



WHALE TAIL PROJECT

Monitoring Program Summary Report

February 2019

Type A Water License 2AM-WTP1826

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SECTION 1 • BACKGROUND

As required under Part I, Item 23 of Type A Water License 2AM-WTP1826, this report documents the water management and monitoring activities at the mine site for the month. This includes water usage, water monitoring around site, sewage treatment plan discharge and Whale Tail Dike and Mammoth construction monitoring.

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

SECTION 2 • WATER MANAGEMENT

2.1 WATER USAGE

All water withdrawals related to Exploration activities is currently managed by Part C Item 1 of the Exploration Water License 2BB-MEA1828. All of the information regarding the use under this License 2BB-MEA1828 will be provided via the Annual Report required by Part B Item 6.

Agnico Eagle is authorized as per Part E Item 1 of the Water License 2AM-WTP1826 to intake water from Nemo Lake for a total year to date of 240,000 m³/year. A total volume of 3,584 m³ was withdrawn from Nemo Lake in February. Details are provided in Table 2.1.1 below.

Table 2.1.1: February 2019 – Freshwater Consumption

Water Location	Source Lake	Jan	Feb	Total
Camp	Nemo	1 306	1 396	2 702
Construction/Operation	Nemo	1 283	2 188	3 472
Dust Suppression	NA	0	0	0
Total Freshwater Usage (m³)		2 589	3 584	6 174

2.2 LAKE A47 WATER MONITORING

No monitoring sample at Lake A47 (ST-WT-6) was collected in February due to frozen condition.

2.3 LAKE A15 WATER MONITORING

No monitoring sample at Lake A15 (ST-WT-15) was collected in February due to frozen condition.

2.4 LAKE A16 OUTLET WATER MONITORING

No monitoring sample at Lake A16 (ST-WT-14) was collected in February due to frozen condition.

2.5 SEEPAGE MONITORING

No seepage has been observed in February around the site.

2.6 SEWAGE TREATMENT PLANT

Effluent from the Sewage Treatment Plan (STP) is discharged to the Whale Tail Lake North Basin and is monitored as per the Water License 2BB-MEA1828 Part D Item 10. Agnico still considers the camp and all the facilities associated to be Amaruq Exploration Camp. All of the information regarding this discharge will be provided via the Annual Report required by 2BB-MEA1828 Part B Item 6.

Agnico plans to have a Sewage Treatment Plan associated with the Water License 2AM-WTP1826 operational in Q2 2019.

2.7 WHALE TAIL DIKE CONSTRUCTION

The construction of Whale Tail Dike started on July 27, 2018 and the rockfill placement was completed in August. Since the in-water rockfill placement was completed, the turbidity curtains (3) installed downstream of the dike has been removed in September 2018. The two (3) turbidity curtain north side of the dike are still in place. Secant wall installation completed early December 2018. Grout curtain of the Whale Tail Dike was completed in mid-February. The thermal capping will be completed in June.

The fishout of the Whale Tail North Basin was concluded on September 29 because conditions did not permit safe continuation of work and objectives had been attained. Agnico held a meeting with DFO to discuss the conclusion of the fishout on March 8th and provided the 2018 Whale Tail Fishout report on March 14th.

In accordance with the Water License 2AM-WTP1826 Part D Item 6 and the Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, the monitoring of the TSS level at four (4) locations downstream of the dike is based on the strong relation TSS-Turbidity which permit real time results. The in-water work construction was completed, thus the water quality monitoring was reduced to a weekly (weather permitting) depth profile turbidity readings. Readings taken at these locations and compared to the maximum monthly mean and short term maximum limit detailed in 2AM-WTP1826 Part D Item 6. For two (2) samples in February, the turbidity probe was not working properly due to cold weather and prevented the monitoring to be conducted. As the in-water work was completed and based on previous results, Agnico is confident that the results remain below the regulatory limits. No TSS exceedance has been observed in February as shown in Table 2.7.1 below.

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Table 2.7.1: Whale Tail Dike TSS Downstream monitoring station based on TSS-Turbidity relation

Date	Station	1	2	3	4	5	6	7	8	Max TSS 24H (mg/L)	Mean TSS 24H (mg/L)	TSS 7 Day Mean (mg/L)	TSS 30 Day Mean (mg/L)
Limit (mg/L)										50	50	15	15
2019-02-06	ST-WT-DC1		0.000	0.000	0.000					0.000	0.000	0.315	0.168
	ST-WT-DC2		0.273	0.273	0.106	0.000	0.000			0.273	0.106	0.247	0.148
	ST-WT-DC3		0.161	0.161	0.105					0.161	0.105	0.790	0.279
	ST-WT-DC4		0.000	0.000						0.000	0.000	0.297	0.271
2019-02-13	ST-WT-DC1	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC2	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC3	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC4	Probe malfunction								NA	NA	NA	NA
2019-02-18	ST-WT-DC1		0.000	0.000						0.000	0.000	0.311	0.157
	ST-WT-DC2		0.000	0.000	0.000	0.000	0.000	0.000		0.000	0.000	0.243	0.137
	ST-WT-DC3	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC4	Probe malfunction								NA	NA	NA	NA
2019-02-27	ST-WT-DC1	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC2	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC3	Probe malfunction								NA	NA	NA	NA
	ST-WT-DC4	Probe malfunction								NA	NA	NA	NA

2.8 MAMMOTH DIKE CONSTRUCTION

The construction of Mammoth Dike started on February 15 with drill and blast activities. At the end of February, most of the excavation was completed and the rockfill placement was completed at 9%.

In accordance with the Water License 2AM-WTP1826 Part D Item 6 and the Water Quality Monitoring and Management Plan for Dike Construction and Dewatering, the monitoring of the TSS level at four (4) locations downstream of the dike is based on the strong relation TSS-Turbidity which permit real time results. All water near the footprint of the dike was frozen to the bottom and Agnico does not expect any impact on the receiving environment, Mammoth Lake. The water quality monitoring was conducted on a weekly basis (weather permitting) for a depth profile turbidity readings. Readings taken at these locations are compared to the maximum monthly mean and short term maximum limit detailed in 2AM-WTP1826 Part D Item 6. For two (2) samples in February, the turbidity probe was not working properly due to cold weather and prevented the monitoring to be conducted. As the water in the vicinity of the dike construction are frozen to the bottom and based on the results before and after the missing monitoring, Agnico is confident that the results remain below the regulatory limits. No TSS exceedance has been observed in February as shown in Table 2.8.1 below

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Table 2.8.1: Mammoth Dike TSS Downstream monitoring station based on TSS-Turbidity relation

Date	Station	1	2	3	4	5	Max TSS 24H (mg/L)	Mean TSS 24H (mg/L)	TSS 7 Day Mean (mg/L)	TSS 30 Day Mean (mg/L)
<i>Limit (mg/L)</i>							50	50	15	15
2019-02-06	ST-WT-DC5	NA								
	ST-WT-DC6		0.161	0.337	0.261	0.184	0.337	0.236		
	ST-WT-DC7		0.161	0			0.161	0.081		
	ST-WT-DC8		0.294	0.459			0.459	0.377		
2019-02-13	ST-WT-DC5	Probe malfunction					NA	NA	NA	NA
	ST-WT-DC6	Probe malfunction					NA	NA	NA	NA
	ST-WT-DC7	Probe malfunction					NA	NA	NA	NA
	ST-WT-DC8	Probe malfunction					NA	NA	NA	NA
2019-02-18	ST-WT-DC5		0.000	0.000	0.000		0.000	0.000	0.000	0.000
	ST-WT-DC6		0.000	0.000	0.000	0.000	0.000	0.000	0.118	0.118
	ST-WT-DC7		0.000	0.000			0.000	0.000	0.040	0.040
	ST-WT-DC8		2.490				2.490	2.490	1.433	1.433
2019-02-27	ST-WT-DC5	Probe malfunction					NA	NA	NA	NA
	ST-WT-DC6	Probe malfunction					NA	NA	NA	NA
	ST-WT-DC7	Probe malfunction					NA	NA	NA	NA
	ST-WT-DC8	Probe malfunction					NA	NA	NA	NA

SECTION 3 • SPILL MANAGEMENT

Figure 3.1 shows reported and non-reported spills for 2019 broken down per month and Table 3.1 summarizes Agnico Eagle spill reports for February.

All spills reported internally (22) were managed appropriately on site according to Agnico's spill contingency plan. Six (6) spills were reported to regulators in February. 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 2019 Reported and Non-Reported Spills

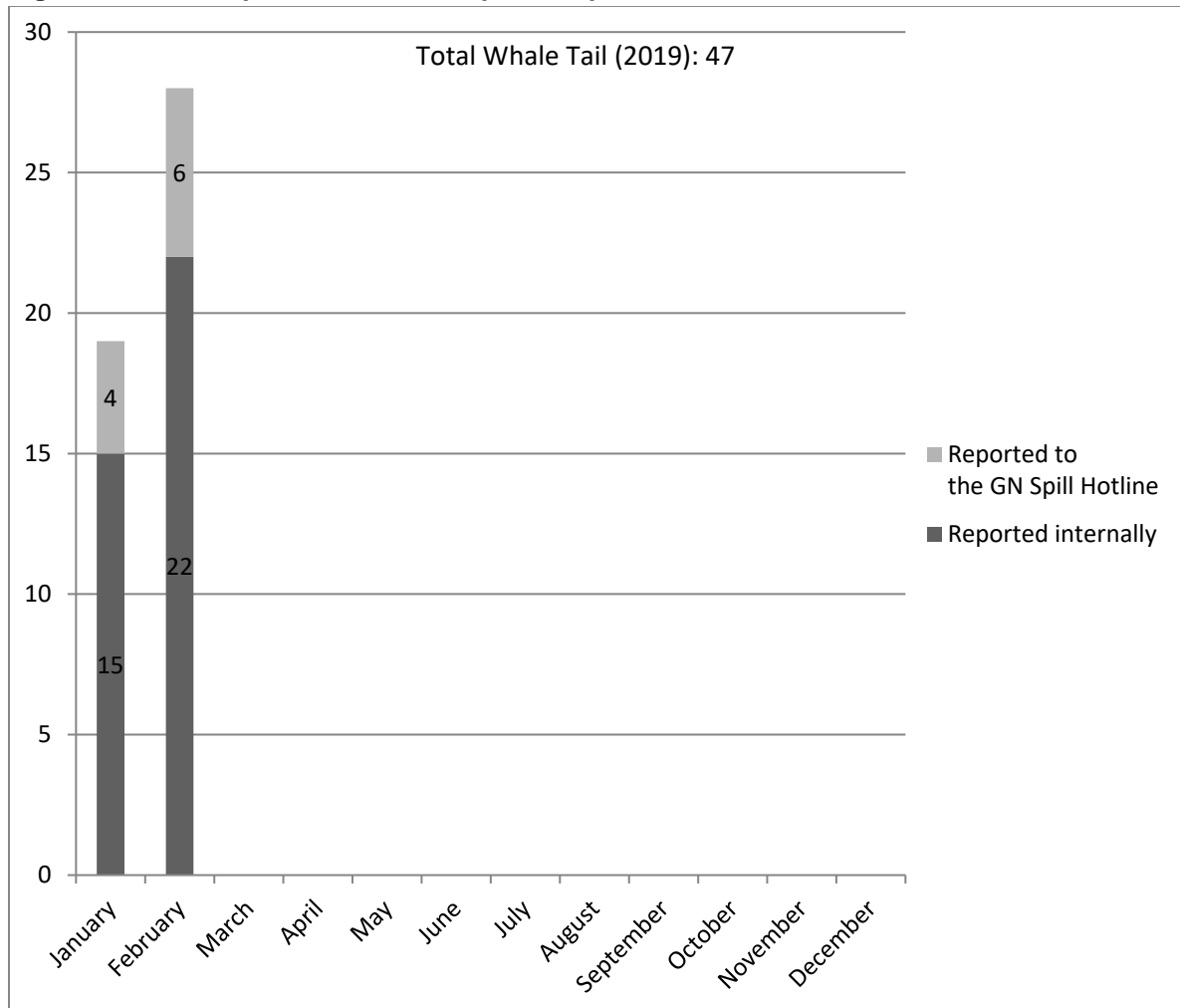


Table 3.1: Summary of Agnico Eagle Internal and Reported Spill Reports, February 2019

Date of Spill	Hazardous Material	Qty	Units (L / Kg)	Location	Cause of spill	Clean-up action taken
February 1, 2019	Engine Oil	5	L	Whale Tail WRSF Sana crusher	Engine failure	Clean-up using absorbent pad and hand shovel. Contaminated soil has been disposed appropriately
February 2, 2019	Hydraulic Oil	250	L	Whale Tail Quarry 2	Cone bearing of the wheel let go and broke a seal and empty the hydraulic tank	Spill was contained and contaminated soil picked up and disposed of appropriately
February 2, 2019	Hydraulic Oil	2	L	Whale Tail Haul Road KM 122.5	Cap of tank leak oil	Contaminated soil picked up and disposed of appropriately
February 2, 2019	sewage water	40	L	Whale Tail STP	Left over in the hose spill on the snow bank.	Contaminated soil picked up with the loader and disposed of appropriately
February 3, 2019	Hydraulic Oil	85	L	Whale Tail Road 22	Hydraulic hose loosen	Tightened the hoses to prevent more oil from leaking., Spill was contained and contaminated soil picked up and disposed of appropriately
February 3, 2019	Engine Oil	3	L	Whale Tail North Basin	Pump' seal gasket failure	Spill was contained and contaminated soil picked up and disposed of appropriately
February 4, 2019	Waste water (sewage)	1000	L	Whale Tail STP	After 4 hours on electrical failure the system restart and overflow in STP	Stopped the system and call loader to scoop the spill. Contaminated soil picked up and

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						disposed of appropriately
February 6, 2019	Engine Oil	4	L	Whale Tail North Basin	Diesel Motor failure	Spill was contained and contaminated soil picked up and disposed of appropriately
February 7, 2019	Engine Oil	6	L	Whale Tail North Basin	Main hydraulic hose broke under the control panel	Pick up all the contaminated snow and clean the drift pan under the control, put new absorbant under the control and disposed from all the contaminated snow and absorbant pads appropriately
February 8, 2019	sewage	70	L	Whale Tail STP	STP overfilled after the shut down	Contaminated soil picked up with the loader and disposed of appropriately
February 9, 2019	Hydraulic Oil	30	L	Whale Tail Quarry 2	Swing Drive leak oil	Spill was contained and contaminated soil picked up and disposed of appropriately. Equipment was stopped and leaked was repaired
February 9, 2019	Coolant	2	L	Whale Tail North East Dike	Coolant reserve tank overflowed	Spill was contained and contaminated soil picked up and disposed of appropriately. Equipment sent to the maintenance shop for evaluation
February 10, 2019	Coolant	75	L	Whale Tail Maintenance Shop	Upper rad hose failure	Spill was contained and contaminated soil picked up and

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						disposed of appropriately
February 11, 2019	Fecal Coliform	42,000	CFU/100ml	Wastewater effluent STP	Coliform was received for a treated wastewater effluent discharge sample taken on Feb 11th. Prior results were below the limit.	Investigation on STP.
February 12, 2019	Coolant	8	L	Whale Tail Haul Road KM144	Broken fan belt, engine overheated and coolant overflowed	Spill was contained and contaminated soil picked up and disposed of appropriately
February 12, 2019	Hydraulic Oil	52	L	Whale Tail Quarry 2	Hydraulic hose failure	Spill was contained and contaminated soil picked up and disposed of appropriately
February 14, 2019	Hydraulic Oil	35	L	Whale Tail WRSF Dump	O-ring on bucket Cylinder busted	Equipment was shut off and repaired. Spill was contained and contaminated soil picked up and disposed of appropriately
February 15, 2019	Hydraulic Oil	30	L	Whale Tail Quarry 2	Hydraulic hose failure	Spill was contained and contaminated soil picked up and disposed of appropriately
February 18, 2019	Hydraulic Oil	10	L	Whale Tail Maintenance	BAC05 is having a final drive replacement. The lines were capped off with a "Blue plug" but the plug fell out.	Contaminated soil picked up and disposed of appropriately

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February 18, 2019	Hydraulic Oil	90	L	Whale Tail Quarry 2	Equipment failure	Contaminated soil picked up and disposed of appropriately
February 19, 2019	Hydraulic Oil	20	L	Whale Tail Quarry 2	O-ring on hydraulic hose failure.	Contaminated soil picked up and disposed of appropriately
February 19, 2019	Hydraulic oil	5	L	Whale Tail WRSF	Equipment failure	Contaminated soil picked up and disposed of appropriately
February 20, 2019	Hydraulic oil	15	L	Whale Tail Maintenance	Hydraulic tube rubbed through on a bolt	Spill was contained and contaminated soil picked up and disposed of appropriately
February 22, 2019	Hydraulic Oil	30	L	Whale Tail PAD K	Hydraulic hose failure	Contaminated soil picked up and disposed of appropriately
February 23, 2019	Engine Oil	10	L	Whale Tail Nemo road	Air cooler on top of the drill broke down while operating the drill	Contaminated soil picked up and disposed of appropriately
February 24, 2019	Engine Oil	8	L	Whale Tail Road #3	Hydraulic motor seal failure	Contaminated soil picked up and disposed of appropriately
February 25, 2019	Hydraulic oil	87	L	Whale Tail Quarry 2	O-ring failure	Contaminated soil picked up and disposed of appropriately
February 28, 2019	Hydraulic Oil	25	L	Whale Tail Quarry 2	Hydraulic hose failure	Spill was contained and contaminated soil picked up and disposed of appropriately