

# 2015 Annual Monitoring Report

for Agnico Eagle Mines Ltd.'s Meliadine Gold Project



Nunavut Impact Review Board File No. 11MN034 October 2015 **Report Title:** The Nunavut Impact Review Board's 2015 Annual Monitoring Report

for the Meliadine Gold Project (NIRB File No. 11MN034)

Project: Meliadine Gold Project

**Project Location:** Kivalliq Region, Nunavut

**Project Owner:** Agnico Eagle Mines Ltd.

P.O. Box 540 Baker Lake, NU

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**Monitoring Officer:** Kristina Benoit

**Monitoring Period:** February – September 2015

**Date Issued**: October 2015

**Cover Photo:** View along the All-Weather Access Road

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### 1.0 INTRODUCTION

On February 26, 2015, pursuant to Section 12.5.12 of the Nunavut Land Claims Agreement (NLCA), the Nunavut Impact Review Board (NIRB or Board) issued Project Certificate No. 006 (Project Certificate) for the Meliadine Gold Project (the Project), allowing the Project to proceed in accordance with the Terms and Conditions issued therein. The NIRB is responsible for the monitoring of this Project as per Sections 12.7.1 and 12.7.2 of the NLCA, and the Project Certificate.

This report provides findings that resulted from the Board's monitoring program for this Project from February to September 2015.

### 1.1. PROJECT HISTORY AND CURRENT STATUS

The Final Hearing was held for the Meliadine proposal from August 21-27, 2014 where the Board subsequently approved the project to proceed in its October 10, 2014 Final Hearing Decision Report. After the Minister accepted the decision on January 27, 2015 the Board held a Project Certificate Workshop on February 23-24, 2015, which led to the issuance of the Meliadine Project Certificate on February 26, 2015. Since then, Agnico Eagle Mines Ltd. (AEM or the Proponent) has proceeded with the licensing of the project, starting with the submission of its Type A Water Licence (2AM-MEL----) application in June 2015 with the Nunavut Water Board (NWB), which is required for the Project to undertake any activities related to the development and operation of the mine. The application is currently undergoing assessment by the NWB, where the technical meeting and Pre-hearing Conference has been scheduled for October 14 and 15, 2015 in Rankin Inlet.

Until AEM has the permits in place for the mine, the current site operations are managed under its Type B Water Licences (2BW-MEL1525; 2BB-MEL1424 and 8BC-MEL1516) to both maintain and complete pre-construction activities at site.

During the evening of September 2, 2015 the NIRB staff held a community information session and open house at the Community Hall in Ranking Inlet to update, discuss with, and receive feedback from community members on the NIRB's monitoring program for the Meliadine Gold Mine. Approximately 55 community members, project and agency representatives attended the session. This is further discussion in Appendix II.

At present, the NIRB has not issued an *Appendix A – Meliadine Monitoring Program* to AEM in accordance with the Project Certificate (NIRB, 2015); however it will be developed once all required licencing has been issued.

### 1.2. PROJECT COMPONENTS

The Meliadine Gold Mine Project, as approved to proceed by the NIRB, consists of mining at five gold deposits and processing of the ore at an on-site milling operation at a rate of 8,500 tonnes per day, as well as transportation of the gold bullion south for final refinement and sale.

The Project includes the extended exploration, construction, operation, closure, and reclamation of both underground and open-pit mines and associated infrastructure for extraction, processing and transportation of gold. The mining of gold ore would occur at the five deposits through a phased approach, Tiriganiaq, Wesmeg, Pump, F Zone and Discovery, with Tiriganiaq being the only deposit where gold would be mined through both above ground and underground methods, with the other deposits being mined using open pit methods. There are three main Project areas: the Tiriganiaq mine site, the Discovery deposit and the Itivia Harbour. Phase 2 of all-weather access road (AWAR) would be an upgrade of the currently existing and previously approved Phase 1 of the AWAR which is approximately 24 kilometres (km) long and connects the Tiriganiaq exploration site to Rankin Inlet currently. As part of construction of Phase 2 of the AWAR, a spur road would be developed to connect the main road with the south end of Meliadine Lake to allow for public access to the Lake. Agnico Eagle has confirmed that Phase 2 of the AWAR would not be completed until it is ready to develop the Discovery deposit and would entail constructing a second road which would run parallel but separately from the public road, for mine traffic only.

Supplies and equipment required for construction and ongoing Project supply would be received during the open water season only, at the Itivia spud barge at Melvin Bay, near Rankin Inlet. The Itivia area would consist of eight one-million litre tanks for fuel and a laydown area to temporarily store materials received during the open water barging season. This area would be connected to the AWAR by a bypass road which would facilitate mine traffic avoiding the community of Rankin Inlet on route to the Project mine site.

### 2.0 MONITORING ACTIVITIES

## 2.1. REPORTING REQUIREMENTS

## 2.1.1. General Reporting Requirements

Due to the mine not yet being permitted to proceed, the majority of the Terms and Conditions are not yet applicable to the operations of the site. The focus of compliance by the Proponent is therefore on preliminary reporting determined to be required by the Meliadine Project Certificate conditions 13, 15, 20, 39, 92 and 94 as a result of commitments made through the NIRB's Part 5 Review of the project and understanding AEM's plans for permitting and development of the project. During the 2015 monitoring period, the Proponent demonstrated a general compliance with reporting requirements of the NIRB's Project Certificate as the Proponent has provided the following items to the NIRB as part of its June 2015 Type A Water Licence Application to the NWB (note all documents dated April 2015):

- o Mine Plan, version 1
- o Water Management Plan, version 1
- o Mine Waste Management Plan, version 1
- Ore Storage Management Plan
- o Spill Contingency Plan, version 4
- o Landfarm Management Plan, version 1
- Roads Management Plan, version 4
- o Borrow Pits and Quarries Management Plan, version 4

- o Landfill and Waste Management Plan, version 4
- o Incineration Management Plan, including Dust Management Plan, version 4
- o Hazardous Materials Management Plan, version 4
- o Explosives Management Plan, version 4
- Preliminary Closure and Reclamation Plan, version 1.0 (required by Conditions 15 and 20)
- o Environmental Management and Protection Plan, version 4 (required by Condition 13)
- o Aquatics Effects Monitoring Program Design Plan, version 0
- o Quality Assurance/Quality Control Plan, version 1
- o Public Engagement and Consultation Baseline Report, version 4
- o Risk Management and Emergency Response Plan, version 4 (required by Condition 15)

The NIRB has not received the following updated *conceptual* management plan or commitments, which remains outstanding:

- Updated Vegetation Monitoring Plan: details of the program to be provided to the NIRB within 6 months of issuance of the Project Certificate (required by Condition 39).
- Detailed staff schedule: required to be provided to the NIRB and GN within 6 months following the issuance of the Project Certificate (required by Condition 92).
- Updated labour force analysis: required to be provided to the NIRB within 6 months of the Project Certificate being issued (required by Condition 94).

AEM has indicated a submission for condition 39 - a monitoring program which would include the distribution, abundance, and health of vegetation species used as caribou forage (such as lichens) near Project areas, would be forthcoming in the fourth quarter of 2015. Furthermore, AEM indicated the reports for Conditions 92 and 94 were pending.

### 2.2. COMPLIANCE MONITORING

Compliance monitoring involves an assessment undertaken by regulators and other agencies to establish whether or not a project is being carried out within the legislation, regulations, instruments, commitments and agreements as such are applicable to certain project activities.

### 2.2.1. Compliance with the NIRB Screening Decision Reports

# 2.2.1.1. Phase 1 of the All Weather Road between Rankin Inlet and the Meliadine site – Exceptions Application related to 11RN017 and 11MN034

On April 20, 2015 the NIRB received an application from the Nunavut Water Board for the renewal of the water licence 2BW-MEL1215 for AEM's "Meliadine All-Weather Road" proposal. On June 2, 2015 after assessing the application, the NIRB determined that the renewal of the Type B Water Licence had been assessed as part of the Board's acceptance of the exceptions application as noted in the 12.10.2(b) Determination Report, and was exempt from the requirement of further screening pursuant to Section 12.4.3 of the Nunavut Land Claims

Agreement. On June 9, 2015 the NWB issued a 10 year renewal for the Type B Water Licence. The NIRB has not noted any compliance issues related to this proposal, and will continue to monitor as the Phase 1 All-Weather Road is expanded into the Phase 2 Road associated with the mine.

### 2.2.2. Compliance with the NIRB Project Certificate

The NIRB notes with issuance of the Project Certificate in the first quarter of this year, AEM is currently in a licensing phase prior to the commencement of construction of the mine and related infrastructure. As a result, the majority of the Terms & Conditions are not necessarily applicable at this time.

### 2.2.2.1. Compliance Achievements

### Terrestrial Environment – Condition 13

"The Proponent shall undertake additional geotechnical investigations as required to identify sensitive landforms, modify engineering design for Project infrastructure (i.e., dikes, tailings storage facility, waste rock pile and landfill), and develop and implement preventative and/or mitigation and monitoring measures to minimize the impacts of the Project's activities and infrastructure on sensitive landforms. Plans for the investigations, mitigative and monitoring measures are to be included within an updated Environmental Protection Plan." Reporting Requirements: The updated plan is to be submitted to the NIRB within 90 days of the issuance of a Project Certificate, with annual reporting requiemets to be determined following approval of the Project by the Minister.

In its Type A Water Licence Application with the NWB, AEM provided an updated Environmental Management and Protection Plan, version 4 (April 2015), which is currently under assessment in relation to the technical requirements of the licensing process. At the same time that the application was submitted to the NWB, AEM submitted the same documents to the NIRB, which has satisfied the information requirements of this condition.

### Terrestrial Environment – Condition 15 and 20

"The Proponent shall assess the potential environmental effects of a post-closure failure of the geomembrane of the Tailings Storage Facility while tailings are in a thawed state. This assessment shall include, at a minimum:

- a. A description of the potential environmental effects of such a failure;
- b. Identification of the monitoring measures employed to detect environmental changes that could result;
- c. Identification of proposed mitigation measures to address any changes identified during monitoring; and
- d. Updated Risk Management Plan and Closure Reclamation Plan reflecting changes which result from the post-closure failure assessment.

A summary of the results from this assessment and implications to project infrastructure and operational plans shall be provided to the NIRB." Reporting Requirements: A

summary of the assessment should be submitted to the NIRB 6 months following issuance of the Project Certificate, with annual reporting requirements to be determined following approval of the Project by the Minister.

"The Proponent shall explore the the feasibility and practicality of topsoil/organic matter salvage as part of phased approach to Project development, with updates to its Closure and Reclamation Plan to reflect any changes based on this investigation. The Closure and Reclamation Plan should be updated on an on-going basis as more information becomes available from similar reclamation projects, including experience with implementing closure and reclamation plans at the Meadowbank mine site, as applicable." Reporting Requirements: The updated plan is to be submitted to the NIRB within 6 months of the issuance of the Project Certificate, with annual reporting to be determined following approval of the Project by the Minister.

In its Type A Water Licence Application with the NWB, AEM provided an updated Risk Management and Emergency Response Plan, version 4 (April 2015) and Preliminary Closure and Reclamation Plan, version 1.0 (April 2015), which is currently under assessment in relation to the technical requirements of the licensing process. AEM provided the plan to the NIRB in conjunction with its submission to the NWB, which has satisfied the information requirements of this condition.

### 2.2.2.2. Conditions Requiring Attention

The NIRB notes that AEM is not in full compliance with the following Terms and Conditions of the Meliadine Project Certificate, and that recommendations from the Board have been provided to the Proponent under separate cover.

## a) <u>Vegetation Monitoring – Condition 39</u>

"The Proponent shall develop and establish an on-going monitoring program to determine the distribution, abundance, and health of vegetation species used as caribou forage (such as lichens) near Project areas, prior to commencing operations." Reporting Requirements: Details for the program are to be submitted to the NIRB within 6 months of the issuance of the the Project Certificate, with annual reporting requirements to be determined following approval of the Project by the Minister.

As of the date of this report, the NIRB has yet to receive documentation on the monitoring program. Discussions that occurred between AEM and the NIRB Monitoring Officer during the NIRB site visit indicated that a program submission is fourthcoming in the fourth quarter of 2015.

### b) Employment Schedule – Condition 92

"The Proponent shall submit a detailed staff schedule to the NIRB and to the Government of Nunavut in the first 6 months following the issuance of a Project Certificate. The schedule should, at a minimum, provide a description of:

a. Title of positions required by department and division;

- b. Quantity of positions available by Project phase and year;
- c. Transferable skills, both certified and uncertified which may be required for, or gained during, employment within each position; and,
- d. The National Occupational Classification (NOC) code for each individual position.

The Proponent is encouraged to consult the Government of Nunavut during development of the schedule. A new schedule should be submitted following any significant deviation from original predictions."

As of the date of this report, the NIRB has yet to receive documentation of the staff schedule. Discussions that occurred between AEM and the NIRB Monitoring Officer during the NIRB site visit indicated a submission would be forthcoming.

### c) Employment Labour Force Analysis - Condition 94

"The Proponent shall update its labour force analysis utilizing current or the most recent baseline information as may be available from the Nunavut Bureau of Statistics or Statistics Canada. The updated labour force analysis is to be provided to the NIRB within 6 months of the Project Certificate being issued. The Proponent is encouraged to work collaboratively with other stakeholders to monitor any impacts the Project may have on the labour force characteristics of the Kivalliq region during all project phases."

As of the date of this report, the NIRB has yet to receive documentation of the updated labour force analysis. Discussions that occurred between AEM and the NIRB Monitoring Officer during the NIRB site visit indicated a submission would be forthcoming.

### 2.2.3. Compliance with Permitting

#### **Kivalliq Inuit Association**

The majority of the project falls on Inuit Owned Land and an Inuit Impact Benefit Agreement has yet to be completed, which would facilitate permitting for mine related activities.

### Nunavut Water Board

The Type A Water Licence Application's technical assessment is progressing with its technical meeting and Pre-hearing Conference has been scheduled for October 14 and 15, 2015 in Rankin Inlet. Other regulators such as; Aboriginal Affairs and Northern Development Canada, Environment Canada, Department of Fisheries and Oceans Canada, Transport Canada and Natural Resources Canada have participated in the NIRB's Review process and continue to be a part of the water licensing process, and will be concerned with implementation of the requirements once the project development begins.

#### 2.3. SITE VISIT

Based on the observations made during this site visit, all exploration approved facilities which are in operation and all sites awaiting licensing continue to appear to be well managed, and generally are maintained with appropriate environmental protection measures and procedures in

place. Details provided by AEM during the site visit provided the Monitoring Officer with additional information regarding the company's ongoing efforts to address licensing applications to begin mine construction.

As the Project has recently received the Project Certificate, the majority of the terms and conditions contained within the Meliadine Project Certificate are not applicable until the licensing phase has been completed.

### 3.0 SUMMARY

The Meliadine Gold mine began the licensing phase of the Project in June 2015 after the NIRB Project Certificate was issued in February 2015. The Proponent is generally meeting the requirements of the NIRB Project Certificate and additional objectives of monitoring and mitigation plans and procedures required for the Project. However, certain outstanding issues require the Proponent to provide additional submissions to bring Conditions 39, 92, and 94 into full compliance. These items are addressed in the Board's recommendations provided to the Proponent under separate cover.

Pursuant to NLCA Sections 12.7.2 and 12.7.3, the NIRB will continue to work with AEM and other agencies in order to provide the necessary information through the licensing process, further develop Appendix A of the Meliadine Project Certificate once licenses are in place for the mine, and continue the required evaluation of the success of project-specific monitoring programs to address issues of particular importance to the Board as identified in the Meliadine Project Certificate.

Prepared by: Kristina Benoit
Title: Monitoring Officer
Date: October 8, 2015

Signature:

Reviewed by: Tara Arko

Title: Director, Technical Services

Sona alika

Date: October 8, 2015

Signature:

# **REFERENCES**

NIRB (Nunavut Impact Review Board). 2014. Final Hearing Report for the Meliadine Gold Project. Prepared by the Nunavut Impact Review Board for the Meliadine Gold Mine Application, Agnico Eagle Mines Limited. October 2014.

NIRB (Nunavut Impact Review Board). 2015. In the matter of an Application by Agnico-Eagle Mines Limited for the Mine development of the Meliadine Gold Mine Project Proposal in the Kivalliq Region of Nunavut, Project Certificate NIRB [No. 006]. Prepared by the Nunavut Impact Review Board for the Meliadine Gold Mine Project. February 2015.

# Appendix I: The NIRB's 2015 Meliadine's Site Visit Report



# 2015 Site Visit Report

# for the NIRB's Monitoring of the

# **Meliadine Gold Mine Project**



Nunavut Impact Review Board

File No.: 11MN034

Meliadine Gold Mine Project Certificate No. 006

November 2015

**Full Report Title:** The 2015 Site Visit Report for the Nunavut Impact Review Board's

Monitoring of the Meliadine Gold Mine Project (NIRB File No.

11MN034)

**Project:** Meliadine Gold Mine Project **Project Location:** Kivalliq Region, Nunavut

NIRB File No.: 11MN034

Meliadine Gold Mine Project Certificate No. 006

**Project Owner:** Agnico Eagle Mines Ltd.

**Proponent Contact:** Stéphane Robert, Manager, Regulatory Affairs

**Telephone:** (819) 759-3555

**Address:** Meadowbank Division

P.O. Box 540 Baker Lake, NU

X0C 0A0

Visit conducted by: Kristina Benoit, Monitoring Officer

Davin St. Pierre, Technical Advisor

Site visit date: September 2, 2015

**Report prepared by:** Kristina Benoit, Monitoring Officer

Contact: Phone: (867) 983-4607; kbenoit@nirb.ca

**Pictures by:** NIRB Staff

**Cover Photo:** View of portal and service garages

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### 1 Introduction

The Nunavut Impact Review Board (NIRB or Board) was established through Articles 10 and 12 of the Nunavut Land Claims Agreement (NLCA) and is responsible for post environmental assessment monitoring of a Project in accordance with Part 7 of Article 12 of the NLCA.

This report provides the findings that resulted from the NIRB's site visit to the Meliadine Project site on September 2, 2015 and as such forms a part of the NIRB's monitoring program.

### 1.1 Objectives & Purpose of the Site Visit

One objective of the NIRB's site visit was to determine whether, and to what extent, the land or resource use in question is being carried out within the predetermined terms and conditions of the NIRB's Project Certificate issued for the Meliadine Gold Mine Project, in accordance with Section 12.7.2(b) of the NLCA.

The observations resulting from this site visit shall, wherever possible, be incorporated into the measurement of the relevant effects of the project according to Section 12.7.2(a), as well provide the information necessary for agencies to enforce terms and conditions of land or resource use approvals as required under Section 12.7.2(c). Observations will also be used to assess the accuracy of the predictions contained in the project impact statements according to Section 12.7.2(d) of the NLCA.

### 1.2 Meliadine Gold Mine Project History

The Meliadine Gold Mine project proposal, NIRB File Number 11MN034 (the Project or Meliadine project), consists of the construction, operation, closure, and reclamation of five open pit mines and one underground mine and associated infrastructure for the extraction, transportation and shipment of gold from five deposits approximately 24 kilometres (km) northwest of Rankin Inlet, in the Kivalliq Region of Nunavut. The Proponent for the Meliadine project is Agnico Eagle Mines Limited (the Proponent or AEM). The expected 24 hour a day/365 days a year mine and milling operations are proposed to result in the daily extraction of approximately 8,500 tonnes of ore and up to 3.1 million tonnes of ore annually. The gold deposits, specifically Tiriganiaq, Wesmeg, Pump, F Zone and Discovery, would be accessed by open pit mining methods with Tiriganiag being the only deposit also accessed by underground mining methods. There are three main Project areas: the Tiriganiag mine site, the Discovery deposit site, and Itivia Harbour, accessible directly from Rankin Inlet by an All-Weather Access Road (AWAR or Road). The Phase 1 AWAR, which was required for continued exploration of the area, was approved to proceed prior to the Board completing the Review of the mine proposal and has been developed by AEM. The Phase 2 AWAR is associated with development of the mine and involves upgrading and twinning of the existing Phase 1 AWAR,

which is approximately 24 kilometres (km) long. AEM has confirmed that Phase 2 of the AWAR would not be completed until it is ready to develop the Discovery deposit.

Supplies and equipment required for construction and re-supply of the project would be received during the open water season only, at the Itivia spud barge at Melvin Bay, near Rankin Inlet. The Itivia area would consist of eight (8) one-million litre fuel tanks and a laydown area to temporarily store materials received during the open water barging season. This area would be connected to the AWAR by a bypass road which would facilitate mine traffic avoiding the community of Rankin Inlet on route to the Project mine site.

The NIRB Project Certificate [No. 006] was issued for the Meliadine Gold Mine Project on February 26, 2015. On May 20, 2015 AEM submitted its Type A Water Licence application with the Nunavut Water Board. AEM is currently continuing exploration activities as previously approved and maintaining a presence at site, while completing licencing required for mine development to begin.

### 1.3 Preparations for the Site Visit

In preparation for the site visit, the Monitoring Officer reviewed the Meliadine Gold Project Final Hearing Report, Meliadine Gold Mine Project Certificate, and the Nunavut Water Board (NWB) Type A Water Licence application.

### 2 Site Visit

The NIRB site visit was conducted on September 2, 2015 by Kristina Benoit, NIRB Monitoring Officer, and Davin St. Pierre, NIRB Technical Advisor. The site visit started at the AEM office in Rankin Inlet where NIRB staff were greeted by Mr. Robert, Manager, Regulatory Affairs. A basic orientation of health, safety and environment procedures was provided. The tour included visits to the Itivia dock, all-weather access road, exploration camp and infrastructure. When first arriving at the exploration camp, Mr. Robert presented a brief presentation on AEM's NWB Type A water licence application and planned pre-development works (Appendix I). After the presentation, the NIRB staff discussed the site visit with Mr. Robert, along with next steps for the Meliadine Gold Project, and updates regarding submission of documents required by the Project Certificate terms and conditions prior to commencement of the construction phase.

### 3 General Observations

## 3.1 Melvin Bay – Itivia Dock Area

The Itivia dock area (Photo 1), located to the southwest of Rankin Inlet in Melvin Bay, will serve as the Project's logistical hub and link to the main camp and mine site by a bypass and AWAR (Photo 2). During the NIRB site visit, AEM noted that it will utilize the community's docking area for temporary staging of exploration camp re-supply materials until licensing is completed to proceed with the construction of the Itivia Dock Area and bypass road.



Photo 1: Community's Itivia docking area



Photo 2: View towards planned temporary laydown area, tank farm and bypass road

## 3.2 All-Weather Access Road (AWAR)

During the site visit, NIRB staff noted previously approved road infrastructure (Photos 3, 4 and 5) and land features (Photo 6) along the AWAR, as well as dust monitoring stations to monitor fugitive dust levels from vehicular traffic (Photo 7). Several all-terrain vehicles were observed

using the road while staff were stopped at various locations. Numerous species of avian fauna were observed in flocks foraging approximately 250 meters to either side of the AWAR; disturbances to activity were observed from vehicles driving past the avian fauna, however they would return to foraging behavior shortly afterwards.



Photo 3: Char River Bridge



Photo 4: Manned gate along the AWAR



**Photo 5:** Emergency Seacan shelter



**Photo 6:** Archaeology site with markers



**Photo 7:** Dust fall monitoring station

## 3.3 Exploration Camp Accommodations

During the site visit, NIRB staff toured the exploration camp accommodations, observing the wastewater treatment system (Photos  $\underline{8}$  and  $\underline{9}$ ) and temporary incinerator (Photo  $\underline{10}$ ). AEM staff noted the company's recent application to upgrade the wastewater treatment system and accommodations capacity to facilitate the expected increase in number of workers with the construction phase.



**Photo 8:** Wastewater treatment system – air blubber (bacterial) stage



**Photo 9:** Wastewater treatment system – ultraviolet stage



**Photo 10:** Temporary incinerator

## 3.4 Exploration Site

Through previously approved exploration and bulk sample works several pieces of infrastructure have been established throughout the mining site, including: core shack (<u>Photo 11</u>), metal waste pile (<u>Photo 12</u>), seacan storage area (<u>Photo 13</u>), tank farm (<u>Photo 14</u>), gravel quarry B6a (<u>Photo 15</u>), temporary explosives storage (<u>Photo 16</u>) and the portal with service garages (<u>Photo 17</u>). AEM noted that its focus on advanced exploration has shifted to its

Meadowbank site. The tank farm maintains an annual inventory of approximately 1 million litres of fuel on site for vehicle and equipment operation. Further, the gravel quarry has piles of gravel currently being prepared for regular road maintenance and pre-development road construction once all licenses have been obtained.



Photo 11: Core shack



Photo 12: Metal waste pile



Photo 13: Seacan storage area



Photo 14: Tank farm



**Photo 15:** Gravel quarry B6a



Photo 16: Temporary explosives storage



Photo 17: Portal and service garages

# 4 Pre-Development

During the site visit, NIRB staff observed several survey markers on the tundra (Photo 18), which AEM explained identified the mapped areas where accommodation complex, administration offices and other mine infrastructure would be built during the construction phase.



Photo 18: Survey markers on the tundra

# **5 Summary**

AEM received its Project Certificate [No. 006] on February 26, 2015. At the time of the 2015 site visit, the only observed variation from the NIRB's previous site visit during the August 2014 final hearing for the Meadowbank Gold Mine Project was the mapping and placement of surveyor's flags in anticipation of pre-development construction pending NWB Type B Water Licence approval. Presently, AEM's Type A Water Licence application has entered the technical review period with the NWB and several exploration and pre-development Type B Water Licences are in place to allow continuation of operations until the mine project is permitted.

Overall, from the NIRB's 2015 site visit, it appears that AEM is operating within its currently approved permits and licences. Once all licences and permits have been obtained to begin the construction phase, more conditions of the NIRB Project Certificate would be applicable to site operations, and AEM would be required to comply with the conditions.

Prepared by: Kristina Benoit
Title: Monitoring Officer
Date: October 8, 2015

Signature:

Reviewed by: Tara Arko

Title: Director, Technical Services

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Date: October 8, 2015

Signature:

## LIST OF APPENDICES

Appendix I	AGNICO EAGLE MINES LTD'S SITE VISIT PRESENTATION TO THE NIRB













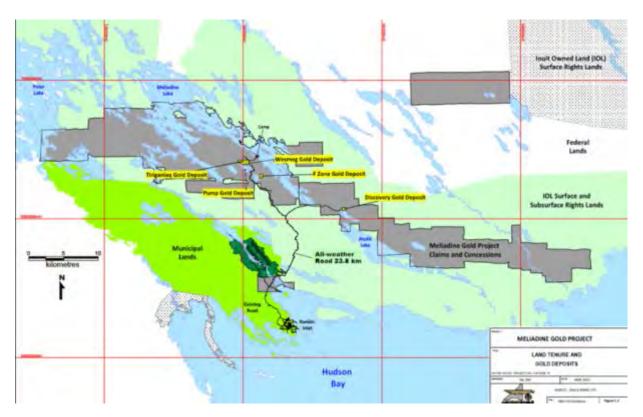


Water License Application September 2, 2015

# **MELIADINE GOLD MINE PROJECT**

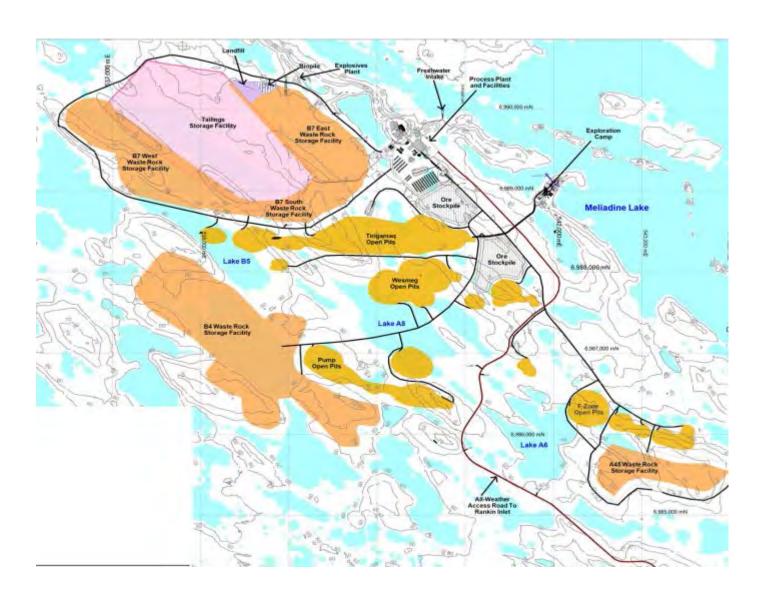


- The Project is composed of five known gold deposits: Tiriganiaq, F Zone, Pump, Wesmeg, and Discovery.
- AEM proposes to develop these deposits in a phased approach to better manage the initial capital investment required and to allow production to commence while ongoing exploration continues to increase the known ore reserve.



# **MELIADINE PROJECT - FEIS**





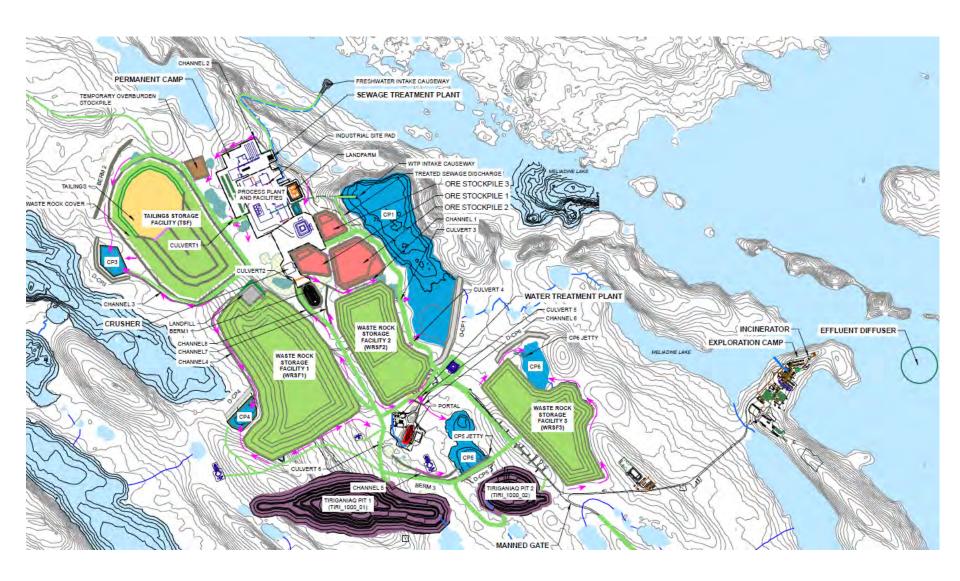
# **MELIADINE GOLD MINE PROJECT – PHASED APPROACH**



- The initial phase of development (Phase 1) focuses on the development of the Tiriganiag gold deposit using a traditional open-pit mining method and underground mining.
- Two open pits (Tiriganiaq Pit 1 and Tiriganiaq Pit 2) and one underground mine (Tiriganiaq Underground) will be developed.
- Phase 1 encompasses an 8 year time period and
  - Year 1 3 starts commercial production as a nominal 3000 TPD underground mine centered on the Tiriganiaq deposit,
  - Year 4 8 expanding to a nominal 5000 TPD mine with the addition of the two Tiriganiag open pits.
- Phase 2 will be defined and permitted during this 8 year Phase 1 period once the other deposits are better defined through ongoing exploration drilling.
- Both Phase 1 and 2 are envisioned to be within the larger Meliadine Gold Mine Project that was the subject of the environmental and socio-economic assessment conducted by the Nunavut Impact Review Board, culminating in the issuance of Project Certificate No. 006.

# **MELIADINE GOLD MINE PROJECT – PHASE 1**





# DIFFERENCE BETWEEN FEIS AND WATER LICENSE



- The Phase 1 mine plan incorporates a
  - smaller Project footprint (due to the focus on the Tiriganiaq deposit and deferral of the development of many of the other deposits until Phase 2, specifically F Zone, Pump and Discovery),
  - relocation of some of the site infrastructure to reduce interference with an historic caribou migration corridor,
  - a change in the tailings management strategy to reduce the TSF footprint, and associated revisions to water management at the site from the larger Project as presented in the FEIS.
- 7 These Project revisions were made to address concerns that arose during the environmental assessment process and to improve the overall economic feasibility of the Project by applying a phased development approach.
- The FEIS prepared for the NIRB assessed the Project under a scenario that was considered worst case or greatest environmental impact.

## **MINING PLAN**



- Phase 1 proposes mining the Tiriganiaq deposit using both open pit and underground operations.
- → The mine production rate will be 3,000 TPD in Year 1 to Year 3 and 5,000 TPD Year 4 to Year 8.
- Approximately 12.1 Mt of ore will be mined; this will comprise approximately 3.6 Mt from the open pits and approximately 8.5 Mt from underground operations over a mine life of eight years.
- → The operation will produce approximately 31.8 Mt of waste rock, 7.4 Mt of overburden waste, and 12.1 Mt of tailings.

## **NEXT STEPS**



- Submit a Water License Type A application for Phase 1 in May 2015.
- Submit a Water License Type B application for the pre-development (include in the FEIS) in June 2015.
- Starting pre-development works in September 2015 (if Type B receive)
- Starting construction of the mine Summer 2016 (if Type A receive and approval from AEM Board)

### **MELIADINE – PHASE 2**

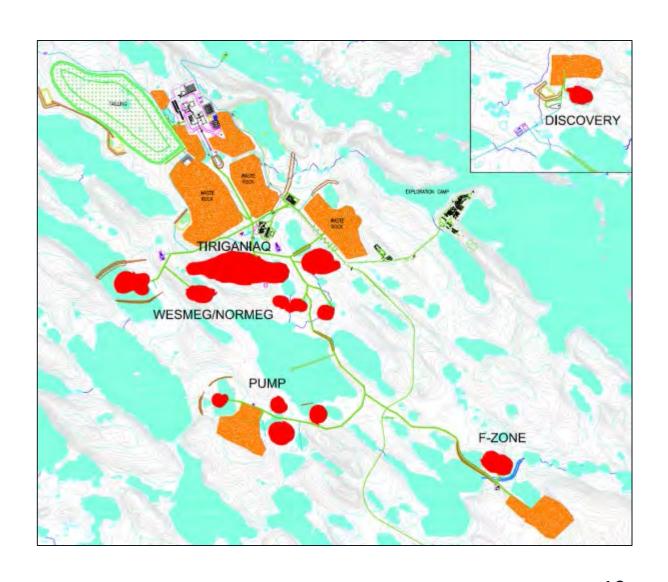


- → Upper portion of deposits (0 to 150m max below surface)
  - Mined by Open pit using a conventional trucks / shovels operation
  - 12 open pits:
    - Tiriganiaq /Wesmeg /Normeg (6)
    - Pump (4)
    - Fzone (1)
    - Discovery (1)
- → Deeper portion of deposits (150m to 650m below surface)
  - Mined by Underground using a longhole mining method
  - 3 underground operations:
    - Tiriganiaq / Wesmeg/ Normeg (1)
    - Pump (1)
    - Discovery (1)

Open pit / underground interface was optimized during the pit design process by considering specific mining costs for both type of operations in order to mine a specific ore block the most economical way

## **MELIADINE – GENERAL SITE ARRANGEMENT**





## **Appendix II:**

Public Information Meeting Summary Report September 2, 2015 for the NIRB's Monitoring of Agnico Eagle Mines Ltd.'s Meliadine Gold Mine Project



## Public Information Meeting Summary Report September 2, 2015

For the NIRB's Monitoring of Agnico Eagle Mines
Limited's Meliadine Gold Mine Project
(NIRB File No. 11MN034)



Report Title: Public Information Session Summary Report September 2, 2015 for the

NIRB's Monitoring of Agnico Eagle Mines Limited's Meliadine Gold

Mine Project (NIRB File No. 11MN034)

Report prepared by: Davin St. Pierre, Technical Advisor

Photos by: NIRB Staff

Cover photo: Community Information Session in Rankin Inlet, September 2, 2015

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#### 1.0 NIRB PUBLIC INFORMATION SESSION

Pursuant to Section 12.7.2 of the Nunavut Land Claims Agreement, and the Meliadine Gold Mine Project Certificate [006], the Nunavut Impact Review Board's (NIRB or Board) monitoring responsibilities include providing periodic updates regarding its Monitoring Program for the communities most affected by Agnico Eagle Mines Limited's (AEM) Meliadine Gold Mine Project (the Project). To further ensure ongoing awareness of Project-specific terms and conditions, and encourage effective participation throughout the Board's monitoring process, the NIRB scheduled a Project update meeting and community information session in Rankin Inlet on September 2, 2015. The information session took place during the evening from 6:30 p.m. to 8:30 p.m. at the Rankin Inlet Community Hall, with a recorded attendance fifty-four people. The NIRB Staff in attendance included Kristina Benoit (Technical Advisor/Monitoring Officer) and Davin St. Pierre (Technical Advisor). In addition to the NIRB staff, representatives from the following agencies were also in attendance at the meeting:

- Agnico Eagle Mines Ltd.: Stéphane Robert (Manager, Regulatory Affairs), Josée Brazeau (Environmental Coordinator)
- Kivalliq Inuit Association: Luis Manzo (Director of Lands)
- Nunavut Tunngavik Incorporated: Bert Dean (Asst. Director, Department of Wildlife and Environment)
- Government of Nunavut Economic Development and Transportation: Robert Connelly (Manager, Community Economic Development)

The information session provided a general update of the NIRB's monitoring programs for the Project and specifically outlined the ways in which the public can participate in the Board's monitoring process. Simultaneous translation was provided in Inuktitut throughout the session. During the session the NIRB collected feedback from those in attendance during the course of the presentation and discussions. A summary of the comments and concerns received from community members can be found in Section 2 of this report.

#### 1.1 Format of NIRB Public Information Meeting

The community information session was open to all members of the public and was hosted at the Rankin Inlet Community Hall. Refreshments and snacks were provided and door prizes were raffled following the presentation and in between discussion periods. All in attendance, including government and industry representatives, were asked to sign in and identify the community or organization they represented. The NIRB began the meeting with a PowerPoint presentation that included a discussion of the Board Monitoring Process, an update on the Meliadine Gold Mine Project, and provided information on how the public can participate in the NIRB's monitoring program. The presentation was shown in English and Inuktitut, and discussed in English, with simultaneous interpretation provided in Inuktitut.

Members of the public were encouraged to comment and ask questions regarding the NIRB's processes, project monitoring updates, and any general concerns related to the Project. Both written and verbal comments were accepted at the public information meeting and verbal comments were recorded by the NIRB staff.



Rankin Inlet community members browse meeting materials during the NIRB Public Information Session presentation. (September 2, 2015)

#### 1.2 Meeting Materials

At the public meeting, the following materials were provided by the NIRB:

- The NIRB's PowerPoint presentation (in English and Inuktitut)
- The Nunavut Land Claims Agreement (in English)
- The NIRB's Environmental Assessment Guides (in English and Inuktitut)
- AEM's Meliadine Gold Mine Project Certificate (in English)
- Comment Forms (in English and Inuktitut)
- NIRB Contact List Sign-up Forms (English)
- NIRB Staff Contact Information (English and Inuktitut)
- Maps of Project Areas

Copies of consultation materials, including the presentation, advertisements and sign-in sheets, can be obtained from the NIRB's online public registry at:

http://ftp.nirb.ca/03-MONITORING/11MN034-AEM%20MELIADINE/07-COMMUNITY%20CONSULTATIONS/.

#### 1.3 Advertisements

The following public notification methods were used to advertise the NIRB's community information session:

#### Radio

A public service announcement in English and Inuktitut was distributed to the radio station in Rankin Inlet with instructions to air twice daily from August 24, 2015 to September 2, 2015.

#### Newspaper

Newspaper advertisements (English and Inuktitut) that outlined the date, time, and purpose of the NIRB Information Session appeared in the Kivalliq News for two weeks prior to September 2, 2015.

#### **Flyers**

On August 10, 2015 community members and local organizations in Rankin Inlet were requested to assist with the placement of flyers (in English and Inuktitut) which outlined the date, time, and purpose of the NIRB meeting.

#### Cable

Cable television advertisements were aired in both English and Inuktitut advertising the information session in Rankin Inlet for two weeks starting August 21, 2015.

#### 2.0 NOTES FROM THE NIRB'S PUBLIC INFORMATION SESSION

#### **Comments, Concerns and Questions**

The following sections summarize the comments and concerns that were raised at the community information session with respect to the monitoring of the Meliadine Gold Mine Project. Please note that all comments have been grouped under general headings that reflect the main issues discussed during information session and Project update meeting.

#### 2.1 Comments regarding Ecosystemic Impacts

- A community member expressed concern regarding the state of the municipal water supply and the potential effects that the Meliadine Gold Mine Project would have on the health of this water source. This statement was deferred to Stéphane Robert of AEM who clarified that the Project does not interact with this body of water or its watershed.
- Concern was expressed by a community member regarding the Project's potential contamination of the Meliadine River and Meliadine Lake followed by a request clarification regarding the water monitoring programs that are currently in place and the programs that will be in place during the mine's operation.
- A community member stated their concern regarding the use of outdated environmental studies and studies conducted by "out-of-towners" for project decision-making. The community member also noted their confusion with how projects can be allowed to proceed prior to having studies completed.

#### 2.2 Comments regarding Socio-Economic Impacts

- Community members asked when local hiring would take place related to the Project and whether there would be job training for Inuit applicants.
- A community member asked how socio-economic indicators are established and monitored through the NIRB process.

#### 2.3 Comments regarding NIRB Public Education

A community member thanked the NIRB for hosting the information session and for providing updates related to the Project as well as information on the function of the NIRB. The community member further stressed how important it is that the NIRB increases its focus on public and youth education to foster involvement in NIRB processes through all generations.

#### 3.0 SUMMARY AND CONCLUSION

The Community Information Session hosted by the NIRB in Rankin Inlet on September 2, 2015 was the first monitoring update since the Minister of Aboriginal Affairs and Northern Development accepted the Board's decision to allow the project to proceed, followed by the issuance of the Meliadine Gold Mine Project Certificate by the NIRB on February 26, 2015. In addition to providing updates on the development of the Meliadine Gold Mine since its approval earlier this year, this session provided information on the NIRB's function and how the public can participate in the NIRB's assessments and monitoring programs. Community members who attended the information session took part in general discussions, asked questions, raised concerns, and provided comments regarding impacts to water, the undertaking of studies, local hiring and Inuit training, as well as public education related to the NIRB and the Meliadine Gold Mine project. Community members were thanked for their attendance and encouraged to continue participating in NIRB process. The comments and concerns raised during the public information meetings will aid in the identification of items that need to be addressed or considered throughout the Meliadine Gold Mine Project Monitoring Program and through the NIRB's impact assessment of similar projects in Nunavut.

Prepared by: Davin St. Pierre Title: Technical Advisor Date: October 8, 2015

Signature:

Reviewed by: Tara Arko

Director, Technical Services October 8, 2015 Title:

Date:

Signature:

#### LIST OF APPENDICES

### APPENDIX A RANKIN INLET COMMUNITY INFORMATION SESSION SIGN-IN SHEETS

Page 1 of 3

## Nunavut Impact Review Board Agnico Eagle Mines Ltd.'s "Meliadine Gold Mine" Community Information Session

#### SIGN-IN SHEETS

Location: Rankin Inlet Community Hall

Time: 6:30pm

Date: September 2, 2015

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Page 2 of 3

#### Nunavut Impact Review Board Agnico Eagle Mines Ltd.'s "Meliadine Gold Mine" Community Information Session

#### SIGN-IN SHEETS

Location: Rankin Inlet Community Hall

Date: September 2, 2015

Time: 6:30pm

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#### Nunavut Impact Review Board Agnico Eagle Mines Ltd.'s "Meliadine Gold Mine" Community Information Session

#### SIGN-IN SHEETS

Location: Rankin Inlet Community Hall Date: September 2, 2015

Time: 6:30pm Page No: Name Organization or Signature (Please Print) Community RenkinInlet KellxKanayok issul COL Tovethe Anairu Kurok Rankin Inlet Rulen belo

## APPENDIX B RANKIN INLET COMMUNITY INFORMATION SESSION ADVERTISEMENTS

#### Re: Public Service Radio Announcement

Hello Rankin Inlet Radio Station,

The Nunavut Impact Review Board (NIRB) will be holding a community information session in Rankin Inlet on September 2, 2015 and we would greatly appreciate your assistance in helping us make this event a success.

We kindly ask to please air this announcement once or twice a day in English and Inuktitut if possible, starting August 24, 2015 and continuing the announcements through September 2, 2015.

If you have any questions, please call Kristina Benoit toll free at 1-866-233-3033. We look forward to seeing you soon.

Thank you, Nunavut Impact Review Board

## **Public Service Announcement**

The Nunavut Impact Review Board (or "NIRB") is holding a Community Information Session in Rankin Inlet to give community members an update on the monitoring of the Meliadine Gold Mine Project.

It is a meeting open to the public, and the NIRB invites everyone to attend and learn more about:

- The NIRB monitoring process
- The NIRB's monitoring of the MELIADINE project, and
- How members of the public can participate in the NIRB's Monitoring Process.

The NIRB will be hosting an evening meeting at the Rankin Inlet Community Hall on Wednesday, September 2, 2015. Doors open at 6:30 pm for a presentation, followed by an opportunity to ask questions or state your comments about the Meliadine project.

Drop by for refreshments and win a door prize! Simultaneous interpretation will be available.

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## THE NUNAVUT IMPACT REVIEW BOARD



invites YOU to a community information session about the

## MELIADINE GOLD MINE PROJECT

## RANKIN INLET PUBLIC MEETING

Attend the NIRB's Public Meeting to learn more about the monitoring of the project, and share your comments

Date: Wednesday September 2, 2015

**Location: Rankin Inlet Community Hall** 

Doors Open at: 6:30 p.m.



Simultaneous interpretation will be available

Refreshments will be served and prizes given away



Contact the NIRB toll-free at 1-866-233-3033 or by email at info@nirb.ca



## Nunavut Impact Review Board Public Information Session

## Rankin Inlet September 2, 2015

Time	Event	Meeting Place
Doors open at 6:30 p.m.	Meliadine Gold Mine Monitoring Program	Rankin Inlet Community Hall

## You are invited to:

- Get information about the project
  - Learn about the NIRB process
- Share refreshments and win door prizes
   Interpretation will be available

For more information contact the NIRB office Toll-free 1-866-233-3033 Email info@nirb.ca



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## APPENDIX C RANKIN INLET COMMUNITY INFORMATION SESSION PRESENTATION

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# WHO IS THE NUNAVUT IMPACT REVIEW BOARD? Pンや ムウトー へやしてんとして しつしょっ?

- An institution of public government created under Article 12 of the Nunavut Land Claims Agreement (NLCA).
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- The NIRB's mission is to protect and promote the well-being of the Environment and Nunavummiut through the impact assessment process.





Ecosystemic Impacts ハマヤン・ ベトン・ト



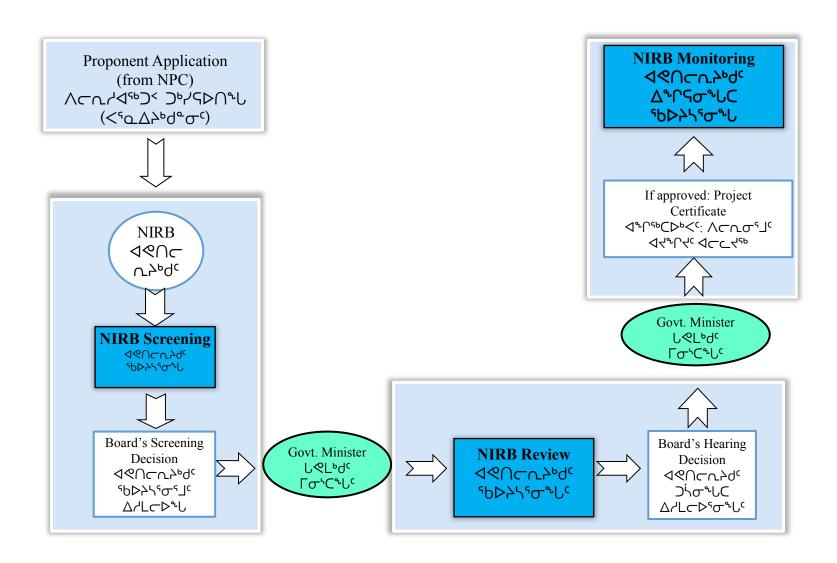
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Cumulative Impacts ⊲パペペーので





## NIRB ASSESSMENT PROCESSES



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- Monitor environmental and socio-economic effects of the project
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- Monitor compliance to authorizations and approvals
  「もりとしょうでも」しているでしている。





## MONITORING RESPONSIBILITIES $^{5}$

## **NIRB** 46UCV7pqc

- Information distribution
- **Review of Annual Reports J**SJCL<sup>c</sup>
- Site visit(s)  $Cd^{56}D^{56}C^{5}D^{6}$   $\Lambda \subset \Lambda^{5}\Lambda^{5}\Gamma^{6}$
- **Annual Report of Findings**  $^{5}$
- **Board Recommendations** 46UCV7pqc

## **Proponent** $\Lambda \subset \Lambda^{5}b^{5b})^{5b}$

- Ongoing reporting to NIRB **4**%ሀርሊትየ**ሰ**ው<sup>ር</sup>  $\Lambda \subset \Lambda^{\circ} \cup^{\circ} \Gamma^{\circ} \to \Gamma^{\circ} \cap^{\circ} \Gamma^{\circ} \to \Gamma^{\circ} \cap^{\circ} \Gamma^{\circ} \Gamma^{\circ} \cap^{\circ} \Gamma^{\circ} \cap^{\circ} \Gamma^{\circ} \cap^{\circ} \Gamma^{\circ} \cap^{\circ} \Gamma^{\circ} \cap^{\circ} \Gamma^$
- Annual Report ΔΫ́ΙςΓς Ραγρανου
- **Monitoring and Management Plans**  $< ^{9}$ Q>Q $^{c}$
- Obtain and maintain authorizations しらしているいてし ふつにっていら LC<sup>6</sup>dケD7Ldで
- Reporting to licensing agencies  $\triangle \Delta \Delta \Phi$   $D \Phi P \Phi D \Phi$  $\nabla \sigma \dot{\rho}^{\varsigma} \nabla \Gamma \rightarrow \Omega^{\flat}$

## **Authorizing Agencies** CQ7600175040

- Issue authorizations and approvals Dary⊃U₁ 44%1400%
- Report on project Effects ₽₽<₽<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°<!>>0°  $\Lambda \subset \Lambda^{1} \subseteq \Lambda^{1} \subseteq$
- **Monitor Compliance**  $L \subset U^5 G^6$ ᠘ᠸᢉ᠘ᡩᠦᢞᡥ᠋ᢐᢛ᠂ᡰ᠐ᠫᢣᡪᠳᢠ





# Meliadine Gold Mine Project – Assessment Process Cパイグ「 リンプトゥートー ヘーヘグ・ – グラムケット・ つってってってっている ー グラムケット・

- > Review began (September 2011) / らりとしょの 人でくらしょう (イベロー 2011)
- Final Hearing held in Rankin Inlet (August 2014) / Pもってい しょうで しゃつらん しゅうしょく 2014)
- Minister accepted the Nunavut Impact Review Board's decision (January 2015) / 「「「」」」 「つって」 はいっといる。 (シュース・) はいっといる。 (シュース・) はいっといる。 (シュース・) (ショース・) (ショース・
- Project Certificate issued (February 2015) / Λーヘグゴ ムム つのサンベンの (あくつへ、2015)







## **Meliadine Project Certificate**



- Requires monitoring of the environment

Ensures responsible design of project infrastructure

 $\Lambda$ 

Outlines operational considerations to reduce negative impacts identified through assessment process

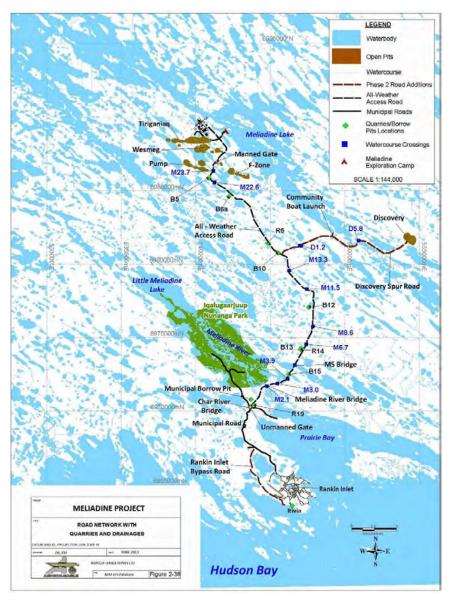
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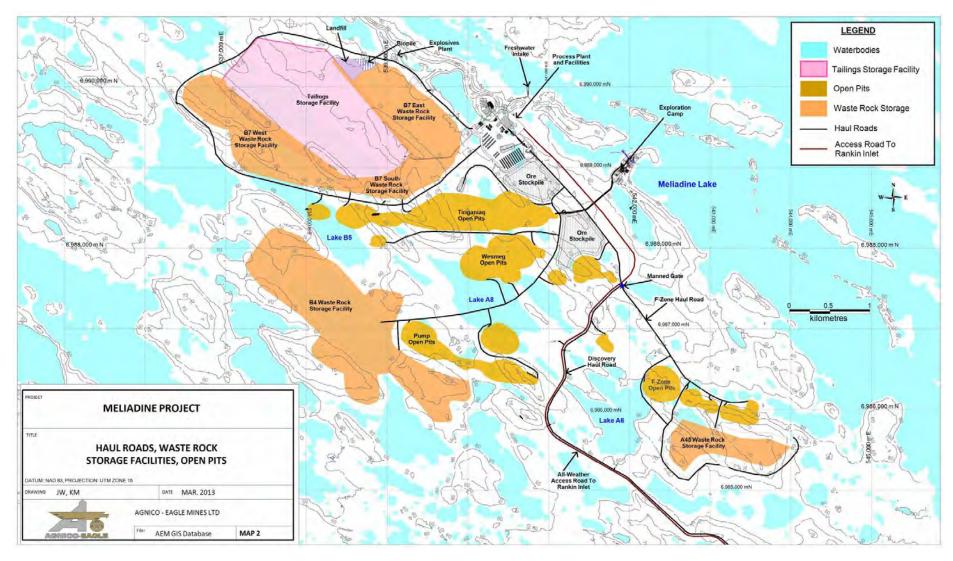
Requires wildlife monitoring and reporting











## Major Project Components るってく Δーー。

- > 5 open pit and 1 underground mine / 5 ჲჲ▷< ˤὑ∿ٺσ Ϥ·Ͱ 1 ჲჲ▷< Δ϶Ϥ°σ



## Major Project Components - Continued るってく Δーー。



# Major Project Components – Continued るってく へこしく ムンー。 しゃしょ しょくらし

> Transportation of Project employees to occur via Rankin Inlet Airport, with further transportation via the all-weather access road

> Development of the all-weather access road's phase 2

Widening of single lane to two



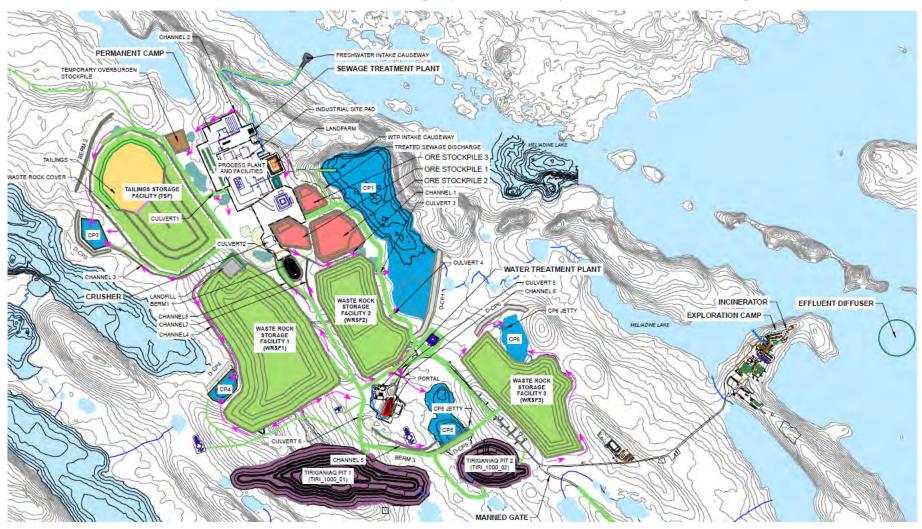
# Major Project Components – Continued るってく へこしく ムンー。 しゃしょ しょくらし

- All mine roads to be closed to the public
  トケマック・ペップ・マック・ロントレーシャン・ロントレース・ローシー・



- Applied for Type A water license
  つゅくらゅくしょっしゅく Δしらしゅく Δしらしゅく Δしらしゅく Δしらしゅく Δしらしゅく Δしらしゅく Δしらしゅく Δしらしゅく スター・





How can you get involved? 「も」の「も」」へいった人で?				
Review AEM's annual reports	<ul><li>「もトト」」」</li><li>「ウトト」」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li><li>「ウー」</li></ul>			
<ul> <li>Submit written comments and questions</li> </ul>	<ul> <li>)σγυης ΔζΕΓγίσε</li> <li>4Λίσησιυ</li> </ul>			
• Phone the NIRB's office toll-free (867) 983-4600	<ul><li>4ペハーへとは、ハハム・カット・ イペハーへとは、ハハム・カット・ (867) 983-4600</li></ul>			



THANK YOU