



MEADOWBANK DIVISION

Monitoring Program Summary Report

January 2020

Type A Water License 2AM-MEA1526

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SECTION 1 • BACKGROUND

As required under Part I, Item 20 of Type A Water License 2AM-MEA1526 (Amendment No.3), 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 January is summarized in Table 2-1 below.

Table 2-1: Freshwater Usage (m³)

Water Location	Source Lake	Jan	Total
Camp	Third Portage Lake	3 612	3 612
Mill (freshwater tank)	Third Portage Lake	220 085	220 085
Emulsion plant	Unnamed Lake	67	67
Total Freshwater Usage (m³)		223 764	223 764
Ore Water (m³)	Ore	4 668	4 668
Reclaim Water Usage (m³)	Tailings Pond	155	155

2.2 WASTE ROCK STORAGE FACILITY SEEPAGE

In January, no water was pumped back to the North Cell TSF from the ST-16 sump due to freezing conditions. No water was transferred from the WEP1 and WEP2 sumps to the ST-16 sump.

Agnico Eagle completed in January inspections at the Portage and Vault RSFs. No non conformity were found. No 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 January, a total of 38,029 m³ of water was pumped from ST-S-5 sump to Tailings Storage Facility South Cell.

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 January, no of water was pumped back from the mill trench back to the mill. Inspections of the area were conducted during the month. No trench sampling and wells monitoring for CN downstream has been taken due to freezing conditions.

2.5 SEEPAGE AND RUNOFF FROM THE LANDFILL

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

2.6 SEEPAGE AT PIT WALL AND PIT WALL FREEZE/THAW AND PERMAFROST AGGRADATION

In January, ice wall continued to be observed into Vault Pit. There is no more mining activities in Vault Pit.

2.7 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 2.7.1 below; the LJ-Mix STP results are shown in Table 2.7.2. The effluent is discharged to the Stormwater Management pond, which is pumped to the South Cell TSF during summer months. In January, no water was discharged from the Stormwater Management pond.

Table 2.7.1: Seprotech Effluent Results

Parameters	Units	January 6, 2020
Ammonia (NH ₃)	mg N/L	0.52
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	38.23
Total Kjeldahl Nitrogen	mg N/L	43
BOD-5	mg/L	7
COD	mg/L	64
Total Suspended Solids	mg/L	16
Nitrate	mg N/L	5.01
Nitrite	mg N/L	1.15
pH*	Units	7.30
Fecal Coliform	UFC/100 mL	200
Total Coliform	UFC/100 mL	300

*Parameter measured by STP operators

Table 2.7.2: LJ-Mix Effluent Results

Parameters	Units	January 6, 2020
Ammonia (NH ₃)	mg N/L	<0.01
Ammonia-Nitrogen (NH ₃ -NH ₄)	mg N/L	2.72
Total Kjeldahl Nitrogen	mg N/L	7.2
BOD-5	mg/L	8
COD	mg/L	83
Total Suspended Solids	mg/L	57
Nitrate	mg N/L	20.6
Nitrite	mg N/L	0.37
pH*	Units	6.30
Fecal Coliform	UFC/100 mL	5,400
Total Coliform	UFC/100 mL	180,000

*Parameter measured by STP operators

2.8 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.

2.9 PHASER ATTENUATION POND

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

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

2.10 EAST DIKE SEEPAGE EFFLUENT

In January, the discharge to Second Portage Lake was ongoing. A total of 13,410 m³ of water was discharged during the month.

Five (5) weekly effluent samples were collected at ST-8 in January 2020. TSS results did not exceed the maximum allowable grab sample concentration (30 mg/L) and maximum average concentration (15 mg/L) permitted by Water License, Part F, Item 6. TSS monitoring results for January 2020 are shown in Table 2.10.1 below. There have been no exceedances of MDMER criteria.

Table 2.10.1: East Dike Seepage Results for TSS

Parameters	Units	Jan 1, 2020	Jan 6, 2020	Jan 13, 2020	Jan 21, 2020	Jan 27, 2020	Maximum Average Concentration
Total Suspended Solids	mg/L	1	2	2	4	1	2

Monthly regular sampling pursuant to the Water License was also conducted at this location. Results are shown in Table 2.10.2 below. There have been no exceedances of MDMER for those criteria.

Table 2.10.2: January 2020 Monthly Monitoring Results

Parameters	Units	Jan 6, 2020
pH*		7.60
Aluminum	mg/L	0.039
Sulphate	mg/L	31.6
Arsenic	mg/L	0.0021
Copper	mg/L	0.0022
Nickel	mg/L	0.0009
Lead	mg/L	<0.0003
Zinc	mg/L	0.004

Radium 226	mg/L	<0.002
Total Cyanide	mg/L	0.003

2.11 NON CONTACT WATER

In January, no monthly open water sampling conducted at Portage Area East (ST-5) and West diversion ditches (ST-6).

2.12 IN-PIT DISPOSAL

In-Pit disposal in Goose Pits was ongoing for January. No issues to report.

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 January.

All spills reported internally (3) were managed appropriately on site according to Agnico's spill contingency plan. No spill was reported to regulators in January. Spills were contained and cleaned, contaminated material was disposed to the appropriate area (landfarm, TSF if required), 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

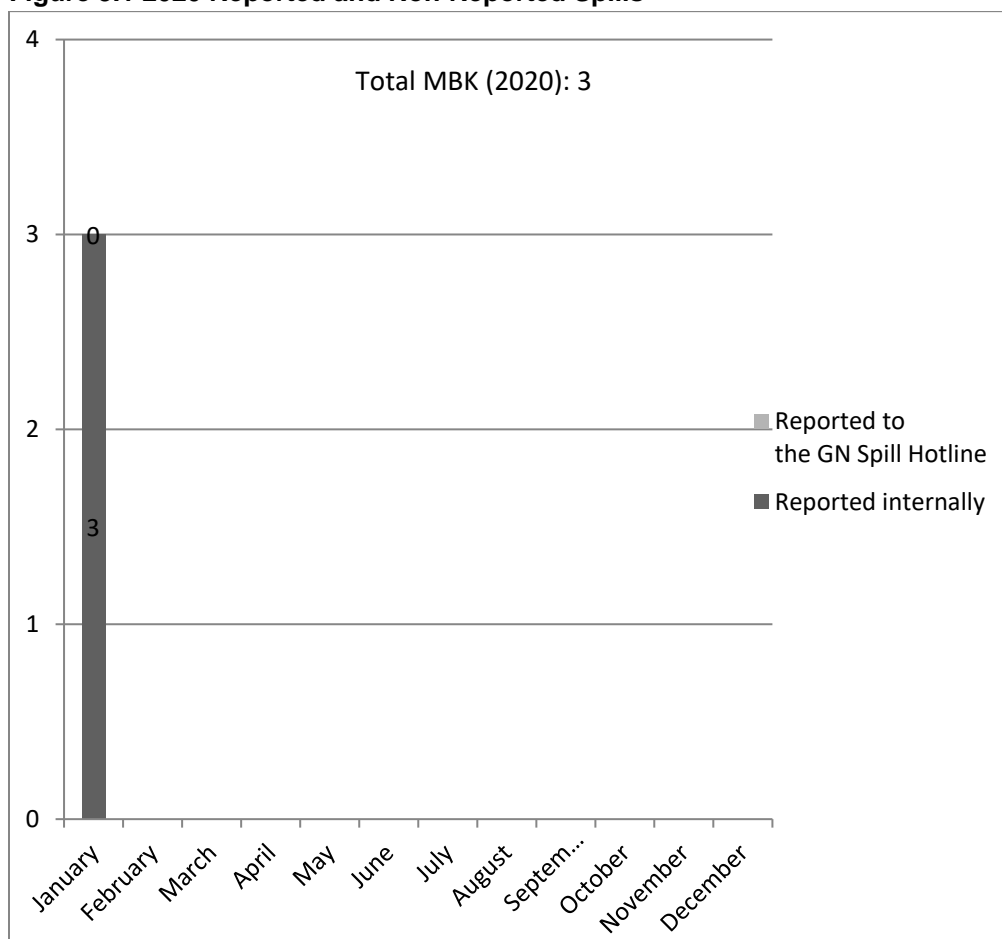


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, January 2020

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
January 7, 2020	Diesel	5	L	LHT fuel farm	LHT driver noticed there was a fuel spill at the fuel farm and reported it.	Scraped up the contaminated soil and picked it up. Contaminated soil picked up and disposed of appropriately
January 9, 2020	Diesel	10	L	MBK Fuel Farm	Top loading arm was leaking from the elbow	The Fuel Truck Operator advised his Supervisor immediately who contacted the Site Services Supervisor to have it fixed. Contaminated snow picked up and disposed of in a drum
January 13, 2020	Diesel	10	L	MBK Fuel Farm	Top loading arm was leaking	The worker advised his Supervisor. Contaminated snow picked up and disposed of in a drum