

MELIADINE GOLD PROJECT

ENVIRONMENTAL REPORT: FEBRUARY 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)		
Drilling	0		
Camp	32.73		
Construction	0.39		
MEL-2 (A8)			
Underground	2.44		
February Average	35.56		
Total February	995.66		
Total 2017	1942.44		

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.

No contaminated soil was brought to the landfarm in February.

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 February as Agnico Eagle is not planning to take soil out of the landfarm in March due to frozen conditions.

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

Four (4) samples were collected during the month. All results were below allowable limits.

Station: STP-FINAL		February				
DATE	Limits	2/6/2017	2/13/2017	2/20/2017	2/27/2017	
Ammonia as N (mg/L)		44	50	38	49	
Biochemical Oxygen Demand	80	21	39	14	9	
Kjeldahl nitrogen		52	47	39	47	
pH	6.0 - 9.5	7.25	7.42	7.25	7.39	
Phosphorus (P)-Total		14	13	13	14	
Total Suspended Solids	100	10	10	6	4	
Transmitance %		20	26	29	27	
Nitrite-N		1.13	1.34	2.36	2.72	
Nitrate-N		24.1	17.4	19.1	16.2	
Nitrate and Nitrite as N		25.3	18.8	21.5	18.9	
Oil & Grease-(IR)	5	1.3	< 0.50	1.5	0.7	
Total Nitrogen (N)						
Atypical		7900	12000	>20000	2500	
Fecal Coliforms (CFU/100mL)	1000	<2	2	<2	<2	
Heterotrophic Plate Count (AAHB) (CFU/100mL)		>3000	26,000.00	>3000	11,400.00	
Total Coliforms (CFU/100mL)		500	9000	***	600	

^{***} Footnote of Certificate of Analysis: The great number of bacteria retain distinction of total coliforms and atypical colonies. Number of total coliforms may be misjudged; it is not mentioned.

- 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 February, no water was released from MEL-5 or MEL-6.
- 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

рH

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.

No drilling was done in February on any lake.

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 February, 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 will be submitted with the 2016 Annual Report.
- **3. Seep**: There were no active seeps in February 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.