



Meliadine Gold Project
NWB 2AM-MEL1631
July 2018 Monthly Report

Prepared for:

Nunavut Water Board

Prepared by:

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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 July 2018.

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 July 2018

	Monthly Usage (m ³)
Camp (MEL-11)	2,528
Construction – Batch Plant (MEL-26 – A8)	134
Dust suppression	0
Total July	2,662
Year to date 2018	14,788

2.2 DEWATERING ACTIVITIES

No dewatering activities occurred in July 2018.

2.3 CP1

Discharge from CP1 into Meliadine Lake via the Final Discharge Point (MEL-14) commenced on June 21st 2018. The total amount of water discharged in July was 352,551 m³.

No reclaim water was obtained from CP1 and it is not planned in the near future to use reclaimed water.

2.4 SEEPAGE AND RUNOFF FROM THE LANDFILL

The 2AM-MEL1631 landfill and landfarm were commissioned in November 2017. No seepage or runoff was observed in July 2018.

2.5 SEWAGE TREATMENT PLANT

In July 2018, 2,518 m³ of water were discharged into CP1. 15 m³ of sludge was removed during the month.

2.6 CONTAINMENTS

No water was discharged from the Itivia fuel containment facility as per the station Mel-25 in July.

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, the landfill contained approximately 7,500 m³ of material.

Small amount of contaminated soil and rock were placed into the landfarm in July 2018 (less than 5m³) as a result of minor petroleum product spills

3.2 ORE

Approximately 3,514 tonnes of ore and 2,226 tonnes of marginal ore has been stockpiled in July.

3.3 WASTE ROCK STORAGE FACILITY

In July a total of 39,587 tonnes of rock was mined underground in the process of mine development.

3.4 TAILINGS

No tailings have been stored to date.

SECTION 4 SPILL MANAGEMENT

4.1 INTERNAL AND REPORTABLE SPILLS

All spills reported internally (6), and externally (3- highlighted) listed in the table 4.1 below were managed according to Agnico's spill contingency plan.

Spills were contained and cleaned, contaminated material was disposed in appropriate manner, and the clean-up actions were monitored closely by the Environment Department.

On July 11th, it was noted that hydraulic oil from equipment spilled to road base material on the bypass road. After discussion with INAC it was explained that the spill should be reported as it was within 31m of a fish bearing waterway, which feeds into the bay.

On July 8, 2018, a sewage sludge spill occurred at the Main-STP at the Meliadine Site. During the night a pump failed on the membrane train #2. This action overfilled the tank and caused overflow

On July 20th, after loading a water truck with treated water from the retention tank at exploration camp's Sewage Treatment Plant, the operator proceeded to drive towards the discharge location at CP1. On his way a colleague contacted him informing that the truck was leaking water.

These spills were reported as per the obligations under the Nunavut Water Board License 2AM-MEL1631, Part D, item 18 pursuant to subsection 12(3) of the Nunavut Waters and Nunavut Surface Rights Tribunal Act.

Table 4.1: Summary of Agnico's Spill Reports in May 2018

Date and time of occurrence	Material spilled/released	Estimated quantity (l)	Exact location of incident	Description of incident	Describe immediate corrective actions
4-Jul-18	Petroleum products	20.00	Industrial Pad	Employees and mechanics were replacing a hydraulic hose on CI-07. During the change oil started leaking from connections. Absorbent pads had been installed before the spill for prevention. No need to de-contaminate the soil as pads absorbed all of the oil.	Contained the spill and disposed of soil and absorbent pads.
4-Jul-18	Petroleum products	8.00	West side portal 2	Hose failure, immediately stopped machine. Called supervisor and cleaned the area.	Installed a new hose and disposed of soil and absorbent pads

8-Jul-18	Contaminated water	250.00	STP Main camp	During the night a pump broke down at the STP main camp on the membrane train #2. Approximately 50 l spilled on the floor of the STP and approximately 200 L outside the STP on the ground. The membrane #1 continues running normally, but the recirculating sludge was backfilling the membrane #2 tank as there is no check valve on the three-way junction on the activated sludge recirculating pipe. This action overfilled the tank and caused to escape out the overflow. As the overflow is not connected to a sewage line so the sludge went on the ground outside the STP.	The STP was stopped and a replacement pump was installed. Sewage sludge will be picked-up with a shovel and placed in drums or Quatrex bags and shipped as HAZMAT. Check valves will be installed.
9-Jul-18	Petroleum products	2.00	Electrical laydown	The frost fighter was on a snow bank during the time the snow melt, the frost fighter fall on the side and some fuel leaked on the ground.	Put frost fighter back up straight and call environment. Berm puddle to ensure that fuel did not migrate with water, used spill pads to soak up fuel and then removed berm and disposed of soil used for berm to landfarm
11-Jul-18	Petroleum products	5.00	Itivia	While operating the roller, Inuksuk employee Clayton Anauak observed hydraulic fluid leaking from the roller's vibrator pump. Mr. Anauak immediately contacted supervisor Tony King and advised him of the situation.	Spill was contained and contaminated soil picked up and disposed of appropriately
17-Jul-18	Petroleum products	10.00	375 RP3	Leaking hydraulic hose 10L or less	Used spill matting replace hose immediately
20-Jul-18	Treated water	3,000.00	Road From explo to main camp	After loading TRK4 with treated water from the retention tank at explo camp. Operator forgot to close rear valve. Operator proceeded to drive to CP-1 to discharge. On his way a colleague contacted him informing that the truck was leaking water	Operator stopped and closed valve
26-Jul-18	Petroleum products	1.00	Industrial Pad	On July 26, 2018, I picked up the tractor, which was located in front of the mechanic shop around 8:30am. I drove over to dome 1 to fuel up the tractor. Once parked and started to fuel, I noticed right away that the fuel was leaking from around the stairs going up to the cab.	Spill was contained and contaminated soil picked up and disposed of appropriately.

31-Jul-18	Petroleum products	20.00	Itivia Area	<p>At approximately 6am this morning we had a diesel spill down at itivia. It was from the Volvo 330 loader and amounted to approximately 20L. It was not an over fill but a leak in the tank from having over ¾ full.</p> <p>This information was not made aware to myself or Dave about the deteriorating seal near the top of the fuel tank, resulting in this spill.</p> <p>The mechanics are aware and did their inspections of the equipment at approximately 7am.</p>	<p>Spill was contained and contaminated soil picked up and disposed of appropriately.</p>
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