



145 King Street East
Suite 400,
Toronto, Ontario M5C 2Y7
416-628-0216

Sent by Email

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Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
X0B 1J0

Re: December 2021 – Monthly Monitoring Report for Water Licence 2AM-DOH1335

This report is comprised of the monitoring requirements set out in Part I and Schedule I of water licence 2AM-DOH1335 Amendment 2 (the licence), and additional requirements from CIRNAC.

On February 2, 2021 TMAC was purchased by Agnico Eagle Mines (Agnico Eagle) but TMAC continues to exist as a legal entity and is now a wholly owned subsidiary of Agnico Eagle. All rights, obligations, liabilities of TMAC continue to reside with TMAC until or if an amalgamation with Agnico Eagle occurs later in 2022.

During the subject period of this report, the focus of activities at Doris was underground mining, ore processing, water management and environmental compliance.

Dewatering of the Tailings Impoundment Area (TIA) and the Doris underground workings through the Robert's Bay Discharge System was halted on November 29 to remain compliant with MDMER and was not restarted in December. Dewatering of the Doris underground workings through the mill tailings system to the TIA also continued this month. The mill was not operational after October 6th and was not restarted during the month of December.

In February, Agnico made the decision to pause mining activities at Madrid North to allow further evaluation of the mine plan for this area and focus on activities at Doris. Underground mining activities at the Madrid North Portal were suspended and remain inactive at this time.

Sampling locations monitored under this licence (seasonally or when facilities are operational) are provided in Figure 6 through Figure 8 at the end of this report.

Site Wide Water Quality Monitoring Program (Part I Item 3 and Schedule I)

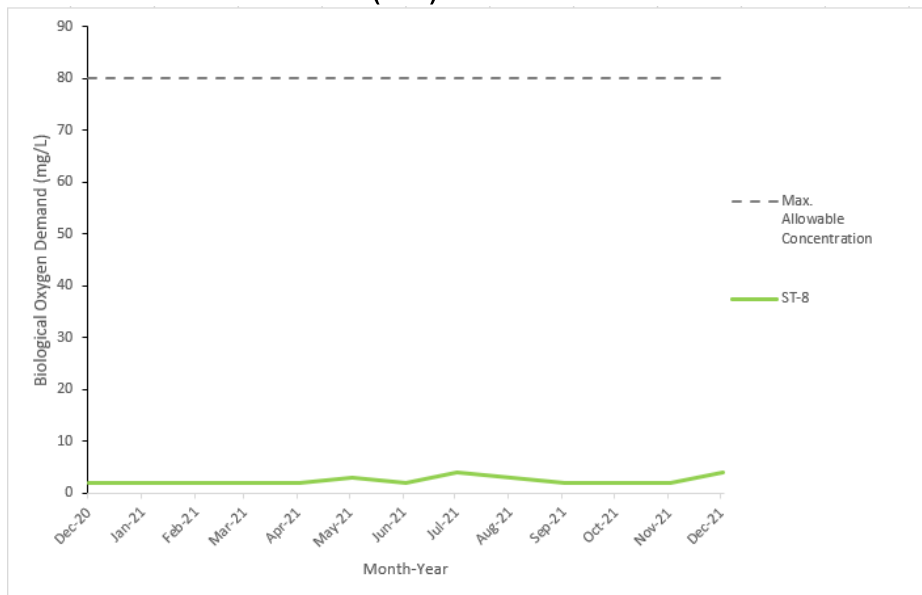
Water quality sampling was conducted in December at monitoring stations identified in Schedule I of the licence (ST-1 through ST-13, TL-1 through TL-12 and MMS-1 through MMS-10). Water quality samples were not collected for monitoring stations that were inactive during the month being reported (e.g., facilities that had not yet been constructed, were frozen during the month, or were not operationally active).

All parameters were compared to the applicable effluent quality limits outlined in Part D and Part F of the licence. No exceedances of effluent quality limits were observed in any samples collected this month. Results of all water quality monitoring are provided in Appendix A attached to this report. Due to sample shipment delay on site, TL7A samples for September will not be available

at the time of submission of this report. Results for these samples will be reported in the next monthly SNP report when they become available.

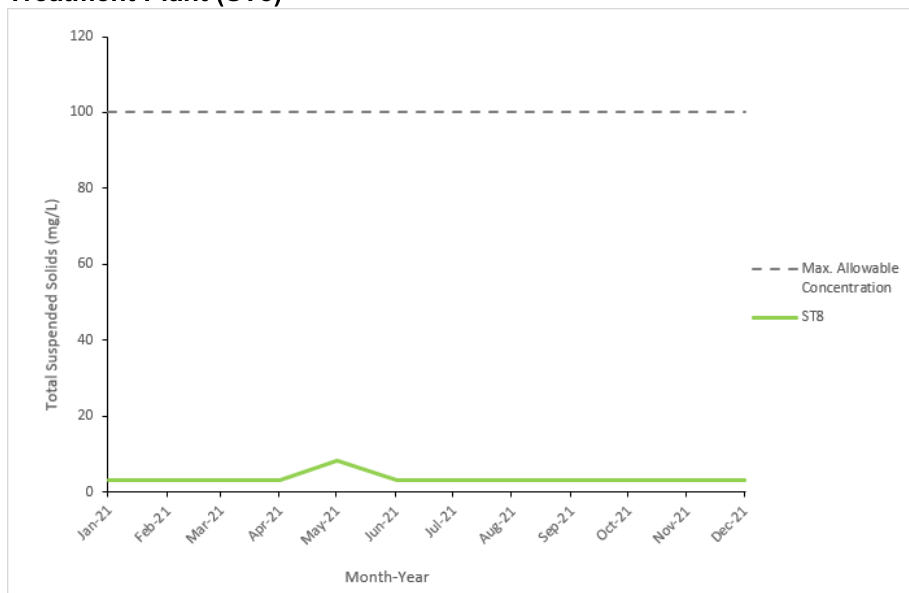
Figure 1 and 2 illustrates effluent quality characteristics for parameters of interest at select monitoring stations.

Figure 1. Biological Oxygen Demand Results Consistently Below Discharge Criteria for Wastewater Treatment Plant (ST8)



Note: Maximum Average Concentration as per Part F Item 4(b).

Figure 2. Total Suspended Solids Results Consistently Below Discharge Criteria for Wastewater Treatment Plant (ST8)



Note: Maximum Average Concentration as per Part F Item 4(b).

Flow and Volume Measurements (Part F, Part I and Schedule I)

Table 1. Effluent discharge, December 2021

Facility	Station Code	Discharge Volume (m ³)	Exceedances of Discharge Criteria	Discharge Location	Licence Reference
Doris Sedimentation Pond *	ST-1	0	N/A	Tailings Impoundment Area	Part F Item 17
Doris Contact Water Pond #1	ST-2	0	N/A	Tailings Impoundment Area	Part F Item 17, 18(a)
Non-Hazardous Landfill Sump	ST-3	0	0	Facility not constructed	Part F Item 18(a)
Landfarm Sump	ST-4	0	0	Tailings Impoundment Area	Part F Item 18(b)
Doris Plant Site Fuel Storage Area	ST-5	0	0	Tailings Impoundment Area	Part F Item 18(b)
Rob Bay Single 5ML Fuel Storage Area	ST-6a	0	0	Tundra Discharge 13W 432954 7563407	Part F Item 18(b)
Rob Bay Fuel Storage and Containment Berm	ST-6b	0	0	Tundra Discharge 13W 432878 7563130	Part F Item 18(b)
Doris Sewage Treatment Plant, Effluent	ST-8	1,061	0	Tundra Discharge 13W 432933 7559057	Part F Item 5(b-c)
Doris Sewage Treatment Plant, Sludge	N/A	26.4	N/A	Tailings Impoundment Area	Part I Item 5(f)
Doris Reagent and Cyanide Storage Facility Sump	ST-11	0	N/A	Tailings Impoundment Area	Part F Item 17
Doris Contact Water Pond #2	ST-13	0	N/A	Facility not constructed	Part F Item 17
Doris Mine Water Discharge	TL-12	48,893	N/A	Tailings Impoundment Area Roberts Bay	
Madrid North Contact Water Pond	MMS-1	0	0	Tailings Impoundment Area	Part F Item 17, 18(a)
Madrid South Primary Contact Water Pond	MMS-2	0	N/A	Facility not constructed	Part F Item 17, 18(a)
Madrid South Secondary Contact Water Pond	MMS-3	0	N/A	Facility not constructed	Part F Item 17, 18(a)
Madrid South Fuel Storage Facility	MMS-5	0	0	Facility not constructed	Part F Item 18(b)
Madrid North Connector	MMS-7	0	N/A	Facility not constructed	
Madrid North Fuel Storage Facility	MMS-8	0	0	Facility not constructed	Part F Item 18(b)
Madrid Mine Water Discharge	MMS-10	0	N/A	Tailings Impoundment Area	

Records of visual monitoring of discharge to tundra are maintained on file as per Part I Item 11.

* Note: Volume reported includes effluent transferred from the Doris Contact Water Pond #1, Landfarm Sump, Doris Plant Site Fuel Storage Area and Madrid North Contact Water Pond.

Table 2. Discharge from TIA to Roberts Bay, December 2021

Month	Number of days of discharge	Discharge Volume (m ³)	Exceedances of Discharge Criteria*
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	3	826	0
June	29	185,609	0
July	26	152,583	0
August	31	166,253	0
September	21	137,679	0
October	12	84,749	0
November	29	205,497	0
December	0	0	0
Annual Cumulative	151	933,196	0

* Discharge criteria as outlined in *Metal and Diamond Mining Effluent Regulations*.
Acute Lethality testing conducted as outlined in Part F Item 22 and Part I Item 14

Table 3. Water Usage, December 2021

Month	Windy Lake (ST-7A)			Doris Lake (ST-7)					Total Usage
	Domestic Water*	Industrial**	Winter Track	Domestic Water*	Surface Exploration	Industrial Usage**	Dust Suppression	Winter Track	
January	964	224	14	0	0	0	0	1	1,416
February	878	236	142	0	0	0	0	15	1,271
March	1,100	135	28	0	0	73	0	1,738	3,074
April	1,099	156	0	0	0	80	0	345	1,680
May	1,069	42	0	0	0	127	109	96	1,443
June	1,084	50	0	0	0	44	328	0	1,506
July	1,058	84	0	0	0	111	402	0	1,655
August	1,298	224	0	0	0	28	322	0	1,872
September	1,167	104	0	0	0	48	112	0	1,431
October	578	53	0	0	0	0	0	0	631
November	978	14	0	0	0	0	0	0	992
December	1,206	30	0	0	0	0	0	0	1236
Annual Total	12,479	1,352	184	0	0	511	1,273	2,195	16,758
Annual Allowance	43,800					1,930,000			2,033,800

* As permitted by water licences 2BE-HOP1222 and 2AM-DOH1335 Part E Item 1 and Part I Item 5(a)(b)

** Includes industrial uses such as underground drilling, core processing, milling, concrete batching, etc.

Table 4. Volume of Reclaim Water from the TIA for Process Water, December 2021

Month	Reclaim Water (m³) *
January	85,079
February	77,385
March	76,663
April	78,336
May	74,222
June	57,629
July	56,777
August	66,438
September	69,343
October	66,438
November	55,723
December	58,925
Annual Cumulative	822,958

* As per Part E Item 5 and Part I Item 5(c)
Numbers rounded to the nearest cubic meter.

Table 5. Doris Waste Rock and Ore Volumes, December 2021

Month	Waste Rock Management				Underground Void Space			Ore Processed*** (tonnes)
	Produced from Mining Activity (tonnes)	Backfilled Directly to Mine (tonnes)	Returned from Underground Waste Rock Pile* (tonnes)	Moved to Temporary Waste Rock Pile (tonnes)*	Cumulative on Temporary Waste Rock Pile (tonnes)*	Volume Created from Mining Activities (tonnes)	Cumulative Volume Available for Backfill (m ³)	
December Balance	-	-	-	-	647,948	-	700,312	-
January	11,573	13,297	3,000	-1,724	643,224	4,636	674,455	34,755
February	26,063	15,016	0	11,047	654,271	17,793	680,810	22,027
March	19,810	12,823	0	6,987	661,258	18,514	687,422	17,034
April	19,900	6,038	0	13,862	675,120	35,530	700,111	38,540
May	17,662	17,500	0	162	675,282	12,572	704,601	41,577
June	21,128	19,332	7,135	1,796	669,943	-4,752	705,452	15,058
July	18,845	14,864	1,725	3,981	672,199	19,785	713,134	24,368
August	25,007	8,116	1,060	16,891	688,030	33,037	725,312	33,215
September	29,205	12,179	0	17,026	705,056	24,833	734,181	28,833
October	2,550	3,595	0	-1,045	704,011	580	734,388	7,059
November	12,630	2,025	0	1,065	705,076	24,648	743,191	0
December	19,093	8,757	1,080	10,336	723,872	21,455	751,239	0
Cumulative Total	223,466	133,542	14,000	80,384		208,631		262,466

* As per Part I Item 5(d)(e)

** As per Part I Item 6

Note: Void space created from mining activities is determined as the sum of the initial void space as calculated in March 2017 and void space created each month from mining activities. A negative volume of month indicates that a higher volume of waste rock and detoxified tailings was returned underground compared to the volume of void space created from new mining activities.

Table 6. Madrid North Waste Rock and Ore Volumes, December 2021

Month	Waste Rock Management					Underground Void Space			
	Produced from Mining Activity (tonnes)	Backfilled Directly to Underground Mine (tonnes)	Returned from Underground Waste Rock Pile* (tonnes)	Moved to Temporary Waste Rock Pile (tonnes)*	Moved to Naartok East Crown Pillar Trench for Backfill (tonnes)*	Cumulative on Temporary Waste Rock Pile (tonnes)*	Volume Created from Mining Activities (tonnes)	Cumulative Volume Available for Backfill (tonnes)	Cumulative Volume Available for Backfill (m ³)
December Balance	-	-	-	-	-	350,426	-	-	-
January	2,369	0	0	0	2,369	348,057	-254	360,939	128,907
February	1,313	0	0	0	1,313	346,744	-141	360,545	128,766
March	0	0	0	0	0	346,744	0	360,545	128,766
April	0	0	0	0	0	346,744	0	360,545	128,766
May	0	0	0	0	0	346,744	0	360,545	128,766
June	0	0	0	0	0	346,744	0	360,545	128,766
July	0	0	0	0	0	346,744	0	360,545	128,766
August	0	0	0	0	0	346,744	0	360,545	128,766
September	0	0	0	0	0	346,744	0	360,545	128,766
October	0	0	0	0	0	346,744	0	360,545	128,766
November	0	0	0	0	0	346,744	0	360,545	128,766
December	0	0	0	0	0	346,744	0	360,545	128,766
Cumulative Total	3,682	0	0	0	3,682		-395		

* As per Part I Item 5(d)(e)

** As per Part I Item 6

Waste rock produced in January and February 2021 was removed from the underground decline and placed for backfill into the Naartok East Crown Pillar Recovery Trench.

Note: Void space created from mining activities is determined as the sum of the initial void space as calculated in December 2020 and void space created each month from mining activities. A negative volume month indicates that a higher volume of waste rock was returned underground or backfilled in the Naartok East Crown Pillar trench compared to the volume of void space created from new mining activities.

Table 7. Doris Lake Water Level (ST-12), December 2021

Month	Minimum Water Level (masl)	Maximum Water Level (masl)	Mean Water Level (masl)	Monthly Water Level Variation (masl)*	Comparison of Mean Water Level from Month to Month (masl)^
January	21.785	21.810	21.798	-0.009	-0.004
February	21.785	21.807	21.795	0.022	-0.003
March	21.769	21.797	21.783	0.028	-0.012
April	21.767	21.788	21.775	0.021	-0.008
May	21.750	21.774	21.764	0.024	-0.011
June	21.766	22.356	22.082	0.590	0.318
July	21.761	22.275	21.962	0.514	-0.120
August	21.594	21.831	21.689	0.237	-0.273
September	21.716	21.905	21.852	0.189	0.163
October	21.832	21.918	21.888	0.086	0.036
November	21.775	21.827	21.791	0.052	-0.097
December	21.789	21.807	21.798	0.018	0.007

* Monthly Water Level Variation is calculated as the difference between the Maximum Water Level and the Minimum Water Level measured during the month.

^ Comparison of the change in water level from month to month. This value is calculated by subtracting the Mean Water Level of the current month from the Mean Water Level of the previous month (e.g. February Mean Water level - January Mean Water level). A positive value from this calculation indicates a rise in water level since the previous month; a negative value from this calculation indicates a drop in water level since the previous month.

Waste Management (Part F Item 10 and 11)

In December, Agnico shipped no hazardous waste offsite. As a result, table 8 has been removed from this month's report. Waste shipments are expected to proceed in January.

Summary of Assessments of Water Balance and Water Quality Model

(Part F Item 24 and Part I Item 12 c)

Average monthly water quality, hydrologic, and climatic monitoring data were collected while in operations during December. Data will contribute to the assessment of the water and load balance model and will be compared to the predicted water quality and elevation within the TIA and will be reported in the annual report for 2021.

Thermal Monitoring (Part I Items 7, 8 and Schedule I)

Thermal monitoring undertaken as per Part I Items 7, 8 and Schedule I is reported in the annual Geotechnical Report.

Site Freshet and Precipitation Conditions (Part I Item 12(d))

Visual monitoring was conducted at the Diversion Berm this month. No issues were identified at the Diversion Berm and associated check dam in December. Photos of this infrastructure are provided in Figure 3 below.

Inspections were completed of site culverts throughout the month of September. The culvert inspections have been suspended until freshet 2022 since they are no longer visible. No issues were identified with these water management structures as they were observed to be frozen due to the onset of winter.

Figure 3. Diversion berm during December 2021



Incident Reporting

No incidents pertaining to this licence occurred this month.

Should there be any questions regarding this monthly report, please contact me at guillaume.dumont-vandewinkel@agnicoeagle.com.

Yours sincerely,

A handwritten signature in black ink, reading "Guillaume D. Vandewinkel".

Guillaume Dumont-Vandewinkel
Environmental Coordinator
Hope Bay Project
(867) 988-6882 ext. 101

Cc:
Omer Pasalic, Water Resources Officer, CIRNAC

Eric Steinmetzer, General Manager – Hope Bay, Agnico Eagle
Nancy Duquet-Harvey, Environmental Superintendent – Hope Bay, Agnico Eagle

Figure 6. 2AM-DOH1335 SNP Monitoring Locations



Figure 7. 2AM-DOH1335 SNP Monitoring Locations

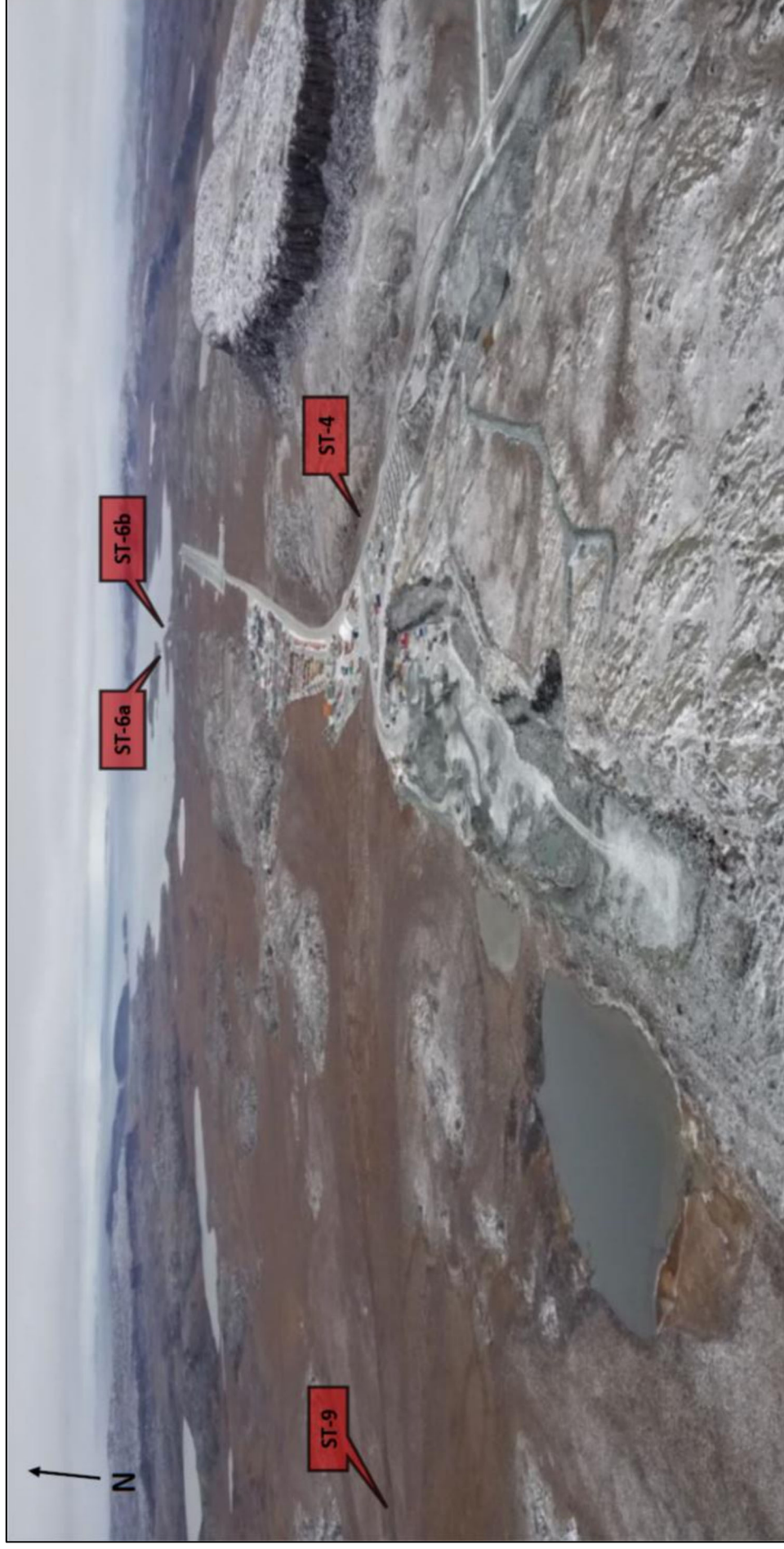


Figure 8. 2AM-DOH1335 SNP Monitoring Locations

