



WHALE TAIL MINE

Monitoring Program Summary Report

October 2022

Type A Water License 2AM-WTP1830

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico received the minister's approval for the Water License 2AM-WTP1830 Amendment No.1. 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 Mine.

As required under Part I, Item 22 of Type A Water License 2AM-WTP1830, this report documents the water management and monitoring activities at the mine site for the month. This includes water usage, water and seepage monitoring around site, sewage treatment plant discharge and Attenuation Pond discharge.

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
Camp	Nemo	2,022	2,819	3,084	3,162	3,265	3,144
Construction/Operation	Nemo	739	1,978	2,101	3,191	4,532	3,574
Dust Suppression	WTHR Pond	0	0	0	0	1,100	2,510
Explosive	Mammoth Lake	0	0	0	0	0	0
Drilling	Proximal Sources	0	0	0	0	0	0
Total Freshwater Usage (m³)		2,761	4,797	5,185	6,353	8,897	9,228

Water Location	Source Lake	July	Aug	Sept	Oct	Total
Camp	Nemo	3,274	3,231	3,128	3,323	30,452
Construction/Operation	Nemo	3,873	3,424	4,354	3,419	31,185
Dust Suppression	Nemo / WTHR Pond	4,350	775	135	0	8,870
Explosive	Mammoth Lake	0	0	0	0	0
Drilling	Proximal Sources	0	0	0	0	0
Total Freshwater Usage (m³)		11,497	7,430	7,617	6,742	70,507

2.2 LAKE WATER MONITORING

Lakes around the Whale Tail Mine were monitored on a monthly basis during the open water season. In October, no samples were taken at Lake A16 (ST-WT-14) or Lake A15 (ST-WT-15) due to freezing and unsafe ice conditions.

2.3 WHALE TAIL SOUTH CHANNEL

The Whale Tail South Channel was operational in October. An estimated 196,982 m³ of water flowed from Whale Tail South Basin to Mammoth Lake.

2.4 WHALE TAIL DIKE SEEPAGE MONITORING

Seepage at the toe of Whale Tail dike (WTD) was still observed during the month. Agnico continues to manage seepage water from WTD as part of the Whale Tail Attenuation Pond.

Seepage water quality is monitored as per requirements of the Water License. The sampling station is ST-WT-17 and is sampled minimally on a monthly basis for Group 1 parameters.

2.5 SEWAGE TREATMENT PLANT

Effluent from the sewage treatment plant (STP) is discharged to the IVR Attenuation Pond. As per Water License Schedule I Sampling Station ST-WT-11, effluent is to be sampled four times per calendar year. Agnico is currently sampling the STP monthly and thus a sample was taken in October. A total of 3,197 m³ was discharged during the month.

2.6 WHALE TAIL/IVR ATTENUATION PONDS

Water from the IVR Attenuation Pond was discharged during the month of October in Whale Tail South. Discharge in Whale Tail South Permanent Diffusor was from October 3 to 29. Water was treated by the Water Treatment Plan before discharge. A total of 367,681 m³ was discharged to Whale Tail South.

As per Water License Part F Item 5, the effluent from this discharge shall not exceed the limits detailed in Table 2.6.1 below. No non-compliance observed during the month of October related to these discharges to the receiving environment. There were no exceedances of Water License or MDMER limits during the month.

Table 2.6.1: IVR Attenuation Pond Discharge to Whale Tail South Permanent Diffusor (ST-WT-24)

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date				Monthly Average
				10/3/2022	10/10/2022	10/17/2022	10/24/2022	
Field Measured								
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.19	7.01	7.57	7.36	7.28
Conventional Parameters								
Total suspended solids	30	15	mg/L	2	2	<1	1	1.4
Nutrients								
Total phosphorus	0.6	0.3	mg P/L	< 0.0010	0.0017	0.0024	0.0013	0.0015
Ammonia Nitrogen (NH3-N)	32	16	mg N/L	0.48	0.88	0.71	2.30	1.09
General Organics								
Total petroleum hydrocarbons	6	3	mg/L	< 0.2	< 0.2	< 0.2	< 0.2	0.1
Total Metals								
Aluminum	1	0.5	mg/L	0.0107	0.0078	0.0061	0.0093	0.0085
Arsenic	0.2	0.1	mg/L	0.0132	0.0136	0.0127	0.0163	0.0140
Cadmium	0.004	0.002	mg/L	0.000011	0.000014	0.000016	0.000016	0.000014
Chromium	0.04	0.02	mg/L	< 0.0010	< 0.0010	<0.0010	<0.0010	0.0005
Copper	0.2	0.1	mg/L	0.00077	0.00118	0.00105	0.00169	0.00117
Iron	2	1	mg/L	0.211	0.181	0.167	0.27	0.207
Lead	0.1	0.05	mg/L	< 0.00020	< 0.00020	<0.00020	<0.00020	0.00010
Mercury	0.008	0.004	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0234	0.0374	0.0378	0.0375	0.0340
Zinc	0.2	0.1	mg/L	< 0.0050	< 0.0050	0.0050	< 0.0050	0.0031

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 October.

Twelve (12) spills occurred on site during the month with none (0) 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. There was no off-site impact to any watercourses.

Figure 3.1 2022 Reported and Non-Reported Spills

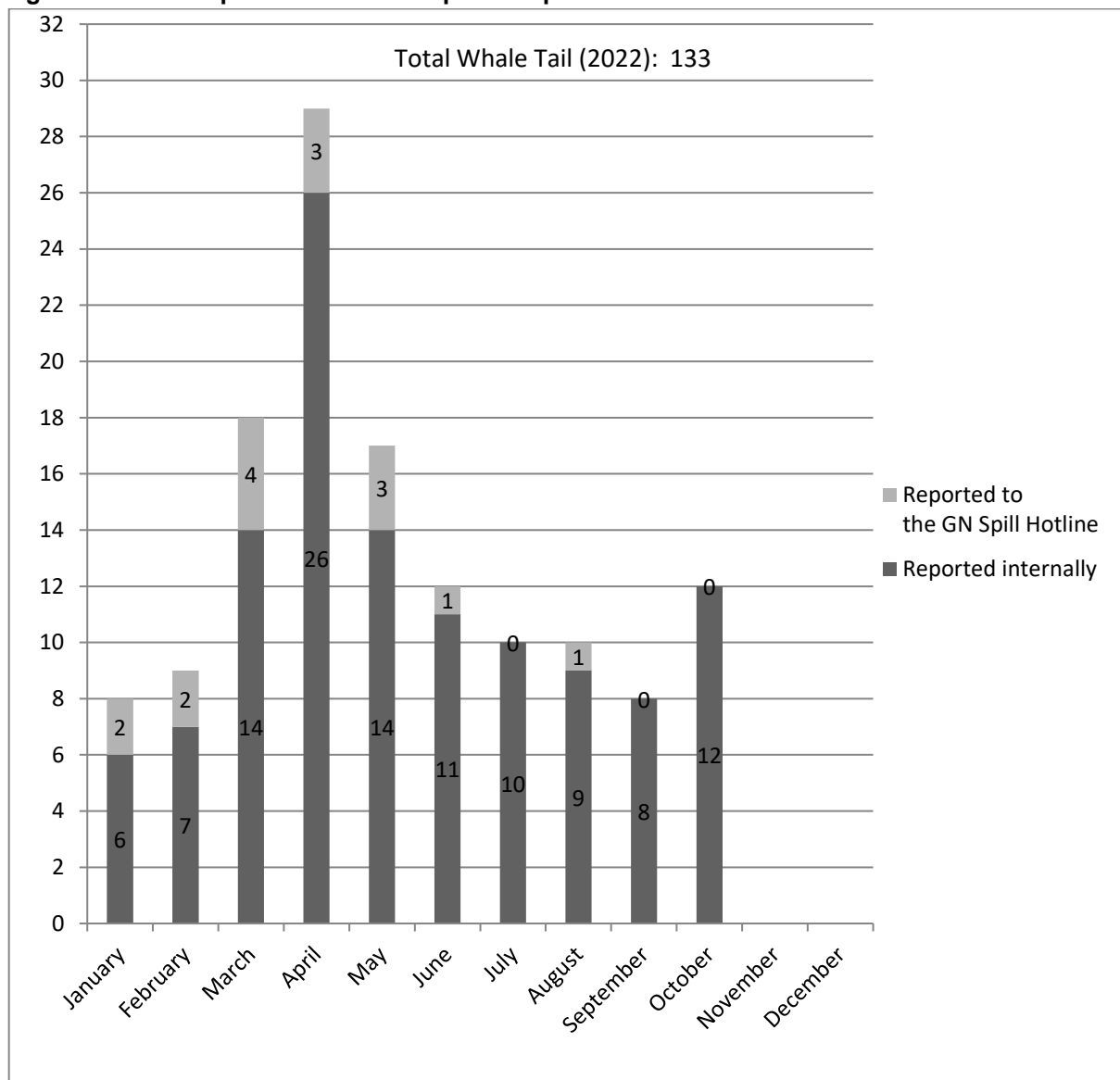


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, October 2022

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
10/2/2022	Hydraulic Oil	30	L	Pad E NAG Stockpile	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/4/2022	Diesel Fuel	30	L	Whale Tail Fuel Farm	Fuelling procedure not followed	Contaminated soil was collected and brought to a yellow bin for disposal.
10/6/2022	Hydraulic Oil	30	L	Underground Shop Yard	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/7/2022	Hydraulic Oil	20	L	IVR Pit	Damaged equipment	Contaminated soil was collected and brought to a yellow bin for disposal.
10/9/2022	Hydraulic Oil	75	L	IVR Pit	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/11/2022	Diesel Fuel	50	L	Underground Generator	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/12/2022	Hydraulic Oil	15	L	Warehouse	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/17/2022	Diesel Fuel	10	L	Underground Maintenance Parking	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/21/2022	Motor Oil	12	L	IVR Pit	Damaged oil filter	Contaminated soil was collected and brought to a yellow bin for disposal.
10/22/2022	Coolant	5	L	WTHR KM 172	Equipment failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/25/2022	Hydraulic Oil	15	L	Washroom Parking	Equipment Failure	Contaminated soil was collected and brought to a yellow bin for disposal.
10/25/2022	Hydraulic Oil	35	L	Whale Tail Pit	Equipment Failure	Contaminated soil was collected and brought to a yellow bin for disposal.