



**AGNICO EAGLE**

WHALE TAIL PROJECT

## **Monitoring Program Summary Report**

**April 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 the month is summarized in Table 2.1 below

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

Water Location	Source Lake	Jan	Feb	March	April	Total
Camp	Nemo	2,413	2,428	2,823	2,827	10,791
Construction/Operation	Nemo	2,074	2,184	2,287	2,409	8,954
Dust Suppression	Nemo / WTHR Pond	0	0	0	0	0
Explosive	Mammoth Lake	0	0	0	0	0
Drilling	Proximal Sources	0	0	0	0	0
<b>Total Freshwater Usage (m<sup>3</sup>)</b>		<b>4,487</b>	<b>4,612</b>	<b>5,110</b>	<b>5,236</b>	<b>19,744</b>

### 2.2 LAKE WATER MONITORING

Lakes around the Whale Tail Project were not monitored during the month 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 during the month and no sampling at station ST-WT-13 was conducted. 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 April. A total of 2,456 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 intermittently in April. Discharge occurred April 1 to 2, 8 to 11, 15 to 22, and 25 to 30. A total volume of 124,152 m<sup>3</sup> was discharged in April.

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 Temporary Diffuser (ST-WT-24a)**

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date					Monthly Average
				4/1/2021	4/9/2021	4/16/2021	4/19/2021	4/26/2021	
Field Measured									
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.01	7.11	7.04	7.12	7.08	7.06
Conventional Parameters									
Total suspended solids	30	15	mg/L	1	1	< 1	< 1	< 1	0.7
Nutrients									
Total phosphorus	0.6	0.3	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0005
Total ammonia (NH3-N)	32	16	mg/L	0.47	0.34	0.44	2.1	1.1	0.89
Total Petroleum hydrocarbons (TPH) *									
F2 (C10-C16)	6	3	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.05
F3 (C16-C34)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.01
F4 (C34-C50)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.01
Total Metals									
Aluminum	1	0.5	mg/L	0.0064	0.0056	0.0035	0.0040	0.0059	0.0051
Arsenic	0.2	0.1	mg/L	0.00276	0.00203	0.00164	0.00201	0.00192	0.0021
Cadmium	0.004	0.002	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000005
Chromium	0.04	0.02	mg/L	<0.001	<0.001	<0.001	<0.001	0.0017	0.00074
Copper	0.2	0.1	mg/L	0.00234	0.00118	0.00110	0.00481	0.00261	0.00241
Iron	2	1	mg/L	0.114	0.110	0.058	0.090	0.056	0.086
Lead	0.1	0.05	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0001
Mercury	0.008	0.004	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0027	0.0025	0.0022	0.0057	0.0114	0.0049
Zinc	0.2	0.1	mg/L	0.0054	0.0053	0.0061	< 0.005	< 0.005	0.0044

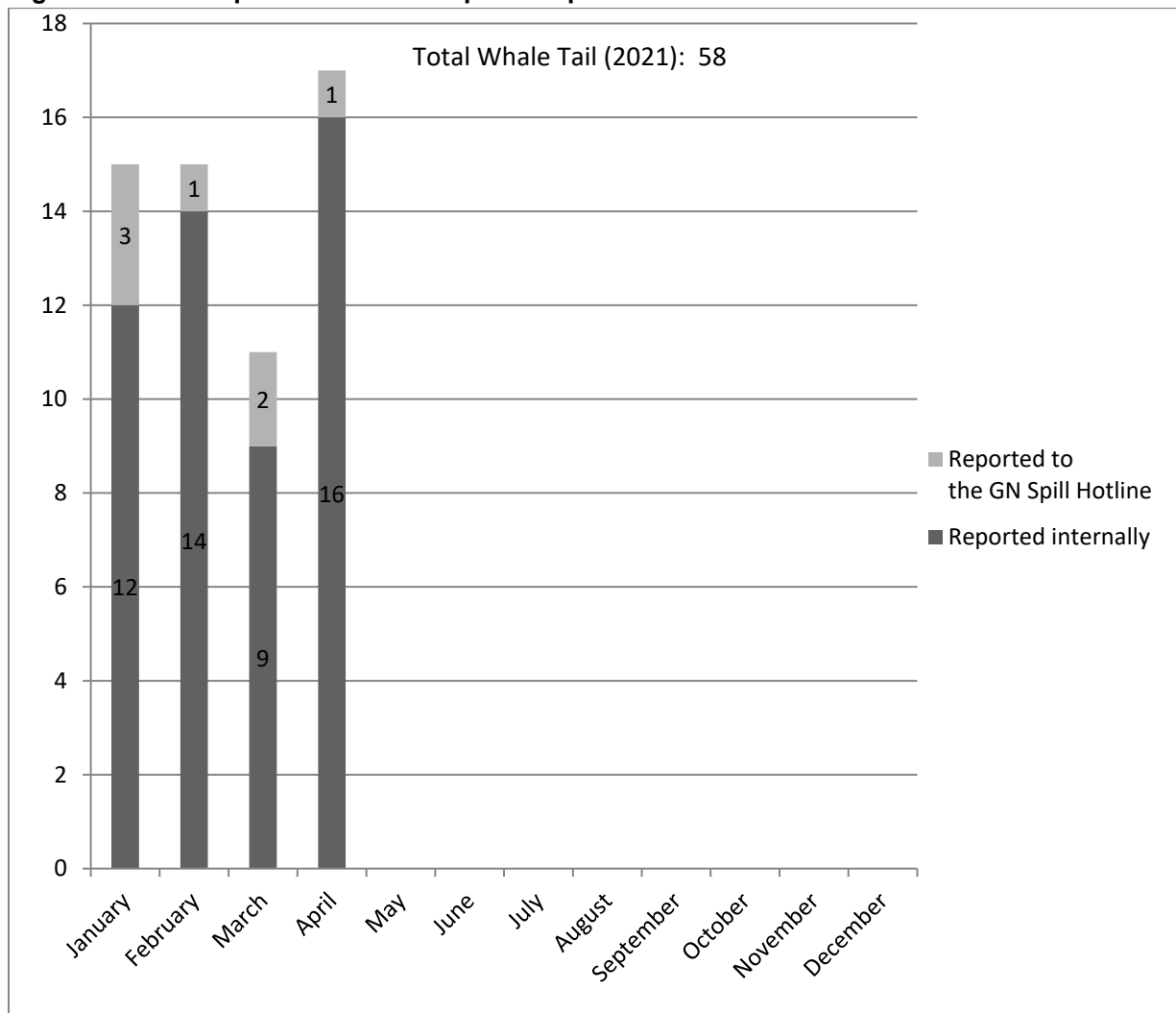
\* Analysis for TPH was done as fractions by the lab. The fractions analyzed equal total petroleum hydrocarbon. All results were below detection limits.

### 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 April.

Seventeen (17) 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 2021 Reported and Non-Reported Spills**



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

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
4/1/2021	Diesel	50	L	Whale Tail Pit	Broken fuel tank	Spill pads used, contaminated material was removed and disposed of adequately.
4/2/2021	Hydraulic Oil	3	L	Washroom laydown	Broken wheel bearing seal	Contaminated material was removed and disposed of in the yellow bin.
4/4/2021	Transmission Oil	20	L	IVR Pit	Broken transmission line	Contaminated material removed and disposed of in the yellow bin.
4/7/2021	Hydraulic Oil	30	L	Pit Phase 2 ramp	Hydraulic hose failure	Contaminated material was removed and brought to yellow bin for disposal.
4/9/2021	Coolant	25	L	Washroom Parking	Hose failure	Contaminated material was removed and brought to yellow bin for disposal.
4/9/2021	Hydraulic Oil	40	L	Whale Tail Pit	Hydraulic cylinder fitting failure	Contaminated material was removed and brought to yellow bin for disposal.
4/9/2021	Hydraulic Oil	5	L	IVR Ring Road - East end	Hydraulic fitting failure	Contaminated material was removed and brought to yellow bin for disposal.
4/10/2021	Coolant	10	L	Whale Tail Pit	Coolant hose failure.	Contaminated material was removed and brought to yellow bin for disposal.
4/12/2021	Coolant	60	L	Whale Tail Pit	Radiator leak	Contaminated snow and material was removed and brought to yellow bin for disposal.
4/12/2021	Coolant	90	L	Camp Parking	Radiator leak	Contaminated material was removed and brought to yellow bin for disposal.
4/15/2021	Diesel Fuel	20	L	Maintenance Shop	Cracked fuel tank on loader	Contaminated material was removed and adequately disposed of.
4/15/2021	Grease	2	L	Maintenance Shop	Snow and grease accumulation on boom melted onto ground	Contaminated material was removed and adequately disposed of.
4/17/2021	Hydraulic Oil	20	L	South of Dyno Road	Hydraulic hose failure	Contaminated material was removed and adequately disposed of.
4/17/2021	Coolant	30	L	WTHR KM 152	Coolant hose failure.	Contaminated material was removed and adequately disposed of.
4/18/2021	Diesel Fuel	50	L	WTHR KM 177	Tanker accident on side of road causing fuel to leak.	Contaminated material was removed and adequately disposed of.
4/19/2021	Engine Oil	40	L	Whale Tail Pit	Engine failure	Contaminated material was removed and adequately disposed of.
4/21/2021	Hydraulic Oil	60	L	WRSF	Hydraulic hose failure	Contaminated material was removed and adequately disposed of.