

Files: 2AM-MEA1530

2AM-WTP1830

October 31, 2023

Alexandra Ozaruk Compliance Counselor Agnico Eagle Mines Limited - Meadowbank Division Suite 540 Baker Lake, NU X0C 0A0

E-mail: alexandra.ozaruk@agnicoeagle.com

RE: Licences No: 2AM-MEA1530, Meadowbank Gold Mine Project;

2AM-WTP1830, Whale Tail Pit Project;

Agnico Eagle Mines Limited; 2022 Annual Report Review

Dear Alexandra Ozaruk:

The Nunavut Water Board (NWB or Board) has completed the technical review of the 2022 Annual Report (the Report) for Type "A" Water Licences 2AM-MEA1530 and 2AM-WTP1830 (Meadowbank Licence, Whale Tail Pit Licence, or Licences). The Report was received on March 31 and April 6, 2023 from Agnico Eagle Mines Limited (Agnico Eagle or Licensee), submitted as a requirement under Part B of the Licences.

Copies of all documents received during Report review can be accessed through the NWB's Public Registry and FTP site using the following links:

ftp://ftp.nwb-oen.ca/registry/2%20MINING%20MILLING/2A/2AM%20-%20Mining/2AM-MEA1530%20Agnico/3%20TECH/1%20GENERAL%20(B)/2%20ANNUAL%20RPT/2022/

and

 $\frac{ftp://ftp.nwb-oen.ca/registry/2\%20MINING\%20MILLING/2A/2AM\%20-\%20Mining/2AM-WTP1830\%20Agnico/3\%20TECH/B\%20GENERAL/2\%20ANNUAL\%20RPT/$

On April 5 and 6, 2023, the NWB distributed the Report for public review. Submissions were received from Kivalliq Inuit Association (KivIA), Crown-Indigenous Relations and Northern Affairs (CIRNA), and Environment and Climate Change Canada (ECCC) on or before July 5, 2023. The table below provides a brief summary of issues that were found outstanding during the Report review, pertaining to the NWB's mandate. The table provides deadlines for the Licensee to respond

to respective recommendations and concerns. For the intervenors' discussion of these items, please refer to the comment submissions referenced above.

Table 1. Intervener Recommendations and Concerns

No.	Licence No:	o: Intervener Recommendation / Concern Deadlin			
			Respond by and		
TZ: 11:	T	(III. III)	Notes		
	Kivalliq Inuit Association (KivIA)				
1	2AM- MEA1530	Commit to measuring depth profiles of conductivity in the reflooded pits.	Subsequent annual reports		
2	2AM- MEA1530, 2AM- WTP1830	Ensure the pages and sections modified in subsequent document versions is reflected in the document control table.	Subsequent annual reports		
3	2AM- MEA1530	Did the investigation into November 28, 2022 29,000 litre fuel include a review of the training records and maintenance records of mobile equipment for the Inuit Contractors used for hauling fuel?	March 31, 2024 (2023 Annual Report)		
Crown		ations and Northern Affairs (CIRNA)			
1	2AM- WTP1830	 a) Indicate whether the 2022 [potentially acid generating] PAG ratio for the IVR pit (i.e., 82%) is consistent with design expectations at the time the Whale Tail Mine Expansion was approved. b) Indicate how the higher (i.e., if higher than the original prediction) PAG ratio for IVR will influence environmental performance and waste rock management practices during operations and [Waste Rock Storage Facility] WRSF closure strategies. c) Indicate how the higher (i.e., if higher than the original prediction) PAG ratio for IVR has been incorporated into post-closure water quality predictions for the site. 	March 31, 2024 (2023 Annual Report)		
2	2AM- WTP1830	 a) Confirm if arsenic loadings to the Whale Tail and IVR pits, as indicated by sump monitoring, are greater than the conservative predictions presented in the [Final Environmental Impact Statement] FEIS documents for the project. b) Describe the factors contributing to the pit sumps having arsenic loadings higher than predicted in the FEIS (e.g., pit wall seepage). c) Indicate any modifications that will need to be made to the Whale Tail and IVR Pit closure strategy to ensure that water quality in the pit lakes will serve as viable aquatic habitats 	March 31, 2024 (2023 Annual Report)		

	0.43.6) 01 10 10 1 1 1	34 1 31 2024
3	2AM- WTP1830	a) Clarify if the elevated arsenic concentrations in attenuation ponds were a factor in non-compliant discharges to Whale Tail South Lake in April 2022. b) Explain the substantive temporal variability in the water quality of Whale Tail pit sumps and attenuation pond. c) Discuss any potential implications of the temporal variability on the site's environmental performance during operations and the post-closure phase. d) Provide an assessment correlating any instances of in-pit filling of contact/saline water and the dates of the sampling conducted in the pit.	March 31, 2024 (2023 Annual Report)
4	2AM- MEA1530	Provide a detailed description of the causes, environmental impacts and mitigations associated with the burning of the Meadowbank landfill.	March 31, 2024 (2023 Annual Report)
5	2AM- MEA1530, 2AM- WTP1830	Provide the details, findings and recommendations of all new spill management initiatives in future Annual Reports. This should include, but not be limited to: the new spill action plan, the spill [failure mode & effect analysis] FMEA and any new corrective measures.	Subsequent annual reports
6	2AM- MEA1530, 2AM- WTP1830	Convene an annual workshop with regulators and interested parties to discuss the closure planning status for the Meadowbank and Whale Tail Mines.	Provide a discussion of CIRNA's proposal within the 2023 Annual Report
7	2AM- WTP1830	 a) Provide a detailed table describing the factors that contributed to 2022 water quality predictions being higher than one or more of the following: i) FEIS predictions, ii) predictions from 2021, and iii) predictions that exceed environmental quality criteria. b) Describe why there is a high degree of variability between the 2021 and 2022 predictions. c) Describe the approaches that will be taken to ensure significant adverse impacts do not occur for any parameters that are predicted to exceed 75% of the environmental quality criteria during post-closure. d) Describe the studies that the Licensee will undertake between now and the finalization of the closure plan to verify the accuracy of water quality predictions. e) Describe if and how the higher than originally anticipated water quality predictions will affect closure strategies 	March 31, 2024 (2023 Annual Report)

		for the site.		
8	2AM-	Revisit the water quality modelling assumptions		
	MEA1530,	and approaches used for both Meadowbank and		
	2AM-	Whale Tail to ensure all future project decisions		
	WTP1830	(particularly closure) are informed by sufficiently		
		accurate predictions.		
9	2AM-	a) Revise the Section 5 of the 2022 Annual	March	31, 2024
	MEA1530,	Report title to reflect that the section	(2023	Annual
	2AM-	contains information on more than waste	Report)	
	WTP1830	rock.	1 /	
		b) Provide a timeline for the future studies		
		that the Licensee has committed to be		
		carried out, ensuring that they will be done		
		ahead of closure, not at closure.		
		c) Clarify whether the Licensee intends to		
		carry out the studies identified above that		
		have been discussed as "could be carried		
		out."		
10	2AM-	Update Table 4-3 and Figure 7 to include both the	March	31, 2024
	MEA1530	Vault Attenuation Pond and Turn Lake water	(2023	Annual
ъ .	1 61	level.	Report)	
		ate Change Canada (ECCC)	N 1	21 2024
1	2AM-	Perform a first order quality control of the weather	March	31, 2024
	MEA1530,	data from the climate station, with an emphasis on	(2023	Annual
	2AM- WTP1830	wind speed and direction; the primary comparison of wind data would be with the sensor at DF-7	Report)	
	W 1P1830	with the Baker Lake NAVCAN Station as a		
		secondary station.		
Fisheri	es and Oceans C			
DFO-	2AM-	Provide a plan for repair and/or replacement of	March	31, 2024
1	MEA1530,	damaged and obstructed culverts prioritizing	(2023	Annual
1	2AM-	repairs to culverts with potential to affect fish	Report)	7 Hilliau
	WTP1830	passage and those affecting fish and fish habitat	ποροιί	
		along the Whale Tail Haul Road (WTHR) and		
		All-Weather Access Road (AWAR)		
Nunavi	ut Water Board (
1	2AM-	The Licensee provides a redundant information	March	31, 2024
	MEA1530,	pertaining to requirements of other government	(2023	Annual
	2AM-	bodies (wildlife, socio-economic, etc.). Please	Report)	
	WTP1830	limit the documentation package to the required.		
2	2AM-	The geotechnical inspection resulted in a number	March	31, 2024
	MEA1530,	of recommendations pertaining to:	(2023	Annual
	2AM-	 East Dike 	Report)	
	WTP1830	Bay-Goose Dike		
		 Stormwater Dike 		
		Central Dike		
		• AWAR		
		Whale Tail Mine Road		
		• Quarries		
		• Issues with geomembranes and		

		recommendations for inspections for Baker Lake Tank Farm		
		 Whale Tail Mine Tank Farm Contaminated Soil Storage and 		
		Bioremedial Landfarm Facility		
		Please address the recommendations.		
3	2AM-	The open pit geomechanical inspection resulted in	March	31, 2024
	MEA1530	recommendations pertaining to:	(2023	Annual
		 Goose Open Pit North Wall 	Report)	
		 Pit A B Dump - Lower Dump Platform 		
		 Pit A B dump Upper Dump Platform 		
		Please address the recommendations.		

The NWB notes that Agnico Eagle submitted the following updated management plans with the 2022 Annual Report.

Table 2. Submitted Management Plans

Licence No.	Management Plan
2AM- MEA1530	 Meadowbank Mine Waste Rock and Tailings Management Plan, Version 13 dated March 2023; 2022 Water Management Plan, Version 11 dated March 2023; Meadowbank Complex Incinerator Waste Management Plan Version 10 dated June 2022; Dewatering Dikes Operation, Maintenance and Surveillance Manual Version 10 dated December 2022; Meadowbank Complex Tailings Management Operation, Maintenance and Surveillance Manual Version 11 dated December 2022.
2AM- WTP1830	 Whale Tail Project – Waste Rock Management Plan, Version 10 dated March 2023; Water Management Plan, Version 10 dated March 2023; Whale Tail Project Water Management Infrastructure Operation, Maintenance and Surveillance Manual Version 3 dated December 2022; Operational ARD-ML Sampling and Testing Plan – Whale Tail Mine Version 7.1 dated February 2023; Whale Tail Haul Road Management Plan Version 4 dated March 2023; Mercury Monitoring Plan Version 4 dated March 27, 2023.
2AM- MEA1530 and 2AM- WTP1830	 Meadowbank and Whale Tail Bulk Fuel Storage Facility: Environmental Performance Monitoring Plan, Version 7 dated June 2022; Spill Contingency Plan, Version 19 dated March 2023; Oil Handling Facility: Oil Pollution Emergency Plan and Oil Pollution Prevention Plan, Version 16 dated March 2023; Quality Assurance / Quality Control (QA/QC) Plan, Version 8 dated March 2023.

Licences No: 2AM-MEA1530, 2AM-WTP1830 2022 Annual Report Review

The Board advises that the provided management plans address the requirements of the Licences, considering that the recommendations in Table 1 are to be addressed in the 2023 Annual Report.

If you have any questions, please contact the undersigned at <u>assol.kubeisinova@nwb-oen.ca</u> or (867) 360 6338.

Best regards,

Assol Kubeisinova Nunavut Water Board Technical Advisor

CC: Distribution list – Meadowbank

Attachments: KivIA, CIRNA, ECCC, DFO