



MELIADINE DIVISION

Monitoring Program Summary Report

September 2016

Type A Water License 2AM-MEL1631

Table of Contents

SECTION 1 • BACKGROUND.....	3
SECTION 2 • WATER MANAGEMENT	4
2.1 WATER USAGE	4
2.2 DEWATERING ACTIVITIES	4
2.3 CP1	4
2.4 SEEPAGE AND RUNOFF FROM THE LANDFILL.....	4
2.5 SEWAGE TREATMENT PLANT	4
2.6 CONTAINMENTS.....	4
SECTION 3 • MATERIAL MANAGEMENT	5
3.1 LANDFILL / LANDFARM	5
3.2 ORE	5
3.3 WASTE ROCK STORAGE FACILITY.....	5
3.4 TAILINGS	5
SECTION 4 • SPILL MANAGEMENT	6

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

No water was used under this License for:

- a) MEL-01
- b) Water for Dust Suppression

2.2 DEWATERING ACTIVITIES

Dewatering of pond H17 started on August 21 and continued until October 1st. Water was discharged into Meliadine Lake via a diffuser. A total of 124,920 m³ was pumped to Meliadine Lake during the month of September. Total year to date is 173,326 m³.

Four (4) weekly dewatering samples were collected at MEL-D-1 as per Water Licence 2AM-MEL1631 and MMER Regulations in September 2016. TSS results did not exceed the maximum allowable grab sample concentration (30 mg/L) and maximum average concentration (15 mg/L) permitted by Water License, Part D, Item 12. TSS monitoring results for September 2016 are shown in table 1 below.

Parameters	Units	5-Sept-16	12-Sept-16	19-Sept-16	26-Sept-16	Maximum Average Concentration
Total Suspended Solids	mg/L	10.0	1.00	6.00	8.00	6.25

2.3 CP1

No water has been retained or transferred from CP1.

2.4 SEEPAGE AND RUNOFF FROM THE LANDFILL

The landfill is currently not in operation therefore no seepage or runoff was observed.

2.5 SEWAGE TREATMENT PLANT

The sewage treatment plant under this license is not in use yet.

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 September, no waste rock was placed in the waste rock storage facility. A total of 7,880 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 September there were 0 reportable spills which occurred. Table 4.1 depicts the internal reported spills for the Meliadine Project.

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
9/1/2016	Petroleum products	20	Construction Dome Parking	Unreported spill	Spill was cleaned as best as possible upon notification.
9/1/2016	Grease	5	Waste rock area	Unreported spill	Spill was cleaned as best as possible upon notification.
9/2/2016	Petroleum products	30	Front of Dome 3	Unreported spill	Spill was cleaned as best as possible upon notification.
9/2/2016	Petroleum products	20	Fuel Farm	Unreported spill	Spill was cleaned as best as possible upon notification.
9/2/2016	Petroleum products	15	Front of AEM garage	Unreported spill	Spill was cleaned as best as possible upon notification.
9/1/2016	Petroleum products	4	Front of Dome 3	Boom and body valve leaking	Spill was contained using absorbent pads. The contaminated soil was appropriately disposed of.
9/9/2016	Antifreeze	2	New raised collar road	Material stored in box of pick-up truck. Spilled inside the box. Spill on the ground occurred when tailgate was lowered.	Spill kit was used and contaminated soil was moved to the landfarm.
9/14/2016	Hydraulic Oil	70	ITIVIA dock	Hydraulic oil leak	Spill was contained using absorbent pads. The contaminated soil was appropriately disposed of.
9/17/2016	Petroleum products	20	In front of Dome 9	Equipment malfunction - fuel truck pump	Spill was contained using absorbent pads. The contaminated soil was appropriately disposed of.
9/22/2016	Hydraulic Fluid	1	Beside Tank 3	Truck leaking	Spill was contained using absorbent pads. The contaminated soil was appropriately disposed of.
9/23/2016	Petroleum products	10	Fuel Farm	Fuel filter leak	Spill was contained using absorbent pads. The contaminated soil was appropriately disposed of.
9/23/2016	Petroleum products	18	Construction Garage	Unreported spill	Spill was cleaned as best as possible upon notification.
9/24/2016	Petroleum products	6	Itivia	Unreported spill	Spill was cleaned as best as possible upon notification.
9/24/2016	Petroleum products	20	AWAR KM 18	Unreported spill	Spill was cleaned as best as possible upon notification.
9/27/2016	Petroleum products	1	Industrial Pad	Grout pump malfunction in a seacan, oil hose busted	Spill was contained using absorbent pads. The contaminated soil was appropriately disposed of.
9/30/2016	Petroleum products	1	Dome 3	Unreported spill	Spill was cleaned as best as possible upon notification.
9/30/2016	Petroleum products	15	Fuel farm	Unreported spill	Spill was cleaned as best as possible upon notification.

Type A Water License 2AM-MEL1631
Monitoring Program Summary Report

9/30/2016	Petroleum products	5	Front AEM Garage	Unreported spill	Spill was cleaned as best as possible upon notification.
9/30/2016	Petroleum products	1	Camp Laydown	Unreported spill	Spill was cleaned as best as possible upon notification.
9/30/2016	Petroleum products	5	HTS JET-A Tank	Unreported spill	Spill was cleaned as best as possible upon notification.