

Pêches et Océans Canada

Arctic Regions Fish and Fish Habitat Protection Program 301 – 5204 50th Ave. (Franklin) Yellowknife, Northwest Territoires X1A 1E2

Régions de l'Arctique Programme de protection du poisson et de son habitat 301 – 5204 50th Ave. (Franklin) Yellowknife, Territoires du Nord-Ouest X1A 1E2

June 25, 2024

Your file Votre référence 2AM-MEA1530, 2AM-WTP1830

Our file Notre référence 16-HCAA-00370, 20-HCAA-00275

Nunavut Water Board Attn: Richard Dwyer Manager of Licensing PO Box 119 Gjoa Haven, NU X0B 1J0

Via email to : richard.dwyer@nwb-oen.ca

Subject: Comment Request for Agnico Eagle Mines Limited's Meadowbank Gold Mine and Whale Tail Pit Projects (Meadowbank Complex) 2023 Annual Monitoring Report

Dear Richard Dwyer,

The Fish and Fish Habitat Protection Program (the Program) of Fisheries and Oceans Canada (DFO) received your request for comments on April 9, 2024. DFO has reviewed the above 2023 Annual Report in regards to its mandate, i.e. the management, protection and conservation of fish and their habitats.

Specifically, DFO has reviewed the following:

- 2023 Annual Report
- Appendix 7 Meadowbank and Whale Tail 2023 Geotechnical Inspection Report
- Appendix 10 Meadowbank and Whale Tail 2023 Annual Geotechnical Recommendation Implementation Plan
- Appendix 11 Meadowbank 2023 Geomechanical Inspection Implementation Plan
- Appendix 12 Whale Tail 2023 Geomechanical Inspection Implementation Plan
- Appendix 13 Meadowbank Water Management Plan Version 12
- Appendix 14 Whale Tail Water Management Plan Version 12
- Appendix 16 Meadowbank Predicted Water Quantity and Quality (2012-2023)
- Appendix 22 Meadowbank and Whale Tail Spill Contingency Plan Version 21
- Appendix 23 Meadowbank 2023 GN Spill Reports
- Appendix 24 Whale Tail 2023 GN Spill Reports
- Appendix 25 Meadowbank OPEP and OPPP Version 17



- Appendix 26 Meadowbank and Whale Tail 2023 CREMP Report
- Appendix 27 Whale Tail 2023 Mercury Monitoring Program Report
- Appendix 31 Whale Tail 2023 Report on the Implementation of Measures to Avoid and Mitigate Serious Harm
- Appendix 32 Meadowbank and Whale Tail 2023 Marine Mammal and Seabird Report
- Appendix 33 Meadowbank and Whale Tail Blast Monitoring Program Version 9
- Appendix 34 Meadowbank and Whale Tail 2023 Blast Monitoring Report
- Appendix 37 Whale Tail 2023 Fish Habitat Offsets Monitoring Report
- Appendix 38 Meadowbank 2023 Habitat Compensation Monitoring Report
- Appendix 39 Meadowbank and Whale Tail 2023 Wildlife Monitoring Summary Report

DFO provides the following for the NWB's consideration.

DFO is generally agreeable with Agnico Eagle Mine's reporting and has the following comments or concerns to provide at this time.

Comment Number:	DFO-1
Subject/Topic:	Fish passage at road crossings
References:	Appendix 7: Meadowbank and Whale Tail 2023 Annual Geotechnical Inspection; Appendix 10 - Meadowbank and Whale Tail 2023 Annual Geotechnical Recommendation Implementation Plan; Appendix 31: Whale Tail 2023 Report on the Implementation of Measures to Avoid and Mitigate Serious Harm
Comment:	Gap/Issue: Culverts crossing fish bearing waters along the AWAR and WTHR requiring repair maintenance. The annual report does not identify issues with culverts affecting fish passage. The annual report does not provide a plan for repair/replacement. This was a commitment made by the proponent in response to comments on the 2022 Annual Report.
	Appendix 10 - Meadowbank and Whale Tail 2023 Annual Geotechnical Recommendation Implementation Plan;

	states that along the AWAR "Close monitoring of the culverts will be performed by AEM at freshet" which has "not started."
Conclusion/Request:	Proponent to provide a list of culverts along the WTHR and AWAR which cross fish bearing waters and if these require repair or replacement. Proponent to provide a plan for repair or replacement of damaged and obstructed culverts prioritizing repairs to culverts with potential to affect fish passage and those affecting fish and fish habitat.

Comment Number:	DFO-2
Subject/Topic:	Location Data of Shipping Vessels
References:	Appendix 32: Meadowbank and Whale Tail 2023 Marine Mammal and Seabird Report, 2023
Comment:	Gap/Issue: Project Certificates 004, 006, and 008 require vessels supplying the Meadowbank Complex and Meliadine mines to avoid sensitive marine mammal and seabird habitats such as haul-outs and breeding colonies.
	Ongoing outages for location data of ships continue to have ongoing Automatic Identification System issues lasting 12 hours or more between fixes.
	The 2023 Annual Report did not contain the vessel tracking data so it is uncertain if this issue persists.
Conclusion/Request:	Proponent to provide additional details on any additional effort being implemented to ensure accurate vessel tracks, and compliance with setbacks from sensitive habitats.
	Proponent to provide a summary of satellite outages and missing location data for 2023 shipping.

Comment Number:	DFO-3
Subject/Topic:	Marine Mammal Monitoring Program
References:	Appendix 32: Meadowbank and Whale
	Tail 2023 Marine Mammal and Seabird
	Report, 2023
Comment:	Gap/Issue: Current Marine Mammal
	Monitoring survey efforts (1 survey per
	day, lasting 1.5-2 hours) are not sufficient
	for effective marine mammal monitoring
Conclusion/Request:	DFO to work with the proponent to
	update their marine mammal monitoring
	protocol and include increased monitoring
	efforts.

Comment Number:	DFO-4
Subject/Topic:	Aquatic Invasive Species
References:	Shipping Management Plan (Version 4);
Comment:	Gap/Issue: Current monitoring plans do not include a monitoring program for aquatic invasive species.
	There is a risk of introducing aquatic invasive species through haul contamination from ships coming from Quebec. The Shipping Management Plan requires the shipping companies contracted to supply the mine though the annual sea-lift operations to comply with the Ballast Water Regulations, which reduces the risk of invasive species being introduced as a result of shipping activities, but does not eliminate this risk so that monitoring for the occurrence of aquatic invasive species is be required to confirm this.
Conclusion/Request:	Proponent to consider a non-Indigenous Species/Aquatic Invasive Species Monitoring Program around zones of higher risk.
	Proponent to provide specific monitoring and mitigation measure that are being conducted, including but not limited to any ballast water treatment, monitoring

for aquatic invasive species, any haul
clean-up and maintenance protocols, etc.

Comment Number:	DFO-5
Subject/Topic:	Underwater Noise
References:	Shipping Management Plan (Version 4)
Comment:	Gap/Issue: Underwater noise from shipping vessels has the potential to elicit disturbance effects on marine mammals by reducing their ability to travel, communicate, and find food.
	During the 2023 shipping season, 23 vessel trips served the project. We currently do not know what noise level and characteristic is produced by those shipping vessels and the potential impact on marine mammals.
	The FEIS predicted the residual environmental effect of a change in marine mammal behaviour as a result of Project vessel noise was considered to be low in magnitude, however the likelihood of behavioural disturbance from Project-related vessel noise was considered likely. However there is no monitoring of noise levels to help understand and mitigate these effects.
Conclusion/Request:	DFO to work with the Proponent to monitor and model their noise footprint using expert support. This model should aim at evaluating the impact of shipping noise on marine mammals present on the shipping route. A Shipping Management Plan should be updated according to the model.

If you have any questions with the content of this letter, please contact Derek Donald by email at Derek.Donald@dfo-mpo.gc.ca. Please refer to the file number referenced above when corresponding with the Program.

Sincerely,

Chris Shapka Senior Biologist Fish and Fish Habitat Protection Program Fisheries and Oceans Canada

CC: Chris Shapka, Fisheries and Oceans Canada Derek Donald, Fisheries and Oceans Canada