



**AGNICO EAGLE**

WHALE TAIL PROJECT

## **Monitoring Program Summary Report**

**January 2021**

Type A Water License 2AM-WTP1830

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## **SECTION 1 • BACKGROUND**

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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 Project.

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, Whale Tail Attenuation Pond discharge and dewatering discharges.

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

## **SECTION 2 • WATER MANAGEMENT**

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### **2.1 WATER USAGE**

Fresh water usage for January is summarized in Table 2.1 below

**Table 2.1: January 2021 – Freshwater Usage (m<sup>3</sup>)**

<b>Water Location</b>	<b>Source Lake</b>	<b>Jan</b>	<b>Total</b>
Camp	Nemo	2,413	<b>2,413</b>
Construction/Operation	Nemo	2,074	<b>2,074</b>
Dust Suppression	Nemo / WTHR Pond	0	<b>0</b>
Explosive	Mammoth Lake	0	<b>0</b>
Drilling	Proximal Sources	0	<b>0</b>
<b>Total Freshwater Usage (m<sup>3</sup>)</b>		<b>4,487</b>	<b>4,487</b>

### **2.2 LAKE WATER MONITORING**

Lakes around the Whale Tail Project were not monitored during the month of January due to the lakes being frozen. Lakes are only monitored during open water conditions as per the Water Licence.

### **2.3 WHALE TAIL SOUTH CHANNEL**

The Whale Tail South Channel was frozen in January, no sampling at station ST-WT-13 was conducted during the month. Sampling is to be conducted during open water conditions as per the Water License.

### **2.4 WHALE TAIL DIKE SEEPAGE MONITORING**

Seepage at the toe of Whale Tail dike 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 is discharged to the Whale Tail 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 January. A total of 2,828 m<sup>3</sup> was discharged during the month.

## **2.6 WHALE TAIL ATTENUATION POND**

Water from the Whale Tail Attenuation Pond was discharged to Whale Tail South using the Whale Tail South permanent diffuser. Discharge via the Whale Tail South permanent diffuser occurred intermittently in January from January 1 to 5, 9 to 13, 16 to 18, and 21 to 26. The total discharge volume for January 141,107 m<sup>3</sup>.

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.

There were no exceedances of Water License or MDMER limits during the month.

**Table 2.6.1: Whale Tail Attenuation Pond Discharge to Whale Tail South Permanent Diffuser (ST-WT-24b)**

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date				Monthly Average
				1/4/2021	1/11/2021	1/18/2021	1/25/2021	
<b>Field Measured</b>								
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.12	7.16	7.2	6.95	<b>7.11</b>
<b>Conventional Parameters</b>								
Total suspended solids	30	15	mg/L	2	1	2	<1	<b>1</b>
<b>Nutrients</b>								
Total phosphorus	0.6	0.3	mg/L	0.0011	<0.001	0.054	0.0016	<b>0.01</b>
Total ammonia (NH3-N)	32	16	mg/L	0.82	1.5	0.37	1.7	<b>1.10</b>
<b>Total Petroleum hydrocarbons (TPH) *</b>								
F2 (C10-C16)	6	3	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	<b>&lt; 0.1</b>
F3 (C16-C34)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	<b>&lt; 0.2</b>
F4 (C34-C50)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	<b>&lt; 0.2</b>
<b>Total Metals</b>								
Aluminum	1	0.5	mg/L	0.0068	0.0072	0.0049	0.0062	<b>0.006275</b>
Arsenic	0.2	0.1	mg/L	0.00232	0.00225	0.00182	0.00237	<b>0.00219</b>
Cadmium	0.004	0.002	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<b>0.000005</b>
Chromium	0.04	0.02	mg/L	<0.001	<0.001	<0.001	<0.001	<b>0.0005</b>
Copper	0.2	0.1	mg/L	0.00165	0.00286	0.00128	0.00197	<b>0.00194</b>
Iron	2	1	mg/L	0.158	0.088	0.092	0.148	<b>0.1215</b>
Lead	0.1	0.05	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<b>0.0001</b>
Mercury	0.008	0.004	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<b>0.000005</b>
Nickel	0.5	0.25	mg/L	0.0025	0.0043	0.0025	0.0048	<b>0.003525</b>
Zinc	0.2	0.1	mg/L	<0.005	0.0051	<0.005	<0.005	<b>0.00315</b>

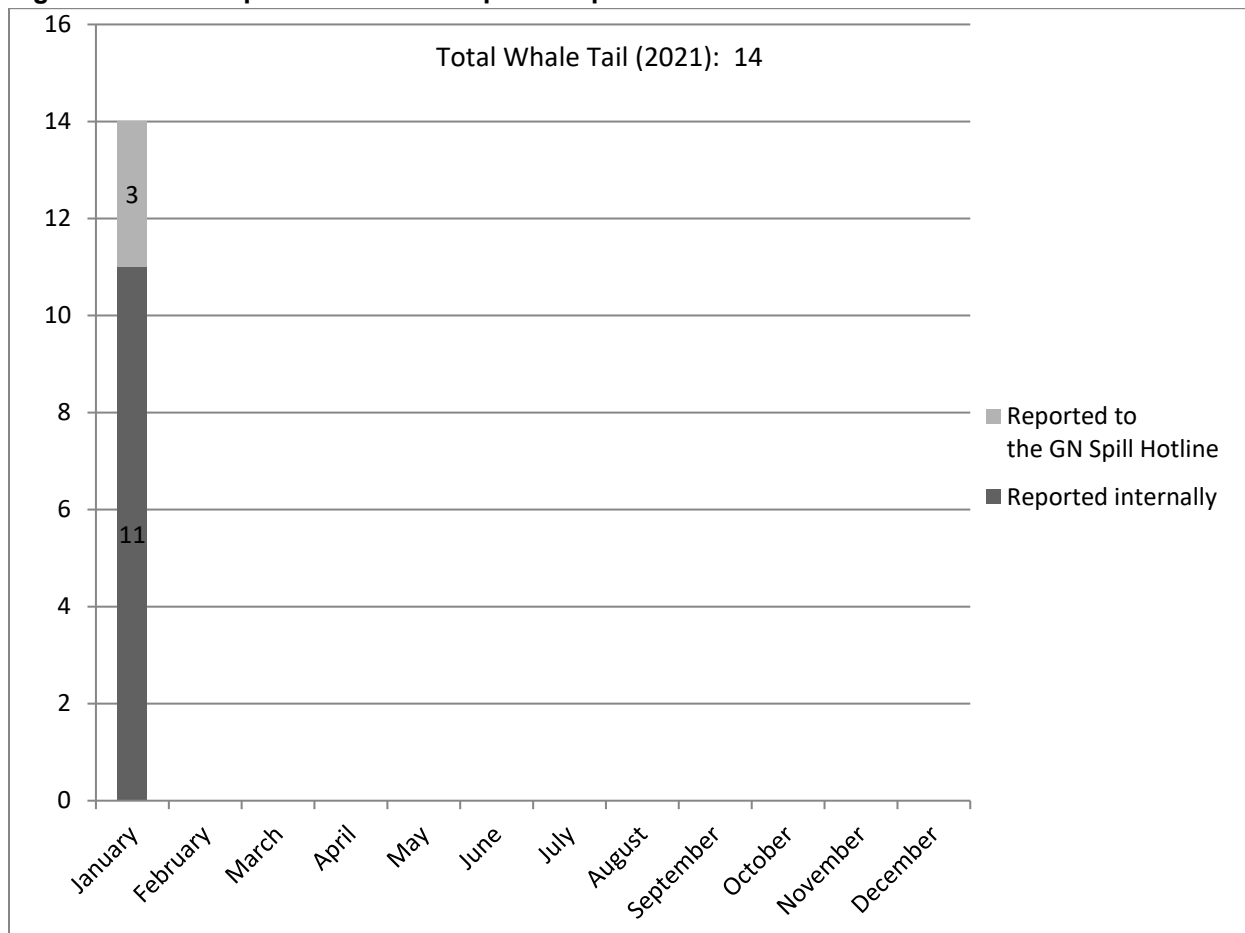
\* Analysis for TPH was done as fractions by the lab. The fractions analyzed equal total petroleum hydrocarbon. All results were below detection limits.

### SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2021 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for January.

Fourteen (14) spills occurred on site in January with three (3) 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 2021 Reported and Non-Reported Spills**



**Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, January 2021**

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
1/1/2021	Diesel Fuel	92	L	Service dome fuel tank	Fuel nozzle was left unattended resulting in overfilling the tank.	The spill was contained and cleaned using spill pads. The spill pads were disposed of in a Quatrex bag.
1/8/2021	Coolant	375	L	WTHR Km 132	Radiator hose failure.	The contaminated material was removed and properly disposed of.
1/9/2021	Coolant	80	L	Maintenance pad	Coolant hose failure.	Spill pads were used to contain the spill, Contaminated material was removed and adequately disposed of in the yellow bin.
1/9/2021	Antifreeze	15	L	WTHR Km 130	Equipment failure.	The contaminated material was removed and adequately disposed of.
1/14/2021	Hydraulic Oil	55	L	Whale Tail Pit	Broken o-ring	Equipment was turned off. Contaminated material was removed and adequately disposed of in the yellow bin.
1/15/2021	Coolant	5	L	WTHR Km 169	Equipment failure.	Contaminated material was removed and adequately disposed of.
1/16/2021	Hydraulic Oil	50	L	Whale Tail Pit	Hydraulic hose failure	Contaminated material was removed and adequately disposed of in the yellow bin
1/16/2021	Coolant	75	L	Whale Tail Pit	Coolant hose failure.	Contaminated material was removed and adequately disposed of in the yellow bin
1/16/2021	Hydraulic Oil	20	L	Whale Tail Pit	Hydraulic hose failure	Contaminated material was removed and adequately disposed of in the yellow bin
1/17/2021	Hydraulic Oil/Engine Oil	250	L	Whale Tail Pit	Excavator BAC09 was cleaning a catchment when it rolled off its pad. During the recovery operation, a hydraulic line was ruptured on the excavator boom causing a spill. Some engine oil also spilled from the dipstick while the machine was upside down	Contaminated material was removed and adequately disposed of.
1/19/2021	Hydraulic Oil	80	L	Fusion shack	Hydraulic tank rupture	Contaminated material was removed and adequately disposed of
1/23/2021	Hydraulic Oil	20	L	Whale Tail Pit	Broken tractor motor	Contaminated material was adequately disposed of.
1/23/2021	Hydraulic Oil	30	L	IVR Pit	Broken rear differential bearing	Contaminated material was removed and disposed of in yellow bin beside shop.
1/24/2021	Coolant	4	L	WTHR Km 115	Broken fan belt, causing coolant leak	Spill pads were used to clean the spill. Pads adequately were disposed of.