



MELIADINE DIVISION

## **Monitoring Program Summary Report**

**November 2016**

Type A Water License 2AM-MEL1631

## Table of Contents

|   |          |
|---|----------|
| <b>SECTION 1 • BACKGROUND.....</b>            | <b>3</b> |
| <b>SECTION 2 • WATER MANAGEMENT .....</b>     | <b>4</b> |
| 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        |
| <b>SECTION 3 • MATERIAL MANAGEMENT .....</b>  | <b>5</b> |
| 3.1 LANDFILL / LANDFARM .....                 | 5        |
| 3.2 ORE .....                                 | 5        |
| 3.3 WASTE ROCK STORAGE FACILITY.....          | 5        |
| 3.4 TAILINGS .....                            | 5        |
| <b>SECTION 4 • SPILL MANAGEMENT .....</b>     | <b>6</b> |

## **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 for the month.

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

## **SECTION 2 • WATER MANAGEMENT**

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### **2.1 WATER USAGE**

No water was used under this License from MEL-01 or for dust suppression.

### **2.2 DEWATERING ACTIVITIES**

No dewatering activities occurred in November.

### **2.3 CP1**

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

### **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. In accordance with Part F Item 9, the *Operation and Maintenance Manual for the Sewage Treatment Plant* was submitted to the NWB on December 15, 2016, which is at least 90 days prior to construction/installation of facilities.

### **2.6 CONTAINMENTS**

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

## **SECTION 3 • MATERIAL MANAGEMENT**

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### **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 November, no waste rock was placed in the waste rock storage facility. A total of 12,461 m<sup>3</sup> of rock were mined underground for ramp advancement and used for construction purposes (e.g. road, dikes, etc). The total for 2016 is 100,271 m<sup>3</sup>.

### **3.4 TAILINGS**

No tailings have been stored to date.

## SECTION 4 • SPILL MANAGEMENT

In the month of November, there was no reportable spill 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   |
|---------------|--------------------------------------|--------------|----------------|--|---|
| 11/3/2016     | Oil                                  | 1            | Batch Plant    | Oil leak during maintenance operations                               | Spill cleaned up using absorbent pads.  |
| 11/4/2016     | Glycol                               | 0.25         | Industrial Pad | Coolant leak   | Spill cleaned up using absorbent pads. Contaminated snow was picked up and adequately disposed of.  |
| 11/5/2016     | Gasoline                             | 1            | Camp           | Improper procedure during refueling operations                       | Spill cleaned up using absorbent pads. Contaminated snow was picked up and adequately disposed of.  |
| 11/6/2016     | Hydraulic Oil                        | 0.5          | Camp           | Hydraulic hose hit seacan while transporting a pallet.               | The backhoe was stopped immediately and a tarp was placed under the leaking hose. Matting was placed as well and the contaminated snow was shoveled and placed in Quatrex bags. |
| 11/7/2016     | Engine Oil                           | 0.1          | Portal         | Unreported spill under parked lube truck.                            | Contaminated snow picked up and disposed of adequately.   |
| 11/7/2016     | Hydraulic Oil                        | 3            | Portal         | Broken hydraulic cylinder  | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/7/2016     | Hydraulic Oil                        | 0.25         | Industrial Pad | O-Ring collapsed inside the hydraulic hose while moving the manlift. | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/8/2016     | Hydraulic Oil                        | 0.5          | Industrial Pad | While operating the loader, the hydraulic fork hose broke.           | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/11/2016    | Other                                | 1            | Portal         | Unreported spill   | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/11/2016    | Compressor Oil                       | 3            | Industrial Pad | Broken compressor  | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/11/2016    | Hydraulic Oil                        | 2            | Portal         | Broken hydraulic hose  | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/11/2016    | Hydraulic Oil                        | 2            | Portal         | Broken hydraulic hose  | Spill was contained and contaminated soil picked up and disposed of appropriately.  |
| 11/12/2016    | Hydraulic Oil                        | 1            | Portal         | Hydraulic hose broken during maintenance operations.                 | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/13/2016    | Petroleum product                    | 1            | batch plant    | Malfunction of fuel filter   | Spill was contained and contaminated snow picked up and disposed of appropriately.  |
| 11/13/2016    | Diesel                               | 1            | Portal         | Diesel leak under parked truck.                                      | Contaminated snow picked up and disposed of appropriately.  |
| 11/13/2016    | Engine Oil                           | 1            | Portal         | Unreported spill   | Contaminated snow picked up and disposed of appropriately.  |
| 11/15/2016    | Petroleum Product                    | 1            | DCP01          | Equipment leaking  | Applied appropriate response to leak/spill and immediately contained and cleaned the affected area (snow) of leak/spill   |
| 11/15/2016    | antifreeze                           | 1            | batch plant    | Pump seal leaking  | Cleaned and picked up snow.   |
| 11/15/2016    | Petroleum Product                    | 0.5          | Process pad    | Broken hose  | Contaminated snow picked up and disposed of appropriately.  |
| 11/15/2016    | oil                                  | 0.5          | Process pad    | Broken hydraulic hose  | Affected area of leak/spill was contained and removed, stored into HAZMAT.  |
| 11/17/2016    | acid                                 | 0.1          | A&K garage     | Overheating accumulators during maintenance operations               | Affected area of leak/spill was contained and removed, stored into HAZMAT.  |

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

|            |                   |     |                       |   |  |
|------------|-------------------|-----|-----------------------|---|--|
| 11/23/2016 | Petroleum product | 1   | Beside the garage     | Broken equipment parked.  | Secondary containment put under broken equipment. Spill was cleaned up.  |
| 11/23/2016 | Petroleum product | 1   | Channel no.5          | Seal on truck leaking   | Affected area of leak/spill was contained and removed, stored into HAZMAT.   |
| 11/23/2016 | Petroleum product | 3   | Multiservice pad      | Spill under parked equipment  | Contaminated snow picked up and disposed of appropriately.   |
| 11/25/2016 | Petroleum product | 1   | A&K process plant     | Frozen pump handle used to fill the equipment.                        | Contaminated snow picked up and disposed of appropriately.   |
| 11/26/2016 | Petroleum product | 4   | Key trench excavation | Compressor leaking  | Contaminated snow cover was removed and properly disposed of and a drip tray in snow in place as a pre-cautionary measure. |
| 11/27/2016 | Petroleum product | 2.5 | Batch plant           | The employee opened the wrong valve and oil discharged on the ground. | Contaminated snow picked up and disposed of appropriately.   |