



Meliadine Gold Project  
NWB 2AM-MEL1631  
January, 2019 Monthly Report

**Prepared for:**

Nunavut Water Board

**Prepared by:**

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## SECTION 1 • BACKGROUND

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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 January 2019.

## SECTION 2 • WATER MANAGEMENT

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### 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 January 2019**

	Monthly Usage (m <sup>3</sup> )
Camp (MEL-11)	2,997
Construction – Batch Plant (MEL-26 – A8)	0
Dust suppression	0
Total January	2,997
Year to date 2019	2,997

### 2.2 DEWATERING ACTIVITIES

In January 2019 no dewatering activity occurred

### 2.3 CP1

Discharge from CP1 into Meliadine Lake via the Final Discharge Point (MEL-14) ended September 3<sup>rd</sup> 2018.

### 2.4 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 January 2019.

### 2.5 SEWAGE TREATMENT PLANT

In January 2019, 2,688m<sup>3</sup> of treated wastewater was discharged into CP1. 25m<sup>3</sup> of sludge was removed during the month. The sludge is temporarily stored in totes onsite and will either be disposed of in the spring/summer in the Tailings Storage Facility as approved, utilized as nutrient in the site landfarm or shipped to the south with Agnico Eagle's hazmat. Most likely it will be a combination of the three.

### 2.6 CONTAINMENTS

No water was discharged from the Itivia fuel containment facility (Station Mel-25) in January

## **SECTION 3 • MATERIAL MANAGEMENT**

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### **3.1 LANDFILL / LANDFARM**

The volume of material placed into the landfill is evaluated through periodic surveys. According to the most recent survey, the landfill contained approximately 11,635 m<sup>3</sup> of material.

In January 2019, about 3m<sup>3</sup> of contaminated soil was transferred to the Type A Landfarm as a result of minor spills cleanup.

### **3.2 ORE**

Approximately 29,326 tonnes of ore and 3,818 tonnes of marginal ore was stockpiled in January.

### **3.3 WASTE ROCK STORAGE FACILITY**

In January, a total of 61,422 tonnes of rock was removed in the mine development process. All of this material was used in construction on site, mill commissioning and stockpiled for progressive closure cover.

### **3.4 TAILINGS**

The site is not yet in operation, but placement of the initial lifts of waste rock cover material in Cell 1 is near completion. With the commissioning of the Mill ongoing, we are preparing the site to accept filtered tailings in February 2019.

## SECTION 4 SPILL MANAGEMENT

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### 4.1 INTERNAL AND REPORTABLE SPILLS

All spills reported internally (2), and externally (2- highlighted) listed in the table 4.1 below 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.

On January 18th, While loading a storage tote containing 1 cube of emulsion onto the boom truck, the tote shifted out of the forks. The operator tried to correct by lifting the forks but the hydraulics were slow due to cold temperatures and the tote fell off of the forks. The material was picked up right away with a shovel and placed back into the original tote. No water bodies were impacted by the spill. Closest water body is A11 (397m away), and contaminated material will be processed by the emulsion plant and stored as hazmat. The follow up report was sent January 29th.

On January 20th A failure at an expansion joint of the boiler system led to a leak inside the corridor between the MSB and Mill, which eventually migrated to the road below. Once the leak was noticed and controlled approximately 200L of water containing Drewgard 4109 (corrosion inhibitor) had leaked onto the ground below. The material which froze into the snow will be scraped up and transferred to P3. No water body was impacted. The nearest body of water is >300m away. The follow up report was sent January 29th.

The spills were reported as per the obligations under the Nunavut Water Board License 2AM-MEL1631 Water Licence, part H, item 8 and the Government of Nunavut's, Environmental Protection Act, paragraph 5.1(a).

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

<b>Date and time of occurrence</b>	<b>If material not listed in dropdown or more details, enter here</b>	<b>Estimated quantity (l)</b>	<b>Exact location of incident</b>	<b>Description of incident</b>	<b>Describe immediate corrective actions</b>
1/18/2019 2:00:00 AM	Emulsion	100.00	Portal	While loading a storage tote containing 1 cube of emulsion onto the boom truck, the tote shifted out of the forks. The operator tried to correct by lifting the forks but the hydraulics were slow due to cold temperatures and the tote fell off of the forks.	The material was picked up right away with a shovel and placed back into the original tote. No water bodies were impacted by the spill. Closest water body is A11 (397m away), and contaminated material will be processed by the emulsion plant and stored as hazmat.
1/20/2019 14:00:00 PM	Other	200.00	Site Roads	A failure at an expansion joint of the boiler system led to a leak inside the corridor between the MSB and Mill, which eventually migrated to the road below.	Once the leak was noticed and controlled approximately 200L of water containing Drewgard 4109 (corrosion inhibitor) had leaked onto the ground below. The material which froze into the snow will be scraped up and transferred to P3.
1/23/2019 13:00:00 PM	Hydraulic Oil	10.00	Batch Plant	Hydraulic leak.	Spill was contained and contaminated soil picked up and disposed of appropriately

1/24/2019 13:00:00 PM	Glycol	10.00	Powerhouse	During a morning powerhouse inspection, Sylvain noticed a pink patch of snow under a vent pipe of one of the main coolant lines to the radiators. This vent has no drain line to a toe, like the other vents. Spill was not noticed the previous day.	Contaminated snow picked up and disposed of adequately
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