



WHALE TAIL PROJECT

Monitoring Program Summary Report

May 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, Whale Tail Attenuation Pond discharge and dewatering discharges.

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: May 2021 – Freshwater Usage (m³)

Water Location	Source Lake	Jan	Feb	March	April	May	Total
Camp	Nemo	2 713	2 428	2 823	2 827	2 759	13 550
Construction/Operation	Nemo	2 074	2 184	2 287	2 319	2 273	11 137
Dust Suppression	Nemo / WTHR Pond	0	0	0	0	0	0
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	24 687

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 May. A total of 2,647.9 m³ was discharged during the month.

2.6 WHALE TAIL ATTENUATION POND

Water from the Whale Tail Attenuation Pond was discharged to Whale Tail South in May. Discharge occurred May 1 to 3, 14 to 22 and 26 to 31. A total volume of 117,645 m³ was discharged in May.

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
				02/052021	15/05/2021	17/05/2021	27/05/2021	31/05/2021	
Field Measured									
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.13	7.21	7.21	7.34	7.27	7.23
Conventional Parameters									
Total suspended solids	30	15	mg/L	< 1	1	1	1	1	0.9
Nutrients									
Total phosphorus	0.6	0.3	mg/L	< 0.0010	< 0.0010	0.0021	0.0012	0.0037	0.0016
Total ammonia (NH3-N)	32	16	mg/L	0.49	0.72	0.85	0.65	0.45	0.63
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	0.0067	0.0104	0.0070	0.0099	0.0210	0.011
Arsenic	0.2	0.1	mg/L	0.00193	0.00234	0.00295	0.00136	0.00272	0.00226
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	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	0.0005
Copper	0.2	0.1	mg/L	0.00163	0.00227	0.00215	0.00185	0.00115	0.00181
Iron	2	1	mg/L	0.067	0.136	0.059	0.077	0.122	0.092
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	0.0054	0.0053	0.0053	0.0050	0.0062	0.0054
Zinc	0.2	0.1	mg/L	< 0.005	0.0059	0.0066	0.0061	< 0.005	0.0047

* 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 May.

Twenty-one (21) spills occurred on site during the month 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

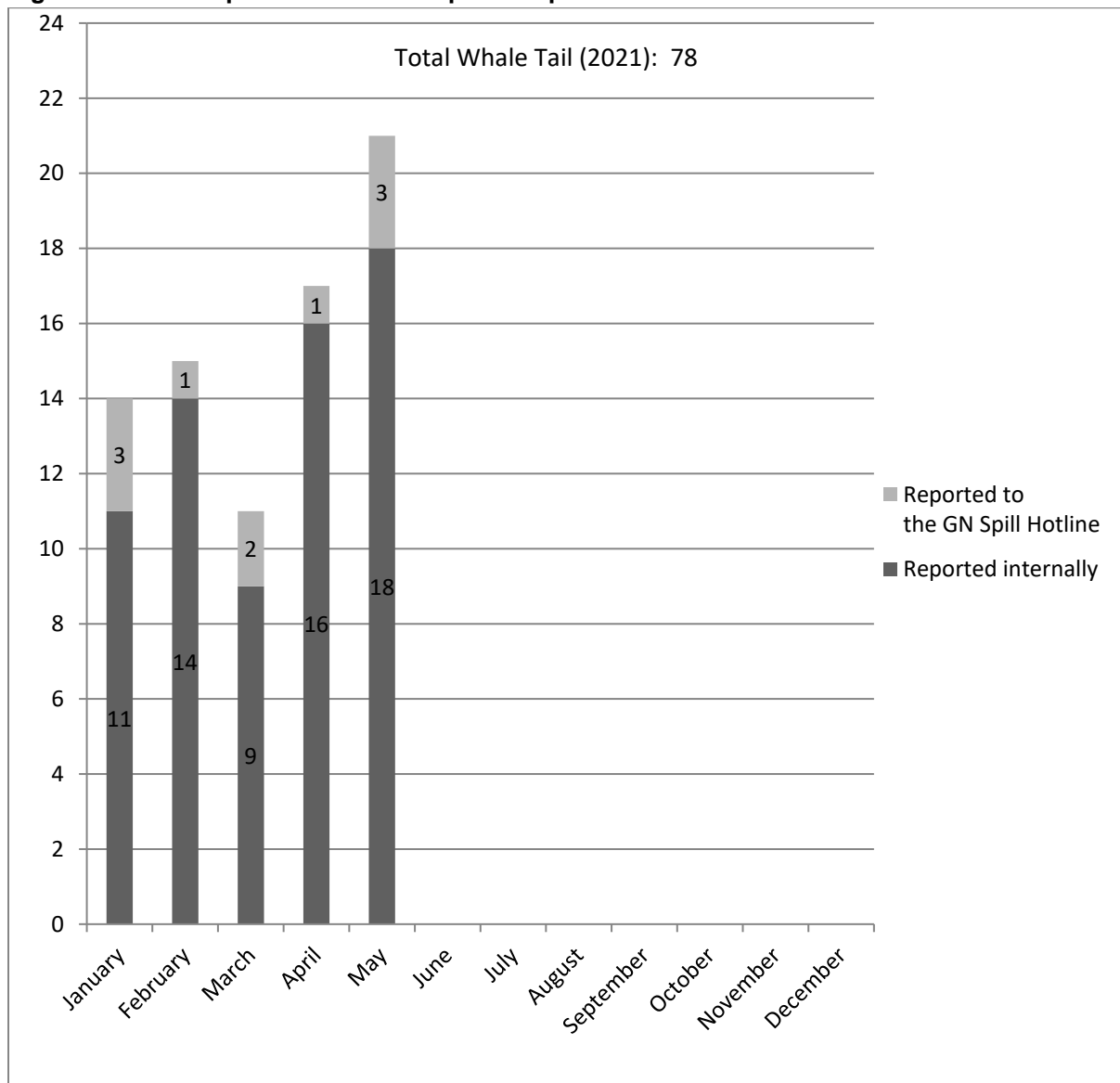


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, May 2021

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
2021-05-01	Hydraulic Oil	50	L	Phase 2 (5102MSL80)	Hydraulic hose failure	Contaminated soil picked up and disposed in the yellow bin.
2021-05-03	Hydraulic Oil	30	L	WTHR KM 152 East side	Blade cylinder hose failure	Operator shut off equipment immediately. Contaminated excavated and disposed of accordingly in the yellow contaminated bin at Meadowbank.
2021-05-04	Diesel	40	L	Mammoth Lake	Fuel pump fitting failure	During operations at Whale Tail Pit, while refueling equipment around SH92 Drill 4, the fuel pump fitting on an over pack fuel tank came loose causing diesel fuel to spill on the ice. Spill pads, and spill booms were immediately placed around the fuel tank. The area was scraped clean, and additional spill pads were placed on the ice to collect any residue. Additional spill pads will be added as necessary to collect any residue. Approximately 2m ³ of contaminated snow and ice was collected and placed into empty 1000L open totes.
2021-05-04	Hydraulic Oil	30	L	Phase 2 Pit	Equipment failure	Contaminated material was removed and adequately disposed of.
2021-05-06	Hydraulic Oil	80	L	5067PSK27 Preshear	Hydraulic hose failure	Drill was shut down and mechanic was call to assess and repair the hose. Contaminated material will be dumped in the yellow bin behind the U/G shop
2021-05-06	Hydraulic Oil	20	L	Pad K close to fuel farm	Equipment failure	Equipment was stopped right away. Contaminated material was removed and adequately disposed of.
2021-05-07	Diesel	3	L	Fuel Farm	Worker had hit the fuel tank with a rock on the floor of the pit	Absorbent pads were put in place and disposed off appropriately in the seacan behind the shop
2021-05-08	Diesel	55	L	Mammoth Lake	During operations at Whale Tail Pit, after refueling equipment around SH92 Drill 4, the fuel nozzle was placed incorrectly on the overpack tank. While storing it, the ball valve on the nozzle remained open	Spill pads, booms and a snow fence was built to contain the area. The area was scraped clean and additional spill pads will be added as necessary to collect any residue. Approximately 5m ³ of contaminated snow and ice was collected and placed into empty 1000L open totes.

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					and fuel spilled into the tanker sloop and onto the ice.	
2021-05-11	Engine Oil/Antifreeze	35	L	Phase 2 Ramp	Equipment failure	Contaminated material was removed and adequately disposed of.
2021-05-12	Hydraulic Oil	35	L	Outside UD service building	Hydraulic hose failure	Equipment stopped and contain with spill kit. Contaminated material was removed and adequately disposed of.
2021-05-13	Hydraulic Oil	10	L	PATTERN:5081MSK27	Hydraulic hose failure	Equipment stopped and contain. Contaminated material was removed and adequately disposed of in the yellow Bin on Pad on top of Phase 2 Ramp
2021-05-13	Hydraulic Oil	10	L	IVR pit pattern 5123MSI05	Hydraulic hose failure	Equipment stopped and contain. Contaminated material was removed and adequately disposed of.
2021-05-14	Diesel	1	L	WT Light Vehicle Fuel Station	While fueling PCK28 the operator noticed a puddle forming under the gas tank of the pickup	Operator stopped fueling the pick up and contained spill. Contaminated material was removed and adequately disposed of in the yellow bin.
2021-05-15	Hydraulic Oil	30	L	5081-MSK27	Hydraulic hose failure	Drill and blast stemming loader was dispatched and contaminated material was picked up and disposed of in the proper bin at the top of Phase 2 ramp.
2021-05-19	Hydraulic Oil	20	L	Qamanittuaq Sana yard	Hydraulic hose leak	Stop the leak. Contaminated material was removed and adequately disposed of.
2021-05-23	Hydraulic Oil	70	L	IVR Waste dump 5180 level	Hydraulic hose failure	Stop the leak. Contaminated material was removed and adequately disposed of.
2021-05-24	Hydraulic Oil	15	L	Auxiliary Camp Parking	Equipment failure	Contaminated material was removed and adequately disposed of the yellow bin
2021-05-27	Hydraulic Oil	35	L	IVR PIT pattern 5130MSI24	Hydraulic hose failure	Contaminated material was removed and adequately disposed of the yellow bin
2021-05-27	Diesel	150	L	Orbit Garant IVR dill pad	During an inspection in the morning, a fresh fuel spill was found at the drill storage pad. A refueling error during night shift is the most probable cause of this occurrence	Environment has advised the operation supervisor to assess and start recovering the contaminated material. The area is being shoveled with a backhoe and contaminated material will be brought to MBK landfarm.
2021-05-29	Transmission Oil	35	L	Washroom Parking	Transmission Oil Hose failure	Contaminated soil picked up and disposed on the yellow bin.
2021-05-29	Engine oil	15	L	Phase 1	A rock rolled up into the oil pan puncturing it.	Contaminated material was removed and adequately disposed of the yellow bin