



WHALE TAIL MINE

Monitoring Program Summary Report

August 2023

Type A Water License 2AM-WTP1830

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SECTION 1 • BACKGROUND

On May 13, 2020, Agnico Eagle 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 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
Camp	Nemo	3,615	3,547	3,749
Construction/Operation	Nemo	3,754	3,618	3,264
Dust Suppression	WTHR Pond	0	0	0
Explosive	Mammoth Lake	0	0	0
Drilling	Proximal Sources	0	0	0
Total Freshwater Usage (m³)		7,369	7,165	7,013

Water Location	Source Lake	April	May	June
Camp	Nemo	3,453	3,381	3,173
Construction/Operation	Nemo	3,007	2,521	1,786
Dust Suppression	WTHR Pond	0	1,150	155
Explosive	Mammoth Lake	0	0	0
Drilling	Proximal Sources	0	0	0
Total Freshwater Usage (m³)		6,460	7,052	5,114

Water Location	Source Lake	July	Aug	Total
Camp	Nemo	3,243	3,285	27,446
Construction/Operation	Nemo	2,588	1,809	22,283
Dust Suppression	WTHR Pond	4,745	1,381	7,431
Explosive	Mammoth Lake	0	0	0
Drilling	Proximal Sources	0	0	0
Total Freshwater Usage (m³)		10,576	6,475	57,161

2.2 LAKE WATER MONITORING

Lakes around the Whale Tail Mine were monitored on a monthly basis during the open water season. In August, monthly samples were taken at Lake A16 (ST-WT-14) or Lake A15 (ST-WT-15).

2.3 WHALE TAIL SOUTH CHANNEL

The Whale Tail South Channel was operational in August. No water quality concerns were observed.

2.4 WHALE TAIL DIKE SEEPAGE MONITORING

Seepage at the toe of Whale Tail dike (WTD) was still observed during the month. Agnico Eagle 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 Eagle is currently sampling the STP monthly and thus a sample was taken in August. A total of 3,097 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 August in Mammoth Lake. Discharge in Mammoth Lake Diffuser was from August 6 to 18. Water was treated by the Water Treatment Plant before discharge. A total of 178,498 m³ was discharged to Mammoth Lake.

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 August related to this discharge 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 Mammoth Lake Diffuser (ST-WT-2a)

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date		Monthly Average
				8/7/2023	8/14/2023	
Field Measured						
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.29	7.50	7.40
Conventional Parameters						
Total suspended solids	30	15	mg/L	1	1	1
Nutrients						
Total phosphorus	0.6	0.3	mg P/L	0.0016	<0.0010	0.0011
Ammonia nitrogen (NH3-N)	32	16	mg N/L	0.054	0.1	0.077
General Organics						
Total petroleum hydrocarbons	6	3	mg/L	<0.2	<0.2	0.1
Total Metals						
Aluminum	1	0.5	mg/L	0.0078	0.0047	0.0063
Arsenic	0.2	0.1	mg/L	0.00911	0.00744	0.00828
Cadmium	0.004	0.002	mg/L	0.000012	0.000014	0.000013
Chromium	0.04	0.02	mg/L	< 0.0010	< 0.0010	0.0005
Copper	0.2	0.1	mg/L	0.0009	0.00076	0.00083
Iron	2	1	mg/L	0.374	0.403	0.3885
Lead	0.1	0.05	mg/L	< 0.00020	< 0.00020	0.00010
Mercury	0.008	0.004	mg/L	< 0.00001	< 0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0074	0.0063	0.0069
Zinc	0.2	0.1	mg/L	0.0082	0.0069	0.0076

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2023 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for August.

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. There was no off-site impact to any watercourses.

Figure 3.1 2023 Reported and Non-Reported Spills

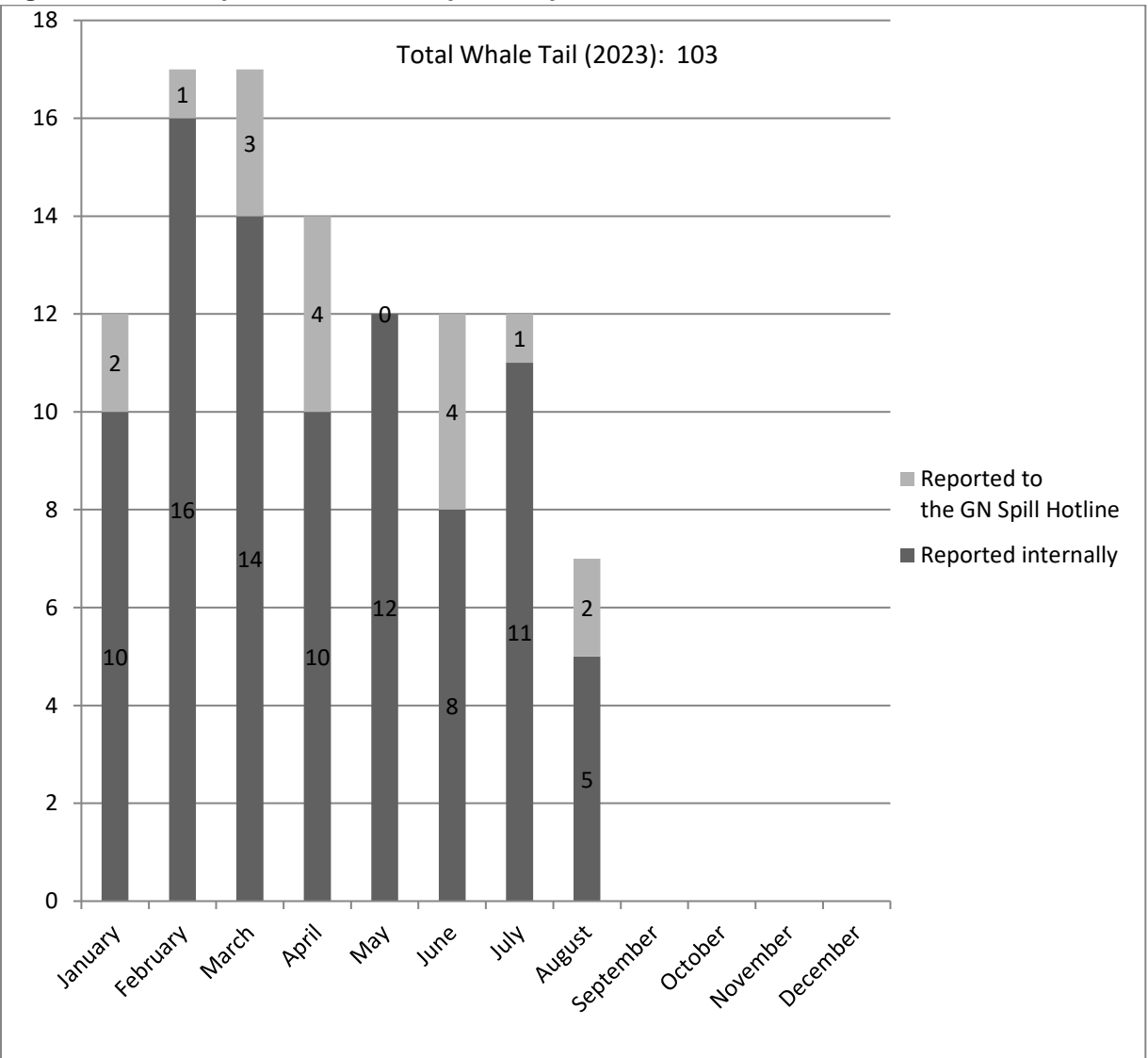


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, August 2023

Date of Spill	Hazardous Material	Qty	Units (L/Kg)	Location	Cause of Spill	Clean-up action taken
8/4/2023	Hydraulic Oil	250	L	Underground Ore Pad	Mechanical Failure	Contaminated soil was collected and brought to a yellow bin for disposal at the Whale Tail Landfarm
8/6/2023	Hydraulic Oil	600	L	Whale Tail WRSF	Damaged Equipment	Contaminated soil was collected and brought to a yellow bin for disposal at the Whale Tail Landfarm
8/15/2023	Hydraulic Oil	5	L	Maintenance Shop	Maintenance	Contaminated soil was collected and brought to a yellow bin for disposal at the Whale Tail Landfarm
8/18/2023	Drill Oil	10	L	Warehouse	Improper Storage	Contaminated soil was collected and brought to a yellow bin for disposal at the Whale Tail Landfarm
8/18/2023	Grease	4	Kg	Warehouse Transit	Human Error	Contaminated soil was collected and brought to the Whale Tail Hazmat area for disposal
8/26/2023	Hydraulic Oil	85	L	Whale Tail Pit	Mechanical Failure	Contaminated soil was collected and brought to a yellow bin for disposal at the Whale Tail Landfarm
8/31/2023	Diesel Fuel	30	L	Underground Fuel Station	Mechanical Failure	Contaminated soil was collected and brought to a yellow bin for disposal at the Whale Tail Landfarm