
Cyanide by SFA	ME-CA-[ENV]SFA-LAK-AN-005	SM 4500
Cyanide by SFA	ME-CA-[ENV]SFA-LAK-AN-005	SM4500
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-007	EPA 3052/200.8
Metals - Microwave/ICP-MS	ME-CA-[ENV]SPE-LAK-AN-013	EPA 3052/200.8

Chris Sullivan



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Project : PO#1124452

LR Report : CA19188-JUN22

Quality Control Report

Inorganic Analysis													
Parameter	Reporting Limit	Unit	Method Blank	Duplicate				LCS / Spike Blank			Matrix Spike / Reference Material		
				Result 1	Result 2	RPD	Acceptance Criteria	Spike Recovery (%)	Recovery Limits (%)		Spike Recovery (%)	Recovery Limits (%)	
									Low	High		Low	High
				%									
<i>Cyanide by SFA - QCBatchID: SKA5118-JUN22</i>													
Free Cyanide	0.05	µg/g	<0.05			ND	20	101	80	120	92	75	125
<i>Metals - Microwave/ICP-MS - QCBatchID: EMS0198-JUN22</i>													
Aluminum	3	µg/g	<3			5	20	108	70	130	98	70	130
Antimony	0.8	µg/g	<0.8			0	20	100	70	130	112	70	130
Arsenic	0.5	µg/g	<0.5			8	20	96	70	130	105	70	130
Barium	0.01	µg/g	<0.01			1	20	102	70	130	102	70	130
Beryllium	0.02	µg/g	<0.02			1	20	92	70	130	78	70	130
Bismuth	0.09	µg/g	<0.09			13	20	92	70	130	NV	70	130
Cadmium	0.02	µg/g	<0.02			0	20	102	70	130	NV	70	130
Chromium	0.5	µg/g	<0.5			1	20	101	70	130	92	70	130
Cobalt	0.01	µg/g	<0.01			4	20	98	70	130	103	70	130
Copper	0.1	µg/g	<0.1			9	20	97	70	130	108	70	130
Iron	3	µg/g	<3			2	20	97	70	130	111	70	130
Lead	0.05	µg/g	<0.05			3	20	101	70	130	104	70	130
Lithium	2	µg/g	<2			1	20	94	70	130	90	70	130
Magnesium	3	µg/g	<3			3	20	102	70	130	114	70	130
Manganese	0.1	µg/g	<0.1			8	20	101	70	130	107	70	130
Molybdenum	0.1	µg/g	<0.1			10	20	96	70	130	95	70	130
Nickel	0.1	µg/g	<0.1			5	20	93	70	130	114	70	130
Selenium	0.7	µg/g	<0.7			9	20	101	70	130	NV	70	130
Silver	0.5	µg/g	<0.01			ND	20	92	70	130	NV	70	130
Strontium	0.02	µg/g	<0.02			4	20	96	70	130	109	70	130
Thallium	0.02	µg/g	<0.02			8	20	100	70	130	NV	70	130
Tin	6	µg/g	<6			ND	20	106	70	130	81	70	130
Titanium	0.1	µg/g	<0.1			16	20	90	70	130	78	70	130
Uranium	0.002	µg/g	<0.002			11	20	96	70	130	87	70	130
Vanadium	1	µg/g	<1			1	20	98	70	130	107	70	130
Yttrium	0.004	µg/g	<0.004			19	20	98	70	130	NV	70	130
Zinc	0.7	µg/g	<0.7			8	20	98	70	130	102	70	130



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Project : PO#1124452

29-August-2022

Date Rec. : 22 July 2022

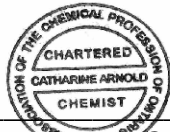
LR Report: CA19152-JUL22

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CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time	5: Tailings - Solid	6: Tailings - Solid Composite*
Sample Date & Time					10-Jul-22 14:45	26-Jun-22 - 10-Jul-22
CN(T) [µg/g]	05-Aug-22	11:39	10-Aug-22	08:23	27	26
CN(Free) [µg/g]	08-Aug-22	09:00	08-Aug-22	16:51	< 0.05	< 0.05
CNWAD [µg/g]	05-Aug-22	11:39	10-Aug-22	08:23	< 10	< 10
Ag [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	< 0.5	< 0.5
Al [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	65000	61000
As [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	10000	9300
Ba [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	490	680
Be [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	1.2	1.1
Bi [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	0.99	1.2
Ca [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	25000	30000
Cd [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	0.51	0.49
Co [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	14	17
Cr [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	89	93
Cu [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	110	100
Fe [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	93000	92000
K [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	16000	15000
Li [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	19	19
Mg [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	10000	12000
Mn [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	450	560
Mo [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	11	11

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings - Solid Composite*
Ni [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	34	41
Pb [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	320	290
Sb [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	2.8	2.6
Se [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	0.8	1.0
Sn [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	< 6	< 6
Sr [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	240	230
Ti [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	1900	2100
Tl [µg/g]	22-Aug-22	17:55	23-Aug-22	15:53	0.41	0.40
U [µg/g]	22-Aug-22	17:55	23-Aug-22	15:54	1.2	1.2
V [µg/g]	22-Aug-22	17:55	23-Aug-22	15:54	62	78
Y [µg/g]	22-Aug-22	17:55	23-Aug-22	15:54	6.7	7.2
Zn [µg/g]	22-Aug-22	17:55	23-Aug-22	15:54	110	110

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Project : PO#1124452

16-August-2022

Date Rec. : 22 July 2022

LR Report: CA19151-JUL22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings - Solid Composite*
Sample Date & Time					10-Jul-22 14:45	26-Jun-22
Paste pH [no unit]	02-Aug-22	14:15	04-Aug-22	14:58	8.51	8.51
Fizz Rate [no unit]	02-Aug-22	14:15	04-Aug-22	14:58	3	3
Sample weight [g]	02-Aug-22	14:15	04-Aug-22	14:58	2.00	2.00
HCl_add [mL]	223876	3.16	04-Aug-22	14:58	75.00	80.00
HCl [Normality]	02-Aug-22	14:15	04-Aug-22	14:58	0.10	0.10
NaOH [Normality]	02-Aug-22	14:15	04-Aug-22	14:58	0.10	0.10
Vol NaOH to pH=8.3 [mL]	03-Aug-22	14:15	04-Aug-22	14:58	43.50	39.96
Final pH [no unit]	03-Aug-22	14:15	04-Aug-22	14:58	1.52	1.71
NP [t CaCO3/1000 t]	03-Aug-22	14:15	04-Aug-22	14:58	78.8	100
AP [t CaCO3/1000 t]	10-Aug-22	10:43	10-Aug-22	10:43	39.1	36.9
Net NP [t CaCO3/1000 t]	10-Aug-22	10:43	10-Aug-22	10:43	39.7	63.2
NP/AP [ratio]	10-Aug-22	10:43	10-Aug-22	10:43	2.02	2.71
S [%]	05-Aug-22	19:51	10-Aug-22	10:43	1.36	1.30
Acid Leachable SO4-S [%]	10-Aug-22	10:43	10-Aug-22	10:43	0.11	0.12
Sulphide [%]	09-Aug-22	20:41	10-Aug-22	10:43	1.25	1.18

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings - Solid Composite*
C [%]	05-Aug-22	19:51	10-Aug-22	10:32	1.26	1.46
CO3 (HCl) [%]	09-Aug-22	13:57	10-Aug-22	10:32	5.59	6.76

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

29-August-2022

Date Rec. : 29 July 2022

LR Report: CA19214-JUL22

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CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite
Sample Date & Time					24-Jul-22 09:45	24-Jul-22
CN(T) [µg/g]	23-Aug-22	10:38	24-Aug-22	14:29	28	28
CN(Free) [µg/g]	15-Aug-22	09:00	16-Aug-22	13:26	< 0.05	< 0.05
CNWAD [µg/g]	23-Aug-22	10:38	24-Aug-22	14:29	< 10	< 10
Ag [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 0.5	< 0.5
Al [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	58000	59000
As [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	10000	10000
Ba [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	520	450
Be [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1	1
Bi [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1	2
Ca [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	23000	24000
Cd [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.47	0.51
Co [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	15	15
Cr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	150	99
Cu [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	92	98
Fe [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	100000	89000

OnLine LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite
K [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	15000	14000
Li [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	16	16
Mg [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	10000	10000
Mn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	440	460
Mo [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	16	14
Ni [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	36	38
Pb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	400	350
Sb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	3.2	2.9
Se [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1.0	1.0
Sn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	< 6	< 6
Sr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	240	230
Ti [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1900	2000
Tl [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	0.39	0.40
U [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	1.24	1.20
V [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	67	70
Y [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	6.89	6.84
Zn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:36	97	120

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ABA - Modified Sobek

Project : PO#1124452

22-August-2022

Date Rec. : 29 July 2022
LR Report: CA19213-JUL22

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: Tailings -Solid Composite
Sample Date & Time					24-Jul-22 09:45	24-Jul-22
Paste pH [no unit]	03-Aug-22	08:27	04-Aug-22	14:34	8.42	8.44
Fizz Rate [no unit]	03-Aug-22	08:27	04-Aug-22	14:34	4	4
Sample weight [g]	03-Aug-22	08:27	04-Aug-22	14:34	1.98	2.02
HCl_add [mL]	04-Aug-22	06:32	04-Aug-22	14:34	60.00	60.00
HCl [Normality]	03-Aug-22	08:27	04-Aug-22	14:34	0.10	0.10
NaOH [Normality]	03-Aug-22	08:27	04-Aug-22	14:34	0.10	0.10
Vol NaOH to pH=8.3 [mL]	04-Aug-22	08:27	04-Aug-22	14:34	31.39	28.57
Final pH [no unit]	04-Aug-22	08:27	04-Aug-22	14:34	1.62	1.66
NP [t CaCO3/1000 t]	04-Aug-22	08:27	04-Aug-22	14:34	72.2	77.8
AP [t CaCO3/1000 t]	19-Aug-22	14:28	19-Aug-22	14:28	40.3	35.6
Net NP [t CaCO3/1000 t]	19-Aug-22	14:28	19-Aug-22	14:28	31.9	42.2
NP/AP [ratio]	19-Aug-22	14:28	19-Aug-22	14:28	1.79	2.18
S [%]	14-Aug-22	13:16	19-Aug-22	14:28	1.46	1.29
Acid Leachable SO4-S [%]	19-Aug-22	14:28	19-Aug-22	14:28	0.17	0.15

OnLine LIMS

00030307/87

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite
Sulphide [%]	16-Aug-22	20:37	19-Aug-22	14:28	1.29	1.14
C [%]	14-Aug-22	13:16	17-Aug-22	15:01	1.22	1.26
CO3 (HCl) [%]	16-Aug-22	18:25	17-Aug-22	15:01	5.51	5.78

ABA - Modified Sobek

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

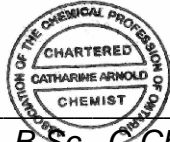
 Weight of Sample

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

29-August-2022

Date Rec. : 10 August 2022
LR Report: CA19065-AUG22

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: Tailings -Solid Composite*
Sample Date & Time					07-Aug-22 12:05	07-Aug-22 12:10
CN(T) [µg/g]	25-Aug-22	10:46	26-Aug-22	14:07	38	28
CN(Free) [µg/g]	24-Aug-22	08:45	24-Aug-22	14:34	< 0.05	< 0.05
CNWAD [µg/g]	25-Aug-22	10:46	26-Aug-22	14:09	9	9
Ag [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	< 0.5	< 0.5
Al [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	50000	49000
As [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	7300	7400
Ba [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	650	620
Be [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	1	1
Bi [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	1	1
Ca [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	23000	24000
Cd [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	0.43	0.35
Co [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	11	13
Cr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	46	45
Cu [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	76	83
Fe [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	100000	94000
K [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	12000	13000

OnLine LIMS

0003028075

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite*
Li [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	16	15
Mg [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	9100	9300
Mn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	380	420
Mo [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	12	9.2
Ni [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	29	32
Pb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	360	330
Sb [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	2.1	2.1
Se [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	0.9	1.0
Sn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	< 6	< 6
Sr [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	270	250
Ti [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	1600	1700
Tl [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	0.37	0.35
U [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	1.12	1.14
V [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	50	57
Y [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	6.57	6.49
Zn [µg/g]	23-Aug-22	06:02	24-Aug-22	11:35	84	91

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Project : PO#1124452

29-August-2022

Date Rec. : 10 August 2022
LR Report: CA19064-AUG22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite*
Sample Date & Time					07-Aug-22 12:05	07-Aug-22 12:10
Paste pH [no unit]	15-Aug-22	08:00	16-Aug-22	14:46	8.63	8.50
Fizz Rate [no unit]	15-Aug-22	08:00	16-Aug-22	14:46	3	3
Sample weight [g]	15-Aug-22	08:00	16-Aug-22	14:46	1.98	2.04
HCl_add [mL]	16-Aug-22	06:00	16-Aug-22	14:46	55.00	75.00
HCl [Normality]	15-Aug-22	08:00	16-Aug-22	14:46	0.10	0.10
NaOH [Normality]	15-Aug-22	08:00	16-Aug-22	14:46	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Aug-22	08:01	16-Aug-22	14:46	21.22	37.99
Final pH [no unit]	16-Aug-22	08:01	16-Aug-22	14:46	1.89	1.54
NP [t CaCO3/1000 t]	16-Aug-22	08:01	16-Aug-22	14:46	85.3	90.7
AP [t CaCO3/1000 t]	26-Aug-22	15:29	26-Aug-22	15:29	33.1	35.6
Net NP [t CaCO3/1000 t]	26-Aug-22	15:29	26-Aug-22	15:29	52.2	55.1
NP/AP [ratio]	26-Aug-22	15:29	26-Aug-22	15:29	2.58	2.55
S [%]	22-Aug-22	20:17	23-Aug-22	10:45	1.53	1.45
Acid Leachable SO4-S [%]	26-Aug-22	15:29	26-Aug-22	15:29	0.47	0.31
Sulphide [%]	25-Aug-22	14:29	26-Aug-22	15:29	1.06	1.14
C [%]	22-Aug-22	20:17	23-Aug-22	10:45	1.26	1.33

OnLine LIMS

0003028090

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite*
CO3 (HCl) [%]	26-Aug-22	07:20	26-Aug-22	15:29	5.57	6.00

ABA - Modified Sobek

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

Weight of Sample

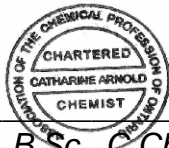
*AP (Acid Potential) = % Sulphide Sulphur x 31.25

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

06-September-2022

Date Rec. : 25 August 2022
LR Report: CA19150-AUG22

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: Tailings -Solid Composite
Sample Date & Time					07-Aug-22	21-Aug-22
Paste pH [no unit]	31-Aug-22	09:30	06-Sep-22	12:51	8.25	8.22
Fizz Rate [no unit]	31-Aug-22	09:30	06-Sep-22	12:51	3	3
Sample weight [g]	31-Aug-22	09:30	06-Sep-22	12:51	1.99	2.01
HCl_add [mL]	01-Sep-22	07:30	06-Sep-22	12:51	65.00	65.00
HCl [Normality]	31-Aug-22	09:30	06-Sep-22	12:51	0.10	0.10
NaOH [Normality]	31-Aug-22	09:30	06-Sep-22	12:51	0.10	0.10
Vol NaOH to pH=8.3 [mL]	01-Sep-22	09:34	06-Sep-22	12:51	29.40	32.58
Final pH [no unit]	01-Sep-22	09:34	06-Sep-22	12:51	1.84	1.79
NP [t CaCO3/1000 t]	01-Sep-22	09:34	06-Sep-22	12:51	89.4	80.7
AP [t CaCO3/1000 t]	06-Sep-22	12:52	06-Sep-22	12:52	52.5	46.9
Net NP [t CaCO3/1000 t]	06-Sep-22	12:52	06-Sep-22	12:52	36.9	33.8
NP/AP [ratio]	06-Sep-22	12:52	06-Sep-22	12:52	1.70	1.72
S [%]	01-Sep-22	08:58	06-Sep-22	11:44	1.67	1.74
Acid Leachable SO4-S [%]	01-Sep-22	08:58	06-Sep-22	11:52	< 0.04	0.24
Sulphide [%]	02-Sep-22	18:30	06-Sep-22	11:52	1.68	1.50

OnLine LIMS

0003038171

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid Composite
C [%]	01-Sep-22	08:58	06-Sep-22	11:44	1.36	1.40
CO3 (HCl) [%]	02-Sep-22	18:56	06-Sep-22	11:52	6.20	6.34

ABA - Modified Sobek

*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

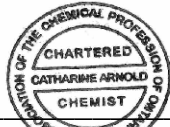
*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

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

Samples with a % Sulphide value of <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

27-September-2022

Date Rec. : 25 August 2022
 LR Report: CA19151-AUG22

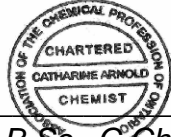
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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings - Solid Composite
Sample Date & Time					07-Aug-22	21-Aug-22
CN(T) [µg/g]	13-Sep-22	14:03	15-Sep-22	08:35	43	49
CN(T) [%]	***	***	***	***	***	***
CN(Free) [µg/g]	07-Sep-22	08:41	07-Sep-22	14:59	< 0.05	< 0.05
CNWAD [µg/g]	13-Sep-22	14:03	15-Sep-22	08:35	11	16
Ag [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	0.5	0.6
Al [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	69000	71000
As [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	13000	11000
Ba [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	370	490
Be [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	1	1
Bi [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	2	1
Ca [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	30000	28000
Cd [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	0.91	0.70
Co [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	20	17
Cr [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	210	180
Cu [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	110	120
Fe [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	99000	100000
K [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	18000	18000
Li [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	16	19
Mg [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	12000	12000
Mn [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	570	490
Mo [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	21	16
Ni [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	47	42
Pb [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	510	450
Sb [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	3.4	3.3
Se [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	1.2	1.0
Sn [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	< 6	< 6
Sr [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	190	220

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings - Solid Composite
Ti [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	1600	1800
Tl [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	0.42	0.39
U [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	1.03	1.29
V [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	77	68
Y [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	6.91	6.74
Zn [µg/g]	14-Sep-22	13:21	21-Sep-22	17:54	200	150

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Project : PO#1124452

19-December-2022

Date Rec. : 26 September 2022
LR Report: CA19150-SEP22
Reference: AEM - Meliadine

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings - Solid Composite
Sample Date & Time					19-Sep-22 07:30	19-Sep-22
Paste pH [no unit]	12-Oct-22	16:04	14-Oct-22	08:59	8.43	8.60
Fizz Rate [rating]	12-Oct-22	16:04	14-Oct-22	08:59	4	4
Sample weight [g]	12-Oct-22	16:04	14-Oct-22	08:59	2.02	1.89
HCl_add [mL]	12-Oct-22	16:04	14-Oct-22	08:59	95.00	70.00
HCl [Normality]	12-Oct-22	16:04	14-Oct-22	08:59	0.10	0.10
NaOH [Normality]	12-Oct-22	16:04	14-Oct-22	08:59	0.10	0.10
Vol NaOH to pH=8.3 [mL]	12-Oct-22	16:04	14-Oct-22	08:59	59.77	36.35
Final pH [no unit]	12-Oct-22	16:04	14-Oct-22	08:59	1.55	1.80
NP [t CaCO3/1000 t]	12-Oct-22	16:04	14-Oct-22	08:59	87.2	89.0
AP [t CaCO3/1000 t]	17-Oct-22	14:31	17-Oct-22	14:31	48.4	42.5
Net NP [t CaCO3/1000 t]	17-Oct-22	14:31	17-Oct-22	14:31	38.8	46.5
NP/AP [ratio]	17-Oct-22	14:31	17-Oct-22	14:31	1.80	2.09
S [%]	12-Oct-22	12:55	17-Oct-22	14:30	1.75	1.48
Acid Leachable SO4-S [%]	17-Oct-22	14:30	17-Oct-22	14:30	0.20	0.12
Sulphide [%]	14-Oct-22	14:51	17-Oct-22	14:30	1.55	1.36
C [%]	12-Oct-22	12:55	17-Oct-22	13:47	1.32	1.31
CO3 (HCl) [%]	17-Oct-22	09:39	17-Oct-22	13:47	6.10	6.09

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

Online LIMS

0003163862


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Project : PO#1124452

LR Report : CA19150-SEP22

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Project : PO#1124452

04-October-2022

Date Rec. : 08 September 2022
LR Report: CA19046-SEP22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid - Dup	7: Tailings -Solid - Composite
Sample Date & Time					04-Sep-22 08:35	04-Sep-22 08:40	04-Sep-22
CN(T) [µg/g]	22-Sep-22	10:47	29-Sep-22	16:10	46	46	40
CN(Free) [µg/g]	21-Sep-22	08:10	21-Sep-22	15:16	< 0.05	< 0.05	< 0.05
CNWAD [µg/g]	27-Sep-22	18:36	29-Sep-22	16:10	49	< 10	40
Ag [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.7	0.7	0.5
Al [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	63000	64000	62000
As [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	9900	10000	10000
Ba [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	420	420	510
Be [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	1	1	1
Bi [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	2	2	2
Ca [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	33000	33000	31000
Cd [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.56	0.56	0.63
Co [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	19	19	16
Cr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	97	97	130
Cu [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	100	100	100
Fe [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	93000	94000	98000
K [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	15000	15000	15000
Li [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	16	16	15
Mg [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	13000	13000	12000
Mn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	580	590	520
Mo [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	12	12	11
Ni [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	45	47	40
Pb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	250	260	290
Sb [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	3.0	3.2	3.1
Se [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	1.1	1.2	1.0
Sn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	< 6	< 6	< 6
Sr [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	210	210	220
Ti [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	2100	2100	2100
Tl [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	0.42	0.41	0.39
U [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	1.06	1.03	1.07
V [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	89	89	78

Online LIMS

0003072412

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Project : PO#1124452

LR Report : CA19046-SEP22

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis Date Completed	4: Analysis Time Completed	5: Tailings - Solid	6: Tailings -Solid - Dup	7: Tailings -Solid - Composite
Y [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	7.67	7.31	7.30
Zn [µg/g]	30-Sep-22	17:59	03-Oct-22	12:06	120	120	110

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Project : PO#1124452

30-September-2022

Date Rec. : 08 September 2022
LR Report: CA19045-SEP22

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: Tailings -Solid - Dup	7: Tailings -Solid - Composite
Sample Date & Time					04-Sep-22 08:35	04-Sep-22 08:40	04-Sep-22
Paste pH [no unit]	26-Sep-22	16:02	28-Sep-22	10:29	8.23	8.24	8.26
Fizz Rate [rating]	26-Sep-22	16:02	28-Sep-22	10:29	3	3	3
Sample weight [g]	26-Sep-22	16:02	28-Sep-22	10:29	2.01	2.00	2.01
HCl_add [mL]	26-Sep-22	16:02	28-Sep-22	10:29	79.20	74.60	76.90
HCl [Normality]	26-Sep-22	16:02	28-Sep-22	10:29	0.10	0.10	0.10
NaOH [Normality]	26-Sep-22	16:02	28-Sep-22	10:29	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26-Sep-22	16:02	28-Sep-22	10:29	36.43	32.96	38.50
Final pH [no unit]	26-Sep-22	16:02	28-Sep-22	10:29	1.67	1.73	1.62
NP [t CaCO3/1000 t]	26-Sep-22	16:02	28-Sep-22	10:29	106	104	95.5
AP [t CaCO3/1000 t]	28-Sep-22	10:30	28-Sep-22	10:30	36.9	36.2	38.8
Net NP [t CaCO3/1000 t]	28-Sep-22	10:30	28-Sep-22	10:30	69.5	67.8	56.8
NP/AP [ratio]	28-Sep-22	10:30	28-Sep-22	10:30	2.89	2.87	2.46
S [%]	21-Sep-22	11:19	23-Sep-22	16:22	1.25	1.24	1.30
Acid Leachable SO4-S [%]	23-Sep-22	16:22	23-Sep-22	16:22	0.07	0.08	0.06
Sulphide [%]	23-Sep-22	15:02	23-Sep-22	16:22	1.18	1.16	1.24

OnLine LIMS

0003068910

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid	6: Tailings -Solid - Dup	7: Tailings -Solid - Composite
C [%]	21-Sep-22	11:19	23-Sep-22	16:22	1.43	1.42	1.32
CO3 (HCl) [%]	26-Sep-22	10:14	28-Sep-22	09:28	6.56	6.54	5.94

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

30-October-2022

Date Rec. : 26 September 2022

LR Report: CA19151-SEP22

Reference: AEM - Meliadine

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CERTIFICATE OF ANALYSIS


Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time Completed	5: Tailings - Solid	6: Tailings - Solid Composite
Sample Date & Time					19-Sep-22 07:30	19-Sep-22
CN(T) [µg/g]	28-Sep-22	11:34	29-Sep-22	16:13	42	36
CN(Free) [µg/g]	29-Sep-22	08:57	29-Sep-22	13:15	< 0.05	< 0.05
CNWAD [µg/g]	28-Sep-22	11:34	29-Sep-22	16:13	10	13
Ag [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	0.6	0.6
Al [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	63000	64000
As [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	11000	9700
Ba [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	420	410
Be [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	1	1
Bi [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	2	2
Ca [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	28000	28000
Cd [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	0.60	0.68
Co [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	15	16
Cr [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	150	140
Cu [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	90	95
Fe [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	110000	98000
K [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	14000	14000
Li [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	20	19
Mg [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	11000	11000
Mn [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	500	500

Online LIMS

0003101796

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis TimeCompleted	5: Tailings - Solid	6: Tailings - Solid Composite
Mo [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	16	15
Ni [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	37	39
Pb [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	560	500
Sb [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	4.8	4.0
Se [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	1.1	1.1
Sn [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	< 6	< 6
Sr [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	220	220
Ti [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	2200	2300
Tl [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	0.53	0.51
U [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	1.23	1.21
V [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	67	63
Y [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	7.40	7.15
Zn [µg/g]	18-Oct-22	18:55	21-Oct-22	14:27	130	140

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Project : PO#1124452

22-November-2022

Date Rec. : 18 October 2022
LR Report: CA19213-OCT22

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CERTIFICATE OF ANALYSIS

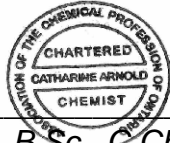
Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - solid	6: Tailings -solid dup	7: Tailings - solid - composite
Sample Date & Time					02-Oct-22 09:30	02-Oct-22 09:45	18-Oct-22
Ag [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	< 0.5	< 0.5	< 0.5
Al [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	63000	62000	61000
As [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	12000	12000	11000
Ba [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	560	550	540
Be [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	1	1	1
Bi [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	2	1	1
Ca [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	28000	28000	28000
Cd [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	0.68	0.64	0.63
Co [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	16	16	15
Cr [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	61	50	38
Cu [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	120	110	110
Fe [µg/g]	0	0	22-Nov-22	13:41	110000	120000	110000
K [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	13000	13000	14000
Li [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	21	21	21
Mg [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	11000	11000	10000

OnLine LIMS

0003130364

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - solid	6: Tailings -solid dup	7: Tailings - solid - composite
Mn [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	500	510	490
Mo [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	12	13	12
Ni [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	41	41	38
Pb [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	580	560	620
Sb [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	3.5	3.4	3.3
Se [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	1.0	1.1	0.9
Sn [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	< 6	< 6	< 6
Sr [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	240	230	230
Ti [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	2300	2300	2100
Tl [µg/g]	21-Nov-22	02:35	22-Nov-22	13:41	0.46	0.44	0.50
U [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	1.67	1.62	1.57
V [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	69	72	68
Y [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	6.98	6.99	6.92
Zn [µg/g]	17-Nov-22	08:55	22-Nov-22	13:41	110	110	120

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Project : PO#1124452

30-October-2022

Date Rec. : 18 October 2022
LR Report: CA19212-OCT22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - solid	6: Tailings - solid dup	7: Tailings - solid - composite
Sample Date & Time					02-Oct-22 09:30	02-Oct-22 09:45	18-Oct-22
Paste pH [no unit]	26-Oct-22	08:00	27-Oct-22	15:20	8.53	8.41	8.42
Fizz Rate [rating]	26-Oct-22	08:00	27-Oct-22	15:20	4	4	4
Sample weight [g]	26-Oct-22	08:00	27-Oct-22	15:20	2.04	2.01	2.00
HCl_add [mL]	26-Oct-22	08:00	27-Oct-22	15:20	80.00	83.50	81.00
HCl [Normality]	26-Oct-22	08:00	27-Oct-22	15:20	0.10	0.10	0.10
NaOH [Normality]	26-Oct-22	08:00	27-Oct-22	15:20	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	26-Oct-22	08:00	27-Oct-22	15:20	40.24	43.74	45.11
Final pH [no unit]	26-Oct-22	08:00	27-Oct-22	15:20	1.79	1.58	1.62
NP [t CaCO3/1000 t]	26-Oct-22	08:00	27-Oct-22	15:20	97.4	98.9	89.7
AP [t CaCO3/1000 t]	27-Oct-22	15:20	27-Oct-22	15:20	46.6	46.2	43.8
Net NP [t CaCO3/1000 t]	27-Oct-22	15:20	27-Oct-22	15:20	50.8	52.6	46.0
NP/AP [ratio]	27-Oct-22	15:20	27-Oct-22	15:20	2.09	2.14	2.05
S [%]	24-Oct-22	20:01	27-Oct-22	11:44	1.56	1.55	1.51
Acid Leachable SO4-S [%]	27-Oct-22	11:44	27-Oct-22	11:44	0.07	0.07	0.11
Sulphide [%]	25-Oct-22	21:19	27-Oct-22	11:44	1.49	1.48	1.40

OnLine LIMS

0003101812

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - solid	6: Tailings - solid dup	7: Tailings - solid - composite
C [%]	24-Oct-22	20:01	26-Oct-22	15:41	1.35	1.36	1.32
CO3 (HCl) [%]	26-Oct-22	11:54	26-Oct-22	15:41	6.24	6.22	6.00

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

19-December-2022

Agnico Eagle Mines Limited
Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 30 November 2022
LR Report: CA19353-NOV22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings - Solid 2
Sample Date & Time					16-Oct-22 9:30	30-Oct-22 8:05
Paste pH [no unit]	16-Dec-22	16:45	19-Dec-22	16:22	8.32	8.47
Fizz Rate [rating]	15-Dec-22	16:00	19-Dec-22	16:22	2	2
Sample weight [g]	15-Dec-22	16:00	19-Dec-22	16:22	2.07	1.96
HCl_add [mL]	16-Dec-22	14:00	19-Dec-22	16:22	62.70	62.40
HCl [Normality]	15-Dec-22	16:00	19-Dec-22	16:22	0.10	0.10
NaOH [Normality]	15-Dec-22	16:00	19-Dec-22	16:22	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Dec-22	22:02	19-Dec-22	16:22	27.88	26.86
Final pH [no unit]	16-Dec-22	16:00	19-Dec-22	16:22	1.86	1.84
NP [t CaCO3/1000 t]	16-Dec-22	22:02	19-Dec-22	16:22	84.1	90.7
AP [t CaCO3/1000 t]	19-Dec-22	16:22	19-Dec-22	16:23	49.7	41.6
Net NP [t CaCO3/1000 t]	19-Dec-22	16:23	19-Dec-22	16:23	34.4	49.1
NP/AP [ratio]	19-Dec-22	16:23	19-Dec-22	16:23	1.69	2.18
S [%]	13-Dec-22	14:02	15-Dec-22	16:23	1.65	1.45
Acid Leachable SO4-S [%]	15-Dec-22	16:23	15-Dec-22	16:23	0.06	0.12
Sulphide [%]	15-Dec-22	09:32	15-Dec-22	16:23	1.59	1.33
C [%]	13-Dec-22	14:02	15-Dec-22	16:23	1.35	1.48
CO3 (HCl) [%]	15-Dec-22	08:37	15-Dec-22	16:23	6.03	7.00

Analysis	7: Tailings- Composite 1	8: Tailings- Composite 2
Sample Date & Time	03-Oct-22	17-Oct-22
Paste pH [no unit]	8.32	8.42
Fizz Rate [rating]	2	2
Sample weight [g]	1.99	2.08
HCl_add [mL]	64.50	57.30
HCl [Normality]	0.10	0.10

Analysis	7: Tailings- Composite 1	8: Tailings- Composite 2
NaOH [Normality]	0.10	0.10
Vol NaOH to pH=8.3 [mL]	29.17	25.83
Final pH [no unit]	1.84	1.73
NP [t CaCO3/1000 t]	88.8	75.7
AP [t CaCO3/1000 t]	48.8	35.0
Net NP [t CaCO3/1000 t]	40.0	40.7
NP/AP [ratio]	1.82	2.16
S [%]	1.75	1.18
Acid Leachable SO4-S [%]	0.19	0.06
Sulphide [%]	1.56	1.12
C [%]	1.33	1.20
CO3 (HCl) [%]	6.24	5.72

ABA - Modified Sobek

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


 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 <0.04 will be calculated using a 0.04 value.

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16-December-2022

Date Rec. : 30 November 2022

LR Report: CA19354-NOV22

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 1	6: Tailings - Solid 2	7: Tailings- Composite 1	8: Tailings- Composite 2
Sample Date & Time					16-Oct-22 9:30	30-Oct-22 8:05	10-Oct-22	10-Oct-22
Ag [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	< 0.5	< 0.5	0.6	< 0.5
Al [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	40000	45000	48000	50000
As [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	11000	9700	11000	8200
Ba [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	470	510	530	450
Be [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	1	1	1	1
Bi [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	0.99	0.98	2	1.00
Ca [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	23000	27000	26000	22000
Cd [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	0.55	0.31	0.52	0.34
Co [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	9	11	13	12
Cr [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	78	66	79	45
Cu [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	74	75	100	67
Fe [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	120000	120000	120000	87000
K [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	11000	12000	12000	12000
Li [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	20	21	23	20
Mg [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	8500	9600	10000	8600
Mn [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	370	460	440	370

OnLine LIMS

0003161479

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings - Solid 2	7: Tailings- Composite 1	8: Tailings- Composite 2
Mo [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	12	11	21	12
Ni [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	25	29	34	29
Pb [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	520	460	740	260
Sb [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	4.1	3.6	4.0	3.4
Se [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	0.8	0.9	1.1	< 0.7
Sn [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	< 6	< 6	< 6	< 6
Sr [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	210	220	230	200
Ti [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	1600	1900	2100	1800
Tl [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	0.39	0.38	0.38	0.35
U [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	1.30	1.25	1.48	1.37
V [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	44	54	59	52
Y [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	7.82	7.54	7.24	6.58
Zn [µg/g]	14-Dec-22	20:39	16-Dec-22	10:16	110	82	100	72

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Project : PO#1124452

29-January-2023

Agnico Eagle Mines Limited

Attn : Randy Schwandt/Brett Fairbairn

Date Rec. : 06 January 2023

LR Report: CA19024-JAN23

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: Tailings - Solid 11-Dec-22	6: Tailings - Solid 11-Dec-22 DUP	7: Tailings - Solid 25-Dec-22
Sample Date & Time					11-Dec-22 16:20	11-Dec-22 16:20	25-Dec-22 07:40
Paste pH [no unit]	16-Jan-23	08:10	18-Jan-23	16:51	8.46	8.40	8.40
Fizz Rate [rating]	16-Jan-23	08:10	18-Jan-23	16:51	2	3	3
Sample weight [g]	16-Jan-23	08:10	18-Jan-23	16:51	2.18	2.17	1.93
HCl_add [mL]	17-Jan-23	06:07	18-Jan-23	16:51	78.00	80.00	78.00
HCl [Normality]	16-Jan-23	08:10	18-Jan-23	16:51	0.10	0.10	0.10
NaOH [Normality]	16-Jan-23	08:10	18-Jan-23	16:51	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	17-Jan-23	08:10	18-Jan-23	16:51	39.44	39.69	42.20
Final pH [no unit]	17-Jan-23	08:10	18-Jan-23	16:51	1.72	1.65	1.60
NP [t CaCO3/1000 t]	17-Jan-23	08:10	18-Jan-23	16:51	88.4	92.9	92.8
AP [t CaCO3/1000 t]	18-Jan-23	16:51	18-Jan-23	16:51	35.9	36.6	38.4
Net NP [t CaCO3/1000 t]	18-Jan-23	16:51	18-Jan-23	16:51	52.5	56.3	54.4
NP/AP [ratio]	18-Jan-23	16:51	18-Jan-23	16:51	2.46	2.54	2.41
S [%]	12-Jan-23	11:16	17-Jan-23	12:53	1.21	1.29	1.24
Acid Leachable SO4-S [%]	17-Jan-23	12:52	17-Jan-23	12:53	0.06	0.12	< 0.04
Sulphide [%]	17-Jan-23	10:12	17-Jan-23	12:53	1.15	1.17	1.23
C [%]	12-Jan-23	11:16	17-Jan-23	12:53	1.32	1.33	1.35
CO3 (HCl) [%]	18-Jan-23	09:39	18-Jan-23	16:51	5.94	6.21	6.11

Analysis	8: Tailings - Solid 25-Dec-22 DUP	9: Tailings -Solid Composite 1	10: Tailings -Solid Composite 2
Sample Date & Time	25-Dec-22 07:42	11-Dec-22	25-Dec-22
Paste pH [no unit]	8.42	8.26	8.26
Fizz Rate [rating]	3	2	3
Sample weight [g]	1.95	1.99	1.95
HCl_add [mL]	76.60	74.50	74.10
HCl [Normality]	0.10	0.10	0.10
NaOH [Normality]	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	41.08	41.84	41.43
Final pH [no unit]	1.62	1.61	1.61
NP [t CaCO3/1000 t]	91.1	82.1	83.8
AP [t CaCO3/1000 t]	37.2	43.1	43.1

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Project : PO#1124452

LR Report : CA19024-JAN23

Analysis	8: Tailings - Solid 25-Dec-22 DUP	9: Tailings -Solid Composite 1	10: Tailings -Solid Composite 2
Net NP [t CaCO3/1000 t]	53.9	39.0	40.7
NP/AP [ratio]	2.45	1.90	1.94
S [%]	1.25	1.43	1.42
Acid Leachable SO4-S [%]	0.06	0.05	0.04
Sulphide [%]	1.19	1.38	1.38
C [%]	1.35	1.25	1.25
CO3 (HCl) [%]	6.12	5.78	5.72

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO# 1124458

19-December-2022

Date Rec. : 02 December 2022

LR Report: CA19037-DEC22

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings - Solid 2	7: Tailings -Solid Composite 1	8: Tailings -Solid Composite 2
Sample Date & Time					13-Nov-22	27-Nov-22	31-Oct-22	14-Nov-22
Paste pH [no unit]	14-Dec-22	16:00	16-Dec-22	15:43	8.30	8.40	8.26	8.15
Fizz Rate [rating]	14-Dec-22	16:00	16-Dec-22	15:43	3	2	2	2
Sample weight [g]	14-Dec-22	16:00	16-Dec-22	15:43	2.08	2.02	2.06	1.86
HCl_add [mL]	15-Dec-22	14:00	16-Dec-22	15:43	62.50	63.50	60.10	59.10
HCl [Normality]	14-Dec-22	16:00	16-Dec-22	15:43	0.10	0.10	0.10	0.10
NaOH [Normality]	14-Dec-22	16:00	16-Dec-22	15:43	0.10	0.10	0.10	0.10
Vol NaOH to pH=8.3 [mL]	16-Dec-22	14:41	16-Dec-22	15:43	22.58	27.20	26.46	26.53
Final pH [no unit]	15-Dec-22	16:01	16-Dec-22	15:43	1.90	1.71	1.78	1.72
NP [t CaCO3/1000 t]	16-Dec-22	14:41	16-Dec-22	15:43	96.0	89.9	81.6	87.6
AP [t CaCO3/1000 t]	16-Dec-22	15:43	16-Dec-22	15:43	44.7	40.0	42.5	39.4
Net NP [t CaCO3/1000 t]	16-Dec-22	15:43	16-Dec-22	15:43	51.3	49.9	39.1	48.2
NP/AP [ratio]	16-Dec-22	15:43	16-Dec-22	15:43	2.15	2.25	1.92	2.22
S [%]	08-Dec-22	11:21	13-Dec-22	10:53	1.47	1.34	1.47	1.38
Acid Leachable SO4-S [%]	13-Dec-22	10:52	13-Dec-22	10:53	0.04	0.06	0.11	0.12
Sulphide [%]	12-Dec-22	13:27	13-Dec-22	10:53	1.43	1.28	1.36	1.26

OnLine LIMS

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Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings - Solid 2	7: Tailings - Composite 1	8: Tailings - Solid Composite 2
C [%]	08-Dec-22	11:21	13-Dec-22	10:46	1.49	1.39	1.32	1.42
CO3 (HCl) [%]	12-Dec-22	10:07	13-Dec-22	10:46	6.82	6.54	6.01	6.65

ABA - Modified Sobek

*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 <0.04 will be calculated using a 0.04 value.

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Project : PO#1124452

19-December-2022

Date Rec. : 02 December 2022

LR Report: CA19038-DEC22

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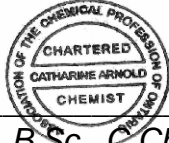
CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings - Solid 2	7: Tailings -Solid Composite 1	8: Tailings -Solid Composite 2
Sample Date & Time					13-Nov-22	27-Nov-22	31-Oct-22	14-Nov-22
Ag [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	< 0.5	0.5	< 0.5	< 0.5
Al [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	48000	48000	48000	45000
As [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	12000	9900	9700	11000
Ba [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	470	460	540	420
Be [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	1	1	1	1
Bi [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	2	1	1	1
Ca [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	27000	25000	25000	25000
Cd [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	0.69	0.51	0.52	0.40
Co [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	16	15	12	14
Cr [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	83	110	66	75
Cu [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	109	92	90	95
Fe [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	97000	99000	120000	110000
K [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	13000	13000	13000	12000
Li [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	21	22	23	21
Mg [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	11000	10000	9600	10000

OnLine LIMS

0003165605

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Tailings - Solid 1	6: Tailings - Solid 2	7: Tailings -Solid Composite 1	8: Tailings -Solid Composite 2
Mn [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	520	450	420	460
Mo [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	11	12	12	12
Ni [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	39	38	30	38
Pb [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	500	380	600	390
Sb [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	4.4	3.7	4.0	3.6
Se [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	1.3	1.0	1.0	1.2
Sn [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	< 6	< 6	< 6	46
Sr [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	210	200	230	210
Ti [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	2000	2300	2000	2200
Tl [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	0.58	0.43	0.47	0.40
U [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	1.39	1.35	1.39	1.31
V [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	74	72	56	66
Y [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	7.26	6.70	6.62	6.74
Zn [µg/g]	14-Dec-22	20:39	16-Dec-22	10:15	150	110	87	120

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Project : PO#1124452

29-January-2023

Date Rec. : 06 January 2023
LR Report: CA19025-JAN23

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CERTIFICATE OF ANALYSIS

Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time Completed	3: Analysis DateCompleted	4: Analysis Time	5: Tailings - Solid 11-Dec-22	6: Tailings - Solid 11-Dec-22 DUP	7: Tailings - Solid 25-Dec-22
Sample Date & Time					11-Dec-22 16:20	11-Dec-22 16:20	25-Dec-22 07:40
Ag [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	< 0.5	< 0.5	< 0.5
Al [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	43000	44000	41000
As [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	8100	9300	7700
Ba [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	620	480	510
Be [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	1.2	1.1	1.1
Bi [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	0.81	1.2	0.77
Ca [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	24000	24000	23000
Cd [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	0.47	0.51	0.45
Co [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	13	17	14
Cr [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	150	290	110
Cu [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	77	90	77
Fe [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	110000	90000	100000
K [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	12000	12000	11000
Li [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	17	17	16
Mg [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	9000	9800	8600
Mn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	410	480	410
Mo [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	6.7	8.4	6.8
Ni [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	33	44	34
Pb [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	310	480	240
Sb [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	2.0	2.3	1.8
Se [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	0.8	0.9	0.9
Sn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	< 6	< 6	< 6
Sr [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	240	190	220
Ti [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	1700	2000	1700
Tl [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	0.44	0.41	0.39
U [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	1.29	1.29	1.17
V [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	47	62	48
Y [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	6.81	7.27	6.72
Zn [µg/g]	13-Jan-23	23:46	20-Jan-23	20:20	89	100	100


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LR Report : CA19025-JAN23

Analysis	8: Tailings - Solid 25-Dec-22 DUP	9: Tailings -Solid Composite 1	10: Tailings -Solid Composite 2
Sample Date & Time	25-Dec-22 07:42	11-Dec-22	25-Dec-22
Ag [µg/g]	< 0.5	< 0.5	< 0.5
Al [µg/g]	40000	39000	38000
As [µg/g]	7300	8700	8300
Ba [µg/g]	520	540	530
Be [µg/g]	1.1	1.1	1.1
Bi [µg/g]	0.78	0.96	0.93
Ca [µg/g]	22000	22000	20000
Cd [µg/g]	0.47	0.38	0.32
Co [µg/g]	14	13	13
Cr [µg/g]	150	160	170
Cu [µg/g]	77	63	61
Fe [µg/g]	100000	98000	96000
K [µg/g]	11000	11000	11000
Li [µg/g]	16	15	15
Mg [µg/g]	8500	8300	8100
Mn [µg/g]	410	400	390
Mo [µg/g]	7.1	8.0	7.9
Ni [µg/g]	34	32	32
Pb [µg/g]	240	470	470
Sb [µg/g]	1.8	2.5	2.4
Se [µg/g]	0.9	0.8	0.8
Sn [µg/g]	< 6	< 6	< 6
Sr [µg/g]	220	210	200
Ti [µg/g]	1700	1600	1600
Tl [µg/g]	0.40	0.38	0.39
U [µg/g]	1.17	1.28	1.23
V [µg/g]	49	45	45
Y [µg/g]	7.71	6.36	6.33
Zn [µg/g]	110	75	76

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