



**AGNICO EAGLE**

WHALE TAIL MINE

# **Monitoring Program Summary Report**

**September 2024**

Type A Water License 2AM-WTP1830

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## **SECTION 1 • BACKGROUND**

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On June 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

Freshwater usage for the month is summarized in Table 2.1 below.

**Table 2.1: Freshwater Usage (m<sup>3</sup>)**

Water Location	Source Lake	Jan	Feb	Mar	April	May
Camp	Nemo	3,910	3,509	3,711	3,733	3,746
Construction/Operation	Nemo	7,034	7,485	7,624	6,205	6,615
Dust Suppression	WTHR Pond	0	0	0	0	1,514
Explosive	Kangislulik Lake	0	0	0	0	0
Drilling	Proximal Sources	0	0	0	0	0
<b>Total Freshwater Usage (m<sup>3</sup>)</b>		<b>10,944</b>	<b>10,994</b>	<b>11,335</b>	<b>9,938</b>	<b>11,875</b>

Water Location	Source Lake	June	July	Aug	Sept	Total
Camp	Nemo	3,413	3,448	3,178	3,520	<b>32,168</b>
Construction/Operation	Nemo	4,720	4,023	3,260	3,757	<b>50,722</b>
Dust Suppression	WTHR Pond	712	3,560	2,539	90	<b>8,415</b>
Explosive	Kangislulik Lake	0	0	0	0	<b>0</b>
Drilling	Proximal Sources	0	0	0	0	<b>0</b>
<b>Total Freshwater Usage (m<sup>3</sup>)</b>		<b>8,845</b>	<b>11,031</b>	<b>8,977</b>	<b>7,367</b>	<b>91,305</b>

### 2.2 LAKE WATER MONITORING

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

### 2.3 WHALE TAIL SOUTH CHANNEL

The Whale Tail South Channel was operational in September. No 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 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 September. A total of 3,262 m<sup>3</sup> was discharged during the month.

## **2.6 WHALE TAIL/IVR ATTENUATION PONDS**

Water from the IVR Attenuation Pond was discharged during the month from September 1<sup>st</sup> to September 30<sup>th</sup> in Kangislulik Lake. Water was treated by the Water Treatment Plant before discharge. A total of 603,950 m<sup>3</sup> was discharged to Kangislulik 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 was observed during the month of September 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 Kangislulik Lake Diffusor (ST-WT-2a)

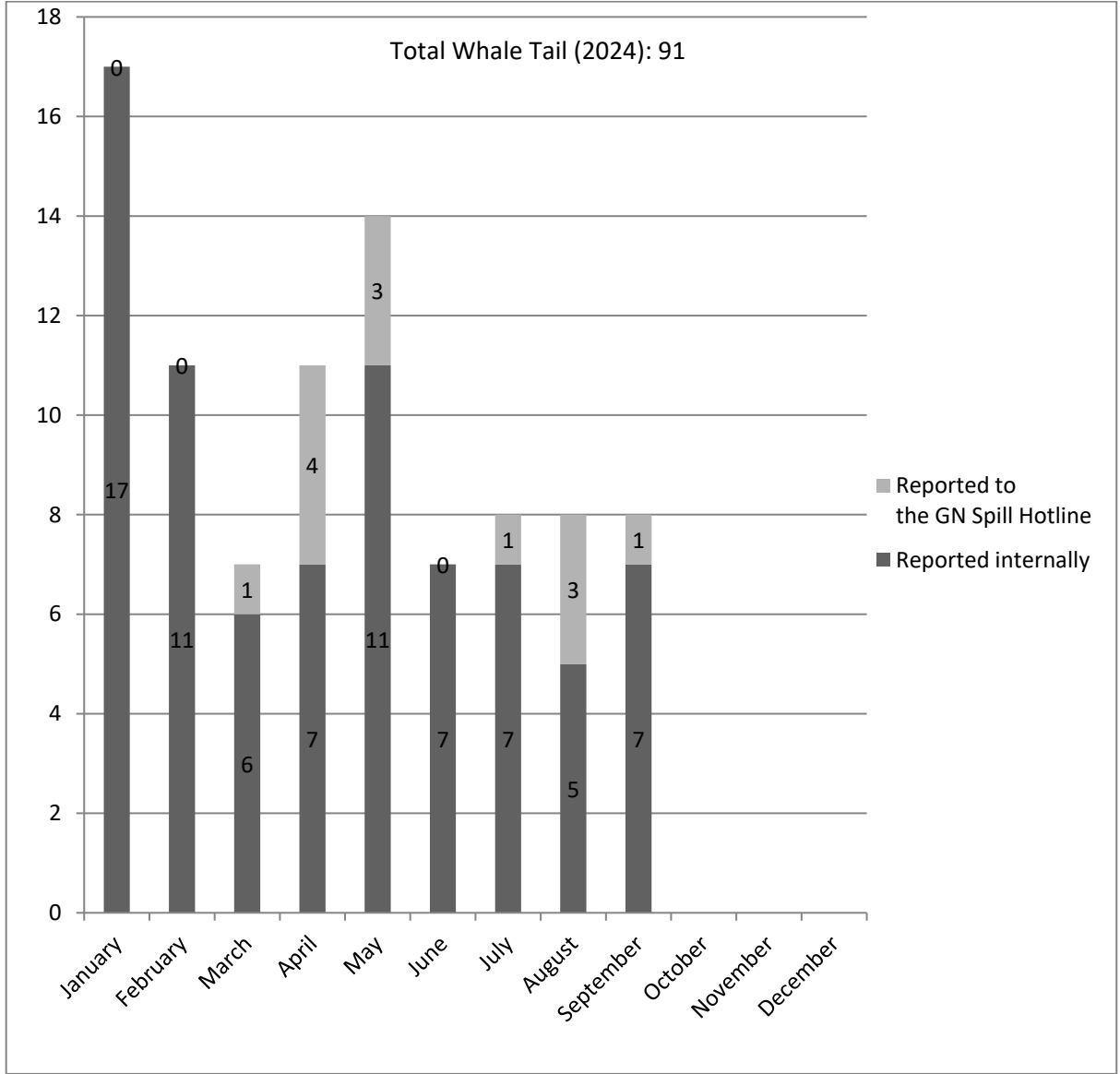
Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date							Monthly Average
				9/2/2024	9/9/2024	9/16/2024	9/23/2024	9/24/2024	9/25/2024	9/29/2024	
Field Measured											
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.46	7.23	7.52	7.53	7.49	7.20	7.38	7.40
Conventional Parameters											
Total suspended solids	30	15	mg/L	1	2	7	10	9	2	2	4.7
Nutrients											
Total phosphorus	0.6	0.3	mg P/L	0.0027	0.0048	0.0210	0.0150	0.0160	0.0025	0.0032	0.0093
Ammonia nitrogen (NH <sub>3</sub> -N)	32	16	mg N/L	0.095	0.073	0.110	0.620	0.500	0.440	0.700	0.363
General Organics											
Total petroleum hydrocarbons	6	3	mg/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.1
Total Metals											
Aluminum	1	0.5	mg/L	0.0042	0.0034	0.0921	0.2160	0.1950	0.0228	0.0169	0.0786
Arsenic	0.2	0.1	mg/L	0.0123	0.0152	0.1710	0.1680	0.1530	0.0230	0.0278	0.0815
Cadmium	0.004	0.002	mg/L	0.000011	< 0.000010	0.000021	0.000033	< 0.000010	0.000042	0.000018	0.000019
Chromium	0.04	0.02	mg/L	< 0.0010	< 0.0010	0.0015	0.0050	0.0043	< 0.0010	< 0.0010	0.0018
Copper	0.2	0.1	mg/L	0.00129	0.00064	0.00094	0.00140	0.00137	0.00103	0.00102	0.00110
Iron	2	1	mg/L	0.224	0.238	0.907	1.030	0.932	0.514	0.510	0.622
Lead	0.1	0.05	mg/L	0.00032	< 0.00020	< 0.00020	0.00025	0.00022	< 0.00020	< 0.00020	0.00017
Mercury	0.008	0.004	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0090	0.0110	0.0146	0.0264	0.0210	0.0204	0.0219	0.0178
Zinc	0.2	0.1	mg/L	0.0066	< 0.0050	0.0077	0.0069	0.0070	0.0135	0.0064	0.0072

**SECTION 3 • SPILL MANAGEMENT**

Figure 3.1 shows reported and non-reported spills for 2024 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for September.

Eight (8) spills occurred on site during the month with one (1) 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 2024 Reported and Non-Reported Spills**



**Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, September 2024**

Date of Spill	Hazardous Material	Quantity	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
9/4/2024	Hydraulic Oil	20	L	Whale Tail Pit	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the WT Landfarm
9/6/2024	Coolant	12	L	WTHR KM164	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the Meadowbank TSF.
9/8/2024	Engine Oil	500	L	Warehouse Area	Equipment failure	Spill pads were placed on the ground, and the pooled oil on the ground was pumped into another tote. The area was then scraped clean with an excavator and the contaminated material brought to the Whale Tail Landfarm.
9/8/2024	Coolant	22	L	Whale Tail Pit	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the Meadowbank TSF.
9/12/2024	Diesel Fuel	50	L	Orbit Garant Garage	Human error	Contaminated material was collected and brought for disposal at the MBK Landfarm
9/12/2024	Hydraulic Oil	55	L	Whale Tail Pit	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the WT Landfarm
9/17/2024	Hydraulic Oil	25	L	Whale Tail Pit	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the WT Landfarm
9/30/2024	Hydraulic Oil	20	L	Whale Tail Pit	Equipment failure	Contaminated material was collected and placed in roll off bin for disposal at the WT Landfarm