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VOLUME 1 – POPULAR SUMMARY

Final Environmental Impact Statement (FEIS) – Meliadine Gold Project, Nunavut

REPORT



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VOLUME 1 MAIN ENVIRONMENTAL IMPACT STATEMENT POPULAR SUMMARY (ENGLISH)

Introduction

This Plain Language Summary focuses on topics that were identified as being the most important through the consultation process and the Nunavut Impact Review Board. Readers are asked to review the full F Environmental Impact Statement (FEIS) if they would like a more complete description of the Meliadine Gold Project (Project) and its potential effects (or impacts). It can be found on the Nunavut Impact Review Board (<http://www.nirb.ca/index.html>) public registry.

Regional Context

The Project is a proposed gold mine located north of the Hamlet of Rankin Inlet, in the Kivalliq region of Nunavut. The Meliadine property is made up of 52,173 ha: 887 ha as claims, and 51,286 ha as leases. As well, Agnico Eagle Mines Limited (AEM) has 3,430 ha of sub-surface Nunavut Tunngavik Inc. (NTI) concessions. The Project is mostly on Inuit Owned Lands (IOL RI-01, RI-02) with some Project infrastructure located within the municipal boundaries of Rankin Inlet.

Winters are long and cold in the Project area, while summers are short and cool. Glaciers moving across the land have determined the landscape (or how the land looks). Shrubby species like lingonberry and bearberry, and sedge vegetation are the most common plant community types in the Project area. Traditional plants such as crowberry, blueberry, and lingonberry are collected throughout the Project area for food. Traditional plants collected for medicinal purposes include Arctic willow and Labrador tea.

Caribou are an important part of Inuit life, providing food, fuel (from caribou fat), and materials for clothing, tools and traditional crafts. The region includes the summer range and calving grounds for Canada's largest caribou herds. The Qamanirjuaq caribou herd uses the Project area, while wolves are infrequently observed and polar bears are uncommon to the area. The region is also a major breeding and nesting ground for a variety of birds. The peregrine falcon population near Rankin Inlet is the highest known breeding density in the Arctic.



The Project area has many lakes, ponds, and streams. The quality of the water in the lakes, ponds, and streams that will be affected by the Project is similar to the quality of water in the other lakes, ponds, and streams. There are some metals in the water but not very much. Small and shallow ponds are common in the region but cannot be used by fish all year. Fish in the Project area are Arctic grayling, Arctic char, lake trout, round whitefish, cisco, burbot, slimy sculpin, ninespine stickleback, and threespine stickleback. Stickleback species are the most common fish species found in the area that was sampled. Meliadine Lake is an important lake for fishing for residents of Rankin Inlet. The most common fish in Meliadine Lake were threespine stickleback followed by cisco and Arctic char.

Project related shipping will use Itivia Harbour and Melvin Bay near Rankin Inlet. The water in Itivia Harbour and Melvin Bay is shallow. Itivia harbour is used by local community members for small boat operations. Arctic char are important food for the local community and are caught during August in Itivia Harbour and Melvin Bay. People harvest beluga whales, walruses, polar bears, ringed seals, bearded seals, harp seals, and harbor seals. Several marine bird species are known to eat and/or nest in the area and egg harvesting occurs in spring for goose, eider, tern, guillemot, and gull. Locally harvested shellfish species include blue mussels.

The Kivalliq region is sparsely populated. It is part of the Inuit homeland and Inuit form over 80% of the population. Over the last 10 years, the fastest growing community in the Project area has been Whale Cove, and the slowest Chesterfield Inlet. Recently Rankin Inlet and Baker Lake have been experiencing population growth. Rankin Inlet has a lower percentage of Inuit residents, and higher incomes. More people have English as their mother tongue in Baker Lake and Rankin Inlet than in other communities in the Kivalliq region.

Much of the economy in the Kivalliq region is based on subsistence hunting, trapping and fishing. Mineral exploration and mining activities as well as construction, some tourism and government services also add to the economy. Mining is likely to provide more employment and business opportunities than anything else in the next few years and for this generation of



youth. When people get jobs, they spend less time in traditional activities, and it changes family structures.

Need for and Purpose of the Project

The purpose of the Project is to mine five gold ore deposits, and to get the gold out of the ore so that it can be shipped for final refining and then sold in the world gold markets.

The Project will lend support to the vision and contribute to the goals of Inuit Beneficiaries of Nunavut as expressed by NTI and the Kivalliq Inuit Association (KIA). It will also contribute to the vision and goals for a more self-reliant Nunavut (i.e., with less dependence on the government) for all Nunavummiut, and to the economic vision of a more self-reliant Nunavut as a key contributor to the future economic well-being of Canada.

Project Components and Activities

Project Overview

The Project will be built near Meliadine Lake. It includes the construction of an All-weather Access Road (AWAR) from Rankin Inlet to the mine site and various components to be located in Rankin Inlet. The Project has gold deposits that will be mined using open pit mining. Deeper portions of the Tiriganiaq deposit will be mined using underground techniques. Mining and milling will take place 24 hours a day, 365 days per year.

Engineers (i.e., people who design the Project), and the environmental and social specialists worked together through the development of the Project. Parameters of the Project and the assessment of effects were conservative to make sure that all potential negative impacts were captured. As the results of the impact assessment were available, the Project development was changed to limit impacts.

When the gold-bearing ore has been removed, the Project will be closed and the Project area will be reclaimed. The intent of reclamation is to produce a final landscape that reflects the surrounding land features and land forms, and to re-establish productive use of the land and water in the area around the mine site for future generations. The mine will result in a permanent change to the landscape. Reclamation cannot totally remove the disturbance caused by the development and operation of the mine. Certain Project features, such as the



waste rock storage facilities, will become permanent parts of the future landscape. Other features, such as buildings and site roads, will be removed. It is expected that reclamation work should be completed within 3 to 4 years following closure. The flooding of open pits with water is expected to take several years.

Mining

The Project's total area of disturbance will cover an estimated 1,700 hectares.

Project Timeline: Current estimates of the gold deposits support a 13-year mine life. The property has excellent exploration potential and an extension of the mine life is possible with further exploration. Construction of the mine is expected to take 3 years and reclamation will occur over a 3 to 4 year period. It will take about 10 years to flood the open pits with water from Meliadine Lake.

Mill Process: The ore will be processed using a standard gold-milling circuit. This is how gold is normally processed. The milling process breaks the rock up into very small particles which are then rinsed with a chemical called cyanide to remove the gold. Once the gold has been removed, the small particles, which are called tailings, are sent to the TSF for storage. Any cyanide that is left over following removing the gold will be reused or destroyed prior to putting the tailings in the Tailing Storage Facility. The gold that is removed is formed into gold bars before being shipped for final refining.

Personnel: A project workforce of approximately 1,000 personnel is required for construction and 700 for operations with 350 on-site at any one time.

Project Phases: The Project has been divided into 4 phases or activity periods:

- 1) Pre-Development Phase – activities such as removal of rock and soil from the first open pits and development of the access to the underground mine are completed to allow mine construction activities to begin.
- 2) Construction Phase – construction of the mine infrastructure and facilities leading to the first production of gold. The construction will take place at the mine site and also in Rankin Inlet.



- 3) Operational Phase – the ongoing operation of the mine and its facilities to produce gold through to the end of the mine life.
- 4) Decommissioning and Reclamation (or Closure and Post-Closure) Phase – the post operational period when gold is no longer being produced and the mine and its infrastructure are being decommissioned, removed, and reclaimed to leave a final landscape that is physically and chemically stable, and productive for future generations.

Data Collection

AEM is committed to involving everyone in the Project area through public engagement and consultation during the development, construction, operation, and closure of the Project. Consultations under various owners and operators of the Project have been recorded from 1995 to the present, and have included information sessions, consultation, informed participation, and negotiation.

The Rankin Inlet – Meliadine Project Community Liaison Committee made up of people from various community groups meets with the AEM Project Management team on a regular basis to talk about all issues related to the Project. AEM has also had meetings with the Hunters' and Trappers' Organization (HTO) and the KIA's Community Lands and Resources Committee (CLARC) to talk about the Project and to work on changing the Project plan to meet issues of concern to local hunters and trappers. This consultation will continue throughout the mine life.

Traditional Land Use (TLU) data and Inuit Qaujimajatuqangit (IQ) were used to determine valued ecosystem components (VECs) and valued socio-economic components (VSECs) for the Project. IQ was also used to support baseline data describing the existing natural and socio-economic environments in the Project area, and to focus the assessment of potential Project effects on issues identified by elders and local communities as well as assess how important they are.



VECs and VSECs are those aspects of the natural and socio-economic environment considered to be of most importance to a particular region or community. Baseline environmental and socio-economic data were used to help determine the magnitude (or size) and significance (or importance) of potential Project effects on the VECs and VSECs. Baseline data were collected from a combination of reading research that has already taken place and completing field studies. Baseline data were collected on the following:

- noise;
- permafrost;
- vegetation;
- terrestrial wildlife;
- birds;
- groundwater and groundwater quality;
- ice thickness;
- surface water and sediment quality;
- aquatic habitat;
- lower trophic communities (includes periphyton, phytoplankton, zooplankton, benthic invertebrates);
- fish;
- marine water and sediment quality;
- marine depth soundings;
- marine biology (fish, birds and mammals); and
- socio-economics and traditional knowledge.



Impact Assessment Methods

Valued ecosystem components and VSECs are the most important properties of the environment to a particular region, community, or to society as a whole. The VECs for the assessment included noise, air quality, surface and groundwater quality, hydrology including water quantity, fish (Arctic char, lake trout, and Arctic grayling) and fish habitat, marine environment (water quality, fish and wildlife), plant populations and communities, and wildlife (birds, caribou, and wolves). The VSECs included heritage resources, employment and business opportunities, economic development, and social and cultural impacts.

The assessment of potential Project effects looked at the potential effects over time and space. It looked at the potential effects near to the Project, in a larger area around the Project (for example the caribou effects study area [CESA], which covers the entire range used by caribou), and even larger area within the region including potentially all of Nunavut.

The effects assessment was based on data and professional judgement. Available IQ and community information was also used. Key factors were considered in the determination of the environmental significance of a potential Project effect as follows:

- how big, how far and how long an effect will last;
- project strategies or mitigations to limit or avoid potential effects;
- ecological or socio-economic context/value, including the current “state of health” of ecosystems;
- historical, cultural, and archaeological significance of the geographic area likely to be affected by the Project; and
- value attached to the individual VEC or VSEC, based on consultation with potentially affected communities and relevant individuals and organizations.



Summary of Effects Assessment

Valued Ecosystem Components

Caribou and Meliadine Lake (fish and water quality) have been identified by the communities as the most important concerns related to the environment. Raptors (birds of prey) have been identified as an important concern by the Government of Nunavut.

Caribou

The loss and fragmentation (or breaking apart) of habitat, changes in where caribou go (i.e., caribou migration patterns), and sensory disturbance (i.e., sights, sounds, smells) from the Project, as well as improved access for harvesting were determined to have potential residual effects (potential effects that remain after Project mitigations have been considered) to terrestrial wildlife and wildlife habitat (i.e., caribou and wolves). Habitat fragmentation is the breaking apart of continuous habitat into smaller pieces. Habitat loss and fragmentation can reduce the number of individuals and species in an area because there are fewer places for them to live. Changes in the number of different habitats and distance between similar habitats can influence the where and how many individuals of a wildlife species by affecting the ability of animals to travel across the land. Sensory disturbance affect the physical senses such as sight, smell, and hearing. Some examples of sensory disturbance are the presence of buildings, people, lights, smells, and noise. Animals may avoid (i.e., change movement patterns or flee) areas with loud noises or dust or funny smells. This avoidance may reduce the amount of different quality habitats available for use, and change the health of animals because energy that could be used to survive or reproduce is instead used to cope with disturbance.

The Project is not expected to remove very much caribou habitat. It will mainly remove habitat where the waste rock and tailings storage facilities will be. The Project and other previous, existing and future developments like existing communities or proposed roads will remove 33,402 ha (or less than 1% of the CESA) of caribou habitat. Caribou are expected to avoid the Project because of noise, dust and other disturbances like traffic. It is expected that caribou will lose about 14,412 ha due to these Project sensory disturbances. The cumulative



sensory disturbance from previous, existing, and future developments including the Project is 436,114 ha (or approximately 3% of the CESA).

Caribou move through the Project area in some years. Results from a satellite collar program run by the Government of Nunavut show that 40 collared individuals from the Qamairjuaq caribou herd have been within 14 km of the Project in the last 14 years. A number of caribou moved through the Project area in 2012. Caribou recorded moving near the Project, moved south of the Project in the post-calving and late summer seasons, and through the Narrows region at the main mine and camp site in early winter.

Increased ease of access for traditional and non-traditional harvesting as a result of the AWAR may increase risk of mortality for caribou. AEM, in consultation with Inuit, will establish an appropriate “no shooting zone” around the mine site. AEM will also develop and enforce a “no hunting, trapping, harvesting or fishing policy” for employees and contractors while on shift and on site, to help mitigate potential effects from increased access for harvesting wildlife.

All effects to terrestrial wildlife are expected to be reversible in the long-term. Potential effects from the Project will be limited to a very small area and unlikely to be a major contributing factor to changes in caribou abundance and distribution of the caribou herds. Changes in water, soils and plants will also be so limited that the Project will not affect the health of caribou, or the health of people that eat caribou. Relative to current natural changes in population size, people should not observe a change in the availability of caribou due to effects from the Project. Therefore, the Project is not predicted to have a significant effect on caribou abundance and distribution, nor on the continued opportunity for traditional and non-traditional use of terrestrial wildlife in the region.

Birds and Bird Habitat

Habitat loss and fragmentation, and sensory disturbance from the Project were determined to potentially affect birds and bird habitat. However, the habitat lost will be very small compared to the amount of habitat available for upland and waterbirds. Direct habitat loss from the Project footprint is predicted to remove 3 (or 6%) of the 50 potential raptor nests that have



been identified in the Project area. The mine footprint is predicted to remove 2.33 ha (or approximately 19%) of steep cliff habitat. Roads in the Regional Study Area tend to be built in high elevation areas to avoid ground with high ice content. These high elevation areas are good for raptor nesting habitat. Therefore, new roads could potentially affect raptor nests. The routing of roads for future developments, not this Project, are also likely to be along rocky outcrops to avoid areas of high ice-content ground, and therefore would have potential negative cumulative effects on raptors and raptor habitat.

All potential effects to birds and bird habitat are expected to be reversible in the long-term. Therefore, the Project is not predicted to have a significant effect on bird population abundance and distribution, nor on the continued opportunity for traditional and non-traditional use of birds in the region. Potential effects from the mine will be limited to a very small area and are unlikely to be a major contributing factor to changes in the abundance and distribution of birds. While there is some raptor nest habitat being removed for roads, there is also many other suitable places for raptors to nest. Changes in water, soils and plants will also be so limited that the Project will not affect the health of birds or the health of people that eat birds. Relative to current natural changes in population size, people should not observe a change in the availability of birds due to effects from the Project.

Water quality

The people and communities are concerned about the potential effects of the Project on water quality while the mine is operating and after it closes. People want to know whether the water will be safe for fish, wildlife and human health.

Potential effects to water quality from this Project are linked only to Meliadine Lake and the lakes, streams and ponds that flow into Meliadine Lake. Potential effects to habitat quality (e.g., nutrient and metal concentrations) in Meliadine Lake are expected, but will be small based on the mine design. Water quality will change from what it is now and the concentrations of some metals and nutrients in the water will be greater than baseline conditions. However, no parameters will exceed Canadian Council of Ministers of the Environment (CCME) guidelines for the protection of aquatic life or drinking water, and predicted values should remain within 10% of baseline values. At Project closure, water will



not be released into the environment until it is confirmed that it is safe for fish and people that eat the fish.

Fish and Fish Habitat

Changes to where water flows, how much water flows, water levels, the amount of habitat, the quality of the water, and increased access for traditional and non-traditional users of fish were determined to have potential effects to fish and fish habitat. Only effects to Meliadine Lake are discussed here because Meliadine Lake has been identified by the community as an important place to fish, and it is the lake that treated water from the Project will be discharged into.

Increased nitrogen concentrations in the water near the discharge point for the Project are predicted to result in a shift in phytoplankton community structure, but the community structure will remain within the range of baseline conditions and phytoplankton productivity will remain unchanged.

A measurable change in the abundance and distribution of Arctic char, lake trout, and Arctic grayling is predicted in the area directly affected by the Project, which includes Meliadine Lake. This change may influence the availability of fish for harvesting for traditional and non-traditional users. The magnitude of the potential effect on fish populations is expected to be either within or just exceeding the range of existing conditions. This means people may notice a small difference in the availability of fish in the Project area.

The proposed Project will also result in improved access to lakes, ponds and streams along the AWAR, as well as to Meliadine Lake. Increased angler access may lead to overharvesting and effects to local populations of fish, particularly Arctic char and lake trout in Meliadine Lake. To reduce the potential for overharvesting along the AWAR, AEM staff and contractors will not be permitted to fish while on site. This mitigation and the ability of the regulators to implement management regulations to limit harvesting, should protect the fisheries resources in Meliadine Lake.



People fishing outside the area directly affected by the Project should not observe a change in the availability of fish. Therefore, the Project was determined not to have a significant adverse effect on the continued opportunity for traditional and non-traditional use of fish.

Valued Socio-Economic Components

The Project will contribute to the overall labour, financial, physical, human, and social resources of nearby communities, the Kivalliq region and Nunavut as a whole. Benefits will result but there will be some challenges to community infrastructure, public services, and individual, family, and community wellness. Overall, the Project is expected to have few negative effects on people, business capacity, or public infrastructure and services.

The Project is not expected to substantially affect population demographics (e.g., population size and growth), non-traditional land use or archeological resources.

The Project may contribute to the weakening of traditional culture by changing diet and use of culturally important areas. However, residual effects to the availability of wildlife for traditional harvesting are considered to be positive, as access to harvesting areas is expected to improve as a result of the AWAR, and is desired by hunters and other harvesters.

The Project will have positive effects on the economy of Nunavut and the Kivalliq region, through spending in the territory, job creation and revenues. This increase in revenue is expected to have a positive benefit on individuals, families, and communities. Money will be made through employment and in contracts to provide supplies and services. Increased spending of money earned by Project employees and contractors will spread the benefits.

Potential effects on individual, family, and community wellbeing are complex, far reaching, and unpredictable. Wellbeing is connected to effects on community economies and traditional culture. For most people in communities, health status will improve, families may have more resources and can potentially function better, and households will have more opportunities to save. These are all considered significant benefits. There will be an adjustment period during which negative effects may be expected until people learn to manage life changes such as wage income, diet and nutrition, and stresses. Negative effects on individuals are not expected to occur with such frequency that overall community wellbeing suffers.



Community level effects are expected to be positive overall, and both Inuit and non-Inuit will benefit. The most prominent potential negative effects at the individual and family level are challenges associated with the transition to the wage economy, and an increase in existing negative health and education conditions for Inuit who are unable to benefit from the Project. While these potential effects extend to the non-Inuit population, this group typically has more resources with which to cope.

In summary, impacts to socio-economics in the Project area are expected to be positive and to last until after the mine is closed. The potential positive and negative impacts to health and wellness and public safety are expected to be small and similar to existing conditions. Potential effects to employment are expected to be positive and last until after the mine is closed. Potential effects on infrastructure are expected to be positive and negative and are expected to last through the life of the mine.

Monitoring

Once the necessary permits and licences are issued and construction of the Project begins, several inspection and monitoring programs will be implemented.

Compliance inspection will check that Project components are built to approved design standards that include the required environmental controls. Compliance inspection and monitoring will be repeated throughout the life of the Project.

Follow-up monitoring activities are expected to include water sampling in and around the Project site to make sure that the predictions used to assess the effects were accurate. Follow-up monitoring will also assess the potential for success of the proposed closure and reclamation plan.

Environmental monitoring programs will include an Aquatic Effects Monitoring Program that will monitor effects long distances away from the Project as well as close to it. Additional environmental monitoring will include plant and wildlife monitoring and management, as well as air quality and noise monitoring. The scope of these programs and others will be developed in consultation with regulators and communities.



The Project's Environmental Management and Protection Plan describe the various environmental and socio-economic monitoring activities that will be completed during the life of the Project. The Plan also verifies that standard operating procedures reflect legal requirements pertaining to the Project, and that conditions set at the time of the Project's authorizations as well as requirements pertaining to the relevant laws, regulations and permits are met. The Plan will offer enough flexibility to respond to the monitoring results in a timely fashion so to reduce or eliminate potential adverse residual effects to the natural and socio-economic environments in the Project area.

Conclusions

The FEIS provides an evaluation of the potential environmental and socio-economic effects of the Project. It includes a description of the existing conditions in Project area, and of the Project design features and methods that will be used to remove or reduce potential negative effects to VECs and VSECs. Management and monitoring plans are also provided to monitor the effects assessment predictions and to provide information so that operational practices can be reviewed and updated to remove or reduce any potential negative impacts throughout the life of the Project.

Sustainable development of the Project will contribute to the economic development of Nunavut in ways that support self-reliant communities (i.e., with less dependence on the government) without hurting the long-term health of the people or the land. By making jobs, the Project will also help to make a better standard of living for the people of the region, and will support the vision and contribute to the goals of Inuit Beneficiaries of Nunavut, and for a more self-reliant Nunavut for all Nunavummiut.

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MELIADINE FEIS – VOLUME 1 POPULAR SUMMARY

English	Inuktitut	English Definition	Inuktitut Definition
Buffering capacity	ᐅᓐᓇᖅᑐᓂᑦ ᐱᐅᓐᓇᖅᓂᖅ	The capacity of water to receive inputs of acids or bases without changing pH.	ᐃᐤᐅᓐ ᐱᓐᓇᖅᓂᓚᓐᓴᓐ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓇᑐᓂᓐ ᐱᓐᓇᖅᓂᖅ ᐱᓐᓇᖅᓂᖅ [pH].
Bulk sampling program	ᐱᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐱᓐᓇᖅᑐᓂᑦ	Bulk sampling is the removing of large mineralized rock typically over fifty tonnes, selected to be representative of the potential orebody, in order to test mineral content and do mineral processing tests.	ᐱᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐱᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ 50 ᐤᓐ ᐤᓐᓇᖅᑐᓂᑦ, ᐱᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ, ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Cache	ᐱᓐᓇᖅᑐᓂᑦ	A rock hollow covered with rocks, used for storage.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Cairn	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ	A pile of rocks often used to store items, or to cover a burial.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Calving	ᐅᓐᓇᖅᑐᓂᑦ	To give birth to a calf.	ᐅᓐᓇᖅᑐᓂᑦ.
Calving period	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ	The time of year when caribou use calving grounds for the birth of newborn caribou. The period commences with the initiation of calving and includes some time prior to calving, i.e., congregation of cows and calves. Defined for the Qamanirjuaq herd as late May to late June.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Capital investment	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ	The total funds invested in a business or enterprise.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Canadian Water Quality Guidelines for the Protection of Aquatic Life	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ	Guidelines established by the Canadian Council of Ministers of the Environment and used to assess the potential effects of the concentration of different water quality parameters upon aquatic life (e.g., fish, aquatic plants, and benthic invertebrates).	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Cape	ᐅᓐᓇᖅᑐᓂᑦ	A point or extension of land protruding into the water.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Carbon-in-leach	[ᐅᓐᓇᖅᑐᓂᑦ]	Method of recovering gold from fine ground ore by simultaneous dissolution and adsorption of the precious metals onto fine carbon.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.
Carnivore	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ	A mammal that eats animals.	ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ ᐅᓐᓇᖅᑐᓂᑦ.






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[illegible]









[illegible]






**Golder
Associates**





**Golder
Associate**







[illegible]



MELIADINE FEIS – VOLUME 1 POPULAR SUMMARY

English	Inuktitut	English Definition	Inuktitut Definition
Oligotrophic	(Oligotrophic) ᑕᑭᑦᓂᑦ ᖃᑲᑭᑦᓴᑦᓂᑦ	Trophic state classification for lakes characterized by low productivity (<i>i.e.</i> , little aquatic plant or animal life) and low nutrient inputs (particularly total phosphorus).	ᑕᑭᑦᓂ ለᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ ለᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ (ለᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ ለᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ) ለᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦᓴᑦ ለᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦᓴᑦ.
Open pit mine	ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᓄᓇᑲᑦ ᖃᑲᑭᑦᓴᑦᓴᑦᓴᑦ	A mine working open to the surface used to recover ore near surface.	ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᓄᓇᑲᑦ ᖃᑲᑭᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦᓴᑦ.
Open talik	ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑕᑕᑦᑲᑦ	A talik that penetrates the permafrost completely, connecting a water body above permafrost to the sub-permafrost aquifer (e.g., below large rivers and lakes).	ᑕᑕᑦᑲᑦ ᓄᓇᑲᑦ ᖃᑲᑭᑦᓴᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ, ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᖃᑲᑭᑦᓴᑦᓴᑦᓴᑦ ᖃᑲᑭᑦᓴᑦᓴᑦᓴᑦᓴᑦ (ᑕᑕᑦᑲᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ).
Open water conditions	ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ	The period of time when the surface of a waterbody is completely free of ice (also called open water season).	ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑕᑕᑦᑲᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦᓴᑦ (ᑕᑕᑦᑲᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ).
Ore	ᑲᑭᑦᓂ ለᑕᑕᑦᑲᑦ	A rock or mineral that contains a valuable constituent, such as gold, for which it is mined and processed.	ᑲᑭᑦᓂ ᑲᑭᑦᓂᑦᓴᑦ ለᑕᑕᑦᑲᑦ, ᑲᑭᑦᓂᑦᓴᑦᓴᑦᓴᑦ, ᓄᓇᑲᑦ ለᑲᑭᑦᓂᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦ ለᑲᑭᑦᓂᑦᓴᑦ.
Organic compounds	ለᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ	Substances composed of one or more carbon atoms.	ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ.
Organochlorines	ለᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ	Any of the various hydrocarbon pesticides that contain chlorine.	ᑲᑭᑦᓂᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ለᑕᑕᑦᑲᑦ.
Otolith	ᑲᑕᑦᑲᑦ	A small calcareous bone in the inner ear of fish which is involved in sensing orientation and movement.	ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ.
Out-migration	ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ	To move out of one community, region, or country in order to reside in another.	ᓄᓇᑲᑦ ᑲᑕᑦᑲᑦ, ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ, ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ.
Overburden	ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ	Unconsolidated material that must be removed to allow access to an ore body in a surface mining operation.	ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ ᑲᑕᑦᑲᑦ.
Palaeontology	ለᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ	The study of ancient and fossil plants and vegetation. The study of life in the past as recorded by fossil remains.	ለᑭᑦᓂᑦᓴᑦᓴᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᓄᓇᑲᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ ᓄᓇᑲᑦ ᑲᑭᑦᓂᑦᓴᑦᓴᑦ.



MELIADINE FEIS – VOLUME 1 POPULAR SUMMARY

English	Inuktitut	English Definition	Inuktitut Definition
Participation rate	ᐃᑕᐅᓂᐸᐸᓂ ᖃᓕᓯᑦ ᐃᑕᐅᓂᓴᓂᐸᐸᓂ ᐸᑦ	The percentage of persons 15 years of age and over who are in the labour force.	ᐃᓂᐃᑦ 15 ᐅᖅᓴᐸᓂ ᐅᓯᐅᑦᑦ ᐱᑕᓂᓯᓴᐸᑦ.
Paste tailings	ᐸᓂᓯᓂᐸᓂᐸᓂᐸᓂ ᐅᓴᓂᐸᓂᐸᓂᐸᓂ	Tailings that have been significantly dewatered; these can be cemented and used to backfill underground openings.	ᐅᓴᓂᐸᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂᐸᓂ; ᓯᓯᐸᓂᓴᐸᓂᐸᓂᐸᓂ ᓯᓯᐸᓂᓴᐸᓂᐸᓂᐸᓂᐸᓂ.
Pathway analysis	ᐸᓂᓯᓂᐸᓂᐸᓂᐸᓂ ᖃᓂᓯᓂᐸᓂᐸᓂ	Identifies and assesses the linkages between Project components or activities, and the corresponding potential residual effects to valued ecosystem components and valued socio-economic components. A screening step that is used to verify the existence of these linkages from the initial list of potential effects pathways for the Project.	ᖃᓂᓯᓂᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ ᐱᑕᓂᓯᓴᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ, ᐸᓂᓯᓂᐸᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ. ᖃᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐱᑕᓂᓯᓴᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ.
Pelagic	ᐱᑕᓂᓯᓴᐸᓂ (Pelagic)	Living in the mid and upper layers of the open sea.	ᐃᓂᓯᓂᐸᓂᐸᓂ ᐃᓴᐸᓂᐸᓂᐸᓂ ᖃᓂᓯᓂᐸᓂ.
Permafrost	ᓯᓯᓯᓂᐸᓂᐸᓂ ᐃᓯᐸᐸᐸ	The thermal condition under which soil and/or bedrock exist at a temperature at, or below, 0°C for a period of two or more consecutive years. Note that ice may or may not be present in permafrost zones.	ᓂᓴᐸᓂ ᐅᓴᓂᐸᓂᐸᓂ ᐃᓂᓯᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂ 0°C ᐅᓯᐸᓂ ᓴᓂᓯᓂᐸᓂᐸᓂ. ᐅᓴᓂᐸᓂᐸᓂ ᓯᓯ ᓂᓴᐸᓂᐸᓂ ᓯᓯᓯᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ.
Permafrost base	ᓯᓯᓯᓂᐸᓂᐸᓂ ᐃᓯᐸᐸᐸ	The lower boundary of permafrost, an undulating and uneven surface. The ground temperature above the permafrost base is less than 0°C and below the permafrost base is above 0°C.	ᓯᓯᓯᓂᐸᓂᐸᓂ ᐃᓯᐸᐸᐸ ᓴᓂᓯᓂᐸᓂᐸᓂ ᐸᓂᓯᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ. ᓂᓴᐸᓂ ᓂᓴᐸᓂᐸᓂ ᓯᓯᓯᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ.
Permafrost table	ᓯᓯᓯᓂᐸᓂᐸᓂ ᖃᓂᓯᓂᐸᓂᐸᓂ	The permafrost table is the upper boundary of permafrost, at the base of the active layer. The ground temperature above the permafrost table is above 0 °C for at least a portion of each year, and below the permafrost table is less than 0 °C year round.	ᖃᓂᓯᓂᐸᓂᐸᓂ ᓯᓯᓯᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ.
pH	pH	The negative log of the concentration of the hydronium ion. The pH is a measure of the acidity or alkalinity of all materials dissolved in water, expressed on a scale from 0 to 14, where 7 is neutral, values below 7 are acidic, and values over 7 are alkaline.	ᐱᑕᓂᓯᓴᐸᓂ ᖃᓂᓯᓂᐸᓂᐸᓂ pH ᖃᓂᓯᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ, ᓂᓴᐸᓂᐸᓂᐸᓂᐸᓂ 0ᑦ 14ᑦ, ᑕᓂᓂ 7 ᓯᓯᓯᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ.
Phenol	ᐸᓂᓯᓂᐸᓂᐸᓂ	A class of toxic compounds derived from benzene that can originate naturally in the aquatic environment through the decomposition of organic matter. These compounds can originate artificially through the contamination of the aquatic environment by plastics, herbicides, and disinfectants. They can also be introduced as a by-product in industrial processes.	ᓂᓴᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ ᓂᓴᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ ᐃᓴᓂᐸᓂᐸᓂᐸᓂ.



MELIADINE FEIS – VOLUME 1 POPULAR SUMMARY

English	Inuktitut	English Definition	Inuktitut Definition
Phenology	ልዕረታ	The study of periodic phenomena in plants, such as the time of flowering in relation to climate.	ክልላዊና ለጥንቃቄ ልማት ለጥንቃቄ ልማት ልማት.
Phytoplankton	ዳረጋጋጅግ	Very small plants that float or drift in water bodies.	ለጥንቃቄ ልማት ልማት ልማት.
Pinniped	ለዓልፍ	A group of marine mammals that includes seals, sea lions, and walrus.	ለጥንቃቄ ልማት ልማት ልማት.
Plant community	ለጥንቃቄ ልማት	A group of interacting plant species that exist within a defined space and time.	ለጥንቃቄ ልማት ልማት ልማት.
Plume	ጋጋ	A visible or measurable discharge of a contaminant from a given point of origin. Plumes may occur in water or air.	ለጥንቃቄ ልማት ልማት ልማት.
Point count	ክልላዊና ለጥንቃቄ ልማት	A circular plot survey where observers spend a prescribed time looking and listening for birds.	ክልላዊና ለጥንቃቄ ልማት ልማት ልማት.
Polycyclic aromatic hydrocarbons	(Polycyclic aromatic hydrocarbons) በለፍ ልማት	Organic compounds comprised of two or more aromatic rings. These compounds are by-products of combustion and can be emitted into the environment from both natural and anthropogenic sources.	ለጥንቃቄ ልማት ልማት ልማት.
Population index	ልማት ልማት ልማት	An estimate of waterfowl in a given area based on observations in a sub-sampled area and adjusted for birds not observed.	ለጥንቃቄ ልማት ልማት ልማት.
Pore	ጋጋ pore (ፖርቲክል)	A very small hole, such as may occur in some types of rock.	ለጥንቃቄ ልማት ልማት ልማት.
Post-closure	ፖርቲክል ልማት	The period of time following the shut-down of a mine or other facility, during which monitoring of its effects should be continued.	ለጥንቃቄ ልማት ልማት ልማት.
Post-calving period	ልማት ልማት	The time of year after the calving period, when cows and newborn calves congregate. Caribou disperse during this period and areas used include the calving grounds and a substantial extension to the south and west of the calving ground. Defined for the Qamanirjuaq herd as late June to the end of July.	ለጥንቃቄ ልማት ልማት ልማት.
Post-contact sites	ልማት ልማት	Aboriginal sites dating to the historic period.	ለጥንቃቄ ልማት ልማት ልማት.



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