



MEADOWBANK DIVISION

Monitoring Program Summary Report

July 2020

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 LANDFILL.....4

2.6 SEWAGE TREATMENT PLANT4

2.7 VAULT ATTENUATION POND EFFLUENT5

2.8 PHASER ATTENUATION POND5

2.9 EAST DIKE SEEPAGE EFFLUENT.....6

2.10 NON CONTACT WATER6

2.11 IN-PIT DISPOSAL6

SECTION 3 • SPILL MANAGEMENT 7

SECTION 1 • BACKGROUND

On May 13, 2020, Agnico received the minister 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 discharge water quality, Phaser Attenuation Pond, 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 In-Pit disposal update.

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

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

Fresh and reclaim water usage for July is summarized in Table 2-1 below.

Table 2-1: Freshwater Usage (m³)

Water Location	Source Lake	Jan	Feb	March	April	May	June	July	Total
Camp	Third Portage Lake	3 612	3 264	3 141	2 155	2 484	2 807	2 966	20 429
Mill (freshwater tank)	Third Portage Lake	220 085	229 949	270 242	219 998	231 334	130 128	183 029	1 484 765
Emulsion plant	Unnamed Lake	67	76	75	70	114	83	137	620
Total Freshwater Usage (m³)		223 764	233 289	273 458	222 223	233 932	133 018	186 132	1 505 814
Ore Water (m³)	Ore	4 668	3 821	2 306	0	534	5 737	4 895	21 961
Reclaim Water Usage (m³)	Tailings Pond	0	0	0	0	864	185 144	152 428	338 436

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In July, a total of 20,033 m³ of water was pumped back to the North Cell TSF from the ST-16 sump. Of that amount, 10,567 m³ was transferred from WEP1 sump and 3,543 m³ from WEP2 sump to the ST-16 sump.

Agnico Eagle completed in July inspections at the Portage and Vault RSFs as per the Freshet Action Plan. No non-conformities were found. Open water sampling at WEP1 (Station ST-30) and WEP2 (Station ST-31) were also completed during the month.

2.3 CENTRAL DIKE SEEPAGE

In July, no water was pumped from ST-S-5 sump to Portage Pit.

Sampling was conducted monthly at ST-S-5 as per the requirements of the NWB water license.

Daily visual inspections were also completed by the Engineering Department.

2.4 ASSAY ROAD SEEPAGE

In July, a total of 4,215 m³ of water was pumped back from the mill trench back to the mill. Inspections of the area were conducted during the month as per the Freshet Action Plan. No non-conformity was found.

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 July.

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 is discharged to the Stormwater Management pond. In July, no water was discharged from the Stormwater Management pond.

Table 2.6.1: Seprotech Effluent Results

Parameters	Units	July 6, 2020
Ammonia (NH ₃)	mg N/L	0.08
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	16.11
Total Kjeldahl Nitrogen	mg N/L	20
BOD-5	mg/L	7
COD	mg/L	NA
Total Suspended Solids	mg/L	47
Nitrate	mg N/L	5.65
Nitrite	mg N/L	0.38
pH*	Units	7.10
Fecal Coliform	UFC/100 mL	<10
Total Coliform	UFC/100 mL	<1,000

*Parameter measured by STP operators

Table 2.6.2: LJ-Mix Effluent Results

Parameters	Units	July 6, 2020
Ammonia (NH ₃)	mg N/L	<0.01
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	5.83
Total Kjeldahl Nitrogen	mg N/L	4.8
BOD-5	mg/L	2
COD	mg/L	NA
Total Suspended Solids	mg/L	6
Nitrate	mg N/L	20.0
Nitrite	mg N/L	<0.01
pH*	Units	5.70
Fecal Coliform	UFC/100 mL	<10
Total Coliform	UFC/100 mL	<10,000

*Parameter measured by STP operators

2.7 VAULT ATTENUATION POND EFFLUENT

No discharge from Vault Attenuation Pond since October 9, 2017. There is currently no plan to restart the discharge in 2020.

2.8 PHASER ATTENUATION POND

No water was pumped out from the Phaser Attenuation Pond in July.

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

2.9 EAST DIKE SEEPAGE EFFLUENT

The discharge to Second Portage Lake was stopped on June 5 due to an increased trending of TSS. Water was discharged for the whole month of July in Portage Pit. Water quality is monitored and discharge will be restarted once Agnico is confident that water quality will respect the Water License and MDMER regulatory limits.

2.10 NON CONTACT WATER

In July, Agnico Eagle completed inspections at ST-5 and ST-6 as per the 2020 Freshet Action Plan. Portage Area East (ST-5) and West diversion ditches (ST-6) water quality results are shown in Tables 2.10.1 and 2.10.2, respectively.

TSS results for both stations did not exceed the maximum allowable grab sample concentration (30 mg/L) and the maximum average concentration (15 mg/L) permitted by the Water License Part F, Item 7.

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

Parameters	Units	July 6, 2020
Total Suspended Solids	mg/L	3

Table 2.10.2: Portage Area West Diversion Ditch (ST-6) Results

Parameters	Units	July 6, 2020
Total Suspended Solids	mg/L	2

2.11 IN-PIT DISPOSAL

In-Pit disposal in Goose Pits was ongoing for July. No issues to report.
Reclaim from Portage Pit was ongoing in July.

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2020 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for July.

Two (2) spills were reported during the month and was managed appropriately on site according to Agnico's spill contingency plan. None of them were reportable spills to the Hotline. Spill was contained and cleaned, contaminated material was disposed to the appropriate area (landfarm), and the clean-up actions were monitored closely by the Environment Department. There was no off-site impact to any watercourses.

Figure 3.1 2020 Reported and Non-Reported Spills

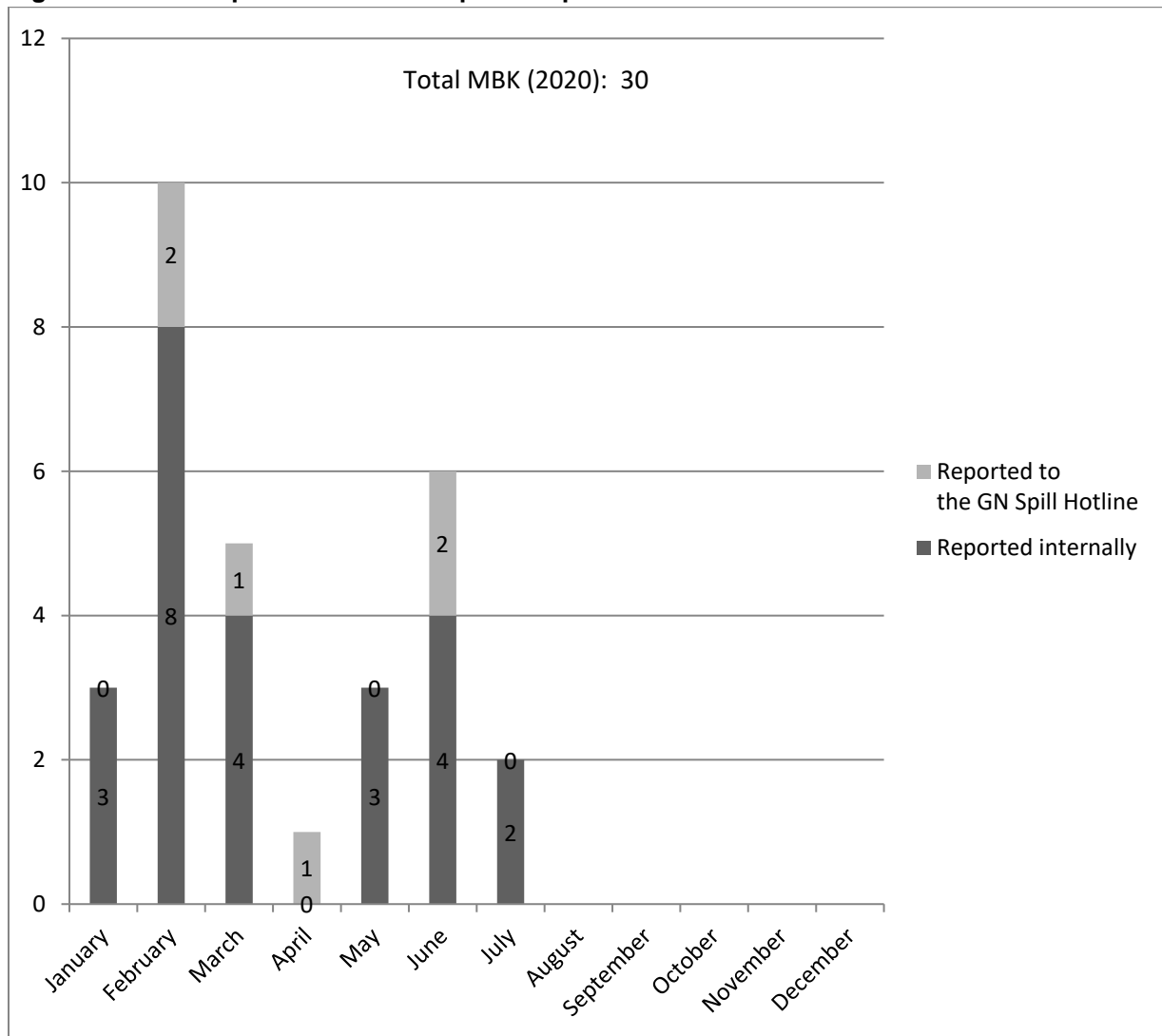


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, July 2020

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
July 25, 2020	Engine Oil	25	L	Transit pad	Equipment failure	Spill pad was use right away and environmental department was called. Spill was contained and contaminated soil picked up and disposed in the contaminated bin.
July 25, 2020	Hydraulic Oil	20	L	AWAR KM 8	Hydraulic filter housing broke while driving	Spill pads were put down to soak the oil on the surface. Contaminated soil picked up with a loader and disposed of the MBK landfarm