



MELIADINE DIVISION

Monitoring Program Summary Report

March 2017

Type A Water License 2AM-MEL1631

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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 for the month.

In addition, a summary of spills/actions for the month is reported.

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Table 1 details monthly water usage approved under Water License 2AM-MEL1631. No water was used for dust suppression activities.

MEL-11	Monthly Usage (m ³)
Camp	288
MEL-26 (A8)	
Construction – Batch Plant	0
Total March	288
Total 2017	288

2.2 DEWATERING ACTIVITIES

No dewatering activities occurred in March.

2.3 CP1

No water has been retained or transferred from CP1. The dike D-CP1 is being built.

2.4 SEEPAGE AND RUNOFF FROM THE LANDFILL

The 2AM-MEL1631 landfill is currently not in operation therefore no seepage or runoff was observed.

2.5 SEWAGE TREATMENT PLANT

During the month of March, construction and assembly of the Sewage Treatment Plant was completed. The Commissioning phase has started and is still ongoing. No discharge into CP1 occurred in March. No sewage sludge was disposed of in March.

2.6 CONTAINMENTS

No water was discharged from any containments pertaining to this license.

SECTION 3 • MATERIAL MANAGEMENT

3.1 LANDFILL / LANDFARM

The Landfill is currently not in operation, so no material was placed in it.

The Landfarm is currently not in operation, so no material was placed in it.

3.2 ORE

No ore has been piled or processed.

3.3 WASTE ROCK STORAGE FACILITY

In the month of March, a total of 10,747 m³ of rock were mined underground for ramp advancement and used for construction purposes (e.g. road, dikes, etc).

3.4 TAILINGS

No tailings have been stored to date.

SECTION 4 • SPILL MANAGEMENT

In the month of March, there was one (1) reportable spill which occurred. Table 4.1 depicts the internal reported spills for the Meliadine Project. The reported spill is bolded in the below table.

Table 4.1: Summary of AEM Internal Spill Reports

Date of Spill	Hazardous Material (Fuel, Oil, etc.)	Quantity (L)	Location	Cause of spill	Clean-up action taken
3/1/2017	Engine Oil	0.3	Camp	Small oil leak underneath truck an originating from oil pan.	Contaminated snow picked up and disposed of adequately.
3/2/2017	Diesel	0.3	Portal	Fuel hose leaking on tractor.	Spill was contained and contaminated soil picked up and disposed of appropriately.
3/2/2017	Hydraulic Oil	0.5	Portal	Hydraulic leak on input hose due to wear and tear.	Contaminated snow picked up and disposed of adequately
3/12/2017	Radiator Coolant	3	DCP01	Radiator coolant leak.	Deployed mean of containments/properly collected and disposed.
3/13/2017	Engine Coolant	4	Nuna Shop Yard	Unknown cause.	Contaminated snow recovered and properly disposed of.
3/13/2017	Fecal Coliforms	Concentration: 7000 CFU/mL	Downstream of Sewage Treatment Plant	Unknown cause.	Spill was reported upon receiving results from the lab. An investigation is being completed to better understand the cause of this spill.
3/22/2017	Hydraulic Oil	30	Industrial Pad	Broken hydraulic hose.	Spill was contained and contaminated soil picked up and disposed of appropriately
3/22/2017	Compressor Oil	1	Industrial Pad	Broken hydraulic hose.	Contaminated soil picked up and disposed of appropriately
3/23/2017	Hydraulic Oil	10	Portal	Busted Hose	Spill was contained and contaminated soil picked up and disposed of appropriately
3/24/2017	Antifreeze	1	Portal	While staged at the Nuna construction shop the Hertz Air compressor began to leak coolant.	Contaminated snow picked up and disposed of adequately
3/26/2017	Engine Oil	0.5	Portal	While attempting to transfer a small quantity of used oil in a plastic pail to the proper storage location a small amount spilled onto the snow covered ground.	Contaminated snow picked up and disposed of adequately
3/27/2017	Diesel	5	Portal	Overflow on tank; some fuel in snow on top and side of the tank	Contaminated snow picked up and disposed of adequately
3/27/2017	Diesel	25	Portal	Overflow on tank; some fuel in snow on top and side of the tank	Contaminated snow picked up and disposed of adequately
3/27/2017	Diesel	3	Camp	Overflow on tank; some fuel in snow on top and side of the tank	Contaminated snow picked up and disposed of adequately
3/27/2017	Diesel	5	Fuel farm	Overflow on tank; some fuel in snow on top and side of the tank	Contaminated snow picked up and disposed of adequately
3/28/2017	Antifreeze	2	Industrial Pad	At the end of the shift a spill was noticed on the ground underneath the welding machine.	Contaminated snow picked up and disposed of adequately

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3/30/2017	Hydraulic Oil	10	Portal	Hydraulic hose between the boom and the stick fitting broke and caused an oil leak.	Contaminated snow picked up and disposed of adequately
3/31/2017	Hydraulic Oil	3	Industrial Pad	Traction hydraulic hose broke and caused a spill.	Contaminated snow picked up and disposed of adequately
3/31/2017	Transmission Fluid	1.5	Industrial Pad	Employee added more oil than was necessary to the chain case of the crane - caused overflow.	Contaminated snow picked up and disposed of adequately