



AGNICO EAGLE

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: APRIL 2017

WATER LICENCE 2BB-MEL1424

**SUBMITTED TO THE
NUNAVUT WATER BOARD**

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A. This monthly report is delivered under water license 2BB-MEL1424, PART J, Item 13.

1. *The Licensee shall maintain Monitoring Stations at the following locations:*

Table 1: Monitoring stations

Monitoring Program Station Number	Description	Status
MEL-1	Raw water supply intake at Meliadine Lake	Active (Volume cubic metres)
MEL-2	Raw water supply intake at Pump, A8 or other Lakes	Active (Volume cubic metres)
MEL-5	Point of discharge for the Bermed Fuel Containment Facilities	Active
MEL-6	Effluent from the Landfarm Treatment Facility prior to release	New
MEL-7	Final Effluent Discharge from the BIODISK treatment system	Active
MEL-8	Point of discharge or runoff from the Non-Hazardous Waste Landfill	(New) Active

2. *The Licensee shall measure and record, in cubic metres, the daily quantities of water utilized for camp, drilling and other purposes from all sources.*

MEL-1	Daily average (m ³)
Camp	35.79
Construction	0.75
MEL-2 (A8)	
Underground	2.48
Drilling	9.34
Not MEL-1 or MEL-2	
Drilling	10.27
April Daily Average	58.63
Total April	1759
Total 2017	5256

MEL-1: 541943E, 6989174N

MEL-2 (A8): 540076E, 6987731N

3. *The Licensee shall measure and record the volume of all soil from all locations entering the Landfarm Treatment Facility.*

In April, 557 m³ of contaminated soil was brought to the landfarm following April 8th spill at the fuel tank farm. Contaminated snow was stored in the landfarm and then transferred to the snow cell in P1.

4. *The Licensee shall assess and record the concentration of F1 – F4 fractions in petroleum hydrocarbon contaminated soil, according to the CCME Canada-Wide Standard for Petroleum Hydrocarbons (PHC) in Soil that is entering the Land Treatment Unit from all sources and excavations.*

No soil samples were taken in April in the landfarm.

5. *The Licensee shall provide the GPS coordinates (in decimal degrees) of all locations where wastes associated with camp operations and exploration activities are deposited.*

Landfill:

Latitude: 63.030631

Longitude: -92.22089

6. *Licensee shall sample at Monitoring Program Station MEL-7, monthly during wastewater effluent discharge. Samples shall be analyzed for the parameters listed under Part G Item 11.*

Biochemical Oxygen Demand – BOD5

Total Suspended Solids

Oil and Grease (and visual)

Fecal Coliforms

pH

Five (5) samples were collected during the month. There were no water license exceedances.

Station: STP-FINAL		April				
DATE	Limits	4/3/2017	4/12/2017	4/20/2017	4/24/2017	4/27/2017
Biochemical Oxygen Demand	80	48	7	13	30	
pH	6.0 - 9.5	7.02	7.09	6.83	6.97	7.5
Phosphorus (P)-Total		13	12	12	12	12
Total Suspended Solids	100	8	5	4	7	4
Oil & Grease-(IR)	5	<0.50	<0.5	<0.50	0.9	0.9
Atypical		38,000	7,000	1400	3200	<10
Fecal Coliforms (CFU/100mL)	1000	<2	100	<2	<2	<2
Heterotrophic Plate Count (AAHB) (CFU/100mL)		>30000	>30000	20,600.00	>20000	36
Total Coliforms (CFU/100mL)		3,000	10,000	5900	2800	<10

7. *The Licensee shall, prior to the release of effluent from the Bermed Fuel Containment Facilities at Monitoring Program Station Mel-5 and the Landfarm Treatment Facility at Monitoring Program Station MEL-6 for the purpose of demonstrating compliance, sample for the parameters listed under Part D item 15.*

- In April, no water was released from MEL-5 or MEL-6. Agnico Eagle is monitoring water inside the bermed landfarm area (MEL-6) and around the April 8th spill to ensure meltwater migrating downstream meets water license criteria. In April, no samples were collected as freshet had not started.

8. The Licensee shall obtain representative samples of the water column below any ice where required under part F, Items 5 and 6. Monitoring shall include but not limited to the following:

Total Suspended Solids

pH

Electrical Conductivity, and

Total trace Metals as determined by a standard ICP Scan (to include at a minimum, the following elements: Al, Sb, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Li, Mn, Mo, Ni, Se, Sn, Sr, Tl, Ti, U, V, Zn), and Trace Arsenic and Mercury.

- Drilling was conducted in April. Prior to and during drilling samples were collected. After drilling samples will be collected in May and a comparison will be completed at that time. Results will be provided in the relevant Monthly Monitoring Summary Report.

B. Modify the monthly monitoring reports, starting April 2016, to include, at a minimum, waste water treatment options; and modifications of the freshet action plan.

- 1. Waste water treatment options:** In April, no water was transferred from/to the P-cells due to frozen conditions.
- 2. Modifications of the freshet action plan:** An updated version of the Freshet Action Plan was submitted with the 2016 Annual Report on March 31, 2017.
- 3. Seep:** There were no active seeps in April due to frozen conditions.

During the 2017 freshet, Agnico Eagle will assess seepage rates at DP1-B and DP3-A as requested by INAC Inspector on November 10, 2016.