



WHALE TAIL PROJECT

Monitoring Program Summary Report

October 2020

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 October is summarized in Table 2.1 below

Table 2.1: October 2020 – Freshwater Usage (m³)

Water Location	Source Lake	Jan	Feb	March	April	May	June
Camp	Nemo	2,062	2,184	2,317	1,485	1,845	2,013
Construction/Operation	Nemo	1,518	1,840	1,284	879	1,967	1,039
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)		3,579	4,024	3,601	2,364	3,812	3,052

Water Location	Source Lake	July	Aug	Sept	Oct	Total
Camp	Nemo	2,187	2,424	2,620	2,709	21,845
Construction/Operation	Nemo	498	1,533	1,935	1,261	13,755
Dust Suppression	Nemo / WTHR Pond	1,500	0	0	0	1,500
Explosive	Mammoth Lake	0	0	0	0	
Drilling	Proximal Sources	0	0	0	0	
Total Freshwater Usage (m³)		4,184	3,958	4,555	3,970	37,100

2.2 LAKE WATER MONITORING

Lakes around the Whale Tail Project were not monitored during the month of October 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 operational in October and a monthly sample was collected (ST-WT-13). No issues to report.

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 October. A total of 2,753 m³ was discharged during the month.

2.6 WHALE TAIL ATTENUATION POND

Water from the Whale Tail Attenuation Pond was discharged to Mammoth Lake from October 1 to 7 via the Mammoth Lake East Diffuser. The discharge was switched to Whale Tail South using the temporary diffuser from October 12 to 31.

Water was treated by the Water Treatment Plant before discharge. A total of 64,832 m³ was discharged to Mammoth Lake and a total of 150,396 m³ was discharged to Whale Tail South. The total volume of water discharged from the Whale Tail Attenuation Pond during the month of October was 215,228 m³.

As per Water License Part F Item 5, the effluent from this discharge shall not exceed the limits detailed in Table 2.6.1 and 2.6.2 below. No non-compliance of Water License or MDMER criteria was observed during the month.

Table 2.6.1: 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
				10/5/2020	
Field Measured					
pH	6.0 - 9.5	6.0 - 9.5	pH units	7.01	7.01
Conventional Parameters					
Total suspended solids	30	15	mg/L	5	5
Nutrients					
Total phosphorus	0.6	0.3	mg/L	<0.01	0.005
Total ammonia (NH3-N)	32	16	mg/L	0.92	0.92
General Organics					
Total Petroleum hydrocarbons (TPH)	6	3	mg/L	<0.1	0.05
Total Metals					
Aluminum	1	0.5	mg/L	0.045	0.045
Arsenic	0.2	0.1	mg/L	0.007	0.007
Cadmium	0.004	0.002	mg/L	<0.00002	0.00001
Chromium	0.04	0.02	mg/L	0.0014	0.0014
Copper	0.2	0.1	mg/L	0.0019	0.0019
Iron	2	1	mg/L	0.64	0.64
Lead	0.1	0.05	mg/L	<0.00017	0.0000085
Mercury	0.008	0.004	mg/L	<0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0231	0.0231
Zinc	0.2	0.1	mg/L	0.003	0.003

Table 2.6.2: Whale Tail Attenuation Pond to Whale Tail South Temporary Diffuser (ST-WT-24a)

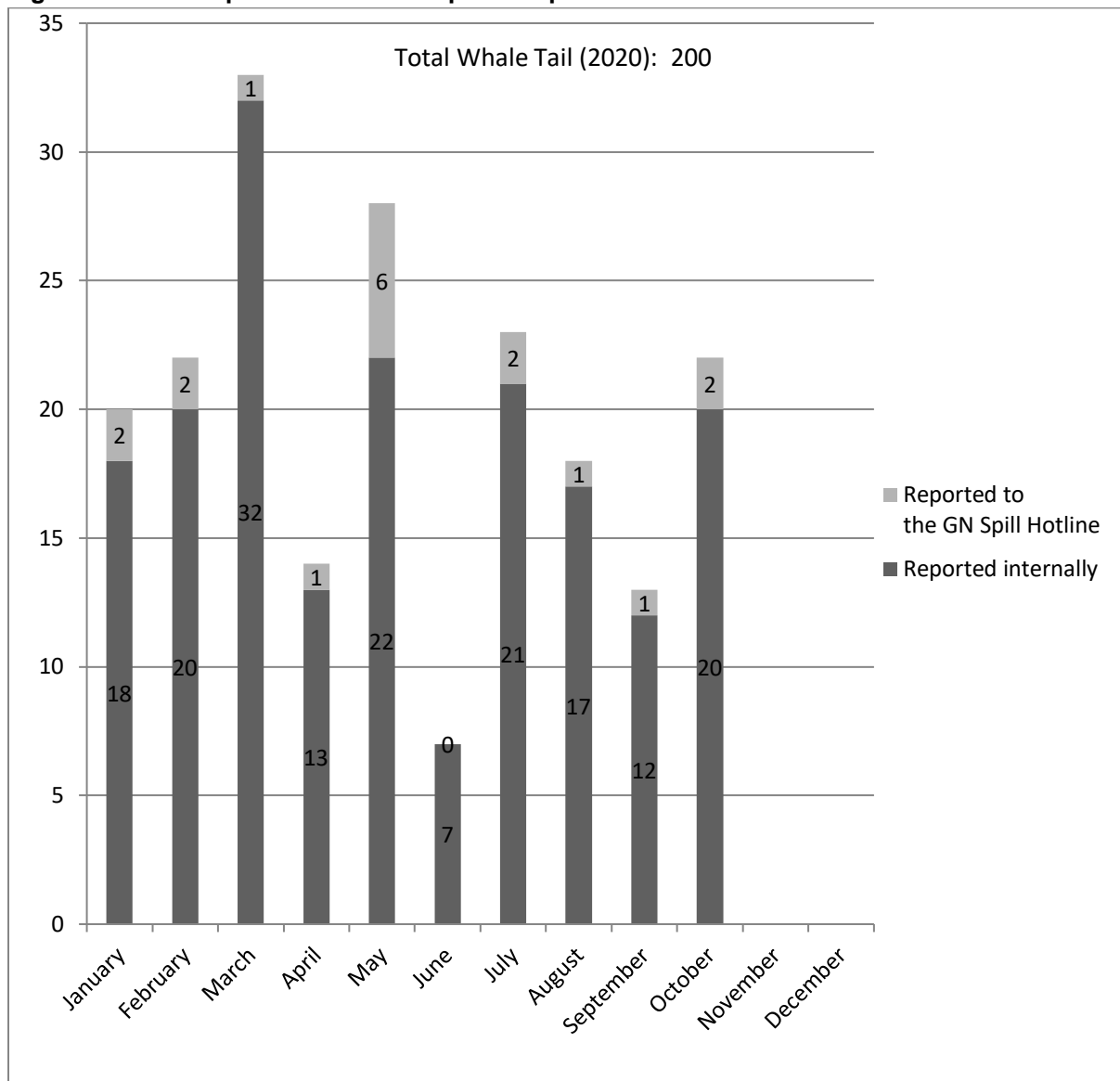
Parameter	Maximum Authorized Concentration Grab Sample	Maximum Authorized Monthly Mean Concentration	Unit	Sample Date			Monthly Average
				10/13/2020	10/19/2020	10/26/2020	
Field Measured							
pH	6.0 - 9.5	6.0 - 9.5	pH units	6.93	7.06	7.17	7.05
Conventional Parameters							
Total suspended solids	30	15	mg/L	2	9	7	6
Nutrients							
Total phosphorus	0.6	0.3	mg/L	0.05	0.04	<0.04	0.045
Total ammonia (NH3-N)	32	16	mg/L	0.6	0.4	0.39	0.46
General Organics							
Total Petroleum hydrocarbons (TPH)	6	3	mg/L	<0.1	<0.1	<0.1	0.05
Total Metals							
Aluminum	1	0.5	mg/L	0.021	0.049	0.029	0.033
Arsenic	0.2	0.1	mg/L	0.0021	0.003	0.0017	0.0023
Cadmium	0.004	0.002	mg/L	<0.00002	<0.00002	<0.00002	0.00001
Chromium	0.04	0.02	mg/L	0.0006	0.0021	0.0011	0.0013
Copper	0.2	0.1	mg/L	0.0027	0.0026	0.0005	0.0019
Iron	2	1	mg/L	0.43	0.43	0.59	0.48
Lead	0.1	0.05	mg/L	<0.00017	<0.00017	<0.0003	0.00011
Mercury	0.008	0.004	mg/L	<0.00001	<0.00001	<0.00001	0.000005
Nickel	0.5	0.25	mg/L	0.0094	0.0064	0.0042	0.007
Zinc	0.2	0.1	mg/L	0.01	0.028	0.002	0.013

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2020 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for October.

All spills reported internally (20) were managed appropriately on site according to Agnico's spill contingency plan. Two (2) spills were reported to regulators in October. 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 2020 Reported and Non-Reported Spills



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Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, October 2020

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
October 2, 2020	Hydraulic Oil	70	L	Whale Tail Pit	Hydraulic oil valve failure	Contaminated material was cleaned up and put into contaminated soil bin.
October 4, 2020	Engine Oil	4	L	Whale Tail Pit	Compressor slowly leaking	Absorbent pads were placed on the spill beneath the compressor. The leak was repaired and the contaminated material was disposed of in the yellow bin.
October 5, 2020	Diesel	40	L	HTR Parking AMQ	Overflow while fueling equipment	Flow from the nozzle was stopped and contaminated material was cleaned up and adequately disposed of.
October 5, 2020	Coolant	10		E&I parking	Equipment failure	Contaminated material was cleaned up and adequately disposed of.
October 7, 2020	Diesel	30	L	Pit Parking	Equipment failure	Contaminated material was cleaned up and adequately disposed of.
October 9, 2020	Diesel	60	L	UG fuel tank	Overfilling of fuel tank	Contaminated material was cleaned up and adequately disposed of.
October 9, 2020	Hydraulic Oil	140	L	IVR Pit	Equipment damage and broken hydraulic hose	Contaminated material was placed in the contaminated soil bin and will be brought to the MBK landfarm
October 10, 2020	Hydraulic Oil	65	L	Whale Tail Pit	Hydraulic oil hose failure	Contaminated material was cleaned up and adequately disposed of.
October 15, 2020	Hydraulic Oil	83	L	61BOL01	Hydraulic oil hose failure	Contaminated material was cleaned up and adequately disposed of.
October 16, 2020	Hydraulic Oil	24	L	Underground	Hydraulic oil hose failure	Contaminated material was cleaned up and adequately disposed of.
October 16, 2020	Coolant	10	L	Haul Truck Parking	Coolant hose failure	Contaminated material was cleaned up and placed in yellow bin.

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October 19, 2020	Diesel	50	L	HTR11	Equipment failure	Contaminated material was cleaned up and adequately disposed of.
October 19, 2020	Hydraulic Oil	25	L	Underground	Hydraulic oil hose failure	Contaminated material was cleaned up and placed in yellow bin.
October 19, 2020	Brake fluid	30	L	Whale Tail Pit	Brake line failure	Contaminated material was cleaned up and adequately disposed of.
October 19, 2020	Hydraulic Oil	50	L	Whale Tail Pit	Hydraulic oil hose failure	Contaminated material was cleaned up and placed in yellow bin.
October 20, 2020	Hydraulic Oil	20	L	IVR Pit	Hydraulic oil hose failure	Contaminated material was cleaned up and placed in yellow bin.
October 22, 2020	Hydraulic Oil	17	L	Underground	Rock broke hydraulic hose line	Contaminated material was cleaned up and adequately disposed of.
October 23, 2020	Hydraulic Oil	90	L	WRSF	Hydraulic oil hose failure	Contaminated material was cleaned up and adequately disposed of.
October 25, 2020	Hydraulic Oil	80	L	Underground	Hydraulic oil hose failure	Spill was contained and contaminated spill pads were disposed of in a quatrex bag.
October 26, 2020	Hydraulic Oil	50	L	Ring road	Hydraulic oil hose failure	Contaminated material was put in yellow bin.
October 27, 2020	Hydraulic Oil	1400	L	IVR Pit	Equipment damage and broken hydraulic hose	Contaminated material was placed in the contaminated soil bin and will be brought to the MBK landfarm
October 29, 2020	Hydraulic Oil	20	L	Whale Tail Pit	Hydraulic oil hose failure	Contaminated material was put in yellow bin.