



Water Resources Division  
Resource Management Directorate  
Nunavut Regional Office  
P.O. Box 100  
Iqaluit, NU, X0A 0H0

Your file - Votre référence  
2AM-MEL1631  
Our file - Notre référence  
CIDM#1270818

December 13, 2019

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 Comments on Agnico Eagle submission of Waste Rock Storage Facility 1 Design Report and Drawings (November 2019) for Meliadine Gold Mine – Water Licence No. 2AM-MEL1631.**

Dear Mr. Dwyer,

Thank you for your November 27, 2019 invitation for Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) to comment on Agnico Eagle submission of Waste Rock Storage Facility 1 Design Report and Drawings (November 2019) for Meliadine Gold Mine. Pursuant to CIRNAC's mandated responsibilities under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Department of Crown-Indigenous Relations and Northern Affairs Act* CIRNAC reviewed the submission. CIRNAC has the following comments.

#### **1 Slope Stability Analysis - Section 4.2**

**Comment:**

CIRNAC recommends that AEM provides clarification on the rationale for not considering the expected freeze back in the waste material for the purpose of slope stability analysis.

#### **2 Thermal Analysis - Section 4.3**

**Comment:**

Section 4.3 states "the thermal model will be verified and refined on a periodic basis throughout the life-span of the WRSF, as ground/waste temperature monitoring data and as-built information becomes available." CIRNAC



recommends the frequency the thermal model is verified and refined by AEM is specified.

### 3 Quality Control - Section 5.3

**Comment:**

It is unclear to CIRNAC what sections of the design criteria and corresponding assumptions will be reviewed during the quality control. CIRNAC recommends that AEM provides a QA/QC template, indicating the design parameters to be verified, for further clarification.

If there are any questions or concerns, please contact me at (867) 975-4525 or [michelle.blade@canada.ca](mailto:michelle.blade@canada.ca), or Godwin Okonkwo at (867) 975-4550 or [godwin.okonkwo@canada.ca](mailto:godwin.okonkwo@canada.ca).

Sincerely,

Michelle Blade,  
Water Resources Coordinator