



MEADOWBANK COMPLEX

Monitoring Program Summary Report

December 2023

Type A Water License 2AM-MEA1530

Table of Contents

SECTION 1 • BACKGROUND 3

SECTION 2 • WATER MANAGEMENT 4

2.1 WATER USAGE4

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE4

2.3 CENTRAL DIKE SEEPAGE4

2.4 ASSAY ROAD SEEPAGE5

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL5

2.6 SEWAGE TREATMENT PLANT5

2.7 VAULT ATTENUATION POND EFFLUENT6

2.8 PHASER ATTENUATION POND6

2.9 EAST DIKE SEEPAGE EFFLUENT.....6

2.10 NON-CONTACT WATER6

2.11 IN-PIT DISPOSAL6

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 (m³)

Water Location	Source Lake	Jan	Feb	March	April	May	June
Camp	Third Portage Lake	3,288	2,944	2,980	3,131	3,024	3,003
Mill (freshwater tank)	Third Portage Lake	50,174	55,874	62,407	60,918	48,147	85,133
Emulsion plant	Unnamed Lake	0	0	0	0	0	0
Total Freshwater Usage (m³)		53,462	58,818	65,387	64,049	51,171	88,136
Ore Water (m³)	Ore	5,853	5,146	5,195	4,478	2,510	5,418
Reclaim Water Usage (m³)	Tailings Pond	294,828	250,824	285,244	290,710	268,126	306,018

Water Location	Source Lake	July	Aug	Sept	Oct	Nov	Dec	Total
Camp	Third Portage Lake	3,066	2,983	2,902	2,856	2,849	2,977	36,003
Mill (freshwater tank)	Third Portage Lake	91,305	115,116	81,899	65,214	68,130	66,483	850,800
Emulsion plant	Unnamed Lake	0	0	0	0	0	0	0
Total Freshwater Usage (m³)		94,371	118,099	84,801	68,070	70,979	69,460	886,803
Ore Water (m³)	Ore	3,483	3,279	3,829	3,317	3,811	5,639	51,958
Reclaim Water Usage (m³)	Tailings Pond	313,608	294,203	301,079	280,365	245,411	284,759	3,415,175

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In December, 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 December, 18,310 m³ 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 December, no water was pumped from the mill trench back to the mill due to frozen conditions. During a routine inspection, an inflow of water was found to be contained within existing water management infrastructure previously constructed. The exact source of the spill is currently under investigation and dye testing has been utilized to eliminate areas of potential release. There has been no visual inflow observed since December 26, 2023. Continued monitoring of the area will continue on a routine basis throughout Freshet.

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 December.

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

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	December 4, 2023
Unionized Ammonia (NH ₃)	mg N/L	0.15
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	29
Total Kjeldahl Nitrogen	mg N/L	32
BOD-5	mg/L	13
COD	mg/L	59
Total Suspended Solids	mg/L	13
Nitrate	mg N/L	6.61
Nitrite	mg N/L	1.15
pH*	Units	7.10
Fecal Coliform	UFC/100 mL	60
Total Coliform	UFC/100 mL	1,300

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	December 4, 2023
Unionized Ammonia (NH ₃)	mg N/L	0.0052
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	1.2
Total Kjeldahl Nitrogen	mg N/L	41
BOD-5	mg/L	33
COD	mg/L	120
Total Suspended Solids	mg/L	35
Nitrate	mg N/L	5.97

Nitrite	mg N/L	0.488
pH*	Units	6.90
Fecal Coliform	UFC/100 mL	>60,000
Total Coliform	UFC/100 mL	-

*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 December, 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 December 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 2023 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for December.

Four (4) 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 2023 Reported and Non-Reported Spills

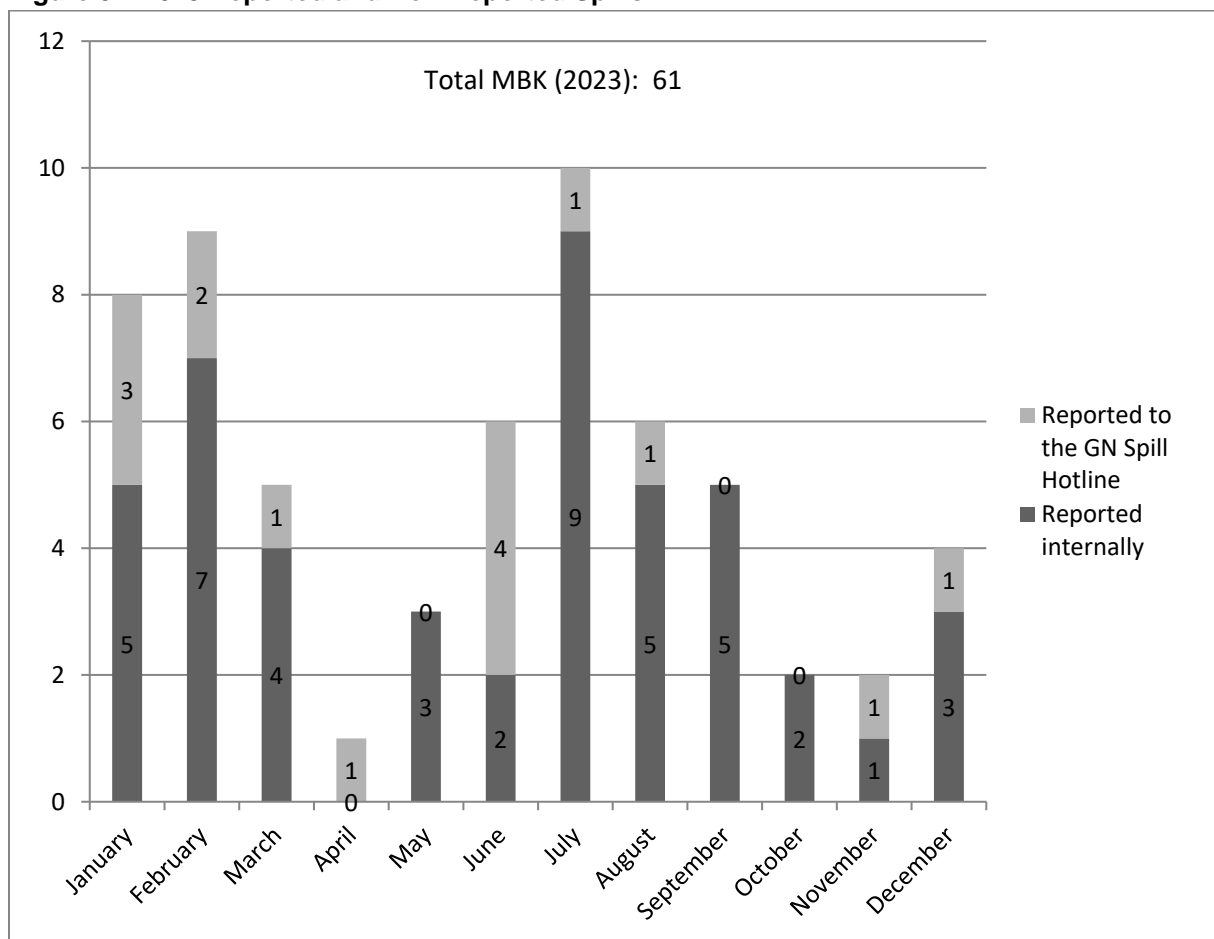


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, December 2023

Date of Spill	Hazardous Material	Qty	Units (L/Kg/m ³)	Location	Cause of Spill	Clean-up action taken
12/1/2023	Hydraulic Oil	5	L	AWAR KM83	Mechanical Failure	Contaminated snow was collected and brought to the Meadowbank Landfarm. Spill pads were brought to the Hazmat storage
12/11/2023	Diesel Fuel	10	L	AWAR KM47	Human Error	Contaminated snow was collected and brought to the Meadowbank Landfarm. Spill pads were brought to the Hazmat storage
12/15/2023	Contaminated Water	20	m ³ L	Assay Lab	Inflow of water	Contaminated snow was collected and brought to a yellow bin for disposal at Meadowbank Tailings
12/19/2023	Coolant	20	L	AWAR KM56	Mechanical Failure	Contaminated snow and material was collected and brought to a yellow bin for disposal at Meadowbank Tailings

3.1 KM87 SPILL FOLLOW UP

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