



WHALE TAIL PROJECT

Monitoring Program Summary Report

August 2021

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 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 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: August 2021 – Freshwater Usage (m³)

Water Location	Source Lake	Jan	Feb	March	April	May	June
Camp	Nemo	2 713	2 428	2 823	2 827	2 759	2 642
Construction/Operation	Nemo	2 074	2 184	2 287	2 319	2 273	1 534
Dust Suppression	Nemo / WTHR Pond	0	0	0	0	0	4 830
Explosive	Mammoth Lake	0	0	0	0	0	0
Drilling	Proximal Sources	0	0	0	0	0	0
Total Freshwater Usage (m³)		4 787	4 612	5 109	5 146	5 032	9 006

Water Location	Source Lake	July	Aug	Total
Camp	Nemo	2 836	2 913	21 941
Construction/Operation	Nemo	1 823	1 443	15 937
Dust Suppression	Nemo / WTHR Pond	6 000	350	11 180
Explosive	Mammoth Lake	0	0	0
Drilling	Proximal Sources	0	0	0
Total Freshwater Usage (m³)		10 659	4 706	49 058

2.2 LAKE WATER MONITORING

Lake around the Whale Tail Project were monitored on a monthly basis during the open water season. In August, 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 August. An estimated 360,300 m³ of water flowed from Whale Tail South Basin to Mammoth Lake. Weekly inspection were performed and no non-compliance were observed during the month.

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 August. A total of 2,793.5 m³ was discharged during the month.

2.6 WHALE TAIL/IVR ATTENUATION PONDS

Water from the IVR Attenuation Pond was discharged during the entire month of August in Mammoth Lake. Discharge in Mammoth Lake West Diffuser was from August 1 to 26 and August 29 to 31 and in Mammoth Lake East Diffuser from August 1 to 26. Water was treated by the Water Treatment Plan before discharge. A total of 492,742 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 to 2.6.2 below. No non-compliance observed during the month of August 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 Mammoth Lake West Diffuser (ST-WT-2)

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date					Monthly Average
				8/2/2021	8/9/2021	8/16/2021	8/23/2021	8/31/2021	
Field Measured									
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.44	7.41	6.78	7.04	7.28	7.19
Conventional Parameters									
Total suspended solids	30	15	mg/L	2	1	1	1	<1	1.1
Nutrients									
Total phosphorus	0.6	0.3	mg/L	0.0019	0.0013	< 0.0010	0.0026	0.0012	0.0015
Total ammonia (NH3-N)	32	16	mg/L	1.2	0.81	1.3	1	0.45	0.95
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	0.1
F4 (C34-C50)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.1
Total Metals									
Aluminum	1	0.5	mg/L	0.0123	0.0076	0.0114	0.007	0.0102	0.0097
Arsenic	0.2	0.1	mg/L	0.00579	0.00506	0.0266	0.0151	0.00622	0.011754
Cadmium	0.004	0.002	mg/L	0.000011	0.000013	0.000052	0.000033	0.000022	0.000026
Chromium	0.04	0.02	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0005
Copper	0.2	0.1	mg/L	0.00295	0.00097	0.00189	0.00129	0.00108	0.00164
Iron	2	1	mg/L	0.133	0.162	0.145	0.182	0.157	0.156
Lead	0.1	0.05	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.00020	< 0.00020	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	0.0141	0.0118	0.0705	0.0351	0.0134	0.0290
Zinc	0.2	0.1	mg/L	0.008	0.007	0.009	0.0068	0.0059	0.0073

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

Table 2.6.2: Whale Tail Attenuation Pond Discharge to Mammoth Lake East Diffuser (ST-WT-2a)

Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date				Monthly Average
				8/2/2021	8/9/2021	8/16/2021	8/23/2021	
Field Measured								
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.44	7.25	6.62	7.16	7.12
Conventional Parameters								
Total suspended solids	30	15	mg/L	< 1	< 1	1	2	1
Nutrients								
Total phosphorus	0.6	0.3	mg/L	< 0.0010	0.0017	< 0.0010	0.0073	0.0025
Total ammonia (NH3-N)	32	16	mg/L	1.2	0.82	1.3	0.99	1.08
Total Petroleum hydrocarbons (TPH) *								
F2 (C10-C16)	6	3	mg/L	< 0.1	< 0.1	< 0.1	< 0.1	0.5
F3 (C16-C34)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	0.1
F4 (C34-C50)			mg/L	< 0.2	< 0.2	< 0.2	< 0.2	0.1
Total Metals								
Aluminum	1	0.5	mg/L	0.0046	0.0063	0.0105	0.0111	0.0081
Arsenic	0.2	0.1	mg/L	0.00499	0.0052	0.0278	0.0205	0.0146
Cadmium	0.004	0.002	mg/L	0.000024	0.000011	0.000044	0.000021	0.000025
Chromium	0.04	0.02	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0005
Copper	0.2	0.1	mg/L	0.00239	0.00108	0.00207	0.00128	0.00171
Iron	2	1	mg/L	0.148	0.155	0.152	0.26	0.179
Lead	0.1	0.05	mg/L	0.00027	< 0.00020	< 0.00020	< 0.00020	0.00014
Mercury	0.008	0.004	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0135	0.0121	0.0714	0.0352	0.0331
Zinc	0.2	0.1	mg/L	0.0066	0.0065	0.0089	0.0065	0.0071

* 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 August.

Nine (9) spills occurred on site during the month with none 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

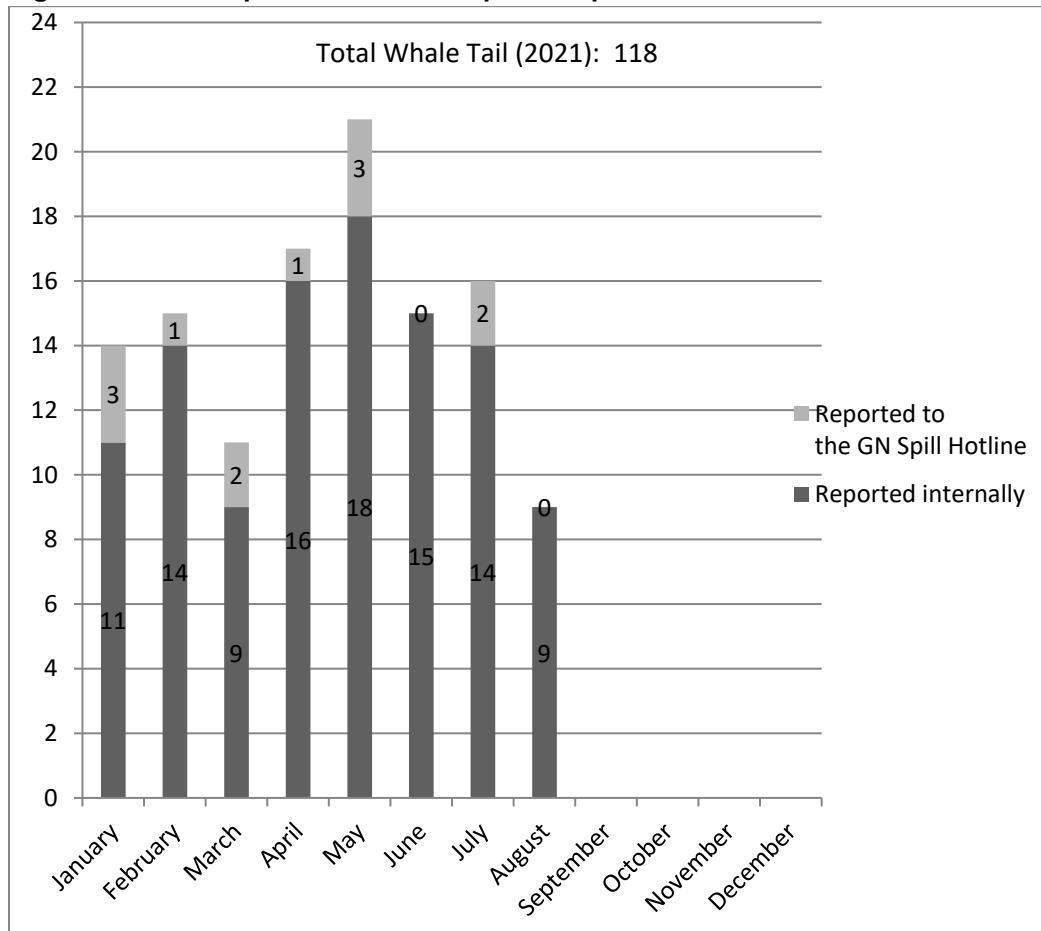


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, August 2021

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
2021-08-07	Hydraulic Oil	10	L	Underground	Equipment failure	Contaminated area was picked up and disposed of appropriately
2021-08-07	Hydraulic Oil	55	L	Whale Tail Pit	Broken cylinder cap	Spill was contained. Absorbent pads were disposed in the Quatrex bin. Contaminated soil picked up and adequately disposed of
2021-08-08	Coolant	10	L	Whale Tail Pit	Equipment damage	Spill was contained. Absorbent pads were disposed in the Quatrex bin. Contaminated soil picked up and adequately disposed of
2021-08-14	Coolant	20	L	Whale Tail Pit	Coolant hose failure.	Loader stopped mucking and headed to the shop. Spill was contained. Absorbent pads were disposed in the Quatrex bin. Contaminated soil picked up and adequately disposed of
2021-08-14	Hydraulic Oil	25	L	Whale Tail Pit	Broken hydraulic hose	Haul truck was stopping at the parking lot and the leak was contained using a pail. Contaminated soil picked up and adequately disposed of
2021-08-16	Hydraulic Oil	17	L	Whale Tail Pit	Broken hydraulic hose	Maintenance was call right away to fix the hose. Spill was picked up and disposed of in the yellow bin for contaminated material.
2021-08-25	Diesel Fuel	20	L	Amaruq Sana laydown	Broken fuel valve	The spill was immediately stopped and contained. Absorbant pads were used and the contaminated soil was disposed of adequately at the landfarm.
2021-08-29	Diesel Fuel	15	L	IVR Pit	Fuel truck was filling the drill, and the fuel tank vent did not work properly and spill occurred	Spill was picked up by IT-14 loader and disposed of in yellow bin at top of phase 2 ramp.
2021-08-30	Hydraulic Oil	30	L	Whale Tail Pit	Broken hydraulic hose	The drill was immediately stopped and a mechanic was called to check the equipment. Absorbant pads were used and the oil was removed using a vacuum truck. Contaminated soil and pads were disposed of adequately in a yellow bin.