



MEADOWBANK COMPLEX

Monitoring Program Summary Report

May 2022

Type A Water License 2AM-MEA1530

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico 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 Pit Project.

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) and an update to the In-Pit disposal.

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

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Fresh water 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	Total
Camp	Third Portage Lake	2,500	2,859	2,954	3,071	3,200	14,584
Mill (freshwater tank)	Third Portage Lake	49,833	210,782	137,225	56,862	52,816	507,518
Emulsion plant	Unnamed Lake	48	14	89	64	36	250
Total Freshwater Usage (m³)		52,381	213,655	140,268	59,997	56,052	522,352
Ore Water (m³)	Ore	1,927	3,310	4,302	4,572	3,948	18,059
Reclaim Water Usage (m³)	Tailings Pond	266,541	72,375	214,517	249,495	240,143	1,043,071

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In May, a total of 1,286 m³ of water was pumped back to the North Cell TSF from the ST-16 sump. 1,084 m³ was transferred from WEP1 sump and 1,293 m³ from WEP2 sump to the ST-16 sump.

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

2.3 CENTRAL DIKE SEEPAGE

In May, 20,458 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 May, 1,015 m³ of water was pumped from the mill trench back to the mill. As per the Freshet Action Plan, 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 May.

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 May, no water was pumped from the Stormwater Management pond to the tailings storage facility.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	May 17, 2022
Unionized Ammonia (NH ₃)	mg N/L	0.032
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	15
Total Kjeldahl Nitrogen	mg N/L	15
BOD-5	mg/L	4
COD	mg/L	40
Total Suspended Solids	mg/L	4
Nitrate	mg N/L	18.8
Nitrite	mg N/L	0.224
pH*	Units	6.70
Fecal Coliform	UFC/100 mL	< 10
Total Coliform	UFC/100 mL	800

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	May 17, 2022
Unionized Ammonia (NH ₃)	mg N/L	0.0024
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	9.4
Total Kjeldahl Nitrogen	mg N/L	12
BOD-5	mg/L	3
COD	mg/L	37
Total Suspended Solids	mg/L	7
Nitrate	mg N/L	15.8
Nitrite	mg N/L	< 0.050
pH*	Units	5.80
Fecal Coliform	UFC/100 mL	11
Total Coliform	UFC/100 mL	< 100

*Parameter measured by STP operators

2.7 VAULT ATTENUATION POND EFFLUENT

No discharge has occurred from the Vault Attenuation Pond since October 9, 2017. There is currently no plan to restart the discharge in the future.

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 May, water from the East Dike 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 May 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 Pit E for the month.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2022 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for May.

Five (5) spills occurred on site during the month with one (1) 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 2022 Reported and Non-Reported Spills

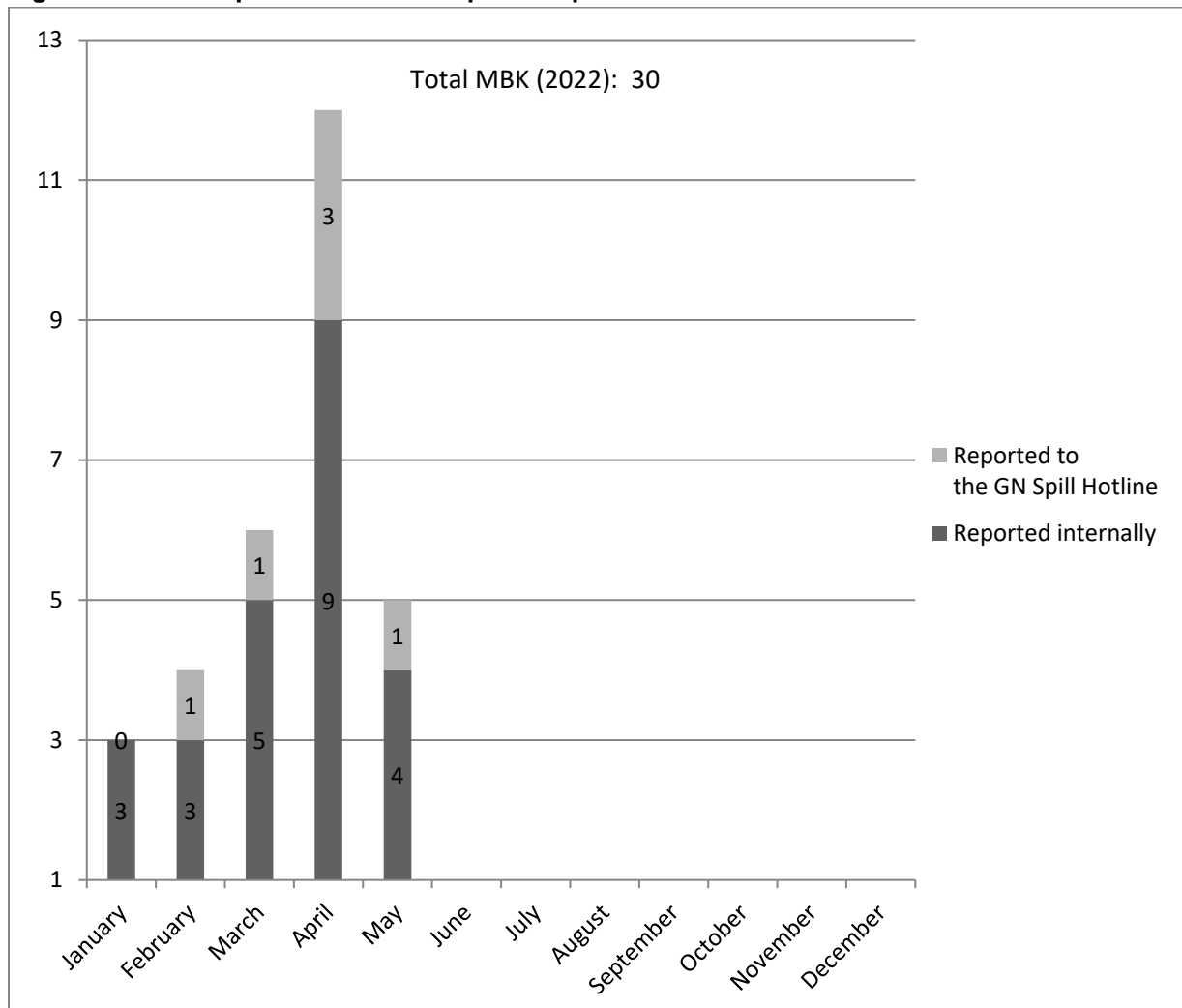


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, May 2022

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
5/4/2022	Unknown	20	L	HPGR Building	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
5/6/2022	Brake Cleaner	20	L	Outside Assay lab	Equipment failure	Contaminated soil was collected and brought to the south cell tailings for disposal.
5/7/2022	Hydraulic Oil	20	L	Fountain Tire	Broken hydraulic hose	Contaminated soil was collected and brought to the landfarm for disposal.
5/18/2022	Hydraulic Oil	525	L	Warehouse Storage Pad	Broken hydraulic hose	A combination of absorbent booms and peat moss were placed around the equipment to capture as much oil as possible. The used spill response material was disposed appropriately at the Hazmat facility and approximately 8 m ³ of contaminated soil was brought to the Meadowbank landfarm.
5/29/2022	Coolant	4	L	AWAR KM 23	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.