



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - K0L 2H0

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

## Agnico Eagle Mines Limited

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MEL

24-October-2019

Date Rec. : 04 October 2019

LR Report: CA14140-OCT19

Reference: P.O#770080

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

\*NP (Neutralization Potential)

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



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Weight of Sample

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

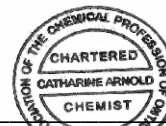
\*Net NP (Net Neutralization Potential) = NP-AP

NP/AP Ratio = NP/AP

\*Results expressed as tonnes CaCO<sub>3</sub> equivalent/1000 tonnes of material

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

*Catharine Arnold*



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