



MEADOWBANK COMPLEX

Monitoring Program Summary Report

June 2022

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 SEEPAGE4

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL4

2.6 SEWAGE TREATMENT PLANT5

2.7 VAULT ATTENUATION POND EFFLUENT5

2.8 PHASER ATTENUATION POND6

2.9 EAST DIKE SEEPAGE EFFLUENT6

2.10 NON CONTACT WATER6

2.11 IN-PIT DISPOSAL7

SECTION 3 • SPILL MANAGEMENT 8

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	June	Total
Camp	Third Portage Lake	2,500	2,859	2,954	3,071	3,200	2,927	17,511
Mill (freshwater tank)	Third Portage Lake	49,833	210,782	137,225	56,862	52,816	73,494	581,012
Emulsion plant	Unnamed Lake	48	14	89	64	36	13	263
Total Freshwater Usage (m³)		52,381	213,655	140,268	59,997	56,052	76,434	598,786
Ore Water (m³)	Ore	1,927	3,310	4,302	4,572	3,948	2,581	20,640
Reclaim Water Usage (m³)	Tailings Pond	266,541	72,375	214,517	249,495	240,145	250,371	1,293,444

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In June, a total of 35,061 m³ of water was pumped back to the North Cell TSF from the ST-16 sump. Of that amount, 6,526m³ was transferred from WEP1 sump and 5,486 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 June, 108,310 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 June, 6,701 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 June.

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 June, 15,247 m³ was pumped from the Stormwater Management pond to the tailings storage facility.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	June 6, 2022
Unionized Ammonia (NH ₃)	mg N/L	0.040
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	12
Total Kjeldahl Nitrogen	mg N/L	14
BOD-5	mg/L	5
COD	mg/L	40
Total Suspended Solids	mg/L	5
Nitrate	mg N/L	15.6
Nitrite	mg N/L	0.422
pH*	Units	6.80
Fecal Coliform	UFC/100 mL	9
Total Coliform	UFC/100 mL	< 100

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	June 6, 2022
Unionized Ammonia (NH ₃)	mg N/L	0.040
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	9.7
Total Kjeldahl Nitrogen	mg N/L	14
BOD-5	mg/L	6
COD	mg/L	120
Total Suspended Solids	mg/L	7
Nitrate	mg N/L	10.9
Nitrite	mg N/L	0.153
pH*	Units	6.80
Fecal Coliform	UFC/100 mL	< 10
Total Coliform	UFC/100 mL	1800

*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 June, water from the East Dike was discharged into Portage Pits.

2.10 NON CONTACT WATER

In June, Agnico Eagle completed inspections at Portage Area East diversion ditch (ST-5) and West diversion ditch (ST-6) as part of the 2022 Freshet Management Plan.

Portage Area East (ST-5) diversion ditch water quality results are shown in Tables 2.10.1 below. TSS results for ST-5 did not exceed the maximum allowable grab sample concentration (30 mg/L) but exceeded the maximum monthly average concentration (15 mg/L), permitted by the Water License, Part F, Item 7, at 16 mg/L for the month of June.. A single monthly sample during open water season is required by the Water License, and thus, the average concentration is made only of this result on June 5 from the certified laboratory. Internal samples were collected daily, and based on these results, the average monthly TSS concentration was 4.7 mg/L.

Table 2.10.1: Portage Area East Diversion Ditch (ST-5) Results

Parameters	Units	June 5, 2022
Total Suspended Solids (TSS)	mg/L	16

There is no monthly sample associated to the West diversion ditch (ST-6) in June as the sample was not collected at the accurate location. Internal samples were collected daily, and based on these results, the average monthly TSS concentration was 10.6 mg/L.

Agnico Eagle received the accredited laboratory results on June 30th, so there was not an opportunity to collect an additional sample for the month of June. Agnico Eagle is working with the laboratory on mitigation measures to send earlier notification in the event of a water licence exceedance in the future as well as reviewing the sampling protocol with the Environmental Technicians to ensure samples are collected at the correct location. Furthermore, Agnico Eagle has installed additional signage across the site to improve identification of sample station locations.

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 June.

Seven (7) spills occurred on site during the month with two (2) 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

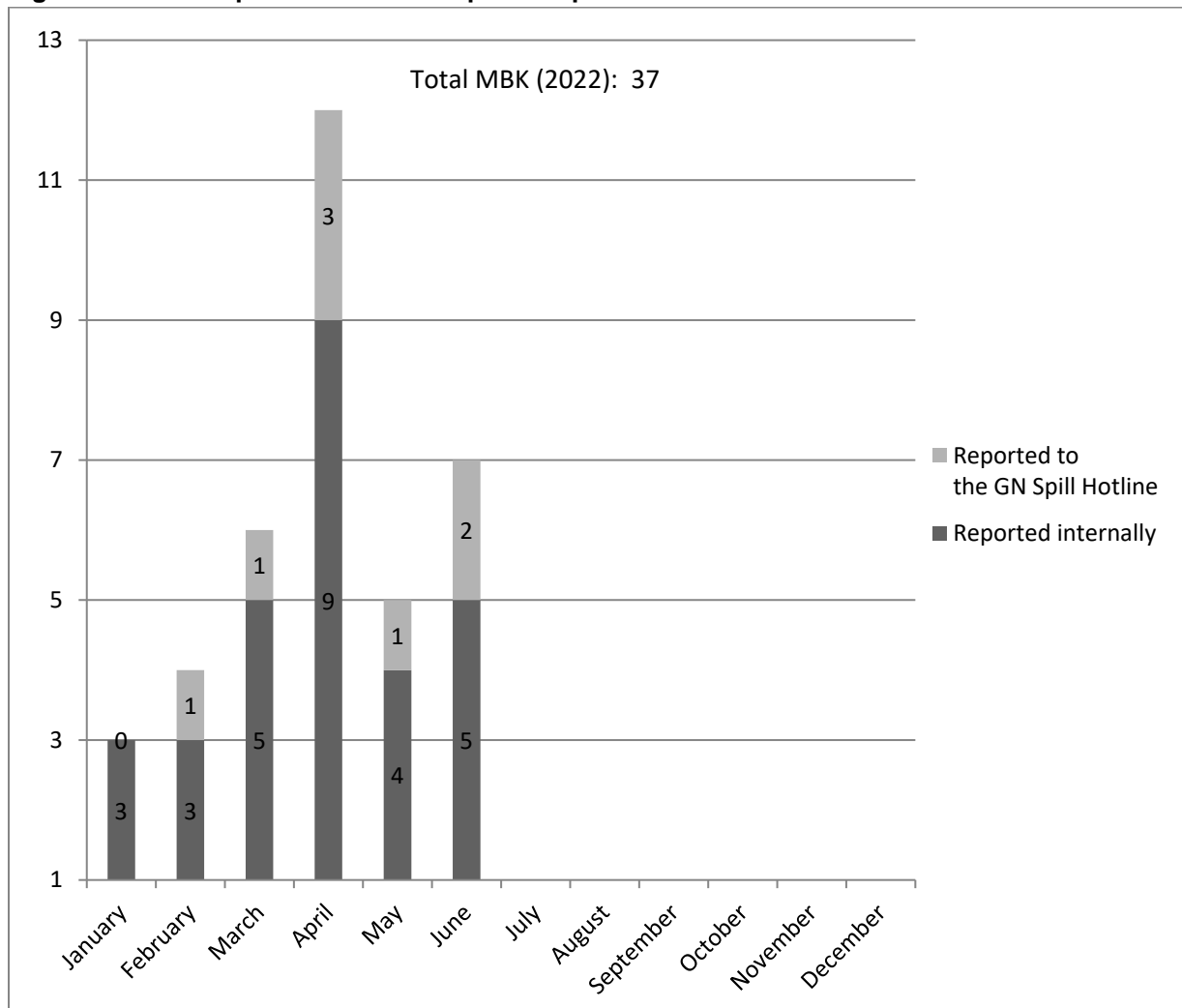


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, June 2022

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
6/4/2022	Transmission Fluid	15	L	Environment Office	Equipment failure	Absorbent pads used and adequately disposed of at the Hazmat disposal area.
6/7/2022	Total Suspended Solids	TBD	Kg	Baker Lake	Turbid Runoff	Upon observation of the runoff into the lake, the environmental personnel deployed maritime curtains, woodchip-log or straw-log booms and silt fence in the flow path of the runoff, to control the transportation of sediments.
6/9/2022	Transformer Oil	30	L	Iron Pad	Punctured Tank	Contaminated soil was collected and brought to a yellow bin for disposal.
6/12/2022	Oil	2	L	Incinerator	Cracked Tote	Contaminated soil was collected and brought to a yellow bin for disposal.
6/13/2022	Differential Oil	7	L	Main Truck Shop	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
6/25/2022	Diesel Exhaust Fluid	200	L	Outside Warehouse counter	Punctured/Damaged Tote	Spill pads were placed on the ground and a loader was immediately brought at the maintenance shop area to scrape the contaminated material. Approximately 1 m ³ was collected into a roll off and was brought to the Meadowbank landfarm.
6/30/2022	Hydraulic Oil	60	L	Old Sana Crusher	Procedure not followed	Contaminated soil was collected and brought to a yellow bin for disposal.