



MEADOWBANK COMPLEX

# **Monitoring Program Summary Report**

**January 2024**

Type A Water License 2AM-MEA1530

Table of Contents

SECTION 1 • BACKGROUND ..... 3

SECTION 2 • WATER MANAGEMENT ..... 4

2.1 WATER USAGE .....4

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE .....4

2.3 CENTRAL DIKE SEEPAGE .....4

2.4 ASSAY ROAD SEEPAGE .....4

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL .....4

2.6 SEWAGE TREATMENT PLANT .....5

2.7 VAULT ATTENUATION POND EFFLUENT .....5

2.8 PHASER ATTENUATION POND .....5

2.9 EAST DIKE SEEPAGE EFFLUENT.....6

2.10 NON-CONTACT WATER .....6

2.11 IN-PIT DISPOSAL .....6

SECTION 3 • SPILL MANAGEMENT ..... 7

3.1 KM87 SPILL FOLLOW UP.....8

## **SECTION 1 • BACKGROUND**

---

On May 13, 2020, Agnico Eagle received the minister's approval for the Water License 2AM-MEA1530 Amendment No.4. This amendment was required to authorize changes to the previously approved uses of water and deposit of wastes needed to reflect the expansion of the Whale Tail Mine.

As required under Part I, Item 21 of Type A Water License 2AM-MEA1530 (Amendment No.4), this report documents the water management and monitoring activities at the mine site for the month. This includes water usage, Vault Attenuation Pond and Phaser Attenuation Pond discharge and water quality, East Dike Seepage discharge water quality, RSF Seepage, Central Dike Seepage, Assay Road Seepage, sewage treatment plant discharge water quality (which is directed to the onsite storm water management pond), an update to the In-Pit disposal and follow up to the AWAR spill at Km 87.

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

## SECTION 2 • WATER MANAGEMENT

---

### 2.1 WATER USAGE

Freshwater usage for the month is summarized in Table 2.1 below.

**Table 2.1: Freshwater Usage (m<sup>3</sup>)**

Water Location	Source Lake	January	Total
Camp	Third Portage Lake	3,070	<b>3,070</b>
Mill (freshwater tank)	Third Portage Lake	67,195	<b>67,195</b>
Emulsion plant	Unnamed Lake	0	<b>0</b>
<b>Total Freshwater Usage (m<sup>3</sup>)</b>		<b>70,265</b>	<b>70,265</b>
<b>Ore Water (m<sup>3</sup>)</b>	Ore	4,895	<b>4,895</b>
<b>Reclaim Water Usage (m<sup>3</sup>)</b>	Tailings Pond	310,525	<b>310,525</b>

### 2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In January, no water was pumped back to Portage Pit from the ST-16 sump. No sampling was completed at WEP1 (Station ST-30) or WEP2 (station ST-31) during the month as they were frozen.

Agnico Eagle completed inspections at the Portage and Vault RSFs, no non-conformities were found during the month.

### 2.3 CENTRAL DIKE SEEPAGE

In January, 13,589 m<sup>3</sup> of water was pumped from ST-S-5 sump to Portage Pits.

Sampling was conducted minimally on a monthly basis at ST-S-5 as per the requirements of the NWB Water License.

Visual inspections are completed monthly, by the Environment Department, as well as daily monitoring of piezometric values.

### 2.4 ASSAY ROAD SEEPAGE

In January, no water was pumped from the mill trench back to the mill due to frozen conditions. Agnico Eagle completed inspections and no non-conformities were found during the month.

### 2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL

The landfill was inspected weekly, and no seepage or runoff was observed.

## 2.6 SEWAGE TREATMENT PLANT

One (1) effluent wastewater sample was collected at the onsite sewage treatment plant (STP) in January.

The Seprotech STP results are shown in Table 2.6.1 below; the LJ-Mix STP results are shown in Table 2.6.2. The effluent from the STP is discharged to the Stormwater Management pond.

In January, no water was pumped from the Stormwater Management pond to Portage Pits.

**Table 2.6.1: Seprotech Effluent Results**

Parameters	Units	January 8, 2024
Unionized Ammonia (NH <sub>3</sub> )	mg N/L	0.19
Ammonia-Nitrogen (NH <sub>3</sub> -NH <sub>4</sub> )	mg N/L	29
Total Kjeldahl Nitrogen	mg N/L	30
BOD-5	mg/L	8
COD	mg/L	49
Total Suspended Solids	mg/L	8
Nitrate	mg N/L	5.44
Nitrite	mg N/L	1.31
pH*	Units	7.20
Fecal Coliform	UFC/100 mL	<10
Total Coliform	UFC/100 mL	200

\*Parameter measured by STP operators

**Table 2.6.2: LJ-Mix Effluent Results**

Parameters	Units	January 8, 2024
Unionized Ammonia (NH <sub>3</sub> )	mg N/L	0.0063
Ammonia-Nitrogen (NH <sub>3</sub> -NH <sub>4</sub> )	mg N/L	7.2
Total Kjeldahl Nitrogen	mg N/L	7.8
BOD-5	mg/L	12
COD	mg/L	43
Total Suspended Solids	mg/L	14
Nitrate	mg N/L	9.34
Nitrite	mg N/L	0.644
pH*	Units	6.30
Fecal Coliform	UFC/100 mL	820
Total Coliform	UFC/100 mL	6,000

\*Parameter measured by STP operators

## 2.7 VAULT ATTENUATION POND EFFLUENT

No discharge has occurred from the Vault Attenuation Pond since October 9, 2017.

## 2.8 PHASER ATTENUATION POND

No water was pumped from the Phaser Attenuation Pond during the month.

No water was transferred from BB Phaser Pit sumps to the Phaser Attenuation Pond during the month.

## **2.9 EAST DIKE SEEPAGE EFFLUENT**

No water was discharged from the East Dike to Second Portage Lake during the month. In January, water from the East Dike seepage was discharged into Portage Pits.

## **2.10 NON-CONTACT WATER**

Portage Area East diversion ditch (ST-5) and West diversion ditch (ST-6) were not sampled in January due to the diversion ditches being frozen. Sampling is conducted during open water conditions.

## **2.11 IN-PIT DISPOSAL**

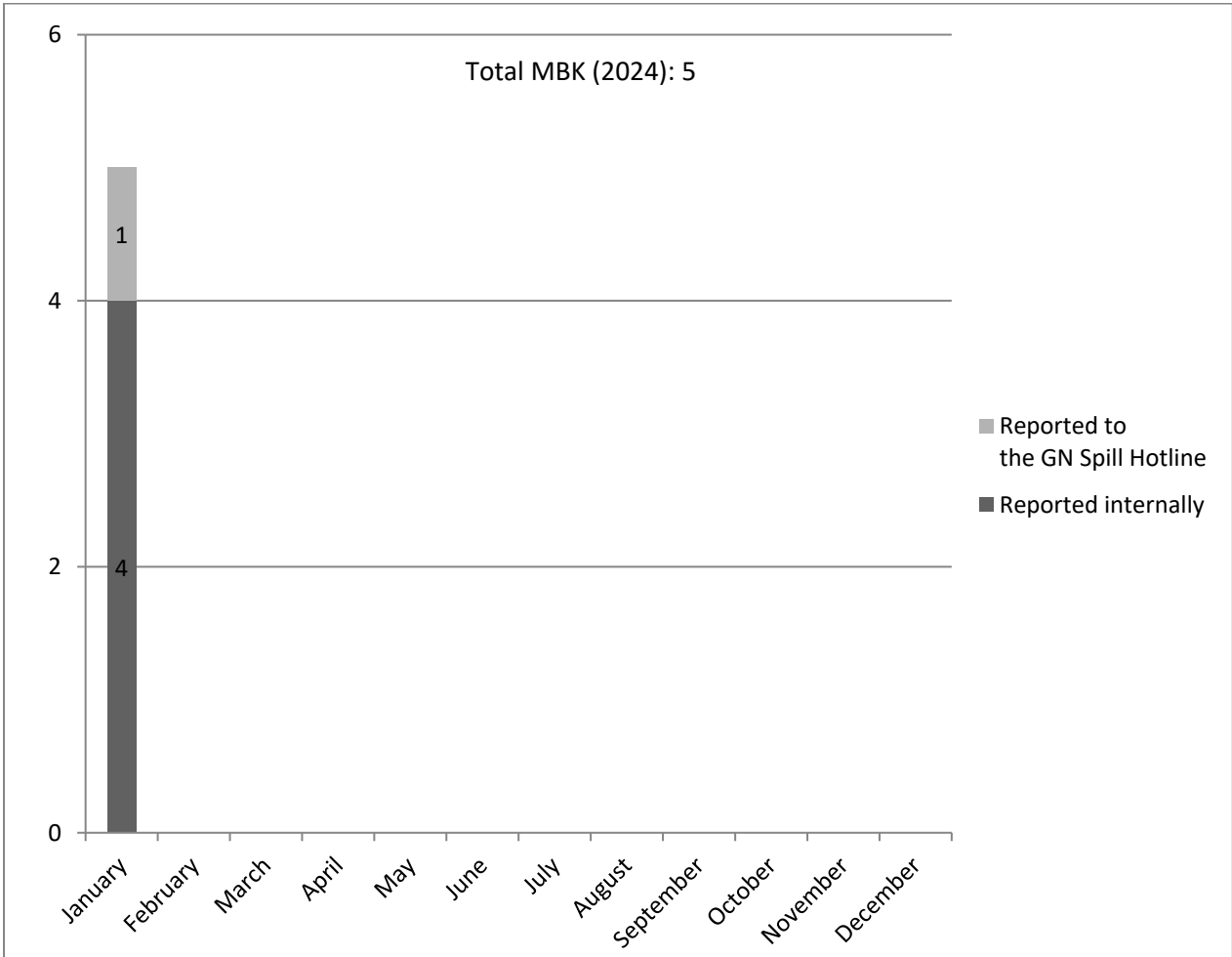
Tailings were disposed of in Portage Pits and reclaim water was taken from Portage Pits for the month.

**SECTION 3 • SPILL MANAGEMENT**

Figure 3.1 shows reported and non-reported spills for 2024 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for January.

Five (5) spills occurred on site during the month with one (1) being reported to regulators. Spills were contained and cleaned, contaminated material was disposed to the appropriate area, and the clean-up actions were monitored closely by the Environment Department.

**Figure 3.1 2024 Reported and Non-Reported Spills**



**Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, January 2024**

Date of Spill	Hazardous Material	Quantity	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
1/10/2024	Waste Oil	500	L	LHT Dome	Human Error	Contaminated snow and material was picked up for disposal at the MBK Landfarm
1/13/2024	Coolant	20	L	Winter Parking	Mechanical Failure	Contaminated snow and material was picked up and placed in the roll off bin for disposal at the MBK TSF
1/15/2024	Waste Oil	20	L	Incinerator Yard	Natural Event	Contaminated snow and material was picked up and placed in the roll off bin for disposal at the MBK Landfarm
1/25/2024	Glycol	2	L	Bay Goose Dike	Human Error	Contaminated snow and material was picked up and placed in a bucket for disposal at the MBK TSF
1/27/2024	Coolant	5	L	AWAR KM44	Mechanical Failure	Contaminated snow and material was picked up and placed in a bucket for disposal at the MBK TSF

### 3.1 KM87 SPILL FOLLOW UP

In January, Agnico Eagle completed inspections at KM87 spill areas. No samples were collected during the month due to frozen conditions.