



Water Resources Division  
Resource Management Directorate  
Nunavut Regional Office  
P.O. Box 100  
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Your file - Votre référence:  
2AM-MEL1631  
Our file - Notre référence  
GCDOCS# 93647604

April 16, 2021

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

**Re: Crown-Indigenous Relations and Northern Affairs Canada Review of the Licence Modification Design Report for the Meliadine Project, Type A Water Licence No. 2AM-MEL1631**

Dear Richard,

Thank you for the March 17, 2021 invitation to review the referenced licence Modification Report, submitted by Agnico Eagle Limited – Meliadine Division, 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.

If there are any questions or concerns, please contact me at [andrew.keim@canada.ca](mailto:andrew.keim@canada.ca) or [wilywarden@yahoo.com](mailto:wilywarden@yahoo.com) or Sarah Forté at (867) 975-3876 or [sarah.forte@canada.ca](mailto:sarah.forte@canada.ca).

Sincerely,

Andrew Keim  
Industrial Coordinator

Canada 



## **Technical Review Memorandum**

**Date:** March 30, 2021

**To:** Richard Dwyer, Nunavut Water Board

**From:** Andrew Keim, Industrial Coordinator, CIRNAC

**Subject: Crown-Indigenous Relations and Northern Affairs Canada Review of the  
Licence Modification Design Report for the Meliadine Project, Type A  
Water Licence No. 2AM-MEL1631**

**Region:** ☐ Kitikmeot ☒ Kivalliq ☐ Qikiqtani

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### **A. BACKGROUND**

Agnico Eagle Mines Limited (Agnico Eagle) is operating the Meliadine gold mine located approximately 25 km north of Rankin Inlet, and 80 km southwest of Chesterfield Inlet in the Kivalliq Region of Nunavut. The site is located adjacent to Meliadine Lake (63°01'23.8"N, 92°13'6.42"W)

The current mine plan focuses on the development of the Tiriganiaq gold accessed using both conventional open-pit and underground mining operations including a plant site and accommodations, tailings storage facility, waste rock storage facilities, ore storage pads, process plant, power plant, maintenance facilities, water management treatment plants and supporting infrastructures. Such infrastructures include water retention dikes, berms, culverts, channels, collection ponds, pumping stations, fresh water intake and water treatment plants, required to manage water during pre-production, operation, and interim mine closure.

The provided Design Report includes the final design and drawings for the modifications of the Effluent Water Treatment Plant (EWTP). The EWTP was constructed in 2017 as per the design report 6515-E-132-005-132-REP-009 approved by the Nunavut Water Board.

The approved design report 6526-694-132-REP-001 contains a new building– the Water Treatment Complex (WTC). The purpose of this building is to centralize as much as possible the water treatment plants. To do so, the current EWTP will be relocated within the WTC building. The Design Report proposes no change on the approved water treatment process within the EWTP will be done during the transfer from the current EWTP building to the WTC building

CIRNAC provides the following comments and recommendations pertaining to the Design Report package. A summary of the subjects of recommendations 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
None	

## **B. DOCUMENTS REVIEWED**

The following table (Table 2) provides a summary of the documents reviewed under the submission.

**Table 2: Documents Reviewed**

Document Title	Author, File No., Rev., Date
Effluent Water Treatment Design Report	Agnico Eagle, T. Genty, January 2021

## **C. RESULTS OF REVIEW**

### **1. End of pipe discharge check and balance procedure**

#### **Comment:**

The Effluent Water Treatment Design Report states that the location of the Effluent Water Treatment Plant (EWTP) will change, and no changes will be made to the operations of the facility during the move. CIRNAC has no concerns regarding the plan to move the EWTP.

#### **Recommendation:**

None.

## **D. REFERENCES**

Nunavut Type A Water license – 2AM-MEA1631	Approved by Motion Number 2016-15-P15-06
2019 Water License Inspection Reports	Messer & Shouldice 2AM-MEA1631 Sept & Dec 2019

## **Works Cited**

No other sources cited.