

Report Title: The Nunavut Impact Review Board's 2017-2018 Annual Monitoring Report for Agnico Eagle Mine Limited's Meliadine Gold Mine Project (NIRB File No. 11MN034)

Project: Meliadine Gold Project
Project Location: Kivalliq Region, Nunavut
Land Tenure: Inuit Owned Land

Project Owner: Agnico Eagle Mines Limited
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Monitoring Period: October 1, 2017 – September 30, 2018

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1.0 INTRODUCTION

The Nunavut Impact Review Board (NIRB or Board) was established through Articles 10 and 12 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)*. On February 26, 2015 pursuant to Section 12.5.12 of the Nunavut Agreement, the NIRB issued Project Certificate No. 006 (the Project Certificate) for the Meliadine Gold Project (the Project), allowing the Project to proceed in accordance with the terms and conditions issued therein. As per Section 12.7.2, the NIRB is responsible for project monitoring in order to:

- a) *Measure the relevant effects of projects on the ecosystemic and socio-economic environments of the Nunavut Settlement Area;*
- b) *Determine whether, and to what extent, the land or resource use in question is being carried out within the predetermined terms and conditions;*
- c) *Provide the information base necessary for agencies to enforce terms and conditions of land or resource use approvals; and*
- d) *Assess the accuracy of predictions contained in the project impact statements.*

This report provides findings that resulted from the Board's monitoring program for this Project from October 2017 to September 2018.

1.1. PROJECT HISTORY AND CURRENT STATUS

On April 1, 2011 the NIRB commenced screening of Agnico Eagle Mines Limited's (Agnico Eagle, or the Proponent) proposal for an All-Weather Access Road (AWAR) from Rankin Inlet to the Meliadine site to support exploration and bulk sampling (NIRB File No. 11RN017). On June 10, 2011 the NIRB commenced screening of the Proponent's Meliadine Gold Mine Project Proposal. On July 4, 2011 pursuant to Section 12.4.4(c) of the *Nunavut Agreement*, the NIRB recommended the proposal for the AWAR be clarified and re-submitted as part of the Meliadine Gold Mine Project. On July 8, 2011 the NIRB determined the proposal for the Meliadine Gold Mine Project should undergo full review by the Board, pursuant to Section 12.4.4(b) of the Nunavut Agreement.

On September 29, 2011 the NIRB received an application from Agnico Eagle requesting that a Phase 1 AWAR be excepted from the review of the Meliadine Gold Mine Project pursuant to Section 12.10.2(b) of the *Nunavut Agreement*. On February 20, 2012 the Board issued a Screening Decision Report indicating that Phase 1 of the AWAR could proceed independently of the Review of the Meliadine Gold Mine Project, subject to the NIRB's project-specific terms and conditions. Phase 1 of the AWAR was completed in 2013. All documentation associated with this project is available online from the NIRB's public registry at <http://www.nirb.ca/project/124108>.

The NIRB Final Hearing was held for the Meliadine Gold Project proposal from August 21-27, 2014 where the Board subsequently approved the Project to proceed in its October 10, 2014 Final Hearing Decision Report. The Minister of Aboriginal Affairs and Northern Development accepted the decision on January 27, 2015 and the Meliadine Project Certificate No. 006 was

issued on February 26, 2015. On April 15, 2016 the NRB issued the Type “A” Water Licence (2AM-MEL1631) to Agnico Eagle Mines Limited for a 15-year term. Agnico Eagle maintains two (2) active Type “B” licenses (2BE-MEP1318 and 2BB-MEL1424) for exploration purposes, but no activities were conducted under the former in 2017.

In December 2016, Agnico Eagle proposed the development of a quarry at Itivia Harbour to support infrastructure in the harbor area for the Meliadine Gold Mine Project. The proposed quarry was screened separately by the NRB (File No. 16QN071), and on April 13, 2017 the NRB determined that the quarry project could proceed, subject to a specific set of terms and conditions. Agnico Eagle reported that in 2017, approximately 63,000 m³ of material was blasted from the Itivia Quarry for use in construction. All documentation associated with the NRB’s screening of the AWAR is available online from the NRB’s public registry at <http://www.nrb.ca/project/125046>.

By August 2017, Agnico Eagle had received all other approvals and permits needed to construct and operate all aspects of the Project, including land leases, right-of-way leases, and quarry permits from the Kivalliq Inuit Association, Government of Nunavut, Fisheries and Oceans Canada, the Hamlet of Rankin Inlet, Transport Canada, and NAV Canada. The Meliadine Gold Mine Project is currently in its final year of construction, with operations scheduled to begin in 2019.

In January 2018, Agnico Eagle applied to modify the way it would manage saline groundwater flowing into the underground mine. Agnico Eagle’s “Saline Effluent Discharge to Marine Environment, Rankin Inlet, Meliadine Gold Mine” project proposal (the Saline Effluent Discharge Proposal) would involve discharge of excess saline groundwater into the marine environment at Itivia Harbour, Melvin Bay. This alternative was not fully assessed during the Review of the Meliadine Gold Mine Project. On April 6, 2018 the NRB provided formal notice to the Proponent and the Minister that it would be assessing the proposal through a reconsideration of Project Certificate No. 006 under Article 12, Section 12.8.2 of the *Nunavut Agreement*, and s. 112 of the *Nunavut Planning and Project Assessment Act (NuPPAA)*. The NRB received the Proponent’s FEIS Addendum for the Saline Effluent Discharge Proposal on June 19, 2018, and the review culminated in a Public Hearing on September 12 to 13, 2018 in Rankin Inlet with the Board’s decision expected to be released on October 26, 2018. All documentation associated with the Meliadine Gold project is available online from the NRB’s public registry at <http://www.nrb.ca/project/124106>.

1.2. PROJECT COMPONENTS

The approved Meliadine Gold Mine Project consists of mining at five (5) gold deposits (Tiriganiaq, Wesmeg, Pump, F Zone, and Discovery) through a phased approach 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. Mining at Tiriganiaq will occur using both above ground and underground methods, with the other four (4) deposits mined using open pit methods. There are three (3) main Project areas: the Tiriganiaq mine site, the Discovery deposit, and the Itivia Harbour.

The Tiriganiaq mine site includes the camp, landfarm, landfill, incinerator, and fuel tank farms, all of which were completed in late 2017. In addition, the underground portal has been active since 2007/2008 when it was constructed for bulk sampling. Once operations begin, the mine site will also include three (3) waste rock piles, three (3) ore stockpiles, and a tailings storage facility.

Transportation of personnel and supplies occurs via a 25 kilometre (km) all-weather access road (AWAR) between Rankin Inlet and the Meliadine site; Phase 1 of the AWAR was approved by the NIRB in 2012 as an exception to the Review of the Meliadine Gold Mine project and was completed in 2013. Agnico Eagle anticipates Phase 2 of the AWAR, which would include widening of the existing Phase 1 road, twinning part of the road to separate oncoming traffic, and developing a spur road to the Discovery deposit, is to occur in 2024.

Supplies and equipment for the Project are barged into Itivia Harbour, Melvin Bay in Rankin Inlet during the open water season. The Itivia project area includes quarry operations that began in 2017, and a laydown area and fuel tank farm completed in the summer of 2018. Construction of the bypass road from Itivia to the start of the AWAR was completed in the fall of 2018. The bypass road is to enable mine traffic to avoid the community of Rankin Inlet while transporting fuel and equipment to the Project mine site.

2.0 MONITORING ACTIVITIES

2.1. GENERAL REPORTING REQUIREMENTS

In response to the Board's request in November 2016 and as initiated that month, Agnico Eagle continued to provide the NIRB with monthly construction updates through 2017-2018. Agnico Eagle submitted its 2017 Annual Report to the NIRB on April 9, 2018 along with the following new or updated management plans as required by the terms and conditions contained within the Project Certificate or as specifically requested by the NIRB or regulatory authorities during the 2017-2018 monitoring period:

- Borrow Pit and Quarry Management Plan
- Environmental Management and Protection plan
- Explosives Management Plan
- Groundwater Management Plan
- Hazardous Material Management Plan
- Incineration Management Plan
- Landfarm Management Plan
- Landfill Management Plan
- Mine Waste Management Plan
- Quality Assurance / Quality Control Management Plan
- Roads Management Plan (including Dust Management Plan)
- Spill Contingency Plan
- Used Water Management Plan
- Waste Management Plan
- Water Management Plan, including the Freshet Action Plan

The Proponent's 2017 Annual Report included results of monitoring activities for the year, including the terrestrial ecosystem monitoring and management plan (TEMMP); the air quality monitoring program; noise monitoring program; geotechnical and geochemical inspections; site water quality monitoring; aquatic effects monitoring program and environmental effects monitoring cycle 1 study design; marine mammal and seabird observer logs; and traffic logs.

In addition, on February 27, 2018 the Proponent provided the NIRB with its Kivalliq Projects Socio-Economic Monitoring Program (SEMP), the framework for socio-economic monitoring for Agnico Eagle's projects in the Kivalliq Region of Nunavut. Agnico Eagle submitted its 2017 SEMP report of results to the NIRB on July 4, 2018. Finally, on June 21, 2018 Agnico Eagle submitted an Annual Report for the Itivia Quarry (NIRB File No. 16QN071).

2.2. COMPLIANCE MONITORING

2.2.1. Compliance with the NIRB' Exception Report for Phase 1 of the AWAR

The NIRB's approval of Phase 1 of the AWAR project was subject to submission and implementation of a Dust Management Plan, which the Proponent has produced as part of its Roads Management Plan. During the 2016-2017 Monitoring Period, dust produced by vehicles along the AWAR arose as a major concern, and the Board recommended Agnico Eagle improve its dust suppression (see below). In response, the Proponent noted it would apply calcium chloride along the entire length of the AWAR in 2018 and would also test an alternative suppressant along a portion of the road. During the 2018 site visit ([Appendix A](#)), the NIRB staff were informed that dust suppressants (DustStop® and DustStop® Municipality) had been applied to the AWAR during the summer months and prior to the site visit. In addition, alternative suppressant along a portion of the road was applied but the study was not conclusive.

Further, during the 2018 site visit, NIRB staff noticed that dust was being produced along the AWAR with considerable dust being created by municipal haul trucks travelling the road between Rankin Inlet and the municipal borrow pit located just past the turn off to Iqalugaarjuup Nunanga Territorial Park. The hamlet is in charge of this section of the road while Agnico Eagle is the operator of the road past the Iqalugaarjuup Nunanga Territorial Park turnoff. It was acknowledged by Agnico Eagle that the Hamlet of Rankin Inlet had a difficult time applying dust suppressant in the beginning of the summer as the Hamlet acquired the wrong type for its machines. Agnico Eagle traded its dust suppressants with the Hamlet and the issue has since been resolved. However, the NIRB would like to note that it also received a complaint about the dust matter from a local community member; yet the NIRB acknowledges that not all the traffic producing the dust is mine-related. The NIRB is satisfied to hear about the working relationship that Agnico Eagle has with the Hamlet and that both parties worked together to ensure that dust suppressant was available during its site visit.

The Board acknowledges the presence of signage and the manned gates along the AWAR. However, the Board suggests that Agnico Eagle work with the Hamlet of Rankin Inlet to add signage along the municipality and Agnico Eagle roads to assist the public in understanding who the operators are of the road and other rules of the road.

The NIRB has not noted any other compliance issues related to Phase 1 of the AWAR.

2.2.2. Compliance with the NIRB Project Certificate No. 006

2.2.2.1. Proponent's Responses to the Board's 2017 Recommendations

On November 27, 2017 the Board made several recommendations to Agnico Eagle resulting from the NIRB's 2016-2017 monitoring efforts including the 2017 site visit (NIRB 2017). On January 29, 2018 Agnico Eagle provided responses to address each of the Board's 2017 Recommendations, summarized in [Table 1](#).

Table 1 2017 NIRB Recommendations to Agnico Eagle and Responses

<u>BOARD RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none">Requested that Agnico Eagle provide a submission to the NIRB that describes its assessment of the effectiveness of dust suppression efforts to date and demonstrates its consideration for the use of alternative dust suppressants (e.g., Dust Stop®, EnviroKleen®) and more frequent application. Limitations on the effectiveness of current dust suppression employed for the Project as well as the feasibility of alternative dust suppression compounds should be clearly highlighted.	<ul style="list-style-type: none">Indicated that calcium chloride was applied on the entire length of the AWAR in 2017 and visually, the application performed well.Noted that Agnico Eagle gained approval from the Hamlet and the airport to apply calcium chloride on the roads in Rankin Inlet during the barge season.Stated that Agnico Eagle purchased an alternative dust suppressant (Dust Stop®) for a test trial on a 2 km long section of the road in 2018 (the rest of the road will be treated with calcium chloride). Results will be compared with calcium chloride.
<ul style="list-style-type: none">Requested that Agnico Eagle provide the NIRB - retroactively and in future Annual Reports - with a log of authorized and unauthorized users along the All-Weather Access Road, and a comparison of observed versus predicted traffic volumes.	<ul style="list-style-type: none">Provided a log of public ATV traffic on the AWAR as recorded at the gatehouse.Provided a summary of actual (18,097 trips) vs. predicted traffic volumes (8,710 trips) for June to December 2017.
<ul style="list-style-type: none">Requested that Agnico Eagle provide an updated Roads Management Plan with updates to timelines, rules of the road, methods Agnico Eagle is currently taking to manage access, details of all ATV/snowmobile trails and crossings, methods for keeping the public informed, and consultation plans regarding access management.	<ul style="list-style-type: none">Indicated that an updated Roads Management Plan would be provided with the 2017 Annual Report.

<u>BOARD RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none"> Requested that Agnico Eagle provide the NIRB with a plan for meeting the objectives of Conditions #46 and #105. The plan should include a clear indication of timelines, next steps in development of the Hunter Harvest Survey, discussion of limitations of the survey originally carried out at Meadowbank and proposed solutions, measures for success, and contingency planning with a discussion of feasibility of alternative studies to ensure timely implementation. 	<ul style="list-style-type: none"> Indicated that the main limitation to the Hunter Harvest Survey (HHS) at Meadowbank was declining public participation. Noted that Agnico Eagle anticipates the limitation to be addressed through a community-lead study with Agnico Eagle's support and assistance. Noted that Agnico Eagle initiated a (HHS) committee comprised of elders, KIA, GN, Agnico Eagle, and Baker Lake HTO representatives, which held a kick-off meeting in 2017 and set objectives for the 2018 HHS. Indicated that a third-party consultant will be used to lead and develop a new HHS in time for the 2018 fall caribou migration.
<ul style="list-style-type: none"> Requested that Agnico Eagle include in their twice-yearly compliance updates to the NIRB ("Condition Tables"), a detailed summary of the consultation conducted with the Rankin Inlet Hunters and Trappers Organization, the Kivalliq Inuit Association, the Government of Nunavut, and other stakeholders to ensure progress compliance with the Project Certificate. Additionally, the Board requests that, where possible, Agnico Eagle add status updates and general timelines to the table for Conditions that are in progress. 	<ul style="list-style-type: none"> Indicated that a detailed summary of consultations with stakeholders would be included in the 2017 Annual Report.
<ul style="list-style-type: none"> Requested that Agnico Eagle provide the NIRB with a summary of employee origin information as per Conditions 93 and 101, retroactively and going forward in all Annual Reports. 	<ul style="list-style-type: none"> Noted there are currently no registered apprentices at Meliadine. Provided summaries of employee origin (23 Inuit employees, mostly from Rankin Inlet; 192 non-Inuit employees, mostly from Quebec).
<ul style="list-style-type: none"> Reminded Agnico Eagle of the requirements for secondary containment and requests that Agnico Eagle provide a plan with timelines for implementing secondary containment at the temporary fuel farm as soon as possible and until such time as this fuel farm is no longer being used. This information should be provided to the Board within 30 days' receipt of receiving the Board's recommendations. 	<ul style="list-style-type: none"> Noted that the temporary fuel farm will be decommissioned in summer 2018; fuel tanks will be removed in 2018 and remediation is expected to be completed by September 2019. Noted that secondary containment would not be implemented to expedite the decommissioning and remediation.

2.2.2.2. Compliance Achievements

The NIRB understands the Project is still in the construction phase and that 2017 was the first year in which some key management and monitoring plans will have been implemented (e.g., the Terrestrial Ecosystem Management and Monitoring Plan, the Shipping Management Plan, and project-specific Socio-Economic Monitoring), and that consequently some terms and conditions

cannot be fully achieved until additional data are gathered and until the Project fully commences the operations phase. The NIRB expects that planning, consultation, and collaboration will continue over the next year in order to finalize and refine management and monitoring plans.

[Appendix B](#) documents Agnico Eagle's compliance achievements with the Project Certificate from 2017 to 2018. During the 2017-2018 reporting period, the Proponent was successful in having met most of the requirements of the NIRB Project Certificate No. 006 applicable to the pre-construction and construction phases. However, there are several terms and conditions that the Proponent has yet to fully achieve or make progress towards achieving, specifically term and conditions: 3, 6, 8, 36, 37, 46, 48, 85, 86, 103, 113, 114, 116, 125, and 126. The Board has provided recommendations to the Proponent under separate cover.

The other area requiring improvement for subsequent annual reports is reporting in general. The NIRB appreciates the Proponent's effort to collect and share its monitoring data, but emphasizes that the data should be analyzed, and a summary and discussion of what the results mean should be included within the main annual report. As an example, a summary of the data collected through the Marine Mammal and Seabird Observer (MMSO) program is requested in order to facilitate ease of reading and understanding by all interested parties. In comments on the Proponent's 2017 Annual Report, parties similarly asked for summaries of the geotechnical inspections, the Aquatic Effects Monitoring Program, and of the site water quality data provided in Appendix E of the Annual Report (see [Section 2.3](#) below for more detailed discussion). The NIRB also notes that various issues were not reported on at all within the 2017 Annual Report, including a summary of project-related shipping for the year, the use of bird deterrents, and bird nest management and monitoring. Finally, the NIRB would also like to see additional details including summaries and outcomes of the Proponent's ongoing consultation and engagement with interested parties and the public regarding various topics including wildlife monitoring, road access management, and socioeconomic management and monitoring as required by the Project Certificate No. 006. Specific information requests have been provided in [Appendix B](#).

2.2.3. Compliance Monitoring by Regulatory Authorities

On April 10, 2018 the NIRB requested that regulatory authorities with expertise or jurisdiction at the Meliadine Gold Mine Project to provide a summary of any compliance monitoring and/or site inspections undertaken in association with the Project, including specifically:

- i. Identify the terms and conditions from the Project Certificate which have been incorporated into any permits, certificates, licenses or other approvals issued for the Project, where applicable;
- ii. A summary of any inspections conducted during the 2017 reporting period, and the results of these inspections; and
- iii. A summary of Agnico Eagle's compliance status with regard to authorizations that have been issued for the Project.

The following is a summary of comments received by parties on or before May 18, 2018:

2.2.3.1. Kivalliq Inuit Association

- Recommended that Agnico Eagle provide a summary of the actions implemented to address issues identified by Indigenous and Northern Affairs Canada's (INAC; now Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC)) site inspections, as well as additional detail on the implementation of actions recommended by the Government of Nunavut (GN) during its site visit. Agnico Eagle provided details in its response to comments on July 6, 2018.

2.2.3.2. Canadian Northern Economic Development Agency (on behalf of multiple federal departments)

- Natural Resources Canada (NRCan) renewed the explosive manufacturing licence issued to Dyno Nobel Canada Inc. for the emulsion plant and the Ammonium Nitrate Fuel Oil (ANFO) plant at the mine site, which are subject to the *Explosives Act* and Regulations. NRCan did not inspect the facilities in 2017.

2.2.3.3. Environment and Climate Change Canada (ECCC)

- Completed an on-site inspection in August 2017 to verify compliance under the *Canadian Environmental Protection Act (Interprovincial Movement of Hazardous Waste Regulations, Environmental Emergency Regulations, and National Pollutant Release Inventory)* and the *Fisheries Act (Metal Mining Effluent Regulations and the general prohibitions)*.
- Conducted five (5) offsite inspections and reviewed the Proponent's quarterly reports and annual report for final discharge.
- No compliance issues were identified.
- Has not issued any permits or authorizations for the Meliadine Gold Mine.

2.2.3.4. Indigenous and Northern Affairs Canada

- Has not issued any land use permits for the Meliadine Gold Mine.
- Conducted several on-site inspections in 2017 to assess compliance with terms and conditions in the Proponent's water licences; provided a table to cross reference these with the NIRB Project Certificate for the Project.
- Issued several required actions and two (2) written warnings related to diesel fuel spills, exceedances of effluent quality limits from the exploration Sewage Treatment Plant, and elevated Total Dissolved Solids in Collection Pond 1, but was generally satisfied with Agnico Eagle's response to concerns.

2.3. EFFECTS MONITORING

Effects monitoring can be described as an assessment of the measurable change to a particular environmental or socio-economic component, as compared to the potential effects that were predicted to result from a proposed development. In the case of Meliadine, impact predictions and mitigation measures were outlined and developed throughout the environmental review of

the Project and were recorded and presented through the Proponent's Final FEIS and other related documents.

On April 10, 2018 the NIRB also requested that regulatory authorities with expertise or jurisdiction at the Meliadine Gold Mine Project provide comments and information with respect to effects monitoring for the 2017 reporting period. Specifically:

- a) Whether the conclusions reached by Agnico Eagle in its 2017 Annual Report are valid;
- b) Whether there are any areas of significance requiring further supporting information.

Tables 1 through 4 contain a summary of comments received by parties on or before May 18, 2018 and Agnico Eagle's responses from July 6, 2018.

Table 2 Summary of Comments from the Kivalliq Inuit Association (KIA) on Agnico Eagle's 2017 Annual Monitoring Report, and responses from the Proponent

<u>KIA RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<i>General</i>	
<ul style="list-style-type: none"> ▪ Produce a single comprehensive report for the Nunavut Water Board, NIRB, Fisheries and Oceans Canada, INAC and Kivalliq Inuit Association that satisfies reporting requirements of all authorizations. 	<ul style="list-style-type: none"> ▪ Will consider this recommendation for future annual reports.
<ul style="list-style-type: none"> ▪ Requested that document control pages of each plan, report or manual are filled out completely and that specific reasons for the revision are provided and that all authors are identified. 	<ul style="list-style-type: none"> ▪ Agreed to include this in all subsequent management plan revisions.
<ul style="list-style-type: none"> ▪ Provide a map of all activities undertaken during the reporting year. 	<ul style="list-style-type: none"> ▪ Provided a schematic drawing of 2017 site infrastructure ▪ Noted a map of the activities undertaken in 2018 will be included in next year's annual report.
<i>Noise Monitoring</i>	
<ul style="list-style-type: none"> ▪ Provide a more thorough review of potential reasons for the higher than predicted noise at station NPOR006. 	<ul style="list-style-type: none"> ▪ Committed to review construction activities near where the exceedance occurred; expects that locations of certain infrastructure or timing of activities may have changed from the scenario modeled in the FEIS. ▪ Noted that although noise levels were higher than predicted, the noise monitoring criteria was only marginally exceeded during one monitoring event, and there been no noise complaints.
<ul style="list-style-type: none"> ▪ Requested that details be provided in the Annual Report on how the noise monitoring program will be adjusted to determine the contribution of noise from external activities or locations (i.e., the nearby cabin). 	<ul style="list-style-type: none"> ▪ Noted that monitoring would continue in 2018 to determine if elevated noise levels in this location are sustained; in order to better distinguish mine-related noise from the cabin, analysis will only include data from when the cabin is unoccupied; and if required, the monitoring station may be moved.

<u>KIA RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none"> Requested explanation for lack of noise monitoring at least 1.5 km from the site and recommend that at least one monitoring location at least 1.5 km away be added. 	<ul style="list-style-type: none"> Committed to add a noise monitoring location at 1.5 km away in the event that exceedances are anticipated based on nighttime noise levels at the existing stations but suggested that a supplemental monitoring station is not warranted at this time because only one exceedance has occurred to date and this was at 1 km from the mine site.
<i>Geotechnical and Permafrost Monitoring</i>	
<ul style="list-style-type: none"> Requested a summary in the annual report of the main findings and recommendations of the geotechnical inspection, as well as of Agnico Eagle's responses to the geotechnical inspection. 	<ul style="list-style-type: none"> Provided a summary of the main findings and recommendations from the geotechnical inspection with the responses.
<ul style="list-style-type: none"> Provide a summary of the thermistor data in the annual report text, including interpretation of temperature profiles. 	<ul style="list-style-type: none"> Noted interpretation of thermistor data would be provided in its next annual report.
<i>Geochemical Monitoring</i>	
<ul style="list-style-type: none"> Quantify the amount of rock tested and characterized as non-potentially acid generated (NPAG) and potentially acid generating (PAG) and note the source of rocks tested. Provide a summary be provided of the proportion of PAG, NPAG, and uncertain rock. Requested a description of the how results of the waste rock designation modify waste rock management. Requested that Agnico Eagle indicate if there were signs of acid drainage in seeps from this rock pile. Provide a comparison of its results with the FEIS predictions and an explanation of how it re-evaluated rock disposal practices. 	<ul style="list-style-type: none"> Identified that 36 waste rock samples were collected from underground development activities and included 24 volcanic samples, 9 sedimentary, and 3 iron formation samples. Noted that all rocks collected were NPAG, in-line with expectations; added that baseline geochemical surveys identified low potential for acid rock drainage (ARD) generation in all deposits except the Discovery Zone. Concluded that no changes to the management plan are required. Confirmed that ARD has not been detected anywhere on site, noting that all waste rock is currently being used for construction activities and no long-term storage facilities have been built yet.
<i>Surface Water Quality and Freshwater Aquatic Monitoring</i>	
<ul style="list-style-type: none"> Requested additional detail regarding the site water quality monitoring data provided (map of locations, sampling calendar, description of parameters, legend in tables) and a summary of results with interpretation /discussion of results provided within the annual report. 	<ul style="list-style-type: none"> Provided a map with water sampling locations Noted it would provide additional clarifying detail in next year's Annual Report Provided some additional interpretation with regards to the sample stations monitored in 2017.

<u>KIA RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none"> Requested that it be specified in the Aquatic Effects Monitoring Program (AEMP) report when the “pre-construction” and “construction” phases occurred; recommended that water and sediment quality normal ranges avoid use of data collected during construction, and that summary statistics clearly distinguish between the phases. 	<ul style="list-style-type: none"> Summarized that the pre-construction phase was January 2015 through June 2017, and the construction phase was initiated in July 2017 for the Near-Field exposure area in Meliadine Lake, while the construction phase for the Mid-Field and Far-Field exposure areas will be initiated in 2018. Agreed to re-categorize near-field samples collection during open-water conditions in 2017 as from the Construction Phase and to recalculate statistics accordingly in the next annual report. Committed to review water quality data from 1997, 1998, and 2008 to determine if they should be included in the calculation of normal ranges of open-water and under-ice conditions in Meliadine Lake. Provided recalculated sediment quality normal ranges as requested to include baseline data from 1998, 2008 and 2013 only.
<ul style="list-style-type: none"> Indicate what proportion quality control samples comprise of the entire sample program, and how results of the QAQC program influence future analysis. 	<ul style="list-style-type: none"> Noted that approximately 19% of water quality samples collected in 2017 were QC samples and indicated that no changes to the QA/QC protocol are required at this time.
<ul style="list-style-type: none"> Regarding reported pH exceedances in the AEMP, requested that the range in pH include values above or below guideline values to improve understanding of the exceedance. Also requested the locations of and possible explanations for exceedances be provided, and that it be specified if specific conductance or conductivity were measured. 	<ul style="list-style-type: none"> Clarified that the pH in 8% of samples collected between 2015 and 2017 were below the Canadian Water Quality Guidelines, while 40% were below the Health Canada Drinking Water Quality Guidelines, and that results were presented as specific conductance. Noted locations of pH exceedances were provided in the 2017 annual report; suggested that observed pH values reflect natural pH variability in Meliadine Lake.
<ul style="list-style-type: none"> Water quality results should be compared to FEIS predictions with discussion. 	<ul style="list-style-type: none"> Emphasized that the 2017 AEMP report focused on analyzing baseline conditions from 2015 to 2017, and that in 2018 the AEMP will be refined with benchmarks to support action levels as part of a response framework; data collected in 2018 will be compared to these action levels and further discussed as appropriate.
<ul style="list-style-type: none"> Due to observations of nutrient enrichment, KIA recommended investigating contributing factors, identifying mitigation, and increased monitoring. Also noted that periphyton should be added to the aquatic monitoring response framework for nutrient enrichment, and that all sites should be sampled under ice. 	<ul style="list-style-type: none"> Noted that additional sampling (of surface water, phytoplankton, and benthic invertebrates) will occur in 2018 to confirm nutrient enrichment; and a response plan will be developed for the next annual report depending on results – this could include under-ice sampling.
<ul style="list-style-type: none"> Recommended consistent timing of fish sample collections and standardized sampling effort to enable interpretation of data. Provide an explanation of how fish parasites will influence interpretation of fish health. 	<ul style="list-style-type: none"> Agreed to sample fish within the same year and with a standardized sampling effort in the future. Described how parasite presence or absence in fish will be considered in data analysis.

<u>KIA RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none"> Provide documentation in the annual report that the authorization officer was notified of alternate fish survey methods to demonstrate compliance with the Metal Mining Effluent Regulations monitoring. 	<ul style="list-style-type: none"> Confirmed that a study design was submitted to the authorization officer in 2017 and noted that if a change is required in 2018, the officer will be notified without delay.
<ul style="list-style-type: none"> Include 2015-2017 water quality data from the "P-Area" contact water ponds to illustrate if management initiatives have been successful in maintaining and reducing concentrations of chloride and ammonia in runoff, but that a discussion be provided on any concerns relating to merging data from multiple laboratories. 	<ul style="list-style-type: none"> Provided graphs showing all data from 2015 to 2017, demonstrating no significant increases in chloride and ammonia at any location.
<ul style="list-style-type: none"> Recommended total ammonia concentrations be converted to unionized ammonia concentrations. 	<ul style="list-style-type: none"> Noted that one lab used ionized ammonia and another unionized, and that going forward a laboratory has been chosen that will provide consistent and complete datasets.
<ul style="list-style-type: none"> Requested time frames be specified when reporting chloride concentrations. 	<ul style="list-style-type: none"> Agreed to apply specific dates to any changes observed in trends, where applicable.
<ul style="list-style-type: none"> Recommended temperature and pH measured at the same time as water quality sample collection should be used when calculating unionized ammonia concentrations. 	<ul style="list-style-type: none"> Commented that in-situ temperature and pH values have been applied to calculate unionized ammonia, but some field sampling omissions will be discussed.
<i>Terrestrial Effects Monitoring and Mitigation Program (TEMMP)</i>	
<ul style="list-style-type: none"> Requested a summary of wildlife sightings in 2017 including problematic interactions, results of AWAR surveys, caribou migration and related operational shut downs, aerial observations, and on site audits. 	<ul style="list-style-type: none"> Provided a summary of wildlife sightings for 2017 and information regarding operational shutdowns during caribou migration
<ul style="list-style-type: none"> Requested that the TEMMP be provided as an appendix to the annual report with a summary in the main report. 	<ul style="list-style-type: none"> Agreed to provide a summary of the main findings of the TEMMP in the next annual report.
<i>Marine Monitoring</i>	
<ul style="list-style-type: none"> Requested an explanation of the Marine Mammal and Seabird Observer (MMSO) protocol with a summary and interpretation of findings for 2017 	<ul style="list-style-type: none"> Referred to the MMSO protocol summarized in the Shipping Management Plan. Indicated that effects of shipping on marine wildlife are difficult to interpret due to limited data at this time.
<i>Socio-Economic Monitoring</i>	
<ul style="list-style-type: none"> Requested that the Archaeological Impact Assessment and Mitigation Report be provided as an appendix to the annual report with a summary in the main report. 	<ul style="list-style-type: none"> Confirmed that the Archaeological Impact Assessment and Mitigation Report was provided as an appendix in the main report, and included an executive summary, which Agnico Eagle included in its response to the KIA.
<ul style="list-style-type: none"> Requested additional information on the content each consultation listed as an appendix in the annual report, as well as outcomes of each meeting in the main text of the annual report. 	<ul style="list-style-type: none"> Agreed to provide more detail in next year's annual report.

Table 3 Summary of Comments from the Government of Nunavut (GN) on Agnico Eagle's 2017 Annual Monitoring Report, and responses from the Proponent

<u>GN RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<i>Terrestrial Effects Monitoring and Mitigation Program (TEMMP)</i>	
<ul style="list-style-type: none"> Expressed concern with the Proponent's use of outdated data and misanalysis of data in the Terrestrial Effects Monitoring and Mitigation Program (TEMMP) report; referenced terms and conditions #43, #44, #45, and #47. Update the annual report and monitoring practices to reflect the confirmation that the Project lays within the annual range of the Qamanirjuaq caribou herd. Update the annual report using up-to-date GN telemetry data to reflect that the Lorillard caribou herd is migratory. Incorporate the latest GN Qamanirjuaq herd range data into their annual reporting and TEMMP. Update the annual reporting and TEMMP to reflect the Project's true distance from the Qamanirjuaq caribou herd core calving grounds. Update the annual report to reflect that only a portion of the Qamanirjuaq herd moves eastward post-calving. Recommended that additional methodological details be provided regarding the Proponent's ground-based monitoring for caribou. 	<ul style="list-style-type: none"> Expressed appreciation for the comments and noted the GN's concerns will be addressed in the next version of the Annual Report. Will require data from the GN to complete the annual report and the TEMMP.
<i>Air Quality Monitoring</i>	
<ul style="list-style-type: none"> Expressed concern that incinerator stack testing was not performed in 2017 as this leaves a significant data gap for the monitoring of onsite air quality (terms and conditions #4 and #5). Recommended that when stack testing is not performed, ash should be analyzed to ensure operation of the newly installed incinerator meets emission standards. 	<ul style="list-style-type: none"> Indicated that quarterly ash samples have been conducted in 2018. Noted that stack testing of the new incinerator is planned for September.
<ul style="list-style-type: none"> Noted that the traffic levels reported by the Proponent do not differentiate between public and Proponent vehicle use, which makes it difficult to assess and manage dust generation and project-related greenhouse gas emissions (terms and conditions #3 and #7). Requested that the Proponent differentiate between public and project-related traffic. 	<ul style="list-style-type: none"> Noted that with the exception ATVs, no public traffic is currently permitted along the AWAR. Noted that all ATV traffic was documented separately in the provided logs.
<i>Socio-Economic Monitoring</i>	
<ul style="list-style-type: none"> Noted that the Proponent has complied with term and condition #107 and has submitted weekly (during freshet) Bridge Inspections Reports to the GN – Department of Culture and Heritage since 2014 and no accidents have been reported. 	<ul style="list-style-type: none"> Confirmed that Agnico Eagle has submitted the bridge inspection reports since 2015 up to 2018.

Table 4 Summary of Comments from Environment and Climate Change Canada (ECCC) on Agnico Eagle's 2017 Annual Monitoring Report, and responses from the Proponent

<u>ECCC RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<i>Surface Water Quality and Freshwater Aquatic Monitoring</i>	
<ul style="list-style-type: none"> Identified table with missing units within the Tabular Summary of Water Quality Data (Appendix E of the Annual Report). Recommended that units be provided for all parameters. 	<ul style="list-style-type: none"> Provided units for the specific table. Indicated subsequent annual reports will include all units.
<ul style="list-style-type: none"> Noted that conclusions of the Aquatic Effects Management Plan appear to be valid and no areas require further information. 	<ul style="list-style-type: none"> N/A
<ul style="list-style-type: none"> Update the Groundwater Management Plan to clarify that criteria for discharge into Meliadine Lake include MMER guidelines as well as water licence limits, and that the SSWQO are to be met at the edge of a mixing zone in Meliadine Lake. 	<ul style="list-style-type: none"> Noted these comments will be included in the subsequent revision of the Groundwater Management Plan.
<ul style="list-style-type: none"> Identified missing figures from the Water Management Plan - Freshet Action Plan 	<ul style="list-style-type: none"> Provided an updated Water Management Plan with figures.
<ul style="list-style-type: none"> Noted that Agnico Eagle referenced its Freshet Action Plan as fulfilling terms and conditions #28 and #32 related to erosion and sedimentation control but observed that the Plan has few direct references to erosion control. Recommended that gaps be addressed more explicitly. 	<ul style="list-style-type: none"> An erosion and sediment control (ESC) plan will be developed as an addendum to the Freshet Action Plan, and submitted with the next annual report Until the ESC plan is developed, best management practices and mitigation [examples provided] will be implemented and daily to weekly inspections of erosion and sediment control measures and watercourses will be completed by staff.
<i>Marine Monitoring</i>	
<ul style="list-style-type: none"> Indicated that instructions included on the Marine Mammal and Seabird Observer (MMSO) program datasheets are inconsistent with standardized protocols and provided recommended timing / protocols Provide a copy of the MMSO data and noted that ECCC has an existing database to facilitate data entry and data sharing. 	<ul style="list-style-type: none"> Provided copies of the data recorded during MMSO surveys in Appendix I of the annual report and noted it will contact ECCC to facilitate data entry and sharing.
<i>Bird and Bird Habitat Monitoring</i>	
<ul style="list-style-type: none"> Recommended that the Harlequin Duck (Eastern population) be added to the species at risk that may interact with shipping activities in the marine RSA. 	<ul style="list-style-type: none"> Added Harlequin Duck to the list species at risk and provided an updated Shipping Management Plan.
<ul style="list-style-type: none"> Noted that ECCC should be included in the list of authorities to report incidents and mortalities when migratory birds are involved. 	<ul style="list-style-type: none"> n/a

<u>ECCC RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none"> Expressed concern with the late timing of point count and PRISM surveys for shorebirds on site. Recommended that the Proponent plan future surveys appropriately (earlier in the summer) to capture breeding activity. 	<ul style="list-style-type: none"> Noted that dates were modified for the 2018 bird surveys; which were completed the third week of June. Agnico Eagle's consultant believes that this year's bird survey had significant overlap with the breeding season.
<ul style="list-style-type: none"> Recommended that the Proponent identify mitigation measures that will be used to deter birds from the landfarm, as landfarms are subject to ponding water typically containing contaminants. 	<ul style="list-style-type: none"> Noted that the landfarm sump is a temporary water collection area that will not hold water for an extended period due to the provision to treat water in-situ and to transfer the treated water to CP1. Other higher risk areas on site have been prioritized for the use of bird deterrent canons.

Table 5 Summary of Comments from Indigenous and Northern Affairs Canada (INAC) on Agnico Eagle's 2017 Annual Monitoring Report, and responses from the Proponent

<u>INAC RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<i>Geochemical Monitoring</i>	
<ul style="list-style-type: none"> Noted the information provided regarding geochemical monitoring and ML/ARD testing was not satisfactory as no supporting analysis was provided. Recommended future annual reports include a discussion of conclusions and supporting analysis for its interpretations, in addition to the summary of results. 	<ul style="list-style-type: none"> Noted it will provide a more detailed analysis of geochemical results in subsequent annual reports. <i>Refer to the KIA ML/ARD comment section for more details.</i>
<i>Geotechnical and Permafrost Monitoring</i>	
<ul style="list-style-type: none"> Noted that the Proponent did not provide an executive summary of geotechnical and permafrost monitoring in the annual report, despite its response from last year that it would. Noted that the responses provided to geotechnical recommendations were insufficiently detailed. Develop a tracking table to capture geotechnical recommendations and track progress on the implementation of recommendations, which would be carried forward year-over-year. 	<ul style="list-style-type: none"> Attached recommendations in the Geotechnical Inspection Report and Agnico Eagle's responses. Noted it will include an executive summary in the 2018 Annual Geotechnical Inspection Report. Noted that Agnico Eagle hired a dedicated geotechnical engineer at Meliadine, to start July 2018, who will address the geotechnical recommendations, develop the tracking tool, assess priorities and address high priority items during summer 2018.
<i>Surface Water Quality and Freshwater Aquatic Monitoring</i>	
<ul style="list-style-type: none"> Reiterated a recommendation from the previous year that more information on water quality sampling as well as adequate summaries of analytical results and interpretations be provided within the annual report on top of the analytical laboratory results and recommended that the discussion link to specific commitments or terms and conditions of the project certificate, where applicable. 	<ul style="list-style-type: none"> Noted that interpretation was not provided at sampling stations where little discharge occurred as no or few samples were taken. Provided graphs and/or summary of results for other stations.

<u>INAC RECOMMENDATION</u>	<u>AGNICO EAGLE'S RESPONSE</u>
<ul style="list-style-type: none"> Reiterated a recommendation from the previous year that the annual report include a summary of the relevant results of the AEMP, including conclusions and supporting analysis for its interpretations, and recommended the discussion link to specific commitments or terms and conditions of the project certificate, where applicable 	<ul style="list-style-type: none"> Expressed its opinion that the Executive Summary provides a good summary of main results and conclusions, but in future will consider adding a summary of the AEMP discussion to the annual report.
<i>Socio-Economic Monitoring</i>	
<ul style="list-style-type: none"> Noted insufficient detail and apparent effort in consultation and engagement activities. Provide additional detail as to how Agnico Eagle has, or how it plans to consult with the Kangiqliniq Hunters and Trappers Organization and engage with Elders and community members on its monitoring plans, programs, and mitigative measures (re: term and condition #103) Provide information on how Agnico Eagle has or plans to consult with the Government of Nunavut – Nunavut Housing Corporation (NHC) when developing programs relating to financial literacy and planning (re: term and condition #114). Noted it is willing and available to work with the Proponent on these issues through the Kivalliq Socio-Economic Monitoring Committee and the project-specific Socio-Economic Monitoring Working Group. 	<ul style="list-style-type: none"> Recognized the importance of consulting and collaborating with local Hunters and Trappers Organizations. Noted that through 2017-2018, Agnico Eagle has attempted to engage with the Kangiqliniq HTO close to 30 times and will continue attempts. Indicated that in 2017 Agnico Eagle hired a full-time additional community liaison resource whose focus is engaging wildlife organizations and facilitating consultation. Provided additional information on engagement with Elders and community members in 2017 to receive feedback on monitoring plans, programs, and mitigative measures. Noted that in 2018, Agnico Eagle plans to continue to engage with Elders specifically through the Rankin Inlet Community Liaison Committee, the IIBA Meliadine On-Site Working Group, and through the Inuit Workforce Barriers Study and the Socio-Economic Inuit Impact and Benefit Review Reported that Agnico Eagle met with the Nunavut Housing Corporation (NHC) in September 2017 to discuss terms and conditions #100, #112, #113, and #114. Indicated that Work Readiness materials and information related to rent deduction programs was provided to the NHC, and that NHC was assembling information packages to include in the Work Readiness programs, and Agnico Eagle looks forward to receiving guidance from NHC on its voluntary survey for Nunavummiut employees. Noted that Agnico Eagle continues to work in partnership with organizations to provide financial literacy information to employees and communities and held financial literacy sessions and Retirement Planning information sessions at Meliadine, Meadowbank, and in Baker Lake.

2.4. SITE VISIT

The NIRB conducted its site visit on August 17, 2018 and a complete site visit report can be found in [Appendix A](#). NIRB staff observed a busy site with considerable construction activity underway. Details provided by Agnico Eagle during the NIRB's monitoring visit, as well as follow-up correspondence, provided the NIRB with information regarding the company's ongoing efforts to ensure compliance with the Project Certificate and minimize impacts to the environment. Based on the observations made during this site visit, Agnico Eagle generally appears in compliance with terms and conditions of the Meliadine Gold Mine Project Certificate and the associated AWAR Phase I Exception. However, similar to last year, dust management along the AWAR continues to be a concern, and additional or more frequent dust suppression is needed. Another major concern that was noted last year and again this year is the lack of secondary containment at the temporary fuel tank farm/temporary landfarm near the exploration site; however as Agnico Eagle plans to decommission the site in the near future this should resolve the issue. The NIRB staff note that lessons learned at Meadowbank could also be applied to the Meliadine site, especially in avoiding fuel spills as have been reported as many of the growing pains observed at Meadowbank can be avoided by applying the lessons learned. Finally, as a safety concern, Agnico Eagle should consider developing the ATV/snowmobile trail that would bypass the AWAR as it was noted during the site visit that not all community members sign-in when they go by the gatehouse.

3.0 FINDINGS

As noted in [Section 1.0](#), the objectives of the NIRB's monitoring programs are:

- (a) Measure the relevant effects of projects on the ecosystemic and socio-economic environments of the Nunavut Settlement Area;*
- (b) Determine whether, and to what extent, the land or resource use in question is being carried out within the predetermined terms and conditions;*
- (c) Provide the information base necessary for agencies to enforce terms and conditions of land or resource use approvals; and*
- (d) Assess the accuracy of predictions contained in the project impact statements.*

During the 2017-2018 monitoring period, Agnico Eagle demonstrated compliance with the majority of the applicable requirements of the Project Certificate of the Meliadine Gold Mine Project. Further, Agnico Eagle is generally meeting the objectives of monitoring and mitigation plans and procedures put in place for the projects. However, certain outstanding issues will require the Proponent's attention as discussed throughout this report with the main issues identified in this monitoring period as follows:

1. Lack of achievement or progress towards achieving of the following term and conditions: 3, 6, 8, 36, 37, 46, 48, 85, 86, 103, 113, 114, 116, 125, and 126
2. Ineffective dust control along the AWAR;
3. Ineffective application of the road management plan and public awareness of the importance of the rules of the road;

4. Inadequate reporting to the NIRB regarding the development of various programs and monitoring plans, and in particular, a lack of reporting regarding consultation and collaboration activities with the public and other key stakeholders in developing those programs and plans (including those related to road access and the hunter harvest survey); and
5. Lack of incorporation of lessons learned from Agnico Eagle's other mine sites.

Recommendations to address the above concerns have been provided to Agnico Eagle under separate cover.

Drafted by: Shanley Thompson
Title: Technical Advisor II

Finalized by: Kelli Gillard, B.Sc., PAg
Date: November 6, 2018
Signature:



Reviewed by: Sophia Granchinho
Title: Manager, Impact Assessment
Date: November 6, 2018
Signature:



4.0 REFERENCES

NIRB (Nunavut Impact Review Board). 2017. *The Nunavut Impact Review Board's 2016-2017 Annual Monitoring Report for the Meliadine Gold Project and Board's Recommendations*. Prepared by the Nunavut Impact Review Board for the Meliadine Gold Mine Project. November 2017.

Appendix A The NIRB's 2018 Meliadine Site Visit Report

Report Title: The Nunavut Impact Review Board's 2018 Site Visit Report for Agnico Eagle Mines Limited's Meliadine Gold Mine Project (NIRB File No. 11MN034)

Project: Meliadine Gold Mine Project
Project Location: Kivalliq Region, Nunavut
Land Tenure: Inuit Owned Land

Project Owner: Agnico Eagle Mines Limited
Proponent Contact: Dan Gorton
Telephone: (819) 759-3555, ext. 3996
Address: 93 Rue Arseneault
Val d'Or, QC
J9P 0E0

Visit conducted by: Mia Otokiak, Junior Technical Advisor
Sophia Granchinho, Manager, Impact Assessment

Site visit date: August 17, 2018
Last site visit: August 22, 2017

Monitoring period: October 1, 2017 – September 30, 2018

Report prepared by: Mia Otokiak
Sophia Granchinho

Photographs by: Sophia Granchinho & Mia Otokiak

Cover Photograph: Exploration Camp

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1 INTRODUCTION

1.1 Monitoring Objectives

The Nunavut Impact Review Board (NIRB or Board) was established through Articles 10 and 12 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)* and is responsible for the assessment of ecosystemic and socio-economic impacts of projects in the Nunavut Settlement Area pursuant to the *Nunavut Agreement*. The NIRB is responsible for post environmental assessment monitoring of projects in accordance with Part 7 of Article 12 of the *Nunavut Agreement*.

On February 26, 2015 pursuant to Section 12.5.12 of the Nunavut Agreement, the NIRB issued Project Certificate No. 006 (the Project Certificate) to Agnico Eagle Mines Ltd. (Agnico Eagle, or Proponent) for the Meliadine Gold Project (the Project), allowing the Project to proceed in accordance with the Terms and Conditions issued therein. As per Section 12.7.2, the NIRB is responsible for the project monitoring in order to:

- a. measure the relevant effects of projects on the ecosystemic and socio-economic environments of the Nunavut Settlement Area;
- b. determine whether, and to what extent, the land or resource use in question is being carried out within the predetermined terms and conditions;
- c. provide the information base necessary for agencies to enforce terms and conditions of land or resource use approvals; and
- d. assess the accuracy of predictions contained in the project impact statements.

This report provides the findings that resulted from the NIRB's site visit to the Meliadine Project site on August 17, 2018.

1.2 Meliadine Gold Mine Project Overview

The Meliadine Gold project involves mining in the Kivalliq Region, approximately 25 kilometres (km) north of Rankin Inlet. There are five (5) separate deposits that the Proponent plans to develop in a phased approach. Phase 1 is focused on the Tiriganiaq deposit, which will include two (2) open-pit, and one (1) underground mines. The project will use existing and new infrastructure at Itivia Harbour in the Hamlet of Rankin Inlet, and a controlled access all-weather road (AWAR) leading from Itivia to the mine site. This AWAR was approved as an exception to the Meliadine Gold Mine Project in February 2012, and constructed in 2013. A bypass road currently in the final stages of construction from Itivia to the AWAR would allow mine-related traffic from Itivia to bypass the community before joining up with the AWAR. The AWAR will be opened to all public traffic for Phase 2 of the project in 2024 when the Proponent begins developing the Discovery deposit, just to the east.

The Meliadine Gold Mine Project is currently in its final year of construction, with operations scheduled to begin in 2019.

2 SITE VISIT SUMMARY

The NIRB site visit was conducted on August 17, 2018 by Sophia Granchinho, Manager, Impact Assessment and Mia Otokiak, Junior Technical Advisor. The site visit started in Rankin Inlet where the NIRB staff were greeted by Mr. Dan Gorton, Environmental Coordinator and Mr. Martin Theriault, Compliance Counselor with Agnico Eagle. The tour included viewing the following:

- The Itivia site including the fuel tank farm, the laydown area and future saline discharge area;
- Driving the temporary bypass road connecting Itivia to the AWAR with a stop at the snowmobile crossing;
- Driving the AWAR with stops at the gatehouse, bridges, dustfall monitoring stations, and other sites of interest; and
- The exploration site, the exploration fuel tankfarm and old landfarm, and the mine site and infrastructure including the saline water pond, the permanent camp, the fuel tank farms, the landfarm, the landfill and waste management areas, entrances to both portals, the saline evaporators, and a laydown area with seacans with materials to be shipped out on the barge.

Wildlife observed during the site visit included geese, sik-sik (ground squirrel), tundra swans, ducks, and a Peregrine Falcon with most of the wildlife observed along the AWAR. Agnico Eagle also stated that wildlife such as caribou and arctic fox have been observed around site throughout the year and that the site was shut down for several weeks during the July month when the caribou migrated through the area. Agnico Eagle staff noted that they are working closely with the Government of Nunavut, Department of Environment to ensure that the mine site does not attract wildlife but remarked that during construction it is more difficult to train personal on site as several contracting companies are on site for the construction phase.

2.1 Itivia Harbour

The Itivia Harbour site consists of a beach area with a gravel ramp, a quarry, a laydown area for seacan storage, a tank farm and a snowmobile crossing for the community. Container ships anchor just inside or just outside of Melvin Bay and dry cargo will be transported to shore on tug-barges then lightered to shore using the gravel ramp in Itivia harbour. Agnico Eagle had originally proposed to lighter cargo to shore from a spud barge but currently uses the existing gravel ramp instead. This ramp is also currently used by the Hamlet of Rankin Inlet during the annual sealift (see [Figure 1](#)).

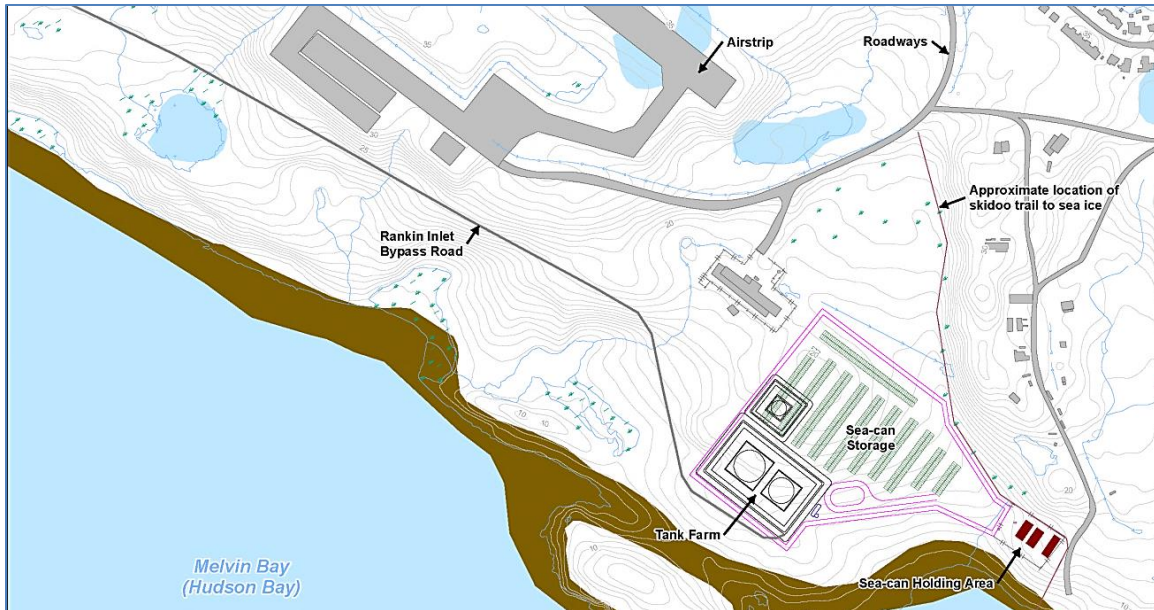


Figure 1. Overview of the Itivia site, bypass road, and community snowmobile trail. Source: Agnico Eagle's Roads Management Plan for Meliadine (March 2017).

The NIRB and Agnico Eagle staff drove to the Itivia site and observed the fuel tank farm and two completed fuel tanks, the laydown area, the gravel ramp, the seacan wall separating the community public dock access and the Agnico Eagle area, and the community snowmobile crossing (see [Photo 1](#) through [3](#)).

NIRB staff noted concern regarding the lack of wildlife deterrents at the Itivia site. In follow-up correspondence Agnico Eagle staff indicated that they plan to purchase deterrents to avoid wildlife problems, similar to what Agnico Eagle uses at the Meadowbank Gold Mine near Baker Lake (NIRB File No. 03MN107).



Photo 1. Seacan wall at Itivia separating public and private areas.



Photo 2. Fuel Tank Farm at Itivia Harbour with no visible sheen.

Ms. Granchinho requested an update on the invasive species inspections for equipment shipped to Rankin Inlet and whether this has commenced as per Term and Condition 36 of the Project Certificate. Agnico Eagle staff commented that they currently have no formal process in place for inspection or cleaning of equipment for invasive species but will look into it.

The snowmobile crossing within Agnico Eagles Itivia area was also inspected and appeared to be in good repair.



Figure 4. Barge dock shared by both AEM and the community.

During the 2017 NIRB site visit, Ms. Thompson had observed several old and empty fuel barrels near the snowmobile crossing at Itivia. During the 2018 site visit it was noted that the empty fuel barrels were removed and placed into appropriate storage for disposal.

Overall, the Itivia Harbour site was busy with equipment being moved around and preparation for another barge to be arriving with additional equipment for offloading (see [Photo 3](#) and [Photo 4](#)).



Photo 3. Barge dock shared by both AEM and the community.



Photo 4. Seacans being organized for future barge deliveries

2.2 Bypass Road

The bypass road which is intended to connect Itivia Harbour with the AWAR to reduce/eliminate mine traffic from going through the Hamlet of Rankin Inlet. However, until the bypass road is complete, mine-related traffic is using a temporary route from Itivia Harbour to the AWAR through the community of Rankin Inlet (see [Figure 2](#)).

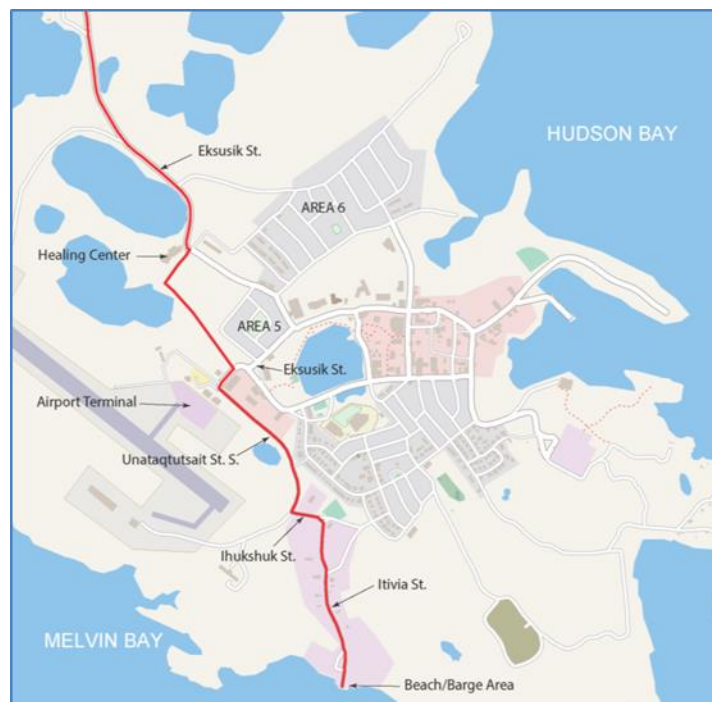


Figure 2. Temporary route linking Itivia to the Meliadine All-Weather Access Road. Available from <http://aemnunavut.ca/community/itivia-project/>

Construction of the bypass road began in late summer 2017 and was still under construction during the site visit. Agnico Eagle staff stated that it would be completed by October 2018. NIRB and Agnico Eagle staff drove on the bypass road to view one of the snowmobile crossings and noted that the slopes would need to be improved in order for snowmobiles to be able to cross (see [Photo 5](#) and [Photo 6](#))



Photo 5. Bypass road at Itivia under construction.



Photo 6. Slope for snowmobile crossing at bypass road.

2.3 All-Weather Access Road (AWAR) – Phase 1

The AWAR – Phase 1 is a 25 km long road which is intended to connect the main mine site with the almost complete bypass road. Two (2) gatehouses are present along the AWAR and the gatehouse closest to the mine tracks all mine-related traffic entering and leaving the site, while the gatehouse near the community of Rankin Inlet maintains a log of mine related traffic and passing all-terrain vehicles (ATVs) (see [Photo 7](#)). Drivers of ATVs are required to sign in and out and are asked where they are heading and how far they are planning to travel up the AWAR for safety reasons.

While stopping at the gatehouse nearest to Rankin Inlet, the NIRB staff observed an ATV passing the gatehouse without signing in. The person manning the gatehouse stated that this person ‘does it all the time’, even though the person knows that they are required to sign-in. Mr. Theriault contacted site security to inform them and site that an ATV might be travelling through the mine site and that this person would likely require an escort through the mine site.

The NIRB staff requested an update on the plan to build a dedicated ATV/snowmobile connection trail during the site visit and Agnico Eagle staff commented that this trail may not be constructed as only one family travels on the AWAR to access their cabin on the other side of the mine. Minimal mine and public traffic were observed on the AWAR during the site visit.



Photo 7. Gatehouse closest to the community of Rankin.

Dustfall monitoring stations were observed along the AWAR (see [Photo 8](#)). There were discussions between NIRB and Agnico Eagle staff during the site visit on types of dust suppressants used by Agnico Eagle. Although NIRB staff were informed that dust suppressants (e.g., DustStop® Municipality) applications occurred during the summer months and prior to the site visit; vehicles were observed producing dust along the road. Further, Ms. Granchinho inquired why Agnico Eagle used different collection methods for dust monitoring than for the Meadowbank Gold Mine and Agnico Eagle staff stated different consultants are utilized for the two projects.



Photo 8. A dustfall monitoring station along the AWAR.

2.4 Mine and camp infrastructure

Since 2017 at the Tiriganiaq mine site Agnico Eagle has completed the 350 person permanent camp, landfill, incinerator, and fuel tank farm. While at site, NIRB staff noted that the 200 person exploration camp continued to be used (see [Photo 9](#) and [Photo 10](#)).



Photo 9. Exploration mine camp at Meliadine.



Photo 10. Meliadine mine site.

At the saline water management pond, NIRB staff observed the saline water pumped from underground to one of the P-Area Containment Pond, Collection Pond 5 where three (3) evaporators are being used to treat the water (see [Photo 11](#) and [Photo 12](#)) and is the first stage of treatment prior to release into Meliadine Lake or re-used in drilling.



Photo 11. Saline water pond, which stores saline water from underground operations at the Meliadine Gold Mine Project.



Photo 12. Three (3) evaporators used at a containment pond to maintain capacity within the main camp.

At the landfill NIRB staff observed numerous wooden pallets learned that it is due to the amount of construction and materials being brought to site. Mr. Theriault indicated that there are plans of sending the wooden pallets to the community of Rankin Inlet but this would occur during operations and currently Agnico Eagle planning with the community to best distribute the materials (see [Photo 13](#)).

NIRB staff also observed waste not suitable for the landfill or for incineration was sorted appropriately (e.g., sewage treatment sludge, batteries, electronics) and were stored in available seacans for shipment to an appropriate facility in the south (see [Photo 14](#)).



Photo 13. Landfill within the Meliadine mine site.



Photo 14. Wastes unsuitable for the landfill are sorted and stored prior to being shipped south to an appropriate waste management facility.

The site visit also included the exploration/temporary fuel tank storage farm and temporary landfill. Following the 2017 site visit, Agnico Eagle noted that the temporary fuel tank farm and temporary landfill would be decommissioned in the summer of 2018 with remediation to commence. During the current site visit, two (2) of the fuel tanks at temporary fuel storage farm held sewage treatment plant sludge (STP sludge). Agnico Eagle staff stated that remediation of the site had not commenced, and later in follow-up correspondence Agnico Eagle wrote that a plan is in place to have the material from the old landfarm transferred to the new landfarm once equipment is available (see [Photo 15](#)).



Photo 15. The temporary fuel storage farm with two STP sludge tanks.

The new landfarm at the Meliadine mine site was operational during the site visit and Agnico Eagle has started treatment of contaminated hydrocarbon soil on site. Ms. Granchinho requested clarification if the landfarm was managed similar to the Meadowbank Gold Mine site where additives were mixed in with the contaminated soils. Mr. Theriault noted that current practices at the Meliadine site have successfully remediated soil without additives (see [Photo 16](#)).



Photo 16. Permanent Landfarm at Meliadine.

During the site visit, NIRB staff noted that both fuel tank farms and the smaller fuel storage tanks located at various locations around the mine site were within appropriate secondary containment. Further, fuel storage tanks appeared to be handled in a safe and environmentally protective manner (see [Photo 17](#) and [Photo 18](#)). Any observed water in the containment berms had no visible sheen on the water or discernable hydrocarbon odours with the exception of the fuel tank farm #2 at the Meliadine site.

Discussions at tank farm #2, Agnico Eagle staff stated that a spill of 6,500 litres of fuel occurred in February 2018 when a valve was left open and not locked out during fuel transfer (see [Photo 19](#) and [Photo 20](#)). Therefore, the area had the odour of fuel and various materials from the clean-up were still located at the site.

No wildlife deterrents were observed on the fuel tanks at the mine site similar to the fuel tank farm at Itivia.



Photo 17. Fuel Tank Farm #1 at Meliadine.



Photo 18. Small fuel tank facility at Meliadine.



Photo 19. Fuel Tank Farm #2 with visible garbage and discernable hydrocarbon odour.



Photo 20. Area where the fuel spill happened and contaminated soils were dug up and brought to the landfarm.

3 SITE OBSERVATIONS BASED ON NIRB PROJECT CERTIFICATE No. 006

[Appendix A](#) summarizes observations made during the site visit that pertain specifically to terms and conditions of Project Certificate No. 006 relevant to the pre-construction and construction phase of the Meliadine Project.

4 FINDINGS AND SUMMARY

NIRB staff observed a busy site with considerable construction activity underway during its visit to the Project. Details provided by Agnico Eagle during the NIRB's monitoring visit, as well as follow-up correspondence, provided NIRB staff with information regarding the company's ongoing efforts to ensure compliance with the Project Certificate and minimize impacts to the environment. Based on the observations made during this site visit, Agnico Eagle generally appears in compliance with terms and conditions of the Meliadine Gold Mine Project Certificate and the associated AWAR Phase I Exception. However, dust management along the AWAR continues to be a concern, and additional or more frequent dust suppression is needed.

Another major concern that was observed is the lack of secondary containment at the temporary fuel tank farm/temporary landfarm near the exploration site; however, Agnico Eagle plans to decommission the site soon which would resolve the issue.

NIRB staff also note that Agnico Eagle should be applying learning lessons from its construction and operations at Meadowbank as there was a fuel spill at the site for similar reasons and operational practices were developed to limit the occurrence of these types of accidents.

Finally, Agnico Eagle should consider developing the ATV/snowmobile trail that would bypass the AWAR as it was noted during the site visit that not all community members sign-in when they go by the gatehouse and if persons using the road are not identified there could be a safety concern.

Prepared by: Sophia Granchinho, M.Sc., EP
Title: Manager, Impact Assessment
Date: October 5, 2018



Signature: _____

Prepared by: Mia Otokiak
Title: Junior Technical Advisor
Date: October 5, 2018



Signature: _____

Reviewed by: Kelli Gillard, P.Ag.
Title: Manager, Project Monitoring
Date: October 5, 2018



Signature: _____

Appendix A: 2018 NIRB SITE VISIT OBSERVATIONS FOR SELECT TERMS AND CONDITIONS FOR THE MELIADINE GOLD MINE PROJECT

Term & Condition from Project Certificate* or Decision Regarding Phase 1 Exception Application†	Site Visit Observations
<p>PC #1: Prior to commencing construction activities, the Proponent shall update its Air Quality Monitoring Plan, and shall consider installing two real-time air monitoring stations in advance of mining operations. The updated plan shall include, but is not limited to, details regarding the following:</p> <ol style="list-style-type: none"> Description of real-time air monitoring stations including proposed timing of installation, location, and any factors considered with regards to planning for the installation; Plans for the collection of total suspended dust samples year round, including sampling for metals content relevant to the Project; 	<ul style="list-style-type: none"> One (1) of two (2) partisol stations measuring particulate matter were observed. Multiple dustfall monitoring stations along the AWAR were observed. Vehicles were observed producing dust along the AWAR. Dust was less evident through the Hamlet and on the temporary bypass road. Speed limits were observed to be followed by Agnico Eagle employees, but it was noted that community members did not follow the speed limits.
<p>PC #2: The Proponent shall demonstrate through monitoring of air quality at the aboveground emissions points at the mine site and at the Tiriganiaq site that sulphur dioxide (SO₂) and nitrous dioxide (NO₂) emissions remain within predicted levels and, where applicable, within limits established by all applicable guidelines and regulations. In cases where exceedances occur, the Proponent shall provide an explanation for the exceedance, a description of planned mitigation, and shall conduct additional monitoring to evaluate the effectiveness of mitigative measures.</p>	
<p>PC #3: Prior to commencing construction activities the Proponent shall update its dust management and monitoring plan to address and/or include the following additional items:</p> <ol style="list-style-type: none"> Align plan requirements with commitments made in the FEIS and during the Final Hearing to monitor dust along the all-weather access road and associated roads and trails. Verify commitments to the utilization of dust suppressants along the all-weather access road including and associated roads and trails, including a description of the type of suppressant to be utilized, the frequency and timing of applications to be made throughout the various seasons of road use. Outline the specific adaptive management measures to be considered should monitoring indicate that dust deposition is higher than predicted, specifically where traffic along the all-weather access road is greater than initially predicted. 	

Term & Condition from Project Certificate* or Decision Regarding Phase 1 Exception Application†	Site Visit Observations
<p>PC #25: <i>The Proponent shall provide to the NIRB, a saline water management plan which includes, but is not limited to, mitigation measures designed to address the potential for higher-than-predicted volumes of saline water inflows into the underground mine, treatment and disposal methods, and details of its plan to monitor saline water at site.</i></p>	<ul style="list-style-type: none"> • The Groundwater Management Plan (or saline water management plan) was submitted with Agnico Eagle's 2017 annual report; however, Agnico Eagle currently has an amendment with the NIRB to discharge saline effluent to the marine environment at the Itivia Harbour. • Saline water is currently being pumped to a containment pond with water levels managed using evaporators.
<p>PC #16: <i>The Proponent shall finalize and implement a comprehensive erosion management plan to prevent or minimize the effects of destabilization and erosion resulting from Project activities.</i></p>	<ul style="list-style-type: none"> • During the site visit, no obvious erosion was noted and all sites currently under construction appear to be well managed.
<p>PC #28: <i>The Proponent shall develop and implement a sediment and erosion management plan to prevent or minimize the effects of destabilization and erosion that may occur due to Project activities. The plan should also detail sediment control plans to prevent and/or mitigate sediment loading into surface water within the Project area.</i></p>	<ul style="list-style-type: none"> • Generally, the site appeared to be well maintained with adequate environmental protection measures and procedures in place.
<p>PC #32: <i>Prior to the commencement of construction, the Proponent shall submit to the NIRB, a Site Drainage and Silt Control Plan.</i></p>	
<p>PC #48: <i>In consultation with the Government of Nunavut, the Kivalliq Inuit Association, the Kivalliq Wildlife Board and local Hunters and Trappers Organizations, the Proponent shall develop appropriate monitoring and mitigation measures relating to the harvesting of caribou and improved harvesting access granted by the all-weather access road. These measures shall be included within a Road Access Management Agreement that must be in place prior to construction of phase 2 of the all-weather access road. The Road Management Agreement shall include the following specific measures:</i></p> <ul style="list-style-type: none"> • <i>During periods when large aggregations of caribou (greater than 50 individuals) are detected within 1 km of the all-weather access road (AWAR), the road will be closed to public access via car and truck by means of a barrier at the southern gate. Public access using all-terrain vehicles (ATVs) will be allowed.</i> • <i>During periods when large aggregations of caribou (greater than 50 individuals) are observed within 1 km of the AWAR, the road will be closed to public access via barriers at bridges on the AWAR to prevent all vehicle access, including ATVs. This will allow ATVs to enter areas previously accessible along existing trails while not facilitating access via bridges constructed specifically for the Project.</i> 	<ul style="list-style-type: none"> • Signage on the AWAR was observed to state and appears to be in compliance with the Road Management Agreement: <ul style="list-style-type: none"> ○ Wildlife has right of way on the road and no harassment of wildlife is allowed ○ No hunting from the road ○ No shooting across the road and hunting not allowed within 1 km of the road • Agnico Eagle staff noted that the road was closed during the caribou migration period and that Agnico Eagle worked closely with the Government of Nunavut - Department of Environment and the Kivalliq Inuit Association to ensure mine traffic did not impact caribou during large aggregations of caribou.

Term & Condition from Project Certificate* or Decision Regarding Phase 1 Exception Application†	Site Visit Observations
<ul style="list-style-type: none"> • <i>Following consultation with the Nunavut Wildlife Management Board, as required under the Nunavut Wildlife Act, it is recommended that a no-shooting zone (1 km wide) on either side of the road should be established as a condition of public access to the AWAR and compliance with this Agnico Eagle policy should be monitored and reported by the Proponent.</i> • <i>Dedicated ‘road monitors’ should patrol the road to ensure compliance with the provisions of the Road Management Plan (SD 2-9) relating to public safety and wildlife. Monitoring should be increased during periods of road closure when large aggregations of caribou are present.</i> • <i>All incidents of hunting involving shooting along or across the AWAR should be reported by the Proponent to the GN.</i> • <i>During periods when large aggregations of caribou are detected near the Project, harvest monitoring intensity should be increased to ensure that levels of caribou harvesting are properly documented.</i> 	
<p>PC #62 - <i>The Proponent shall protect any nests found (or indicated nests) with a buffer zone determined by the setback distances outlined in its Terrestrial Environment Mitigation and Monitoring Plan (TEMMP), until the young have fledged. If it is determined that observance of these setbacks is not feasible, the Proponent will develop nest-specific guidelines and procedures to ensure bird’s nests and their young are protected.</i></p>	<ul style="list-style-type: none"> • Agnico Eagle noted that the Red Phalarope nest successfully hatched following the move of the nest in late July 2018.
<p>PC #74 - <i>The Proponent’s Terrestrial Management and Monitoring Plan (TEMMP) shall include mitigation measures implemented to prevent the use of water attenuation ponds by waterfowl and waterbirds and monitoring that assesses whether the mitigation measures are working or revised or further deterrent measures are required.</i></p>	<ul style="list-style-type: none"> • Use of bird deterrents was discussed during the site visit including the use of deterrents at the fuel tank farms. In follow-up correspondence, Agnico Eagle staff commented that they would be purchasing bird deterrents such as an imitation snowy owl for use at the fuel tank farms. • Agnico Eagle previously reported in the 2017 site visit that bird deterrents were previously used but were not effective at the tailings impoundment area. Bear bangers were bought for this use but will only be deployed if necessary. • During the site visit, it was also noted that tundra swans and ducks were found feeding in CP1.

Term & Condition from Project Certificate* or Decision Regarding Phase 1 Exception Application†	Site Visit Observations
<p>PC #75 - The Proponent shall implement mitigation measures and monitoring programs to limit the attraction of predators and scavengers to Project facilities in the TEMMP and other plans such as the Landfill and Waste Management Plan as appropriate.</p>	<ul style="list-style-type: none"> • Agnico Eagle noted that arctic foxes have been attracted to the site and Agnico Eagle have been working closely with the Government of Nunavut - Department of Environment to find ways to deter the foxes. Agnico Eagle re-iterated that employees are made aware of the Wildlife Policy and that feeding of any wildlife is prohibited. • It was noted that wastes not appropriate for the landfill were sorted and secured in seacans or other closed containers for future disposal at southern locations.
<p>PC #77 - The Proponent shall ensure that it maintains the necessary equipment and trained personnel to respond to all sizes of potential spills associated with the Project in a self-sufficient manner.</p>	<ul style="list-style-type: none"> • Spill kits were observed at various locations across the Project, including at road-side quarries, emergency sea cans on the side of the AWAR, and adjacent to fuel storage areas. • Agnico Eagle also noted that trucks were equipped with spill response materials
<p>PC #125 - The Proponent shall implement all such measures necessary to protect public and mine traffic on all Project roads. The measures undertaken shall include, but are not limited to:</p> <ol style="list-style-type: none"> Prior to the opening of the AWAR to the public, the Proponent shall address enforcement of health and safety rules for the operation of the road (i.e., no shooting zone) and implement necessary communications with the public (i.e., signage and public meetings), which includes, but is not limited to: <ol style="list-style-type: none"> Maintaining manned and unmanned gates as proposed along the all-weather access road; The posting of signs in English and Inuktitut along the road at appropriate intervals (i.e., 10 km and bridge crossings); and Place notices at least quarterly on the radio and television to explain to the community the rules for use of the road; Once the AWAR expansion is completed and the road is opened to the public, the Proponent shall conduct a vehicle survey four times annually (once during the weekdays during the winter season, once during the week end days during the winter season, once during the weekdays during the summer season and once during the week end days during the summer season) to record the number and types of mine vehicles and the 	<ul style="list-style-type: none"> • Observed two (2) signs in English & Inuktitut indicating access and safety requirements of AWAR. • Observed speed limit signs along the AWAR. • Two (2) manned gates were operational and recording traffic, including ATVs. • Agnico Eagle's in-vehicle radios were noted to broadcast the coming and going of ATVs to alert other mine traffic. • Observed that not all community members driving on ATVs stopped to sign in/out at the gatehouses. • Agnico Eagle staff noted the difficulty in enforcing the speed limits on members of the public that use the road which is a safety concern.

Term & Condition from Project Certificate* or Decision Regarding Phase 1 Exception Application†	Site Visit Observations
<p><i>number and type of public vehicles using the AWAR over a 12 hour period (8:00 am to 8:00 pm). The vehicle survey data shall be collated as indicated above and provided in the Proponent's Annual Report;</i></p> <p><i>e. Prior to the development of the Discovery deposit, the Proponent shall update its Road Management Plan for the planned operation of the twinned road which could include additional rules, Project infrastructure, or other measures designed to maintain safety for employees and the public; and</i></p> <p><i>f.</i></p>	
<p>PIException #43. <i>The Proponent shall operate the all-weather road as a controlled access road only, and shall implement such control measures as necessary to prevent unauthorized use of the road. The measures that the Proponent shall undertake will include, but are not limited to:</i></p> <p><i>a. Maintaining a gate and manned gatehouse at the southern end of the Phase 1 all-weather access road, beyond the Char River bridge;</i></p> <p><i>b. The posting of signs in English and Inuktitut at the gate, each major bridge crossing, and each 10 kilometres of road, stating that unauthorized use of the Phase 1 all-weather road is strictly prohibited;</i></p> <p><i>c. Prior to opening of the road, and annually thereafter, advertising and holding at least one community meeting in the Hamlet of Rankin with the express purpose of explaining to the community that the Phase 1 all-weather road is a private road and that unauthorized use of the road is prohibited.</i></p> <p><i>d. Placing notices at least quarterly on the radio and television to explain to the community that the Phase 1 all-weather road is a private road and that unauthorized use of the road is prohibited.</i></p> <p><i>e. Requiring all Project personnel and contractors using the road to monitor and report unauthorized use of the road, with AEM providing a report to the NIRB detailing such incidences one (1) year after the road is opened and annually thereafter; and;</i></p> <p><i>f. Reporting all accidents and other safety incidents on the road to the Hamlet and the Kivalliq Inuit Association immediately, and to the NIRB annually.</i></p>	

NOTES: *PC = NIRB Project Certificate No. 006 (Feb. 2015), † **PIException** = NIRB Decision regarding Phase 1 Exception Application (Feb. 2012), applicable to Phase 1 of the All-Weather Access Road

Appendix B Compliance with the Meliadine Gold Mine Project Certificate No. 006

<u>TERM & CONDITION</u> <u>(NIRB PROJECT CERTIFICATE No. 006)</u>	<u>REPORTING</u> <u>REQUIREMENTS</u>	<u>COMPLIANCE ACHIEVEMENT</u>
AIR QUALITY		
<p>1: Prior to commencing construction activities, the Proponent shall update its Air Quality Monitoring Plan, and shall consider installing two real-time air monitoring stations in advance of mining operations. The updated plan shall include, but is not limited to, details regarding the following:</p> <p>a. Description of real-time air monitoring stations including proposed timing of installation, location, and any factors considered with regards to planning for the installation;</p> <p>b. Plans for the collection of total suspended dust samples year round, including sampling for metals content relevant to the Project;</p> <p>c. Description of snowpack surveys and dustfall collectors;</p> <p>d. Description of lichen surveys;</p> <p>e. Identification of near field, far field and reference sites that are located with consideration of ambient wind conditions;</p> <p>f. Baseline data collected prior to significant construction activity; and</p> <p>g. A description of the proposed annual reporting mechanism and response framework.</p>	<p>The updated plan should be submitted to the NIRB at least 90 days prior to the start of construction, with results submitted annually thereafter or as may otherwise be required.</p>	<p>In compliance. See:</p> <ul style="list-style-type: none"> • Air Quality Monitoring Plan, Version 1 (November 2015) • Terrestrial Environment Management and Monitoring Plan (TEMMP), Version 2 (November 2015)
<p>2: The Proponent shall demonstrate through monitoring of air quality at the aboveground emissions points at the mine site and at the Tiriganiaq site that sulphur dioxide (SO₂) and nitrous dioxide (NO₂) emissions remain within predicted levels and, where applicable, within limits established by all applicable guidelines and regulations. In cases where exceedances occur, the Proponent shall provide an explanation for the exceedance, a description of planned mitigation, and shall conduct additional monitoring to evaluate the effectiveness of mitigative measures.</p>	<p>Not specified</p>	<p>In compliance. See Agnico Eagle's Meliadine Gold Project 2017 Annual Report, in which it is noted that the measured annual average concentrations were well below the Government of Nunavut Ambient Air Quality Standards, and FEIS maximum predicted values.</p>
<p>3: Prior to commencing construction activities the Proponent shall update its dust management and monitoring plan to address and/or include the following additional items:</p> <p>a. Align plan requirements with commitments made in the FEIS and during the Final Hearing to monitor dust along the all-weather access road and associated roads and trails.</p> <p>b. Verify commitments to the utilization of dust suppressants along the all-weather access road including and associated roads and trails,</p>	<p>The updated plan should be submitted to the NIRB for review and comment at least 60 days prior to commencement of construction activities.</p>	<p>Partially in compliance. In its response to the 2017 Board recommendations on January 29, 2018, Agnico Eagle described its use of chemical dust suppressant (calcium chloride) along the AWAR in 2017 and its intent to repeat the application in 2018 as well as to test an alternative chemical suppressant. The Proponent should update its Dust Management Plan (Appendix C of the Roads Management Plan) with the commitment to use a</p>

<u>TERM & CONDITION</u> <u>(NIRB PROJECT CERTIFICATE NO. 006)</u>	<u>REPORTING</u> <u>REQUIREMENTS</u>	<u>COMPLIANCE ACHIEVEMENT</u>
including a description of the type of suppressant to be utilized, the frequency and timing of applications to be made throughout the various seasons of road use. c. Outline the specific adaptive management measures to be considered should monitoring indicate that dust deposition is higher than predicted, specifically where traffic along the all-weather access road is greater than initially predicted.		chemical suppressant along the entire length of the AWAR. During the 2018 site visit, dust related to traffic on the AWAR appeared to be still an issue.
4: The Proponent shall develop and implement an Incineration Management Plan that takes into consideration the recommendations provided in Environment Canada's Technical Document for Batch Waste Incineration (2010).	The updated plan should be submitted to the NIRB for review and comment at least 60 days prior to commencement of construction activities.	In compliance. See: <ul style="list-style-type: none"> Incineration Management Plan, Version 5 (March 2018)
5: The Proponent shall provide all stack testing conducted on temporary or permanent incinerators operated for the Project to the NIRB in the annual report for that year.	Stack test results are to be reported to the NIRB and to Environment Canada annually, or as may otherwise be required.	Not in compliance. The new (permanent) incinerator was commissioned in November 2017, but the Proponent reported that no stack testing was performed due to technical difficulties. On January 29, 2018, in response to comments from the Government of Nunavut, the Proponent noted that incinerator testing is planned for September 2018 and that quarterly sampling of ash samples has been / will be conducted in lieu of incinerator stack testing; however, results were not provided.
6: The Proponent shall employ appropriate dust suppression measures when conducting activities in the landfill such as topping or capping.	Not specified	Compliance unknown. The NIRB expects the Proponent to explicitly add dust suppression at the landfill to its Dust Management Plan and to report on this in all future reports. See also Condition #3.
<u>CLIMATE AND METEOROLOGY</u>		
7: The Proponent shall provide within its annual report to the NIRB, calculations of greenhouse gas emissions generated by activities at the Itivia port and other Project sources including mine-related road traffic and aircraft associated with the Project. Calculations shall take into consideration, fuel consumption as measured by the Proponent's purchase and use as well as the fuel use of its contractors and sub-contractors.	Not specified	Partially in compliance. See Agnico Eagle's <i>Meliadine Gold Project 2017 Annual Report</i> (Appendix A – Air Quality Monitoring Report). The Proponent has estimated that total Greenhouse Gas (GHG) emissions were 39,476 tonnes CO ₂ equivalent in 2017. However, no details were provided at how this number was arrived at. In its comments on the Proponent's 2017 Annual Report, the Government of Nunavut recommended that public (i.e., ATV) and project-related traffic be differentiated in summaries of traffic

<u>TERM & CONDITION</u> <u>(NIRB PROJECT CERTIFICATE NO. 006)</u>	<u>REPORTING</u> <u>REQUIREMENTS</u>	<u>COMPLIANCE ACHIEVEMENT</u>
		volumes in order to better assess and manage project-related dust and greenhouse gas emissions. The NIRB agrees with this recommendation and would like this change made in the Proponent's subsequent annual reporting.
8: <i>To actively engage Inuit in initiatives related to climate change, where it is feasible, the Proponent shall endeavour to include the participation of Inuit from affected communities when undertaking climate-change related studies and research.</i>	Not specified	Not yet achieved. The NIRB encourages the Proponent to consult with or actively involve local Inuit and/or Inuit Qaujimaqatuqangit in climate change research or monitoring studies, and to report on this. As climate change studies will typically require several years of data collection, the NIRB encourages the Proponent to initiate any such studies as early as possible, and requests additional details to be provided in the Proponent's subsequent annual report.
9: <i>Prior to the commencement of operations, the Proponent shall develop a Greenhouse Gas Emissions (GHG) Reduction Plan which includes, but is not limited to:</i> <i>a. An estimate of the Project's GHG baseline emissions;</i> <i>b. A description of monitoring measures to be undertaken, including the methods, frequency, parameters, and a description of data analysis; and,</i> <i>c. A description of mitigative and adaptive strategies planned, and taken, toward reducing the Project-related emission of greenhouse gases over the Project's life.</i>	<i>The plan should be submitted to the NIRB at least 90 days prior to the commencement of operations.</i>	Not yet achieved. The Proponent expects to provide a Greenhouse Gas Emissions Reduction Plan in Q2 of 2019.
<u>NOISE AND VIBRATION</u>		
10: <i>The Proponent shall further develop and implement its noise abatement plan to protect people and wildlife from mine activity noise, including, blasting, drilling, equipment, vehicles and aircraft. The noise abatement plan will be developed in consultation the Government of Nunavut, Environment Canada and Health Canada as appropriate, and at a minimum is to include:</i> <i>a. Restrictions on blasting and drilling when migrating caribou, birds or local carnivores may be affected;</i> <i>b. The establishment of strict standards for noise levels; use of equipment and vehicles with the best noise attenuation devices;</i> <i>c. When practical, the use of fences or berms around noisy machinery or sites;</i> <i>d. Flight corridor restrictions over sensitive areas with known concentrations of wildlife and birds whenever possible;</i>	<i>The finalized noise abatement plan should be submitted to the NIRB at least 90 days prior to the commencement of construction.</i>	In compliance. See: <ul style="list-style-type: none"> • <i>Noise Abatement and Monitoring Plan, Version 2 (March 2017)</i> • <i>Terrestrial Environment Management and Monitoring Plan (TEMMP), Version 2 (November 2015)</i>

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<p>e. Requiring with the exception of take-off and approach for landing, a minimum flight altitude of 300 metres above ground level when flights to and from the mine site are passing near sensitive wildlife and bird areas; and,</p> <p>f. The incorporation of the use of sound metres to monitor sound levels at locations in and around the mine site and local study area. The location and design of the sound metres shall be selected in consultation with EC and set up immediately upon issuance of the Project Certificate for the purpose of obtaining baseline data, and shall be maintained for data collection during and after operations.</p>		
<p>11: The Proponent shall conduct noise and vibration monitoring at Project accommodations sites located at the Tiraginiaq mine site. Sampling shall be undertaken during the summer and winter months during all phases of Project development, with reporting of results and implementation of associated mitigation measures as necessary reported to the NIRB.</p>	Not specified	<p>Partially in compliance. See:</p> <ul style="list-style-type: none"> • Agnico Eagle's Meliadine Gold Project 2017 Annual Report – Appendix B: Noise Monitoring Report (March 2018); • Vibration monitoring results from surface blasting have indicated that at no time the Fisheries and Oceans Canada's (DFO) requirements on Peak Particle Velocity and overpressure were exceeded. More information is expected to be in the 2018 annual report.
TERRESTRIAL ENVIRONMENT		
<p>12: The Proponent shall conduct further permafrost mapping to document permafrost temperature, thickness of seasonal thaw and amount of ground ice in the Project development area, with such information to be available to inform the detailed design of Project infrastructure (i.e., dikes and tailings storage facility designs and talik predictions for lakes that are to be dewatered or used for saline water storage).</p>	Not specified	<p>In compliance. See Agnico Eagle's Meliadine Gold Project 2017 Annual Report – Appendix C: 2017 Annual Geotechnical Inspection (March 2018).</p>
<p>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.</p>	<p>The updated plan is to be submitted to the NIRB within 90 days of the issuance of a Project Certificate, with annual reporting requirements to be determined following approval of the Project by the Minister</p>	<p>Partially in compliance. The Proponent submitted an updated Environmental Management and Protection Plan within 90 days of issuance of the Project Certificate (Version 4 - April 2015), and has included an updated plan annually since then.</p> <p>Agnico Eagle's Meliadine Gold Project 2017 Annual Report – Appendix C: 2017 Annual Geotechnical Inspection (February 2017) includes recommendations and the Proponent's implementation plan to address the recommendations.</p> <p>The NIRB agrees with recommendations from the Kivalliq Inuit Association and</p>

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		Indigenous and Northern Affairs Canada (provided May 18, 2018) that a summary of the geotechnical investigations should be provided within the main text of the annual report. The NIRB would also like to see specific discussion within the annual report to minimizing impacts to landscape aesthetics and sensitive landforms.
14: <i>The Proponent is encouraged to conduct more detailed thermal analysis to support detailed design of the dikes and the tailings storage facility, including seepage and stability analysis, and shall incorporate the results of the analysis into Project design. Details of the thermal analyses undertaken are to be provided to the NIRB.</i>	<i>Details are to be provided to the NIRB at least 60 days prior to the commencement of construction, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See Agnico Eagle's <i>Meliadine Gold Project 2017 Annual Report – Appendix C: 2017 Annual Geotechnical Inspection</i> (March 2018).
15: <i>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:</i> <i>a. A description of the potential environmental effects of such a failure;</i> <i>b. Identification of the monitoring measures employed to detect environmental changes that could result;</i> <i>c. Identification of proposed mitigation measures to address any changes identified during monitoring; and</i> <i>d. Updated Risk Management Plan and Closure and 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.</i> Commentary: <i>The NIRB recognizes that as the initial submission of updated plans will be within 6 months of the issuance of the Project Certificate, it is expected that the level of detail of the Proponent's initial submission will be largely conceptual and will be supplemented and updated over time.</i>	<i>A summary of the assessment and updated plans 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</i>	In compliance. Scenarios for dike/TSF failures and associated mitigation activities contained within the Proponent's <i>Risk Management and Emergency Response Plan, Version 4</i> (April 2015) and closure and post-closure monitoring details are provided in the <i>Preliminary Closure and Reclamation Plan, Version 1</i> (April 2015). Within its 2017 Annual Report (Appendix M), the Proponent noted that dewatered dry-stack tailings was chosen over a conventional slurry tailings storage facility due to better environmental performance and inherently lower risk.
16: <i>The Proponent shall finalize and implement a comprehensive erosion management plan to prevent or minimize the effects of destabilization and erosion resulting from Project activities.</i>	Not specified	In compliance (see also Conditions #16 and #32). See: <ul style="list-style-type: none"> <i>Water Management Plan – Appendix B: Freshet Action Plan, Version 2</i> (March 2018)

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		<ul style="list-style-type: none"> <i>Roads Management Plan, Version 5, March 2018).</i>
17: <i>The Proponent shall monitor the effects of the Project on permafrost conditions relative to Project infrastructure, including along the all-weather access road and associated roads, waste rock stockpile, trails and quarries. Through its monitoring the Proponent must demonstrate that permafrost integrity is maintained with implementation of appropriate preventative measures should permafrost degradation be observed.</i>	Not specified	In compliance. The Proponent continues to monitor and map permafrost conditions through its thermal monitoring program. See <i>Meliadine Gold Project 2017 Annual Report – Appendix C: 2017 Annual Geotechnical Inspection</i> (February 2018).
18: <i>The Proponent shall provide the NIRB with copies of as-built drawings and final design plans for Project infrastructure as they are developed/finalized to assist with the Board's ongoing monitoring efforts.</i>	Not specified	In compliance. The NIRB has been copied on correspondence between the Proponent and the NWB regarding final designs for Project infrastructure. The NIRB also receives monthly construction summary reports from the Proponent.
19: <i>The Proponent shall develop and implement a monitoring program for its Tailings Storage Facility and Waste Rock Storage Facility (including dikes). The monitoring program is to include, but shall not be limited to:</i> <i>a. Plans for monitoring the thermal condition and stability of storage facilities (including deformation of the cover) and dikes, including the use of thermistor cables, temperature loggers, and core sampling technology as required to monitor dike stability and tailings freezeback efficiency, including for example, factors such as ice content and stability; and,</i> <i>b. Measures proposed to ensure the safe containment and structural integrity of Project infrastructure, and to prevent contamination of waterbodies. Details of the monitoring program shall be provided to the NIRB.</i>	<i>Details of the monitoring program should be submitted to the NIRB at least 90 days prior to the establishment of either facility, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	Not yet applicable. The NIRB notes that the Tailings Storage Facility and Waste Rock Storage Facility have not yet been completed, but understands that some relevant geotechnical inspections occurred in 2017 - see <i>Meliadine Gold Project 2017 Annual Report – Appendix C: 2017 Annual Geotechnical Inspection</i> (March 2018). General monitoring plans have been provided in the <i>Mine Waste Management Plan, Version 3</i> (March 2018). The Proponent committed to submit a detailed monitoring program 90 days prior to construction of the facilities.
20: <i>The Proponent shall explore 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.</i>	<i>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</i>	Partially in compliance. Recognizing the Project is in Construction, the NIRB is satisfied at present given submission of the following: <ul style="list-style-type: none"> <i>Risk Management and Emergency Response Plan, Version 4</i> (April 2015) <i>Preliminary Closure and Reclamation Plan, Version 1</i> (April 2015) However, the NIRB notes topsoil/organic matter salvage is not discussed in these versions and encourages the Proponent to do so in future with explicit consideration of lessons learned from closure and reclamation activities at Meadowbank. See also Conditions #41 and #42.

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21: <i>The Proponent shall update its Waste Management Plan to include details which explain how the design employed for Project landfills is expected to protect the integrity of the local environment, including permafrost integrity, and water quality for adjacent waterbodies. The Proponent shall demonstrate its consideration for the use of liners at waste management facilities, where feasible.</i>	<i>The updated plan is to be submitted to the NIRB at least 90 days prior to operation of Project landfills, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. The Proponent submitted an updated <i>Landfill and Waste Management Plan, Version 6</i> in March 2018, in which it notes that based on the proposed design, management and operating procedures, a liner for the landfill is not considered necessary. The Landfill and Waste Management Plan includes the objective of reducing, reusing, and recycling to minimize wastes. During the NIRB's 2017 Site Visit, NIRB staff observed that Agnico Eagle continues to have a lot of pallets on site. In order to further minimize wastes and to improve environmental stewardship and aesthetics Agnico Eagle noted that they are working with the community of Rankin Inlet to determine the best ways of distributing the pallets. The NIRB encourages the Proponent to further its waste management plan accordingly and would appreciate details as they are available in the next monitoring cycle.
GEOLOGY (INCLUDING GEOCHEMISTRY)		
22: <i>The Proponent shall report annually to the NIRB on the adaptations it has had made to the Mine Waste Management Plan and practices based on results obtained through monitoring.</i>	Not specified	In compliance. See <i>Mine Waste Management Plan</i> – last updated March 2018.
23: <i>Prior to the commencement of excavation at the Discovery deposit, the Proponent, in consultation with Natural Resources Canada, shall update its Mine Waste Management Plan to assess the potential for acid rock drainage and to identify any monitoring and mitigation measures that may be required in this development area.</i>	Not specified	Not yet achieved / not yet applicable. The Proponent has indicated it will begin excavation at the Discovery deposit in 2024.
HYDROGEOLOGY AND GROUNDWATER QUANTITY AND QUALITY		
24: <i>The Proponent shall, reflecting any direction from the Nunavut Water Board during water licensing, collect new hydraulic data (e.g., from new monitoring wells) in key areas during the pre-development, construction and operation phases to better define vertical and horizontal ground flow in the project development area.</i>	Not specified	In compliance. The Proponent submitted results of its 2015 hydrogeological investigations in 2016. The NIRB expects updated reports and/or information in the Annual Report throughout operations.
25: <i>The Proponent shall provide to the NIRB, a saline water management plan which includes, but is not limited to, mitigation measures designed to address the potential for higher-than-predicted volumes of saline water inflows into the underground mine, treatment and disposal methods, and details of its plan to</i>	Not specified	In compliance. See <i>Groundwater Management Plan, Version 1</i> (February 2018). The NIRB also notes the Proponent's submission of an FEIS Addendum (June 2018) in support of the NIRB's review of Agnico Eagle's proposal to discharge

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<i>monitor saline water at site.</i>		saline effluent to the marine environment and expects to make decision regarding the application on October 26, 2018.
26: <i>The Proponent shall carry out continued analyses over time to confirm and update, accordingly, the approximate fill time for the mine pits as identified in the FEIS.</i>	Not specified	In compliance. Estimates of the approximate fill time for the mine pits at closure were provided in the <i>Water Management Plan, Volume 1</i> (April 2015). The NIRB expects updates to this analysis in future years as appropriate.
HYDROLOGY (INCLUDING SURFACE WATER QUANTITY) AND WATER AND SEDIMENT QUALITY		
27: <i>The Proponent shall update its Aquatic Effects Monitoring Plan (AEMP) to include, at a minimum:</i> <i>a. Details regarding the monitoring of non-point sources of discharge, selection of appropriate reference sites, measures to ensure the collection of adequate baseline data at Meliadine Lake prior to and during construction activities, including information on chemical loading in the snowpack, and the mechanisms proposed to monitor for and treat runoff and sediment;</i> <i>b. A description of measures to be undertaken as relate to dustfall monitoring, designed in accordance with the following:</i> <i>i. To establish Phase 1 all-weather access road baseline data and a description of plans for data collection during Project operations for comparison;</i> <i>ii. To facilitate comparison with existing guidelines;</i> <i>iii. To assess the seasonal deposition (rates, quantities) and chemical composition of dust entering aquatic systems along representative distance transects of the all-weather access road and Rankin Inlet by-pass road;</i> <i>c. A description of water quality monitoring to be conducted at Little Meliadine Lake; and</i> <i>d. Details regarding comparisons of results to be run against predicted values and the analysis of data to be undertaken on an annual basis, or as may be required.</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> • <i>Aquatic Effects Monitoring Program (AEMP) Design Plan 6513-REP-03</i> (April 2015) submitted to the NWB with the Proponent's Type A Water Licence application. • <i>Air Quality Monitoring Plan, Version 1</i> (November 2015)
28: <i>The Proponent shall develop and implement a sediment and erosion management plan to prevent or minimize the effects of destabilization and erosion that may occur due to Project activities. The plan should also detail sediment control plans to prevent and/or mitigate sediment loading into surface water within the Project area.</i>	Not specified	Partially in compliance (see also Conditions #16 and #32). See: <ul style="list-style-type: none"> • <i>Water Management Plan – Appendix B: Freshet Action Plan, Version 3</i> (March 2018) • <i>Roads Management Plan, Version 5</i>, March 2018). The NIRB acknowledges Agnico Eagle's commitment in response to comments from Environment and Climate Change

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		Canada (ECCC) to provide more details in a new erosion and sediment control (ESC) plan as an addendum to the Freshet Action Plan in the next annual report.
29: <i>The Proponent shall develop and implement adequate monitoring and maintenance procedures to ensure that the culverts and other conduits that may be prone to blockage do not significantly hinder or alter the natural flow of water from areas associated with the proposed mine. In addition, the Proponent shall monitor, document and report the withdrawal rates for water removed and utilized for all domestic and industrial purposes.</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> • <i>Water Management Plan – Appendix B: Freshet Action Plan, Version 3</i> (March 2018) • <i>Roads Management Plan, Version 5</i>, March 2018). • <i>Meliadine Gold Project 2017 Annual Report, Appendix C: 2017 Annual Geotechnical Inspection</i> (March 2018). The Proponent has indicated that water from culverts is not utilized for domestic or industrial purposes.
FRESHWATER AQUATIC ENVIRONMENT		
30: <i>The Proponent shall update its Aquatic Effects Monitoring Plan (AEMP) to include, at a minimum:</i> <i>a. Provide details for additional reference lakes to be included within its sampling and monitoring programs;</i> <i>b. Updates to include sedimentation within relevant monitoring programs; and</i> <i>c. Results from additional testing for mercury in fish tissue, and include test results in updated baseline data.</i>	Not specified	In compliance. See <ul style="list-style-type: none"> • <i>Aquatic Effects Monitoring Program (AEMP) Design Plan 6513-REP-03</i> (April 2015) submitted to the NWB with the Proponent's Type "A" Water Licence application.
31: <i>The Proponent shall maintain an appropriate setback distance between project quarries and fish-bearing or permanent water bodies as required to prevent acid rock drainage or metal leaching into such water bodies.</i>	Not specified	In compliance. The NIRB notes the Proponent's <i>Borrow Pits and Quarries Management Plan, Version 5</i> (March 2017) commits to maintaining a setback of at least 31 m from watercourses where possible. In addition, the Proponent reported in its 2017 Annual Report that all rock samples from quarries were not potentially acid generating (NPAG).
32: <i>Prior to the commencement of construction, the Proponent shall submit to the NIRB, a Site Drainage and Silt Control Plan.</i>	Not specified	Partially in compliance (see also Conditions #16 and #32). See: <ul style="list-style-type: none"> • <i>Water Management Plan – Appendix B: Freshet Action Plan, Version 3</i> (March 2018) • <i>Roads Management Plan, Version 5</i>, March 2018). The NIRB acknowledges Agnico Eagle's commitment in response to comments from Environment and Climate Change Canada (ECCC) to provide more details in a new erosion and sediment control (ESC) plan as an addendum to the Freshet Action Plan in the next annual report.

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33: <i>The Proponent shall meet or exceed the guidelines set by Fisheries and Oceans Canada for blasting thresholds and implement practical and effective measures to ensure that residue and by-products of blasting do not negatively affect fish and fish habitat.</i>	Not specified	Partially in Compliance. In its latest version of the compliance table for 2018, Agnico Eagle noted that a Blast Monitoring Report was completed and the results have showed that at no time were the Fisheries and Oceans Canada (DFO) requirements on Peak Particle Velocity and overpressure exceeded. The NIRB anticipates the report and more information in the next annual report.
34: <i>Unless otherwise approved by regulatory authorities, the Proponent shall ensure that all Project infrastructure in watercourses is designed and constructed in such a manner that it does not obstruct unduly prevent or limit the natural movement of water in fish bearing streams and rivers.</i>	Not specified	Not yet applicable. The NIRB recognizes that the Project is in Construction and acknowledges the Proponent's planned management and mitigation discussed in its <i>Water Management Plan</i> and <i>Roads Management Plan</i> such as use of screens on water intake pipes, use of clear-span bridges, and avoiding in-water construction works during sensitive periods, as per guidelines from Fisheries and Oceans Canada.
VEGETATION		
35: <i>The Proponent shall ensure that Project components and activities are planned and conducted in such a way as to minimize the Project footprint; this should include input from potentially affected communities where applicable.</i>	Not specified	In compliance. Agnico Eagle has reported that locations chosen for the Meliadine River bridge and the Itivia laydown area, the route of the AWAR, etc. took into account comments from local communities. In Agnico Eagle's 2017 Annual Report for the Meliadine Gold Mine (Appendix M), it is a preliminary estimate of approximately 55 ha is reported. In the 2017 TEMMP report, the Proponent indicated it will, at three (3) year intervals, report on the area of the mine footprint compared to the permitted area, beginning in the first year post-construction. See also Condition #73. The NIRB expects reporting to refer specifically to specific plant communities and specific habitat types as well.
36: <i>The Proponent shall ensure that equipment and supplies brought to Project sites are clean and free of soils that could contain plant seeds not naturally occurring in the area. Vehicle tires and treads in particular must be inspected, and cleaned if required, prior to transport into Nunavut for use in Project areas.</i>	Not specified	Not in compliance. The Proponent reported in its 2017 Annual Report that it would begin vehicle inspections in 2018.

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37: <i>The Proponent shall incorporate protocols for monitoring for the potential introduction of invasive vegetation species (e.g. surveys of plant populations in previously disturbed areas) into its Terrestrial Environment and Monitoring Plan. Any introductions of non-indigenous plant species must be promptly reported to the Government of Nunavut Department of Environment.</i>	Not specified	Partially in compliance. The Proponent's <i>Terrestrial Environment Management and Monitoring Plan, Version 2</i> (November 2015) indicates that "Surveys for non-native invasive plant species will be undertaken in disturbed areas..." However, specific monitoring protocols for invasive plants are not provided. In the 2017 TEMMP report (February 2018), the Proponent noted that no invasive plants were observed while taking vegetation samples to analyze baseline metal concentrations. However, dedicated invasive plant surveys are recommended, and the NIRB expects a protocol to be included in the next revision of the TEMMP.
38: <i>The Proponent shall conduct sampling to determine baseline levels for metals in soils found in areas with berry-producing plants near the Project area, and shall update relevant vegetation sections within the Terrestrial Management and Monitoring Plan to incorporate ongoing monitoring of these parameters prior to commencing operations.</i>	Not specified	In compliance. See <i>2017 Terrestrial Effects Monitoring and Mitigation Program Annual Report</i> (February 2018).
39: <i>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.</i>	<i>Details for the program are to be submitted to the NIRB within 6 months of the issuance of the Project Certificate, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See <i>2017 Terrestrial Effects Monitoring and Mitigation Program Annual Report</i> (February 2018). The NIRB expects loss and disturbance of caribou habitat to be reported on as per condition #73.
40: <i>The Proponent shall review, on an annual basis, all monitoring information and the vegetation mitigation and management plans developed under its Environmental Management Plan and Terrestrial Environment and Monitoring Plan (TEMMP) and adjust such plans as may be required to effectively prevent or reduce the potential for significant adverse project effects on vegetation abundance, diversity and health, taking into account lessons learned at other northern mining developments where appropriate.</i>	Not specified	Partially in compliance. See <i>2017 Terrestrial Effects Monitoring and Mitigation Program Annual Report</i> (February 2018), which focused on dust and metals. The NIRB expects additional reporting in terms of impacts to specific plant communities as well. See also conditions #35 and #73.

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41: <i>Prior to the commencement of operations, the Proponent shall develop a progressive re-vegetation program for disturbed areas that are no longer required for operations, such program to incorporate measures for the use of test plots, reseeding and replanting of native plants as necessary. It is further recommended that this program be directly associated with the management plans for erosion control established for the Project and incorporate lessons learned at Meadowbank.</i>	Not specified	Not yet achieved. The Proponent has indicated that a re-vegetation study developed with the University of Saskatchewan will commence in 2018. See also Condition #42. The NIRB expects details of the study - including objectives, methodologies, schedule, and reference to other northern mines if applicable - to be provided within Agnico Eagle's subsequent annual report.
42: <i>The Proponent shall include re-vegetation strategies in its Closure and Reclamation Plan that support progressive reclamation and that promote natural revegetation and recovery of disturbed areas compatible with the surrounding natural environment and incorporate lessons learned at Meadowbank.</i>	Not specified	Not yet achieved/Not yet applicable. The Proponent's <i>Preliminary Closure and Reclamation Plan, Version 1</i> (April 2015) indicates that disturbed areas such as the tailings storage facility and waste rock storage facility will be progressively reclaimed to allow for natural revegetation. Recognizing the Project is currently in Construction, the NIRB expects this Plan to be finalized at a later date, which may also allow for lessons from Meadowbank to be incorporated. See also Condition #41.
TERRESTRIAL WILDLIFE AND WILDLIFE HABITAT		
43: <i>The Proponent shall continue to develop and implement Project-specific monitoring for the terrestrial environment through its Terrestrial Environment Management and Monitoring Plan (TEMMP), and will demonstrate appropriate refinements to design, incorporation of analytical methods and elaboration of methodologies. The TEMMP shall contain clear thresholds to allow for the assessment of long-term trends and cumulative effects where project interactions are identified. Coordination and cooperation will be required where data collection, analysis and interpretation, or responsibility for mitigation and management requires the efforts of multiple parties (e.g., government, Kivalliq Inuit Association, communities).</i>	Not specified	In compliance. The <i>Terrestrial Environment Management and Monitoring Plan, Version 2</i> (November 2015). The NIRB expects a revised TEMMP as the Project advances, along with a record of consultation / coordination with other stakeholders and agencies and an indication of how such information was incorporated into the refined TEMMP.
44: <i>In consultation with the Government of Nunavut (GN) and other relevant parties, the Proponent shall further develop its Terrestrial Environment Management and Monitoring Plan (TEMMP) to include increased caribou monitoring across the regional study area and additional details on the scope and design of monitoring programs. The Proponent shall also demonstrate consideration for contributing to existing and planned regional monitoring initiatives associated with terrestrial wildlife and wildlife habitat as appropriate. Monitoring</i>	Not specified	Partially in compliance. See commitment #45 below. The NIRB would like to see a summary of the implementation of /results of regional monitoring initiatives included within the subsequent annual report. The NIRB also notes that within comments on the Proponent's Annual Report, the GN recommended the Proponent acquire and use updated caribou data.

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<i>should be adequate to test impact predictions, monitor impact thresholds and trends over time, and to support implementation of mitigation measures as proposed in the Final Environmental Impact Statement.</i>		
<p>45: <i>The Proponent shall demonstrate consideration for cooperating with existing and planned regional and/or community-based monitoring initiatives associated with terrestrial wildlife and wildlife habitat that produce information pertinent to mitigating project-induced impacts. The Proponent shall give special consideration for supporting regional studies of population health and harvest programs for Qamanirjuaq caribou which help address areas of uncertainty for Project impact predictions.</i></p>	Not specified	<p>Partially in compliance. The Proponent summarizes in its Terrestrial Environment Management and Monitoring Plan (TEMMP) that it:</p> <ul style="list-style-type: none"> • Provides support for the Government of Nunavut's (GN) caribou satellite-collaring program for the Qamanirjuaq herd • Provides the GN - Department of Environment with in-kind contributions and support for regional muskoxen surveys [see Condition #52] • Is planning a hunter harvest survey [see Condition #46] • Is collaborating with the HTO to conduct wildlife surveys along the AWAR • Is collaborating with the <i>Arctic Raptor Project</i>. <p>The NIRB would like to see a summary of the implementation of /results of regional monitoring initiatives included within the subsequent annual report. The NIRB also notes that within comments on the Proponent's Annual Report, the GN recommended the Proponent acquire and use updated caribou data.</p>

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<p>46: <i>The Proponent shall update its Terrestrial Environment Management and Monitoring Plan (TEMMP) for the Project to include a detailed harvest study prepared in consultation with the Government of Nunavut (GN) and other affected parties. The design of the harvest study should demonstrate consideration for the following:</i></p> <p><i>a. Hiring of a dedicated local survey coordinator through local Hunters and Trappers Organizations (HTOs) and provision of adequate resources for the HTOs to run the program;</i></p> <p><i>b. The potential effects on caribou populations and on caribou behaviour resulting from increased human access caused by the all-weather access road and associated roads and trails; and,</i></p> <p><i>c. Increasing local knowledge of the project development areas, including establishing baseline harvesting levels prior to unrestricted public access on the all-weather access road.</i></p>	Not specified	<p>Not yet achieved. In January 2018, in response to last year's Board recommendations, the Proponent noted that it has initiated a Hunter Harvest Study committee with elders, the KIA, GN, and HTO representatives, and that a 3rd-party consultant will be used to develop a new HHS in time for the 2018 fall caribou migration. In its 2017 Annual Report, the Proponent also noted that Agnico Eagle is initiating discussions with the HTO regarding implementation. The NIRB expects the survey and first survey results to be provided within the next annual report. See also condition #105.</p>
<p>47: <i>The Proponent shall share information with the Government of Nunavut (GN) relating to the migration of caribou and include the GN as a party respecting caribou monitoring and movement through Project development areas, including the all-weather access road and associated roads and trails.</i></p>	Not specified	<p>In compliance. In its 2017 Annual Report (Appendix M), Agnico Eagle noted that it entered into a Memorandum of Understanding with the GN on March 1, 2017 to share and increase the common knowledge of possible disturbance effects on caribou and muskoxen and their migration.</p>
<p>48: <i>In consultation with the Government of Nunavut, the Kivalliq Inuit Association, the Kivalliq Wildlife Board and local Hunters and Trappers Organizations, the Proponent shall develop appropriate monitoring and mitigation measures relating to the harvesting of caribou and improved harvesting access granted by the all-weather access road. These measures shall be included within a Road Access Management Agreement that must be in place prior to construction of phase 2 of the all-weather access road. The Road Management Agreement shall include the following specific measures:</i></p> <ul style="list-style-type: none"> <i>During periods when large aggregations of caribou (greater than 50 individuals) are detected within 1 km of the all-weather access road (AWAR), the road will be closed to public access via car and truck by means of a barrier at the southern gate. Public access using all-terrain vehicles (ATVs) will be allowed.</i> <i>During periods when large aggregations of caribou (greater than 50 individuals) are observed within 1 km of the AWAR, the</i> 	<p><i>Road Access Management Agreement to be submitted to the NIRB at least 60 days prior to the commencement of construction of Phase 2 of the AWAR, with annual reporting requirements to be determined following approval of the Project by the Minister</i></p>	<p>Not yet achieved. In its <i>Roads Management Plan, Version 5</i> (March 2018), the Proponent indicates it will develop a Road Access Management Agreement that endorses the measures of this Condition.</p> <p>The Proponent has indicated that this Agreement will be completed for construction of Phase 2 of the all-weather road in 2024, and noted that consultations with different stakeholders are planned for 2018.</p> <p>The NIRB stresses the requirement to provide an updated Roads Management Plan and Road Access Management Agreement <i>prior</i> to construction of Phase 2 of the road to ensure effective wildlife management. See also condition #46.</p>

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<p>road will be closed to public access via barriers at bridges on the AWAR to prevent all vehicle access, including ATVs. This will allow ATVs to enter areas previously accessible along existing trails while not facilitating access via bridges constructed specifically for the Project.</p> <ul style="list-style-type: none"> • Following consultation with the Nunavut Wildlife Management Board, as required under the Nunavut Wildlife Act, it is recommended that a no-shooting zone (1 km wide) on either side of the road should be established as a condition of public access to the AWAR and compliance with this Agnico Eagle policy should be monitored and reported by the Proponent. • Dedicated 'road monitors' should patrol the road to ensure compliance with the provisions of the Road Management Plan (SD 2-9) relating to public safety and wildlife. Monitoring should be increased during periods of road closure when large aggregations of caribou are present. • All incidents of hunting involving shooting along or across the AWAR should be reported by the Proponent to the GN. • During periods when large aggregations of caribou are detected near the Project, harvest monitoring intensity should be increased to ensure that levels of caribou harvesting are properly documented. <p>Commentary: The reference in Bullet 3 above to a no-shooting zone as a condition of public access to the AWAR is a reference to a policy of the Proponent and is not a reference to policy requirements of the Nunavut Wildlife Management Board or Nunavut Wildlife Act.</p>		
<p>49: The Proponent is encouraged to consult with the Nunavut Research Institute (NRI) on the research permitting process as it relates to the Nunavut Scientists Act. The Proponent is encouraged to share monitoring and research study design with the NRI four (4) months prior to the anticipated commencement of research activities to facilitate licensing review.</p> <p>Commentary: The NIRB recognizes that the Proponent would only consult with and share monitoring and research study design with the NRI for those research activities undertaken by the Proponent under the Project Certificate that would trigger the requirement for a scientific research licence under the Nunavut Scientists Act.</p>	Not specified	Not applicable. The Proponent indicated within its 2017 Annual Report that it currently does not have any active NRI permits in its name.

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50: <i>The Proponent shall develop a strategy for the recovery of terrestrial wildlife habitat in a progressive manner that is consistent with the Nunavut Wildlife Act.</i>	Not specified	Not yet achieved / Not yet applicable. See also condition #42.
51: <i>The Proponent shall not conduct routine helicopter flights over, or land in, Iqalugaaruup Nunanga Territorial Park. The Proponent will communicate this commitment to all helicopter companies contracted by it to undertake work at the Meliadine Project site prior to the start of such contracted work. Emergency flights, specifically medical evacuation flights and/or search and rescue overflights are excepted from adherence to this requirement.</i>	Not specified	In compliance. See: <i>Wildlife Protection and Response Plan – Appendix A: Air Traffic Management Plan</i> (November 2015). See also Condition #70.
52: <i>The Proponent shall undertake periodic surveys and a habitat assessment for muskoxen in the regional study area by partnering with, or complementing, the existing regional muskox monitoring programs.</i>	Not specified	In compliance. See Condition #45 and #47.
53: <i>Prior to construction of Project infrastructure and Phase 2 of the all-weather access road, the Proponent shall conduct a survey that is sufficient to locate any dens of foxes, bears or wolverines that could be damaged or destroyed during construction or operation of the Project.</i>	<i>Survey results shall be submitted to the NIRB at least 60 days prior to the commencement of construction activities, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	Partially in compliance. Survey completed in June 2017 and report submitted to the NIRB in August 2017. No active den sites were observed. The NIRB notes the Proponent intends to complete follow-up surveys in 2018 prior to construction and is currently awaiting this update. Information is also expected to be included in the annual report.
54: <i>The Proponent shall ensure that road safety barriers or berms associated with Project infrastructure, all-weather access road and associated roads/trails are constructed to allow for the safe passage of caribou and other terrestrial wildlife while achieving the objective of separating public road use with Project-related mine traffic.</i>	Not specified	In compliance. The Proponent's Final Environmental Impact Statement (FEIS) and Terrestrial Environment Management and Mitigation Plan (TEMMP) indicates that the design of roadways is such that wildlife movement should not be affected (e.g., by creating shallower shoulder angles on the access road, and by using finer gravel rather than large boulders on haul roads); snow is also levelled at the edges of roads to minimize barriers. The NIRB understands in 2018 the Proponent is unsure if it will be constructing the ATV/snowmobile trail to bypass the mine site (running from the Meliadine Mine Gatehouse to the Meliadine esker) as the trail may not be required. The NIRB requests an update on what the steps are going forward as it appears that not all drivers sign in at the

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		<p>gate and some may not be aware of the rules of the AWAR.</p> <p>The NIRB has not been made aware of any issues with wildlife crossing and expects that wildlife monitoring associated with the Terrestrial Environment Management and Mitigation Plan (TEMMP), as well as continued consultation/communication with the public and other stakeholders would indicate any issues with wildlife being able to cross the road and trails.</p>
<p>55: <i>In consultation with the Government of Nunavut (GN) and other affected parties, the Proponent shall set thresholds for direct mortality of wolf, grizzly bear, polar bear, wolverine, and fox to ensure monitoring and mitigation for the Project is responsive to undesirable rates of mortality. The Proponent shall reach an agreement with the appropriate Designated Inuit Organization regarding compensation or any direct mortality of wildlife resulting from the Project.</i></p>	Not specified	<p>In compliance. See:</p> <ul style="list-style-type: none"> • <i>Terrestrial Environment Management and Mitigation Plan</i> (November 2015) • Inuit Impact Benefit Agreement (IIBA) between the Proponent and the Kivalliq Inuit Association
<p>56: <i>The Proponent shall report annually to the NIRB regarding its terrestrial environment monitoring efforts, with inclusion of the following information:</i></p> <p><i>a. Description of all updates to terrestrial ecosystem baseline data;</i></p> <p><i>b. A description of the involvement of Inuit in its monitoring programs;</i></p> <p><i>c. A detailed presentation and analysis of the distribution relative to Project infrastructure and activities for caribou and other terrestrial mammals observed during surveys and incidental sightings;</i></p> <p><i>d. Results of the annual monitoring program, including field methodologies and statistical approaches used to support conclusions drawn; and</i></p> <p><i>e. An assessment and presentation of annual environmental conditions including timing of snowmelt, green-up, as well as standard weather summaries.</i></p>	Not specified	<p>Partially in compliance. The NIRB acknowledges the Project is in construction and acknowledges receipt of the first (2017) Annual Terrestrial Environment Management and Monitoring Plan (TEMMP) Report; however, the majority of items specified in this condition were not addressed in the report. For example, additional detail on monitoring protocols and survey effort within the year is required, including involvement of Inuit if applicable. The NIRB also notes that within comments on the Proponent's Annual Report, the GN recommended the Proponent acquire and use updated caribou data.</p> <p>The NIRB also reminds the Proponent that any bird nest surveys completed and any bird nests found on site and subsequent actions by Agnico Eagle should be reported on annually. See Condition #61.</p>
<p>57: <i>Within its annual report to the NIRB, the Proponent shall incorporate a review section which includes:</i></p> <p><i>a. An examination for trends in the measured natural variability of Valued Ecosystem Components in the region relative to the baseline reporting;</i></p> <p><i>b. A detailed analysis of wildlife responses to operations with emphasis on wildlife behaviour, mortalities and displacements (if any), and responses to operations of the all-weather</i></p>	Not specified	<p>Not yet applicable. The NIRB acknowledges the Project is in Construction and the practicality of an assessment of trends is limited at this time. The Proponent has indicated that it will complete a detailed analysis every three (3) years, beginning with the 2019 annual report that will summarize data from 2017, 2018, and 2019.</p>

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<p>access road and associated access roads/trails; c. A demonstration and description of how the monitoring results, including the all-weather access road and associated access roads/trails contribute to cumulative effects of the project; and d. Any proposed changes to the monitoring survey methodologies, statistical approaches or proposed adaptive management stemming from the results of the monitoring program.</p>		
BIRDS AND BIRD HABITAT		
58: <i>The Proponent shall ensure all employees working at Project sites receive awareness training regarding the importance of avoiding known nests and nesting areas and avoiding large concentrations of foraging and moulting birds.</i>	Not specified	In compliance. See <i>Wildlife Protection and Response Plan</i> , Version 7 (January 2018).
59: <i>If Species at Risk or their nests and eggs are encountered during Project activities or monitoring programs, the primary mitigation measure must be avoidance. The Proponent shall establish clear zones of avoidance based on the species-specific nest setback distances outlined in the Terrestrial Environment Management and Monitoring Plan.</i>	Not specified	In compliance. See <i>Terrestrial Environment Management and Monitoring Plan, Version 2</i> (November 2015) for setback distances. The NIRB notes any nests found and any subsequent actions taken by the Proponent should be reported on annually. See also condition #61 and #62.
60: <i>The Proponent shall ensure that the mitigation and monitoring strategies developed for Species at Risk are updated as necessary to maintain consistency with any applicable status reports, recovery strategies, action plans and management plans that may become available during the duration of the Project.</i>	Not specified	In compliance. The NIRB expects the Proponent to regularly check for updates to the Species at Risk registry and associated strategies and plans, and to update its Terrestrial Environment Management and Monitoring Plan or Shipping Management Plan accordingly. In 2017, the Proponent added Harlequin Duck at the request of Environment and Climate Change Canada.
61: <i>Prior to bird breeding season, the Proponent shall either conduct clearing activities or identify and install nesting deterrents (e.g., flagging) to discourage birds from nesting in areas likely to be disturbed by construction/clearing activities. If clearing is to take place during the nesting season, a nest survey should take place to identify nests and any identified nests must remain undisturbed until the young have fledged or left the nest. Any nests identified shall be included as part of the annual reporting for the Terrestrial Environmental Mitigation and Monitoring Plan (TEMMP).</i>	Not specified	In compliance. The Proponent informed the NIRB that a migratory bird nest was found at the Itivia site in June 2017. The Proponent noted it contacted the Conservation officer and the nest was avoided and monitored until successful hatching. (The NIRB notes this was not reported on in the 2017 Annual TEMMP report and should have been.) See condition #62.
62: <i>The Proponent shall protect any nests found (or indicated nests) with a buffer zone determined by the setback distances outlined in</i>	Not specified	In compliance. See Conditions #59 and #61. The NIRB expects any nests found on site and the subsequent actions taken by

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<i>its Terrestrial Environment Mitigation and Monitoring Plan (TEMMP), until the young have fledged. If it is determined that observance of these setbacks is not feasible, the Proponent will develop nest-specific guidelines and procedures to ensure bird's nests and their young are protected.</i>		Agnico Eagle should be reported on annually.
63: <i>Any incidents of bird mortalities associated with lighting infrastructure, construction activities, and Project vessel operations are to be recorded and reported to Environment Canada (Canadian Wildlife Services). The Proponent shall work with the Canadian Wildlife Services to determine appropriate recording and reporting format and timing.</i>	Not specified	In compliance. The Proponent commits to notifying Environment and Climate Change Canada of any such bird mortalities in its Shipping Management Plan. The NIRB has not been made aware of any failures to comply with this. The Proponent indicated in its 2017 Annual Report that no bird mortalities occurred that year.
64: <i>The Proponent shall develop a framework for monitoring of marine bird species and their habitat in the event of a major marine fuel spill. Specific details regarding the scope of follow-up monitoring may be further refined if and when such an event were to occur.</i>	<i>The framework should be submitted to the NIRB at least 90 days prior to conducting any Project-related shipping, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See: <i>Shipping Management Plan, Version 7</i> (March 2018)
65: <i>The Proponent shall maintain reduced speeds to sufficiently ensure that wakes are equal or less than the mean natural seasonal wave height to prevent wake action from negatively impacting migratory bird nests in low lying shoreline habitat.</i>	Not specified	In compliance. See: <i>Shipping Management Plan, Version 7</i> (March 2018).
66: <i>The Proponent shall ensure all Project vessels are checked for bird strikes after a suspected event and include details of its protocol to do so, as well as results, within its updated Terrestrial Environment Mitigation and Monitoring Plan.</i>	Not specified	Partially in compliance. See: <ul style="list-style-type: none"> <i>Shipping Management Plan, Version 7</i> (March 2018). Marine Mammal and Seabird Observer (MMSO) program results (2016 Annual Report, Appendix I). However, while the raw data is provided in the appendix, the NIRB expects a summary of the results with interpretation and discussion to be provided within the main text of the annual report.

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67: <i>The Proponent shall submit an updated Oil Pollution Prevention Plan including measures to avoid adverse effects to species at risk and migratory birds from spills, as well as details regarding monitoring of effects of a spill on species at risk and migratory birds.</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> Oil Pollution Prevention Plan, Version 1.2 (February 2018) Shipping Management Plan, Version 7 (March 2018).
68: <i>The Proponent shall demonstrate consideration for the potential cumulative effects of other development projects and shipping activities (including community resupply) when assessing their cumulative effects on marine birds in the Hudson Strait, in its annual report.</i>	Not specified	Not yet applicable. The Proponent has indicated that it will complete its first cumulative effects assessment for the 2019 annual report to allow for three (3) years of data collection.
69: <i>Subject to safety requirements, the Proponent shall require all Project related aircraft to maintain a cruising altitude of at least:</i> <i>a. 650 m during point to point travel when in areas likely to have migratory birds</i> <i>b. 1100 m vertical and 1500 m horizontal distance from observed concentrations of migratory birds</i> <i>c. 1100 m over the area identified as a key site for moulting snow geese during the moulting period (July-August), and if maintaining this altitude is not possible, maintain a lateral distance of at least 1500 m from key sites for moulting snow geese.</i>	Not specified	In compliance. See also Condition #51. The NIRB acknowledges the Proponent's inclusion of such restrictions in its <i>Terrestrial Environment Management and Monitoring Plan Version 2</i> (November 2015) and its <i>Wildlife Protection and Response Plan – Appendix A: Air Traffic Management Plan</i> (January 2018). In 2017 the NIRB noted a slight discrepancy in the horizontal and vertical distances included in the Proponent's plans compared with the numbers in this term and condition, which comes from Environment and Climate Change Canada. Agnico Eagle has indicated that the plan will be brought into compliance in the next review cycle.
70: <i>The Proponent shall ensure that pilots are informed of minimum cruising altitude guidelines and that a daily log or record of flight paths and cruising altitudes of aircraft within all Project areas is maintained and made available for regulatory authorities such as Transport Canada to monitor adherence and to follow up on complaints.</i>	Not specified	In compliance. See: <i>Wildlife Protection and Response Plan – Appendix A: Air Traffic Management Plan</i> (March 2018). See also #51 and #69.
71: <i>The Proponent shall develop detailed and robust mitigation and monitoring plans for migratory birds, reflecting input from relevant agencies, the Kivalliq Inuit Association and communities.</i>	Not specified	Not yet achieved. The NIRB expects details of the Proponent's consultation / collaboration with other stakeholders and agencies to be provided in its future annual reports. The NIRB emphasizes the importance of having robust plans in place before operations begin.
72: <i>The Proponent shall continue to develop and update relevant monitoring and management plans for migratory birds under the Proponent's Environmental Protection Plan and Terrestrial Environment Mitigation and Monitoring Plan (TEMMP) prior to construction. The key indicators for follow up monitoring under this plan will include upland</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> <i>Terrestrial Environment Management and Monitoring Plan, Version 2</i> (November 2015) <i>Shipping Management Plan, Version 7</i> (March 2018).

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<i>birds (including migratory birds), waterbirds, raptors, and seabirds including migration and wintering.</i>		
73: <i>The Proponent's monitoring program shall assess and report, on annual basis, the extent of terrestrial habitat loss due to the Project to verify impact predictions and provide updated estimates of the total Project footprint.</i>	Not specified	Not yet achieved / Not yet applicable. In Agnico Eagle's 2017 Annual Report for the Meliadine Gold Mine (Appendix M), it is a preliminary estimate of approximately 55 ha is reported. In the 2017 TEMMP report, the Proponent indicated it will, at three (3) year intervals, report on the area of the mine footprint compared to the permitted area, beginning in the first year post-construction. The NIRB expects this summary to be reported in terms of specific plant habitats and specific wildlife habitats as well. See also Condition #35.
74: <i>The Proponent's Terrestrial Management and Monitoring Plan (TEMMP) shall include mitigation measures implemented to prevent the use of water attenuation ponds by waterfowl and waterbirds and monitoring that assesses whether the mitigation measures are working or revised or further deterrent measures are required.</i>	Not specified	Partially in compliance. The TEMMP (2015) includes the Proponent's intent to use deterrents (e.g., cannons) to avoid use of water attenuation ponds by birds. In 2017 the Proponent noted the cannons were found to be ineffective and other methods were being evaluated. The NIRB notes the TEMMP should be revised accordingly and the annual TEMMP report should include monitoring data related to bird use of water attenuation ponds and use of deterrents.
75: <i>The Proponent shall implement mitigation measures and monitoring programs to limit the attraction of predators and scavengers to Project facilities in the TEMMP and other plans such as the Landfill and Waste Management Plan as appropriate.</i>	Not specified	In compliance. The Proponent reported that it is working on elimination of attractants to wildlife. See <ul style="list-style-type: none"> • <i>Terrestrial Environment Management and Monitoring Plan, Version 2 (November 2015)</i> • <i>Landfill and Waste Management Plan, Version 6 (March 2018)</i>
MARINE ENVIRONMENT		
76: <i>The Proponent shall update all relevant plans including, but not limited to: the Shipping Management Plan, Wildlife Mitigation and Monitoring Plan, and Adaptive Management Plan, in order to address concerns and identify potential impacts of the Project and proposed mitigation measures designed to protect the integrity of the marine environment. The Shipping Management Plan shall also incorporate updates for all Project-related shipping.</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> • <i>Shipping Management Plan, Version 7 (March 2018)</i> • <i>Spill Contingency Plan, Version 7 (March 2018)</i> • <i>Oil Pollution Emergency Plan, Version 1.2 (March 2018)</i>

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77: <i>The Proponent shall ensure that it maintains the necessary equipment and trained personnel to respond to all sizes of potential spills associated with the Project in a self-sufficient manner.</i>	Not specified	In compliance. See <i>Spill Contingency Plan, Version 7</i> (March 2018). The Proponent also noted in its 2017 Annual Report that it held a two day spill clean-up course for and is planning a mock spill training course for 2018.
78: <i>Prior to the shipping of Project supplies, the Proponent shall conduct fuel spill dispersion modeling that will, at a minimum, consider:</i> <i>a. Modeling of oil spills in the following areas:</i> <i>i. Pinch points, including: Hudson Strait, Melvin Bay area including Itivia Harbour and Panorama Island;</i> <i>ii. Shallow water and shorelines; and,</i> <i>iii. Areas that have been identified as having high flows and/or high concentrations of marine mammals, marine fish or seabirds;</i> <i>b. Open water and ice-covered conditions;</i> <i>c. Spill volumes up to and including loss of a full tanker cargo; and,</i> <i>d. Differences in the quantity and properties of each type of bulk fuel transported by vessels when they are at, or in transit to, the port of Rankin Inlet.</i> Commentary: <i>Modelling considerations related to item (b) should be inclusive of seasonal ice variability, i.e. ice formation and break up.</i>	<i>Results of the spill dispersion modeling should be submitted to the NIRB at least 90 days prior to the commencement of construction, with requirements for annual reporting to be determined following approval of the Project by the Minister.</i>	In compliance. See <i>Shipping Management Plan, Version 7</i> (March 2018).
MARINE WILDLIFE		
79: <i>Prior to any Project-related shipping, the Proponent will update its marine baseline information to ensure that it includes the most recent information on marine wildlife abundance and distribution, carefully considers seasonal distribution patterns of marine wildlife, and incorporates western scientific and Inuit Qaujimajatuqangit knowledge sources. The updated marine baseline should be made available to appropriate authorities for feedback, then incorporated into the Proponent's Shipping Management Plan (SMP), with continued updates on a regular basis as new information becomes available.</i>	<i>Updated baseline should be provided to the NIRB and appropriate authorities prior to the commencement of Project-related shipping, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See: <i>Shipping Management Plan, Version 7</i> (March 2018).
80: <i>The Proponent shall assess its available baseline information for Melvin Bay and for the area surrounding the fuel transshipment anchorage to ensure that both are adequate for the detection of Project-related impacts, particularly related to contaminants.</i>	Not specified	In compliance. See: <i>Shipping Management Plan, Version 7</i> (March 2018).

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<p>81: Prior to any Project-associated shipping, the Proponent shall revise and update the Terrestrial Environment Management Plan (TEMMP) and/or the Shipping Management Plan (SMP) to include following information:</p> <p>a. a plan for involvement of local hunters in wildlife baseline studies and monitoring program;</p> <p>b. a plan for coordinating wildlife studies/monitoring activities with other organizations, institutions, government departments and/or individual researchers conducting wildlife studies in the regional study area; and</p> <p>c. measures to be applied to avoid or reduce the disturbance, harassment, injury or mortality of marine mammals due to shipping activities.</p>	<p>Updates to the relevant plan(s) should be provided to the NIRB a minimum of 120 days prior to the commencement of Project-related shipping, with annual reporting requirements to be determined following approval of the Project by the Minister</p>	<p>In compliance. See Agnico Eagle's Shipping Management Plan, Version 7 (March 2018).</p>
<p>82: The Proponent shall require all contracted shipping companies to provide full-time marine wildlife monitoring using trained observers and established data collection and recording protocols. Monitoring plans should include provisions for all Species At Risk Act (SARA) and for the Committee on the Status of Endangered Wildlife in Canada (COSEWIC) listed species (birds and mammals).</p> <p>Commentary: The Proponent is encouraged to consult with the parties involved with marine wildlife management to develop standardized marine wildlife data collection and recording protocols.</p>	<p>Updated monitoring plans should be provided to the NIRB a minimum of 120 days prior to the commencement of Project-related shipping, with annual reporting requirements to be determined following approval of the Project by the Minister</p>	<p>Partially in compliance.</p> <ul style="list-style-type: none"> Shipping Management Plan, Version 7 (March 2018). Marine Mammal and Seabird Observer (MMSO) program results (2016 Annual Report, Appendix I). <p>The Proponent has also noted it has initiated discussions with the HTO to collaborate on wildlife monitoring. However, while the raw data is provided, the NIRB expects a summary of the results with interpretation and discussion to be provided within the main text of the annual report. In addition, the NIRB acknowledges Environment and Climate Change Canada's comments regarding standardized protocols and databases and encourages the Proponent to follow-up.</p>
<p>83: The Proponent shall ensure that, subject to vessel and human safety considerations, all Project shipping adhere to the following mitigation procedures while in the vicinity of marine mammals (including polar bear) and birds:</p> <p>a. Marine mammals will be given right of way;</p> <p>b. Ships will when possible, maintain a straight course and constant speed, avoiding erratic behavior; and</p> <p>c. When marine mammals appear to be trapped or disturbed by vessel movements, the vessel will implement appropriate measures to mitigate disturbance, including stoppage of movement until wildlife have moved away from the immediate area.</p>	<p>Not specified</p>	<p>In compliance. See: Shipping Management Plan, Version 7 (March 2018).</p>

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84: <i>Prior to any Project-related shipping, the Proponent will prepare a map of terrestrial walrus haulouts (uglit) in the Project area, and use this information for route planning, fuel spill modeling, and sensitive area identification. The map should include all available sources of information on uglit locations, including scientific knowledge and Inuit Qaujimagatuqangit and shall be updated by the Proponent whenever new information becomes available.</i>	<i>Mapping and associated details should be provided to the NIRB a minimum of 180 days prior to the commencement of Project-related shipping, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See: <i>Shipping Management Plan, Version 7</i> (March 2018).
85: <i>The Proponent shall consider ways to monitor disturbance to walruses at terrestrial haulout sites, including but not limited to remote monitoring (e.g., time-lapse cameras) and community-based monitoring or Inuit Qaujimagatuqangit surveys.</i>	Not specified	Not Yet Achieved. The NIRB expects the Proponent to describe its plans to monitor disturbance to walruses at terrestrial haul out sites in its next Annual Report. A log of any public consultation should also be included in future reports.
86: <i>The Proponent is encouraged to liaise with relevant stakeholders, regulatory agencies and/or forums (e.g. the Marine Environmental Working Group associated with the Mary River Project), that might allow for participation in relevant research and management initiatives and increasing understanding and mitigation of potential cumulative effects associated with the Project's shipping activities through the Hudson Strait.</i>	Not specified	Not Yet Achieved. The NIRB expects details of the Proponent's communication/collaboration with other stakeholders and agencies to be provided in its future Annual Reports.
<u>ECONOMIC DEVELOPMENT, CONTRACTING, AND BUSINESS OPPORTUNITIES</u>		
87: <i>The Proponent is strongly encouraged to participate in the work of the Kivalliq Socio-Economic Monitoring Committee along with other agencies and the communities of the Kivalliq region, and to identify areas of mutual interest and priority for inclusion into a collaborative monitoring framework that includes socio-economic priorities related to the Project, communities, and the Kivalliq region as a whole.</i>	Not specified	In compliance. The Proponent has been participating in the Kivalliq Socio-Economic Monitoring Committee for several years because of the Meadowbank Gold Mine.
88: <i>The Proponent is encouraged to work in collaboration with other socio-economic stakeholders including for example, the KIA, GN, AANDC, and communities of the Kivalliq region, to establish a socio-economic working group for the Project to develop and oversee the Meliadine Socio-economic Monitoring Program. The working group should develop a Terms of Reference which outlines each member's roles and responsibilities with</i>	Not specified	In compliance. Terms of Reference for the Agnico Eagle Kivalliq Projects Socio-Economic Monitoring Working Group (SEMWG) were submitted in December 2017. The NIRB would expect to receive any updates should the document be modified.

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<i>regards to, where applicable, project-specific socio-economic monitoring throughout the life of the Project. The Terms of Reference are to be provided to the NIRB upon completion, and within one year of issuance of the Project Certificate.</i>		
89: <i>The Proponent shall develop the Meliadine Socio-economic Monitoring Program to monitor the predicted impacts outlined in the FEIS as well as regional concerns identified by the Kivalliq Socio-economic Monitoring Committee (SEMC). Where possible, the Proponent is encouraged to work in collaboration with all other socio-economic stakeholders such as the KIA, GN, AANDC and the communities of the Kivalliq region in developing this program, which should include a process for adaptive management and mitigation in the event unanticipated impacts are identified. Details of the Meliadine Socio-economic Monitoring Program are to be provided to the NIRB upon finalization, and within one year of issuance of the Project Certificate.</i>	Not specified	In compliance. See Agnico Kivalliq Projects Socio-Economic Monitoring Program (February 2018). Should there be any update to the Plan the NIRB would expect the materials to be submitted.
90: <i>Prior to the commencement of operations, the Proponent is required to undertake an analysis of the risk of temporary mine closure, giving consideration to how communities in the Kivalliq region may be affected by temporary and permanent closure of the mine, including economic, social and cultural effects. The results of this analysis are to be provided to the NIRB upon completion.</i>	Not specified	Not yet achieved; however, this is work Agnico Eagle anticipates beginning in 2018.
91: <i>Within 3 months of the NIRB's acceptance of the Proponent's analysis of the risk of temporary mine closure referenced above, the proponent is expected to update its Socio-Economic Management Plan or to include within a newly developed plan or framework, a description of its plan to collect and analyze Project-specific and regional data at closure and post-closure phases, as well as its defined measures to help mitigate impacts which may result from Project closure(s), both temporary and final.</i>	Not specified	Not yet achieved; however, this is work Agnico Eagle anticipates beginning in Q2 2019
<u>EMPLOYMENT</u>		
92: <i>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:</i> <i>a. Title of positions required by department and division;</i>	<i>Within 6 months of Project Certificate issuance and as required thereafter.</i>	In compliance. Sent by email to NIRB November 5, 2015.

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<p><i>b. Quantity of positions available by Project phase and year;</i></p> <p><i>c. Transferable skills, both certified and uncertified which may be required for, or gained during, employment within each position; and,</i></p> <p><i>d. The National Occupational Classification (NOC) code for each individual position.</i></p> <p><i>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.</i></p>		
<p>93: <i>The Proponent is encouraged to register all trades occupations, journeypersons and apprentices working with the Project and to register any trades occupations listed in its forecast, as well as to provide the Government of Nunavut with information regarding the number of registered apprentices and journeypersons from other jurisdictions employed at the Project during each year of the Project's life.</i></p>	Not specified	Not yet achieved / not yet applicable. There were no registered tradespersons / journeypersons/ apprentices at Meliadine in 2017.
<p>94: <i>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.</i></p>	Not specified	In compliance. Sent by email to NIRB November 20, 2015. In its 2017 annual report, Agnico Eagle noted a Labour Market Analysis is currently underway and is expected to be delivered mid-2018.
EDUCATION AND TRAINING		
<p>95: <i>The Proponent is encouraged to work with training organizations and/or government departments offering mine-related or other training in order to provide additional opportunities for residents and employees to gain meaningful and transferable skills and certifications.</i></p>	Not specified	In compliance. See Agnico Eagle's 2017 Annual Report (Appendix M) and Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report (July 2018). However, the NIRB recommends additional details be provided.
<p>96: <i>Prior to construction, the Proponent shall develop an easily referenced listing of formal certificates and licences that may be acquired via on-site training or training during Project employment. The listing shall indicate which of these certifications and licences would be transferable to a similar job site within Nunavut, and should be updated on an annual basis, and is to be provided to the NIRB upon</i></p>	<p><i>The initial listing should be provided to the NIRB at least 60 days prior to the start of construction, and annually thereafter or as</i></p>	In compliance. A list was provided within the Proponent's 2016 Annual Report. The NIRB notes that regular updates are expected.

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completion and as may be revised.	may otherwise be required.	
97: The Proponent's project-specific socio-economic monitoring program should be updated to address the potential impacts to education and training which may arise from temporary, final and/or post-closure phases.	Not specified	Not yet achieved. See also conditions #90 and #91.
98: The Proponent is encouraged to work with the members identified as potential stakeholders in the socio-economic monitoring working group and with the Kivalliq Socio-Economic Monitoring Committee to review and monitor education utilization rate trends on an on-going basis to understand if the Project can be determined to be having an impact on the education system of the Kivalliq region and/or on any communities in particular.	Not specified	In compliance. See Agnico Kivalliq Projects Socio-Economic Monitoring Program (February 2018).
POPULATION DEMOGRAPHICS		
99: The Kivalliq Socio-Economic Monitoring Committee and its membership are encouraged to engage in the monitoring of demographic changes including the movement of people into and out of the Kivalliq communities and the territory as a whole. This information may be used in conjunction with monitoring data obtained by the Proponent from recent hires and/or out-going employees in order to assess the potential effects of the Project on migration.	Not specified	In compliance. See Agnico Kivalliq Projects Socio-Economic Monitoring Program (February 2018) and see Condition #101. However, the NIRB recommends additional details be provided in subsequent annual reports.
100: The Proponent is encouraged to work with the Kivalliq Socio-Economic Monitoring Committee to design and implement a voluntary survey to be offered to its Nunavummiut employees on an annual basis in order to identify changes of address, housing status (i.e. public/social, privately owned/rented, government, etc.), and migration intentions, while respecting confidentiality of all persons involved. The survey should be designed in collaboration with the Government of Nunavut, the Nunavut Housing Corporation and other relevant stakeholders. Non-confidential results of the survey are to be reported to the Government of Nunavut and the NIRB.	Not specified	Not yet achieved. The Proponent indicated in its 2017 annual report that it has been in correspondence with the Nunavut Housing Corporation about survey design and hopes to make progress on this project in 2018. See also Condition #113.
101: The Proponent shall include with its annual reporting to the NIRB a summary of employee origin information as follows: a. The number of Inuit and non-Inuit employees hired from each of the Kivalliq communities, specifying the number from each; b. The number of Inuit and non-Inuit employees hired from each of the Kitikmeot and Qikiqtani regions, specifying the number from each; c. The number of Inuit and non-Inuit employees	Not specified	Partially in compliance. See: Agnico Kivalliq Projects Socio-Economic Monitoring Program (February 2018). The NIRB notes that the specific information requests in (a) through (d) was not reported in the 2017 SEMP report nor in the 2017 Annual Report, although the information was provided in Agnico Eagle's January 2018 response to NIRB's 2017 recommendations.

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<p><i>hired from a southern location or other province/territory outside of Nunavut, specifying the locations and the number from each; and</i></p> <p><i>d. The number of non-Canadian foreign employees hired, specifying the locations and number from each foreign point of hire.</i></p>		
<u>TRADITIONAL ACTIVITY AND KNOWLEDGE</u>		
<p>102: <i>Prior to commencing construction of the Discovery spur road to pass Meliadine Lake, the Proponent shall provide to the NIRB, details regarding the design features for the Meliadine Lake community boat launch, including traffic turnoffs from the all-weather access road, relevant signage, parking areas, considerations for public safety around the boat launch, plans for garbage removal and treatment of other refuse including buildings and equipment which may be stored at the site, as well as plans to monitor and/or maintain the site, including frequency and timing. These details, once finalized, shall also be incorporated, as updates, to various mitigation, monitoring and/or management plans as applicable.</i></p>	<p>Initial details to be provided prior to commencement of construction of the Discovery spur road; submission of updated plans and monitoring details to be determined following approval of the Project by the Minister</p>	<p>Not yet achieved. The Proponent has indicated this will be in 2024.</p>
<p>103: <i>The Proponent is encouraged to consult with the Kangiqliniq Hunters and Trappers Organization and the Kivalliq Socio-Economic Monitoring Committee and to make all reasonable efforts to engage Elders and community members of the Kivalliq communities in order to have community level input into updates to its monitoring plans, programs and mitigative measures. This type of engagement will ensure that these programs and measures have been informed by traditional activities, cultural resources, and land use as such may be implicated or impacted by ongoing Project activities. All plans are to include a feedback mechanism for consulting with residents of the Kivalliq, including the provision of results from the Proponent's wildlife monitoring programs to each community. The Proponent shall submit updated plans to the NIRB within 30 days' of their revision and/or finalization.</i></p>	<p>Not specified</p>	<p>In compliance. See:</p> <ul style="list-style-type: none"> • Agnico Eagle's 2017 Annual Report (Appendix K, M) • Agnico Eagle's Response (July 2018) to INAC's comments on the annual report. <p>The NIRB acknowledges the efforts of the Proponent and requests that greater detail of consultation and results be provided in subsequent annual reports.</p>

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NON-TRADITIONAL LAND USE AND RESOURCE USE		
104: <i>The Proponent is encouraged to consult with outfitting and guiding businesses that operate in the LSA and RSA regarding use of the area, specifically as it relates to hunting, fishing and guiding within proximity of the AWAR. Results of this consultation should be incorporated into updated plans where applicable.</i>	Not specified	Not yet achieved. The Proponent has noted it will update its community engagement plan in 2018 and that it will hold annual AWAR meetings in the communities.
105: <i>The Proponent is strongly encouraged to consider incorporating information obtained from local outfitting and guiding businesses into its Hunter Harvest Survey where possible, and to include these organizations as potential respondents to surveys undertaken.</i>	Not specified	Not yet achieved. In January 2018, in response to last year's Board recommendations, the Proponent noted that it has initiated a Hunter Harvest Study committee with elders, the KIA, GN, and HTO representatives, and that a 3 rd -party consultant will be used to develop a new HHS in time for the 2018 fall caribou migration. In its 2017 Annual Report, the Proponent also noted that Agnico Eagle is initiating discussions with the HTO regarding implementation. Agnico Eagle also noted the survey will incorporate local observations and community knowledge, including the information from non-traditional use, such as outfitting and guiding. The NIRB expects the survey and first survey results to be provided within the next annual report. See also condition #46.
CULTURAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES		
106: <i>The Proponent shall, in consultation with the Government of Nunavut's Territorial Archaeologist, determine a reporting frequency for the provision of inspection reports to the Government of Nunavut regarding the status of the Meliadine River Bridge, the Char River Bridge, and the M5 Bridge Crossing during the spring freshet period (mid-May to June) and during the remainder of the ice-free period to freeze-up (July to October).</i>	Not specified	In compliance. The Proponent indicated it conducted 7 inspections in 2017. See also comments from the Government of Nunavut on Agnico Eagle's 2017 annual report (May 18, 2018 and email correspondence July 27, 2018), and response (July 6, 2018).
107: <i>The Proponent shall consult with the Government of Nunavut – Department of Culture and Heritage in developing a mitigation plan to address ice buildup at the Meliadine River Bridge, the Char River Bridge, and the Bridge Crossing at M5. The Proponent shall submit this mitigation plan to the NIRB once finalized.</i>	Not specified	In compliance. The Proponent has indicated it conducts frequent inspections and no significant ice buildup has been noticed to date.

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INDIVIDUAL AND COMMUNITY WELLNESS		
108: <i>The Proponent is encouraged to consider providing access to counseling and treatment programs for substance and gambling addictions, and programs which address domestic, parenting, and marital issues that could affect employees and/or their families.</i>	Not specified	In compliance. See Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report (July 2018).
109: <i>The Proponent is encouraged to work with the Kivalliq Socio-Economic Monitoring Committee to monitor potential indirect effects of the Project, including indicators such as the prevalence of substance abuse, gambling issues, family violence, marital problems, rates of sexually transmitted infections and other communicable diseases and others as deemed appropriate.</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> • Agnico Kivalliq Projects Socio-Economic Monitoring Program (February 2018). • Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report (July 2018). See also Conditions #88 and #89. The NIRB acknowledges a lack of data limits reporting on indirect effects.
110: <i>The Proponent shall provide the NIRB with a description of wellness and cultural diversity/acceptance programming made available to employees and family or community members and shall report the following information with respect to each program to the NIRB annually:</i> <i>a. Language of instruction;</i> <i>b. Uptake by employees and/or family members where relevant, noting Inuit and non-Inuit participation rates;</i> <i>c. Completion rates for enrolled participants, noting Inuit and non-Inuit rates; and</i> <i>d. Issues as may relate to program content which may have been noted or present either on site or in the community and which affect Project employment or employee wellness.</i>	Not specified	In compliance. See Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report (July 2018). In future, the NIRB recommends additional detail be provided on the specific programs, including language of instruction.
111: <i>In its annual reporting to the NIRB, the Proponent is strongly encouraged to provide detailed descriptions of all employee programs and training including:</i> <i>a. Descriptions of the goals of each program offered;</i> <i>b. Language of instruction;</i> <i>c. Schedules and location(s) of when each program was offered;</i> <i>a. Uptake by employees and/or family members where relevant, noting Inuit and non-Inuit participation rates; and,</i> <i>b. Completion rates for enrolled participants, noting Inuit and non-Inuit rates.</i>	Not specified	In compliance. See Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report (July 2018). See also Condition #95. In future, the NIRB recommends additional detail be provided on the specific programs, including language of instruction.
112: <i>The Proponent is encouraged to investigate measures and programs designed to assist Project employees with pursuing home ownership or accessing affordable housing options.</i>	Not specified	In compliance. See Agnico Eagle's 2017 Annual Report, Appendix M.

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COMMUNITY INFRASTRUCTURE		
113: <i>The Proponent is encouraged to collaborate with the Kivalliq Socio-Economic Monitoring Committee and the Government of Nunavut – Nunavut Housing Corporation, to design and implement a voluntary employee survey to be completed on an annual basis in order to identify any changes of address, detailed occupancy status (i.e., public/social, privately owned/rented, government, number of people sharing the resident space, etc.), housing preferences, migration intentions, and reasons for migration while respecting confidentiality of all person involved. Non-confidential results of the survey are to be reported to the Government of Nunavut and the Nunavut Impact Review Board.</i>	Not specified	Not yet achieved. The Proponent indicated in its 2017 annual report that it has been in correspondence with the Nunavut Housing Corporation about survey design and hopes to make progress on this project in 2018. See also Condition #100.
114: <i>The Proponent is encouraged to collaborate with the Government of Nunavut – Nunavut Housing Corporation prior to the development and inception of its programs relating to financial literacy and planning to ensure that relevant and accurate information about housing and home ownership is available and considered for inclusion.</i>	Not specified	Not yet achieved. The Proponent indicated in its 2017 annual report that it has been in correspondence with the Nunavut Housing Corporation hopes to make progress in 2018. See also <i>Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report</i> (July 2018).
115: <i>The Proponent is encouraged to work collaboratively with the Government of Nunavut Department of Health to monitor the impacts of the Meliadine Gold Project on health services within the LSA communities and specifically, Rankin Inlet.</i>	Not specified	In compliance. See <i>Agnico Kivalliq Projects 2017 Socio-Economic Monitoring Report</i> (July 2018).
PUBLIC AND WORKER HEALTH AND SAFETY		
116: <i>The Proponent shall update the air quality monitoring aspect of its environmental and health risk monitoring program to include the following parameters for particulate matter:</i> <i>a. An analysis of the metals content of the dust collected in passive monitoring; and</i> <i>b. Discrete samples to be collected on a frequency to be determined in collaboration with the Government of Nunavut, from the camp, and analyzed for acrolein and aldehyde. Results are to be incorporated into the Proponent's annual reporting for submission to the NIRB.</i>	Not specified	Partially in compliance. See: <ul style="list-style-type: none"> • <i>Air Quality Monitoring Plan</i> (November 2015). The NIRB requests an update from the Proponent regarding item (b) – the Proponent's plans for testing for acrolein and aldehyde. • <i>Agnico Eagle's 2017 Annual Report – Appendix A (Air Quality Monitoring Report</i>. Note that no incinerator stack testing was completed in 2017 due to technical difficulties. See also Conditions #1 and #5.
ACCIDENTS AND MALFUNCTIONS		
117: <i>Prior to construction Phase 2 of the all-weather access road and the Rankin Inlet bypass road, the Proponent shall consult applicable laws in Canada and Nunavut as well as meet with all regulatory agencies and the public as it finalizes its road operations plans.</i>	Not specified	Not yet achieved. Expected prior to 2024.

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118: <i>The Proponent shall include in an updated Terrestrial Wildlife Management and Monitoring Plan (TEMMP), plans for increased caribou monitoring efforts including weekly winter track surveying and summer and fall surveys undertaken on foot twice per month. These results shall be reported to the NIRB with the Proponent's annual reporting requirements.</i>	Not specified	In compliance. See: <ul style="list-style-type: none"> • <i>Terrestrial Environment Management and Monitoring Plan (TEMMP), Version 2</i> (November 2015). • 2017 TEMMP report (February 2018).
119: <i>The Proponent shall include within its updated Terrestrial Wildlife Management and Monitoring Plan, a commitment to establishing deterrents along the AWAR at any areas where it is observed that caribou are attracted to the AWAR and their presence may present a risk of collisions with traffic along the AWAR (such as areas where caribou are utilizing the AWAR to facilitate movement, areas where caribou may be licking minerals/road salt from the road, areas where caribou are gathering to avoid insects, etc.).</i>	<i>The updated plan should be submitted to the NIRB at least 90 days prior to the start of construction, with annual reporting requirements to be determined following approval of the Project by the Minister.</i>	In compliance. See the <i>Terrestrial Environment Management and Monitoring Plan (TEMMP), Version 2</i> (November 2015). No mention of deterring caribou was noted in the 2017 TEMMP Report.
120: <i>The Proponent shall contract only Transport Canada certified shippers to carry cargo for the Project, and will ensure shippers are aware of the requirements of the Shipping Management Plan, the Risk Management and Emergency Response Plan and the Oil Pollution Emergency Plan (OPEP).</i> Commentary: <i>As clarified by Transport Canada, Transport Canada certifies "vessels" or "ships" and not the "shippers" themselves. The Term and Condition should be implemented with the recognition that the Proponent intends to use Canadian-flagged ships or vessels only.</i>	Not specified	In compliance. The Proponent sent the NIRB a copy of Transport Canada's certification for <i>Desgagnes Transarctik</i> December 9, 2016. On October 31, 2017, the NIRB was forwarded a letter sent earlier in the month from Nunavut Sealink and Supply Inc. to Agnico Eagle acknowledging it has and will continue to abide by Agnico Eagle's Shipping Management Plan (March 2017), but if required will deviate from the plan to ensure the safety of the vessel, environment, staff, and others. The NIRB expects the Proponent to include in its annual report, a summary of project-related shipping activities, including the number and schedule of ships received.
121: <i>The Proponent shall monitor the ingress/egress of Project related ships at Rankin Inlet and report any accidents or spills immediately to the regulatory agencies as required by law and to NIRB's Monitoring Officer.</i>	Not specified	In compliance. See <i>Shipping Management Plan, Version 7</i> (March 2018).
122: <i>The Proponent shall ensure that best practices are used at all times during ship to shore and other marine-based fuel transfer events, including implementing measures specifically designed to prevent leaks and spills resulting from ice forming on the hoses during fuel transfers.</i>	Not specified	In compliance. See <ul style="list-style-type: none"> • <i>Oil Pollution Emergency Plan, Version 1.2</i> (February 2018). • See <i>Shipping Management Plan, Version 7</i> (March 2018). The Proponent has committed to conduct all shipping in ice-free conditions. The

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		NIRB expects the Proponent to include the date(s) of marine-based fuel transfer events in its future Annual Reports along with a summary of weather/sea-ice conditions on those dates.
123: <i>The Proponent shall ensure that the necessary spill response equipment and training is available prior to commencing project shipping.</i>	Not specified	In compliance. See <i>Shipping Management Plan, Version 7</i> (March 2018).
124: <i>Prior to construction, the Proponent shall update its Spill Contingency Plan specific to a major spill event occurring on the bypass road and within proximity to (and including potential spills into) Nipissar Lake.</i>	<i>The updated plan should be submitted to the NIRB at least 90 days prior to the start of construction, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See <i>Spill Contingency Plan, Version 7</i> (March 2018)
125: <i>The Proponent shall implement all such measures necessary to protect public and mine traffic on all Project roads. The measures undertaken shall include, but are not limited to:</i> <i>a. Prior to expansion of the AWAR, the Proponent shall update its Roads Management Plan to include a detailed consultation plan specifying the methods the Proponent will use to provide the Kivalliq Inuit Association, members of the Hunters and Trappers Organizations in the area, residents of Rankin Inlet and the Hamlet of Rankin Inlet with information regarding the safety requirements of AWAR use. The updated Plan is to be submitted to the Nunavut Impact Review Board, Kivalliq Inuit Association, Kangiqliniq Hunters and Trappers Organization, and the Government of Nunavut;</i> <i>b. Prior to the opening of the AWAR to the public, and annually thereafter, advertise and hold at least one community meeting in the Hamlet of Rankin Inlet and Chesterfield Inlet to explain to the community the rules for use of the road;</i> <i>c. Prior to the opening of the AWAR to the public, the Proponent shall address enforcement of health and safety rules for the operation of the road (i.e., no shooting zone) and implement necessary communications with the public (i.e., signage and public meetings), which includes, but is not limited to:</i>	<i>The updated plan should be submitted to the NIRB at least 90 days prior to the start of construction, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	Partially in compliance. The NIRB understands Phase 2 of the AWAR is planned for 2024 and acknowledges the following: <ul style="list-style-type: none"> • Consultation plans and logs in the <i>Roads Management Plan</i> (March 2018) and in Appendix K of the main annual report. • Regulation and monitoring of traffic on the AWAR with signage and two manned gatehouses. • Log of traffic on the AWAR and comparison to predictions was included in the 2017 annual report (although the ATV traffic log was incomplete). • Road signage installed in 2017 in and around Rankin Inlet along the temporary access route from Itivia. • The Proponent has indicated additional signage has been ordered for 2018. The NIRB requests additional details (e.g., a map and date of completion) of the ATV/snowmobile trails and crossings including the trail to bypass the mine site being developed in consultation with the HTO. The NIRB also requests additional details of the consultation / engagement with parties and a summary of any public

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<p>i. Maintaining manned and unmanned gates as proposed along the all-weather access road;</p> <p>ii. The posting of signs in English and Inuktitut along the road at appropriate intervals (i.e., 10 km and bridge crossings); and</p> <p>iii. Place notices at least quarterly on the radio and television to explain to the community the rules for use of the road;</p> <p>d. Once the AWAR expansion is completed and the road is opened to the public, the Proponent shall conduct a vehicle survey four times annually (once during the weekdays during the winter season, once during the week end days during the winter season, once during the weekdays during the summer season and once during the week end days during the summer season) to record the number and types of mine vehicles and the number and type of public vehicles using the AWAR over a 12 hour period (8:00 am to 8:00 pm). The vehicle survey data shall be collated as indicated above and provided in the Proponent's Annual Report;</p> <p>e. Prior to the development of the Discovery deposit, the Proponent shall update its Road Management Plan for the planned operation of the twinned road which could include additional rules, Project infrastructure, or other measures designed to maintain safety for employees and the public; and</p> <p>f. Report all accidents or other safety incidents on the road, to the Government of Nunavut, Kivalliq Inuit Association, the Hamlet of Rankin Inlet and the NIRB immediately.</p> <p>Commentary: The reference under the Reporting Requirements to "90 days prior to the start of construction" is not intended to be tied to general project construction, but rather is intended to be linked to 90 days prior to the construction associated with the expansion of the AWAR (referred to as "Phase 2 of the AWAR development" in the Proponent's Final Environmental Impact Statement).</p>		<p>announcements and materials (e.g., website, radio ads, posters) regarding the road and trails. See also Conditions #48, #54, and #126.</p>
ALTERNATIVES ANALYSIS		
<p>126: Prior to expansion of the AWAR, the Proponent shall prepare and add to the finalized Roads Management Plan (SD 2-9), a detailed consultation plan specifying the methods the Proponent will use to provide the Kivalliq Inuit Association, members of the Hunters and Trappers Organizations in the area, residents of Rankin Inlet and the Hamlet of Rankin Inlet with information regarding the safety requirements and any limitations on public AWAR use (i.e. the "rules of the road")</p>	<p>The updated plan should be submitted to the NIRB at least 90 days prior to the start of construction, with annual reporting requirements to be determined following</p>	<p>Not yet achieved. The Proponent has indicated this updated plan will be provided in 2024. The Proponent has indicated it is finalizing a road safety guideline that will be communicated to the public and that Agnico Eagle will offer high-vis vests and buggy whips to ATV's accessing the AWAR. As with Condition #125, the NIRB encourages the Proponent to finalize associated plans and agreements as soon as possible to ensure public safety.</p>

<u>TERM & CONDITION</u> <u>(NIRB PROJECT CERTIFICATE NO. 006)</u>	<u>REPORTING</u> <u>REQUIREMENTS</u>	<u>COMPLIANCE ACHIEVEMENT</u>
<i>and to ensure that this information continues to be clearly communicated on an on-going basis while the public has access to the AWAR.</i>	<i>approval of the Project by the Minister</i>	The NIRB also expects the Proponent to provide regular updates of consultation and outreach activities.
127: <i>The Proponent shall, in coordination and consultation with the Kivalliq Inuit Association and the Hunters and Trappers Organizations of the Kivalliq communities, provide updates to its Shipping Management Plan to identify adaptive management measures that will be employed if effects monitoring identifies potential for effects on marine mammal populations along the shipping route.</i>	<i>The updated plan should be submitted to the NIRB at least 90 days prior to the start of construction, with annual reporting requirements to be determined following approval of the Project by the Minister</i>	In compliance. See: <i>Shipping Management Plan, Version 7</i> (March 2018).