



Water Resources Division
Resource Management Directorate
Nunavut Regional Office
918 Nunavut Drive
Iqaluit, NU, X0A 3H0

Your file - Votre référence
2AM-MEL1631
Our file - Notre référence
GCDocs# 136851961

June 3, 2025

Richard Dwyer
Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU, X0B 1J0
E-mail: licensing@nwb-oen.ca

**Re: Crown-Indigenous Relations and Northern Affairs Canada's Review of the
Licence Meliadine Mine Jetty A8 Design Report and Drawings Application for the
Meliadine Project, Type A Water Licence No. 2AM-MEL1631**

Dear Mr. Dwyer,

Thank you for the May 13, 2025 invitation to review the referenced licence design report and drawing application, submitted by Tetra Tech on behalf of Agnico Eagle Mines Ltd (Agnico), for Type A Water Licence No. 2AM-MEL1631.

Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) examined the application pursuant to its mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Crown-Indigenous Relations and Northern Affairs Act*. Please find CIRNAC comments and recommendations in the attached Technical Memorandum for Nunavut Water Boards' consideration.

The applicant shall provide confirmation from the Nunavut Water Board that all outstanding water license fees have been paid in full prior to approval of this application.

If there are any questions or concerns, please contact me at (613) 390-1682 or Cassandra.Bach@rcaanc-cirnac.gc.ca or Andrew Keim at (867) 975-4550 or Andrew.Keim@rcaanc-cirnac.gc.ca.

Sincerely,

Cassandra Bach, B.Sc.,
Water Resources Coordinator



Technical Review Memorandum

Date: June 3, 2025

To: Richard Dwyer – Manager of Licensing, Nunavut Water Board

From: Cassandra Bach – Water Resources Coordinator, CIRNAC

Subject: **Crown-Indigenous Relations and Northern Affairs Canada's Review of the Licence Meliadine Mine Jetty A8 Design Report and Drawings Application for the Meliadine Project, Type A Water Licence No. 2AM-MEL1631**

Region: ☐ Kitikmeot ☒ Kivalliq ☐ Qikiqtani

A. BACKGROUND

Agnico Eagle Mines Limited operates Meliadine Gold Mine which is located roughly 25 km north of Rankin Inlet and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. The mine extracts gold by using open-pit and underground mining operations. The mine operates under project certificate 006, issued by the Nunavut Impact Review Board, and type A water licence 2AM-MEL1631, issued by the Nunavut Water Board.

The mine operates a permanent landfill, which is used to dispose of non-salvageable, non-hazardous and non-putrescible solid wastes. The landfill is located southeast of the tailings storage facility and at the northwest corner of the waste rock storage facility 1. Stage 4 of the project is an expansion of the landfill capacity by roughly 39,000 m³. It involves the elevation of two perimeter berms, on the north and east sides. The interior and exterior slope ratios are to remain the same at a ratio of 2H:1V and 2.5H:1V, respectively. Construction of stages 1, 2 and 3, of the landfill, was completed in September 2017, September 2018 and October 2020, respectively.

Agnico Eagle retained Tetra Tech to design the Jetty A8, which will be built to pump out water from Lake A8 to Collection Pond CP1. This submission was intended to present the design basis, codes and regulation overview, specific considerations, engineering design and construction details related to the project. It includes the final design and construction drawings as specified under Nunavut Water Board (NWB) Water License 2AM-MEL1631.

CIRNAC provides the following comments and recommendations pertaining to the application package for the Board's consideration. A summary of the recommendations' subjects can be found in Table 1. Documents reviewed as part of this submission can be found in Table 2 of Section B. Detailed technical review comments can be found in Section C.



Table 1: Summary of Recommendations

Recommendation Number	Subject
R1	Dewatering Location
R2	Water Transport from Jetty A8 to CP-1
R3	Submersible Pump Specifications and Storage Location
R4	Access Road and Associated Water Management

B. DOCUMENTS REVIEWED AND REFERENCED

The following table (Table 2) provides a list of the documents reviewed under the submission and reference during the review.

Table 2: Documents Reviewed and Referenced

Document Title	Author, File No., Rev., Date
250513 2AM-MEL1631 REP-Design Report and Drawings for Jetty A8-IFU E-mail Dist-OMLE.pdf	Tetra Tech, May 7, 2025
250513 2AM-MEL1631 REP-Design Report and Drawings for Jetty A8-IFU-IMLE.pdf	Richard Dwyer, May 13, 2025
190802 2AM-MEL1631 Water Management Plan Version 7 w appendices-IMLE.pdf	Agnico Eagle, August 2019
160415 2AM-MEL1631 Water Licence OCCE.pdf	Nunavut Water Board, April 1, 2016



C. RESULTS OF REVIEW

1. Dewatering Location

Comment:

The receiving location for dewatering was not identified. CIRNAC is concerned with the lack of clarity in water management plans for the site.

Recommendation:

(R-01) CIRNAC recommends that the applicant explicitly state where it will relocate the water being removed from the lake.

2. Water Transport from Jetty A8 to CP-1

Comment:

The means of transporting the water from the jetty to CP-1 is unclear. CIRNAC's concern is that the proponent provides limited information regarding water management in its submission.

Recommendation:

(R-02) CIRNAC recommends that the applicant indicate the method for transporting the water and the route to be taken to transport the water to CP-1.

3. Submersible Pump Specifications and Storage Location

Comment:

The specifications for the submersible pump and the storage location when not in use were not provided. CIRNAC is concerned that without information about the type of fuel used and its storage location it is difficult to ensure safe handling of fuel within the management plan.

Recommendation:

(R-03) CIRNAC recommends that the applicant state the specifications for the submersible pump and where it will be stored when not in use.

4. Access Road and Associated Water Management

Comment:

The drawings indicate that there will be a road located on the far side of the lake from jetty A8 and it is labelled as the Road to Pump yet there is no indication if this is the access road that will also be used for the construction of the jetty. CIRNAC is concerned by the lack of clarity around the use of the access road to the jetty for construction purposes and the lack of details around water management for the road.



Recommendation:

(R-04) CIRNAC recommends that the applicant clarify if the road to the pump is the access road to be used for the construction of the jetty and provide any water management plans that may need to be implemented as a result.