



Meliadine Gold Project
NWB 2AM-MEL1631
October 2019 Monthly Report

Prepared for:

Nunavut Water Board

Prepared by:

Agnico Eagle Mines Limited – Meliadine Division

November 29th, 2019

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SECTION 1 • BACKGROUND

As required under Part I, Item 10 of Type A Water License 2AM-MEL1631, this report documents the water management and monitoring activities at the mine site and provides a summary of spills/ actions for the month of October 2019.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Table 2.1 details monthly water usage approved under Water License 2AM-MEL1631:

Table 2.1: Summary of Agnico's monthly water usage in October 2019

	Monthly Usage (m ³)
Camp and Mill (MEL-11)	32,616
Construction – Batch Plant (MEL-26 – A8)	0
Dust suppression	0
Total October	32,616
Year to date 2019	231,366

2.2 DEWATERING ACTIVITIES

Dewatering of the Lake H-19 and H-20 started August 17th, a total of 95 m3 was dewatered through the EWTP in October.

2.3 MELIADINE DISCHARGE

Discharge from the EWTP into Meliadine Lake via the Final Discharge Point (MEL-14) started in July, a total of 11,581 was discharged in October including the dewatering of H-19 and H-20 which stopped October 5th.

2.4 MELVIN BAY DISCHARGE

Discharge to sea via the Final Discharge Point (MEL-26) started August 1st, a total of 4,164 m3 was discharged in October and stopped October 11th.

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL AND LANDFARM

The 2AM-MEL1631 landfill and landfarm were commissioned in November 2017. No seepage or runoff was observed in October 2019.

2.6 SEWAGE TREATMENT PLANT

In October 2019, 3,485 of treated wastewater was discharged into CP1. 47.50 m³ of sludge was removed during the month. The majority of the sludge is disposed of in the Tailings Storage Facility as approved, the

sludge can also be utilized as nutrient in the site landfarm or shipped to the south with Agnico Eagle's hazmat if needed.

2.7 CONTAINMENTS

Discharged from the Itivia fuel containment facility (Station Mel-25) occurred during the summer and approximately 12,062 m3 was discharged through the year.

2.8 MONITORING ANALYTICAL DATA

In October, numerous samples related to the water Licence were sampled. See below the analytical results from these monitoring stations. No exceedances occurred in October.

MEL-11	Sample Date	10/14/2019
Parameter	Unit	
Field Measured		
pH	pH units	7.63
Conductivity	uS/cm	85.8
Temperature	°C	4
Dissolved oxygen	%	88.9
Conventional Parameters		
pH	pH units	7.09
Specific conductivity	umhos/cm	86
Hardness, as CaCO ₃	mg/L	27.3
Hardness, Calcium Carbonate	mg/L	24
Total dissolved solids	mg/L	65
Total suspended solids	mg/L	2
Total organic carbon	mg/L	3.3
Dissolved organic carbon	mg/L	2.7
Turbidity	NTU	0.3
Major Ions		
Total alkalinity, as CaCO ₃	mg/L	16
Bicarbonate, as CaCO ₃	mg/L	16
Calcium	mg/L	8.66
Carbonate, as CaCO ₃	mg/L	< 1.0
Chloride	mg/L	11
Cyanide Total	mg/L	< 0.0050
Cyanide WAD	mg/L	< 0.0010
Cyanide Free	mg/L	< 0.0010
Magnesium	mg/L	1.37
Potassium	mg/L	0.975
Sodium	mg/L	5.53
Sulphate	mg/L	3.9
Silica	mg/L	0.23

Nutrients and Chlorophyll a		
Nitrate	mg/L	< 0.10
Nitrite	mg/L	< 0.010
Nitrate + nitrite	mg/L	< 0.10
Total ammonia	mg/L	0.13
Total Kjeldahl nitrogen	mg/L	0.2
Total phosphorus	mg/L	< 0.020
Orthophosphate	mg/L	< 0.010
Total Metals		
Aluminum	mg/L	0.009
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00033
Barium	mg/L	0.0078
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Boron	mg/L	< 0.05
Cadmium	mg/L	< 0.000010
Calcium	mg/L	7.48
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00079
Iron	mg/L	0.029
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Magnesium	mg/L	1.28
Manganese	mg/L	0.0039
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Potassium	mg/L	0.94
Selenium	mg/L	< 0.00010
Silicon	mg/L	0.171
Silver	mg/L	< 0.000020
Sodium	mg/L	5.1
Strontium	mg/L	0.0394
Sulphur	mg/L	< 3
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
Zirconium	mg/L	< 0.00010

Dissolved Metals		
Aluminum	mg/L	0.0044
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00068
Barium	mg/L	0.0078
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Boron	mg/L	< 0.05
Cadmium	mg/L	< 0.000010
Chromium	mg/L	< 0.0010
Cobalt	mg/L	< 0.00020
Copper	mg/L	0.00051
Iron	mg/L	0.023
Lead	mg/L	< 0.00020
Lithium	mg/L	< 0.0020
Manganese	mg/L	0.0012
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	< 0.0010
Nickel	mg/L	< 0.0010
Selenium	mg/L	< 0.00010
Silicon	mg/L	0.148
Silver	mg/L	< 0.000020
Strontium	mg/L	0.0428
Sulphur	mg/L	< 3.0
Thallium	mg/L	< 0.000010
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	< 0.00010
Vanadium	mg/L	< 0.0050
Zinc	mg/L	< 0.0050
Zirconium	mg/L	< 0.00010
Volatile Organics		
Benzene	mg/L	< 0.00020
Ethylbenzene	mg/L	< 0.00020
Toluene	mg/L	< 0.00020
Xylenes	mg/L	< 0.00040
m,p-Xylenes	mg/L	< 0.00040
o-Xylene	mg/L	< 0.00020
F1 (C6-C10)-BTEX	mg/L	< 0.025
F1 (C6-C10)	mg/L	< 0.025
F2 (C10-C16)	mg/L	< 0.1
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2

Reached baseline at C50	mg/L	YES
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MEL-12	Sample Date	10/1/2019	10/8/2019
Parameter	Unit		
Field Measured			
pH	pH units	7.65	7.7
Conductivity	uS/cm	4450	4365
Temperature	°C	5.5	1.5
Dissolved oxygen	mg/L	10.67	10.89
Dissolved oxygen	%	86.1	82.4
Conventional Parameters			
pH	pH units	7.63	7.69
Specific conductivity	umhos/cm	4300	4200
Hardness, as CaCO ₃	mg/L	939	915
Hardness, Calcium Carbonate	mg/L	1030	920
Total alkalinity, as CaCO ₃	mg/L	66	67
Total dissolved solids	mg/L	2450	2370
Total suspended solids	mg/L	12	36
Total organic carbon	mg/L	15	15
Turbidity	NTU	6.8	7.5
Major Ions			
Calcium	mg/L	265	261
Chloride	mg/L	1200	1200
Cyanide	mg/L	0.015	0.0099
Fluoride	mg/L	< 0.10	< 0.10
Magnesium	mg/L	67.4	64.2
Potassium	mg/L	29.3	27.8
Sodium	mg/L	428	415
Sulphate	mg/L	200	220
Nutrients and Chlorophyll a			
Nitrate	mg/L	28.7	27.5
Nitrite	mg/L	0.926	0.772
Nitrate + nitrite	mg/L	29.6	28.3
Total ammonia	mg/L	7.5	7.4
Total phosphorus	mg/L	0.069	0.076
Orthophosphate	mg/L	< 0.010	< 0.010
Total Metals			
Aluminum	mg/L	0.284	0.326
Antimony	mg/L	< 0.0010	< 0.0010
Arsenic	mg/L	0.00807	0.00732
Barium	mg/L	0.146	0.136
Beryllium	mg/L	< 0.00020	< 0.00020
Bismuth	mg/L	< 0.0020	< 0.0020

Boron	mg/L	0.473	0.435
Cadmium	mg/L	0.000064	0.000064
Calcium	mg/L	304	262
Chromium	mg/L	< 0.0020	< 0.0020
Cobalt	mg/L	0.00192	0.00182
Copper	mg/L	0.0029	0.0028
Iron	mg/L	0.307	0.309
Lead	mg/L	0.00052	0.0007
Lithium	mg/L	0.151	0.134
Magnesium	mg/L	66.2	64.8
Manganese	mg/L	0.345	0.334
Mercury	mg/L	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0036	0.0034
Nickel	mg/L	0.0087	0.0088
Potassium	mg/L	33.2	28.9
Selenium	mg/L	0.00033	0.00032
Silicon	mg/L	1.75	1.31
Silver	mg/L	< 0.000040	< 0.000040
Sodium	mg/L	438	424
Strontium	mg/L	5.17	5.01
Sulphur	mg/L	77.9	68.5
Thallium	mg/L	0.000057	0.000056
Tin	mg/L	< 0.01	< 0.01
Titanium	mg/L	< 0.01	< 0.01
Uranium	mg/L	0.00195	0.00189
Vanadium	mg/L	< 0.01	< 0.01
Zinc	mg/L	0.016	0.012
Zirconium	mg/L	0.00025	< 0.00020
Dissolved Metals			
Aluminum	mg/L	0.0564	0.073
Antimony	mg/L	0.00068	< 0.0025
Arsenic	mg/L	0.00546	0.00427
Barium	mg/L	0.13	0.128
Beryllium	mg/L	< 0.00010	< 0.00050
Bismuth	mg/L	< 0.0010	< 0.0050
Boron	mg/L	0.424	0.441
Cadmium	mg/L	0.000045	0.000051
Chromium	mg/L	< 0.0010	< 0.0050
Cobalt	mg/L	0.00117	0.0012
Copper	mg/L	0.00204	0.0023
Iron	mg/L	0.0299	< 0.025
Lead	mg/L	< 0.00020	< 0.0010
Lithium	mg/L	0.129	0.131

Manganese	mg/L	0.0897	0.103
Mercury	mg/L	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0035	< 0.0050
Nickel	mg/L	0.0074	0.0078
Selenium	mg/L	0.00033	< 0.00050
Silicon	mg/L	1.22	1.2
Silver	mg/L	< 0.000020	< 0.00010
Strontium	mg/L	5.38	4.67
Sulphur	mg/L	71	68
Thallium	mg/L	0.000075	0.000056
Tin	mg/L	< 0.0050	< 0.025
Titanium	mg/L	< 0.0050	< 0.025
Uranium	mg/L	0.00189	0.00175
Vanadium	mg/L	< 0.0050	< 0.025
Zinc	mg/L	0.0071	< 0.025
Zirconium	mg/L	0.0001	< 0.00050
Toxicity			
Algal growth 72 h inhibition test - IC25	mg/L	-	> 90.91
Ceriodaphnia 7 d mortality test - LC25	%	-	20.1
Ceriodaphnia 7 d mortality test - LC50	mg/L	-	> 100
Daphnia 48 h static acute test - LC50	mg/L	> 100	-
Fathead minnow 7 d growth test - IC25	mg/L	-	> 100
Fathead minnow 7 d mortality test - LC50	mg/L	-	> 100
Daphnia 48 h Static Acute Test - EC50	mg/L	> 100	-
LC50 (96h) - Rainbow Trout	mg/L	> 100	-
Concentration of effluent causing biomass inhibition in 25% of Lemna	mg/L	-	> 97.0
Concentration of effluent causing frond number inhibition in 25% of Lemna	%	-	59

MEL-14	Sample Date	10/1/2019
Parameter	Unit	
pH	pH units	7.31
Conductivity	uS/cm	2171
Temperature	°C	3.5

Dissolved oxygen	mg/L	12
Dissolved oxygen	%	91
pH	pH units	7.36
Specific conductivity	umhos/cm	2100
Hardness, as CaCO ₃	mg/L	385
Hardness, Calcium Carbonate	mg/L	422
Biochemical Oxygen Demand, 5 Day	mg/L	< 2
Total dissolved solids	mg/L	860
Total suspended solids	mg/L	2
Total organic carbon	mg/L	3.6
Dissolved organic carbon	mg/L	3.6
Turbidity	NTU	0.2
Dissolved Oxygen	mg/L	10.5
Total alkalinity, as CaCO ₃	mg/L	24
Bicarbonate, as CaCO ₃	mg/L	24
Calcium	mg/L	108
Carbonate, as CaCO ₃	mg/L	< 1.0
Chloride	mg/L	530
Cyanide Total	mg/L	0.0054
Cyanide Free	mg/L	< 0.0010
Cyanide WAD	mg/L	< 0.0010
Magnesium	mg/L	28
Potassium	mg/L	14.1
Sodium	mg/L	214
Sulphate	mg/L	74
Silica	mg/L	0.68
Nitrate	mg/L	13.6
Nitrite	mg/L	0.366
Nitrate + nitrite	mg/L	14
Total ammonia	mg/L	4
Total Kjeldahl nitrogen	mg/L	4.3
Total phosphorus	mg/L	< 0.020
Orthophosphate	mg/L	< 0.010
Aluminum	mg/L	0.117
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00104
Barium	mg/L	0.0554
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Boron	mg/L	0.353
Cadmium	mg/L	0.000025
Calcium	mg/L	124
Chromium	mg/L	< 0.0010

Cobalt	mg/L	0.00052
Copper	mg/L	0.00072
Iron	mg/L	0.08
Lead	mg/L	< 0.00020
Lithium	mg/L	0.0822
Magnesium	mg/L	27.5
Manganese	mg/L	0.038
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0014
Nickel	mg/L	0.0034
Potassium	mg/L	15.3
Selenium	mg/L	0.00014
Silicon	mg/L	0.659
Silver	mg/L	< 0.000020
Sodium	mg/L	215
Strontium	mg/L	2.15
Sulphur	mg/L	32.7
Thallium	mg/L	0.000024
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00028
Vanadium	mg/L	< 0.0050
Zinc	mg/L	0.0145
Zirconium	mg/L	< 0.00010
Aluminum	mg/L	0.0192
Antimony	mg/L	< 0.00050
Arsenic	mg/L	0.00084
Barium	mg/L	0.0499
Beryllium	mg/L	< 0.00010
Bismuth	mg/L	< 0.0010
Boron	mg/L	0.339
Cadmium	mg/L	0.000023
Chromium	mg/L	< 0.0010
Cobalt	mg/L	0.00048
Copper	mg/L	0.00068
Iron	mg/L	0.0444
Lead	mg/L	< 0.00020
Lithium	mg/L	0.07
Manganese	mg/L	0.0309
Mercury	mg/L	< 0.00001
Molybdenum	mg/L	0.0012
Nickel	mg/L	0.0034
Selenium	mg/L	0.00012

Silicon	mg/L	0.529
Silver	mg/L	< 0.000020
Strontium	mg/L	2.07
Sulphur	mg/L	28.4
Thallium	mg/L	0.000022
Tin	mg/L	< 0.0050
Titanium	mg/L	< 0.0050
Uranium	mg/L	0.00025
Vanadium	mg/L	< 0.0050
Zinc	mg/L	0.0132
Zirconium	mg/L	< 0.00010
Benzene	mg/L	< 0.00020
Ethylbenzene	mg/L	< 0.00020
Toluene	mg/L	< 0.00020
Xylenes	mg/L	< 0.00040
m,p-Xylenes	mg/L	< 0.00040
o-Xylene	mg/L	< 0.00020
F1 (C6-C10)-BTEX	mg/L	< 0.025
F1 (C6-C10)	mg/L	< 0.025
F2 (C10-C16)	mg/L	< 0.1
F3 (C16-C34)	mg/L	< 0.2
F4 (C34-C50)	mg/L	< 0.2
Reached baseline at C50	mg/L	YES
Daphnia 48 h static acute test - LC50	mg/L	> 100
Daphnia 48 h Static Acute Test - EC50	mg/L	> 100
LC50 (96h) - Rainbow Trout	mg/L	> 100
Radium-226	Bq/l	< 0.0050

MEL-26	Sample Date	10/1/2019	10/7/2019
Parameter	Unit		
pH	pH units	6.21	6.54
Conductivity	uS/cm	24573	2889.4
Temperature	°C	2.7	2.1
Dissolved oxygen	%	82.7	131.4
pH	pH units	6.40 6.46	7.19 7.29
Specific conductivity	umhos/cm	26000	28000
Hardness, as CaCO3	mg/L	5210	5830
Hardness, Calcium Carbonate	mg/L	5080	5690
Total dissolved solids	mg/L	16900	27000 18300
Total suspended solids	mg/L	14	17
Total organic carbon	mg/L	22	28
Dissolved organic carbon	mg/L	23	27
Turbidity	NTU	0.4	1

Dissolved Oxygen	mg/L	10.9	10
Sodium Adsorption Ratio	-	24	25
Total alkalinity, as CaCO ₃	mg/L	11	57
Bicarbonate, as CaCO ₃	mg/L	11	57
Calcium	mg/L	1190 1100	1370 1400
Carbonate, as CaCO ₃	mg/L	< 1.0	< 1.0
Chloride	mg/L	7900 9100	9000 9300
Cyanide	mg/L	0.045 0.057	0.03 0.13
Magnesium	mg/L	543 550	586 620
Potassium	mg/L	174 170	189 190
Sodium	mg/L	3810 4000	3970 4400
Sulphate	mg/L	1000 990	1100 1000
Silica	mg/L	8.8	11
Cyanide (free)	mg/L	0.015	0.018
Nitrate	mg/L	60.2	71.1
Nitrite	mg/L	0.994	1.1
Nitrate + nitrite	mg/L	61.2	72.2
Total ammonia	mg/L	23	28
Total Kjeldahl nitrogen	mg/L	42	44
Total phosphorus	mg/L	0.098	0.084
Orthophosphate	mg/L	< 0.010	< 0.010
Aluminum	mg/L	0.31	0.464
Antimony	mg/L	< 0.01	< 0.0050
Arsenic	mg/L	0.0055	0.0065
Barium	mg/L	0.261	0.324
Beryllium	mg/L	< 0.0020	< 0.0010
Bismuth	mg/L	< 0.02	< 0.01
Boron	mg/L	< 1	0.747
Cadmium	mg/L	< 0.00020	0.00037
Calcium	mg/L	1170	1320
Chromium	mg/L	< 0.02	< 0.01
Cobalt	mg/L	0.0075	0.0092
Copper	mg/L	< 0.01	0.0081
Iron	mg/L	< 0.2	< 0.1
Lead	mg/L	< 0.0040	0.0034
Lithium	mg/L	0.544	0.705
Magnesium	mg/L	523	584
Manganese	mg/L	0.28	0.388
Mercury	mg/L	< 0.00001	< 0.00001
Molybdenum	mg/L	< 0.02	0.018
Nickel	mg/L	0.045	0.058
Potassium	mg/L	169	184
Selenium	mg/L	< 0.0020	0.0018

Silicon	mg/L	2.84	4.67
Silver	mg/L	< 0.00040	< 0.00020
Sodium	mg/L	3760	4250
Strontium	mg/L	24.9	28.1
Sulphur	mg/L	403	508
Thallium	mg/L	< 0.00020	0.00016
Tin	mg/L	< 0.1	< 0.05
Titanium	mg/L	< 0.1	< 0.05
Uranium	mg/L	0.0041	0.0073
Vanadium	mg/L	< 0.1	< 0.05
Zinc	mg/L	< 0.1	< 0.05
Zirconium	mg/L	< 0.0020	< 0.0010
Aluminum	mg/L	0.165	0.25
Antimony	mg/L	< 0.01	< 0.01
Arsenic	mg/L	0.0054	0.0051
Barium	mg/L	0.276	0.321
Beryllium	mg/L	< 0.0020	< 0.0020
Bismuth	mg/L	< 0.02	< 0.02
Boron	mg/L	< 1	< 1
Cadmium	mg/L	0.00028	0.00029
Chromium	mg/L	< 0.02	< 0.02
Cobalt	mg/L	0.0079	0.0088
Copper	mg/L	0.0067	0.0086
Iron	mg/L	< 0.1	< 0.1
Lead	mg/L	< 0.0040	< 0.0040
Lithium	mg/L	0.543	0.676
Manganese	mg/L	0.303	0.364
Mercury	mg/L	< 0.00001	< 0.00001
Molybdenum	mg/L	< 0.02	< 0.02
Nickel	mg/L	0.048	0.06
Selenium	mg/L	< 0.0020	< 0.0020
Silicon	mg/L	3.46	3.97
Silver	mg/L	< 0.00040	< 0.00040
Strontium	mg/L	26.4	30.1
Sulphur	mg/L	417	451
Thallium	mg/L	< 0.00020	< 0.00020
Tin	mg/L	< 0.1	< 0.1
Titanium	mg/L	< 0.1	< 0.1
Uranium	mg/L	0.0042	0.006
Vanadium	mg/L	< 0.1	< 0.1
Zinc	mg/L	< 0.1	< 0.1
Zirconium	mg/L	< 0.0020	< 0.0020
LC50 (96h) - Threespine Stickleback	mg/L	Non-lethal	Non-lethal

Radium-226	Bq/l	0.07	0.061
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Meliadine Surface Runoff	Sample Date	10/21/2019	10/21/2019	10/21/2019
	Sample Name	MEL-SR1	ITIVIA MEL-SR3	MEL-SR7
Parameter	Unit			
pH	pH units	8.32	7.94	8.1
Conductivity	uS/cm	530.4	45154	540.8
Temperature	°C	0	0	2
Dissolved oxygen	%	86.6	75.9	87.6
pH	pH units	8.18	7.87	8.16
Total dissolved solids	mg/L	575	28800	555
Total suspended solids	mg/L	2	19	3
Turbidity	NTU	0.9	0.5	0.7
Hardness, Calcium Carbonate	mg/L	312	5160	325
Total alkalinity, as CaCO3	mg/L	160	100	170
Chloride	mg/L	110	15000	110
Cyanide	mg/L	< 0.0050	< 0.0050	< 0.0050
Fluoride	mg/L	0.11	0.52	0.11
Sulphate	mg/L	120	2000	130
Nitrate	mg/L	0.28	< 0.10	0.17
Nitrite	mg/L	< 0.010	< 0.010	< 0.010
Nitrate + nitrite	mg/L	0.28	< 0.10	0.17
Total ammonia	mg/L	< 0.050	0.18	0.12
Total phosphorus	mg/L	< 0.020	0.058	< 0.020
Orthophosphate	mg/L	< 0.010	0.017	< 0.010
Total oil and grease	mg/L	0.9	< 0.50	< 0.50
Aluminum	mg/L	0.05	0.092	0.0608
Antimony	mg/L	< 0.00050	< 0.01	< 0.00050
Arsenic	mg/L	0.0022	0.0024	0.00122
Barium	mg/L	0.0366	< 0.02	0.0398
Beryllium	mg/L	< 0.00010	< 0.0020	< 0.00010
Bismuth	mg/L	< 0.0010	< 0.02	< 0.0010
Boron	mg/L	< 0.05	3.44	< 0.05
Cadmium	mg/L	0.000015	< 0.00020	0.000013
Calcium	mg/L	97.3	342	102
Chromium	mg/L	< 0.0010	< 0.02	< 0.0010
Cobalt	mg/L	0.00035	< 0.0040	0.00041
Copper	mg/L	0.00331	< 0.01	0.00237
Iron	mg/L	0.11	< 0.2	0.175
Lead	mg/L	< 0.00020	< 0.0040	< 0.00020
Lithium	mg/L	0.01	0.146	0.0092
Magnesium	mg/L	16.9	1050	17
Manganese	mg/L	0.0199	< 0.02	0.053

Mercury	mg/L	< 0.00001	< 0.00001	< 0.00001
Molybdenum	mg/L	0.0012	< 0.02	0.0014
Nickel	mg/L	0.0099	< 0.02	0.0033
Potassium	mg/L	8.42	323	8.41
Selenium	mg/L	< 0.00010	< 0.0020	< 0.00010
Silicon	mg/L	1.82	< 2	1.79
Silver	mg/L	< 0.000020	< 0.00040	< 0.000020
Sodium	mg/L	50.7	8730	47.7
Strontium	mg/L	0.456	7.29	0.468
Sulphur	mg/L	42.9	807	45.1
Thallium	mg/L	< 0.000010	< 0.00020	< 0.000010
Tin	mg/L	< 0.0050	< 0.1	< 0.0050
Titanium	mg/L	< 0.0050	< 0.1	< 0.0050
Uranium	mg/L	0.00235	0.0029	0.0024
Vanadium	mg/L	< 0.0050	< 0.1	< 0.0050
Zinc	mg/L	0.0104	< 0.1	0.0115
Zirconium	mg/L	0.0001	< 0.0020	< 0.00010

SECTION 3 • MATERIAL MANAGEMENT

3.1 LANDFILL / LANDFARM

The volume of material placed into the landfill is evaluated through periodic surveys. According to the most recent survey done November 12th, the landfill contained approximately 16,340 m³ of material.

In October 2019, approximately 1m³ of contaminated soil was transferred to the Type A Landfarm as a result of minor spills cleanup.

3.2 ORE

Approximately 103,307 tonnes of ore were processed through the Mill in October. 4,824 tonnes of ore were stockpiled.

3.3 WASTE ROCK STORAGE FACILITY

In October, a total of 26,564 tonnes of waste rock was removed in the mine development process. 180 tonnes were used as underground dry rockfill. No waste was stockpiled for progressive closure cover.

3.4 TAILINGS

58,328 dry tonnes of filtered tailings were sent to the Tailing Storage Facility in October 2019. 44,978 tonnes of tailings were used for paste underground backfill.

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

All spills reported internally (8) are listed in the table 4.1 below and were managed according to Agnico's spill contingency plan. Spills were contained and cleaned up, contaminated material was disposed of in an appropriate manner, and the clean-up actions were monitored closely by the Environment Department.

reportable spills occurred in October 2019.

Table 4.1: Summary of Agnico's Spill Reports in October 2019

Date and time of occurrence	Material	Estimated quantity (l)	Location	Description of incident	Describe immediate corrective actions
Friday, October 04, 2019 2:00:00 AM	Hydraulic Oil	0.50	Drill #4 SH-89	Small leak during maintenance	Picked-up residue and cleaned area.
Saturday, October 05, 2019 10:00:00 AM	Hydraulic Oil	5.00	In front of Dome 1 garage	Hydraulic oil spill noticed. One hydraulic hose was not capped and the hydraulic tank's valve were not closed, which created a gravitational spill. Oil leaked on the outside of the drill's control.	Hose capped right away, hydraulic tank's valve were closed as well. Absorbant pads installed around spill.
Thursday, October 10, 2019 5:00:00 AM	Partially treated Sewage	20.00	Main Camp STP	An overflow check valve failed in the main camp sewage treatment plant. This caused a tank to overflow, releasing partially treated effluent into the building.	Contaminated material was brought to the landfarm.
Friday, October 11, 2019 7:00:00 AM	Fuel	20.00	Front of maintenance shop	Jerry can left open and fell on the side.	Spill was contained using absorbent pads and contaminated material was brought to the landfarm.
Sunday, October 13, 2019 4:00:00 AM	Contaminated water	20.00	SETP	Water containing diluted sodium hypochlorite was drained onto the ground inside the building and approx. 20L went outside the building at some	Diluted chemical dissipated into air, no further action was needed.

				point during night shift.	
Tuesday, October 22, 2019 2:30:00 PM	Contaminated water	20.00	Main camp	While cleaning a clogged chlorine pipe the extra amount of chlorine introduced in the system caused the membranes create excessive foam and resulted in the overflow pipe spilling the content.	Spill was pumped right away with the vacuum truck (ground was frozen so the spill didn't have time to infiltrate ground).
Saturday, October 26, 2019 5:00:00 PM	Hydraulic Oil	1.00	North process plant	Hydraulic hose was dripping small drops of hydraulic oil.	Spill rags were deployed around hose which was sent to maintenance.
Sunday, October 27, 2019 4:30:00 PM	Hydraulic Oil	50.00	OP2 on surface	65HTR13 had a busted hydraulic hose at OP2 on surface.	Absorbent pads were used to clean up spill and contaminated material was brought to the land farm.