



Meliadine Extension Project Proposal

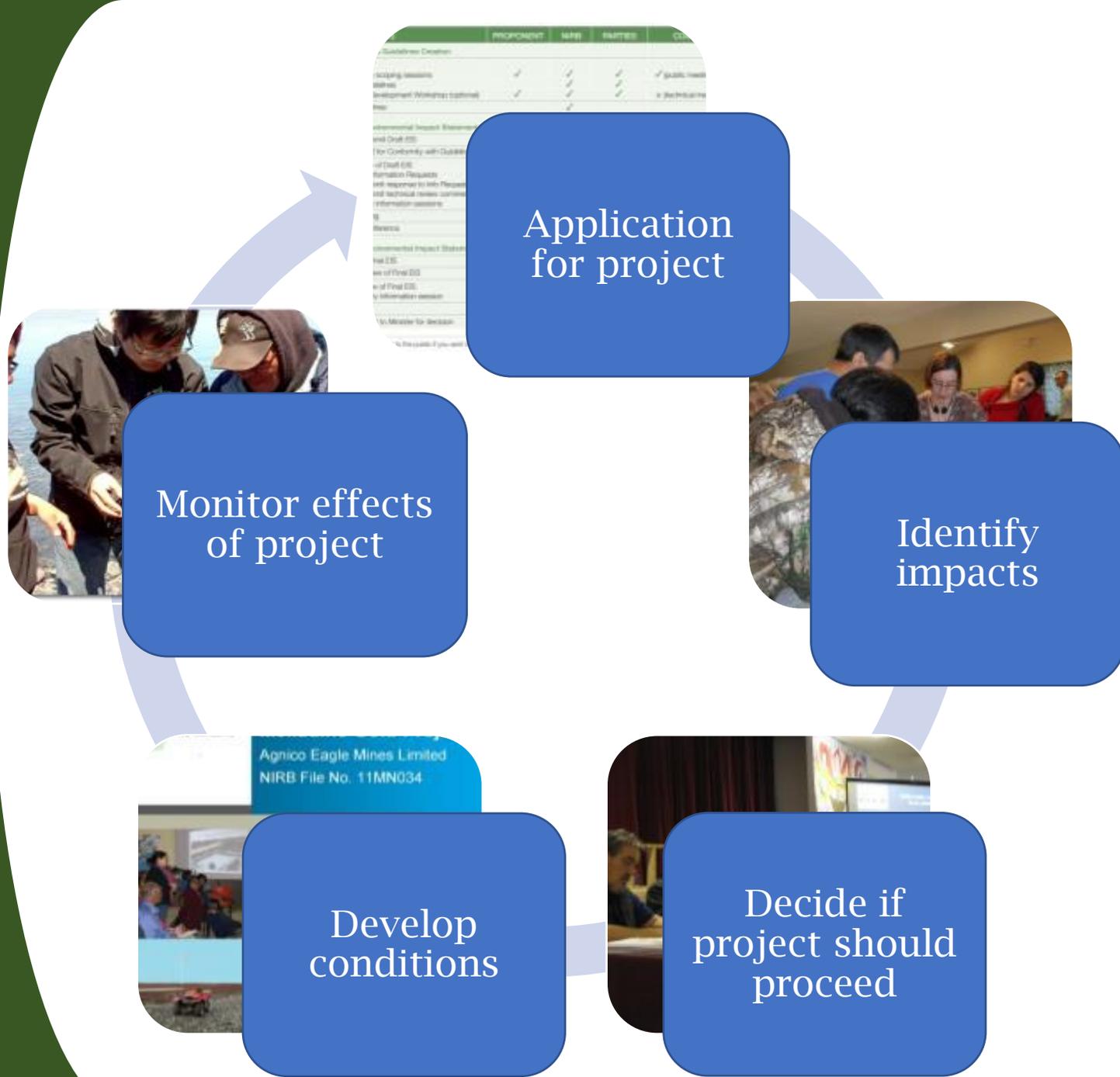
NIRB File No.
11MN034

Public Health Recommendations:

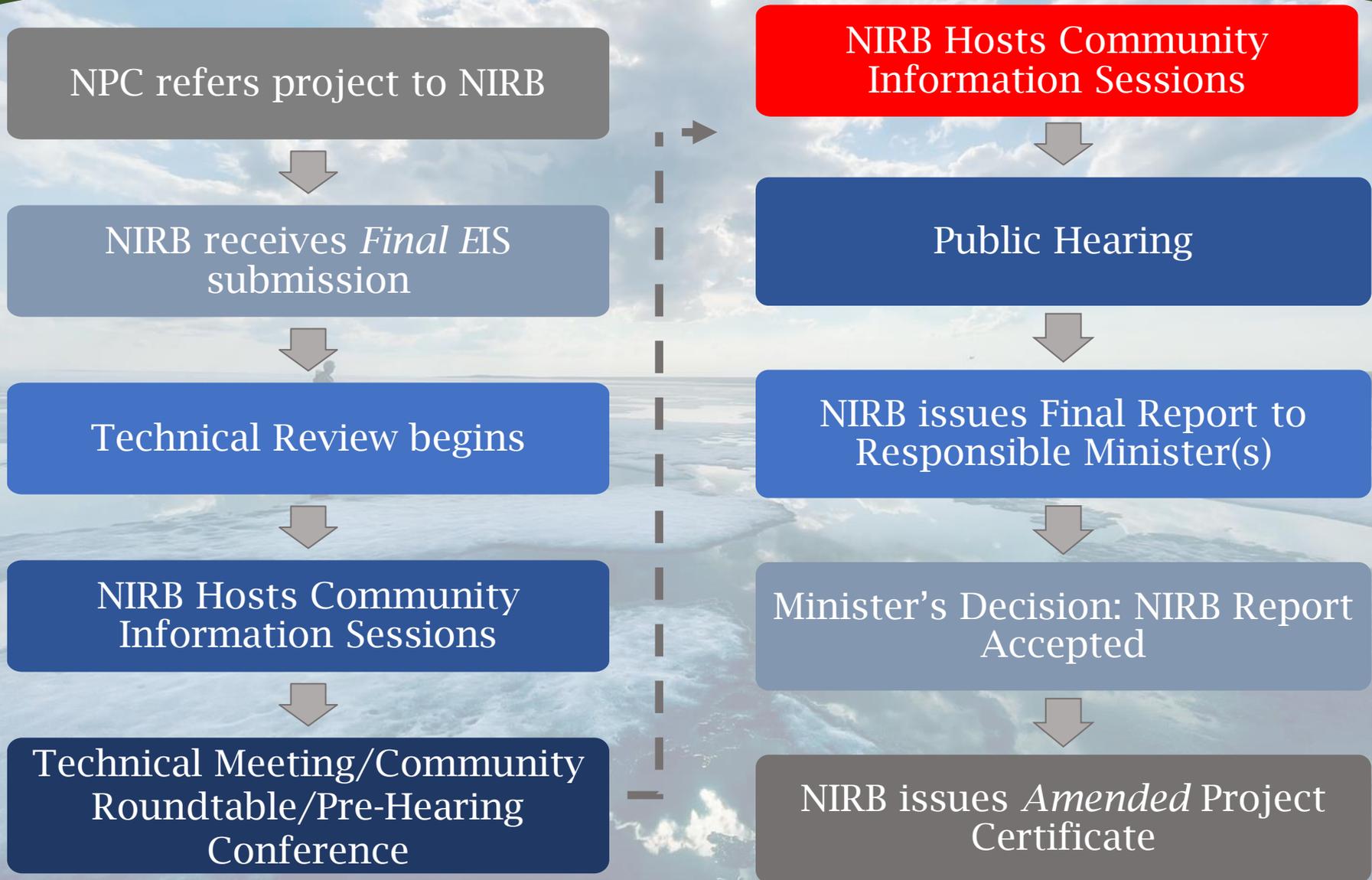
- While at the meeting, please be considerate of public health recommendations including:
 - Masks are not mandatory but are recommended
 - hand washing
 - cover your cough, and
 - regular use of hand sanitizers



What does the NIRB do?



NIRB Assessment Process

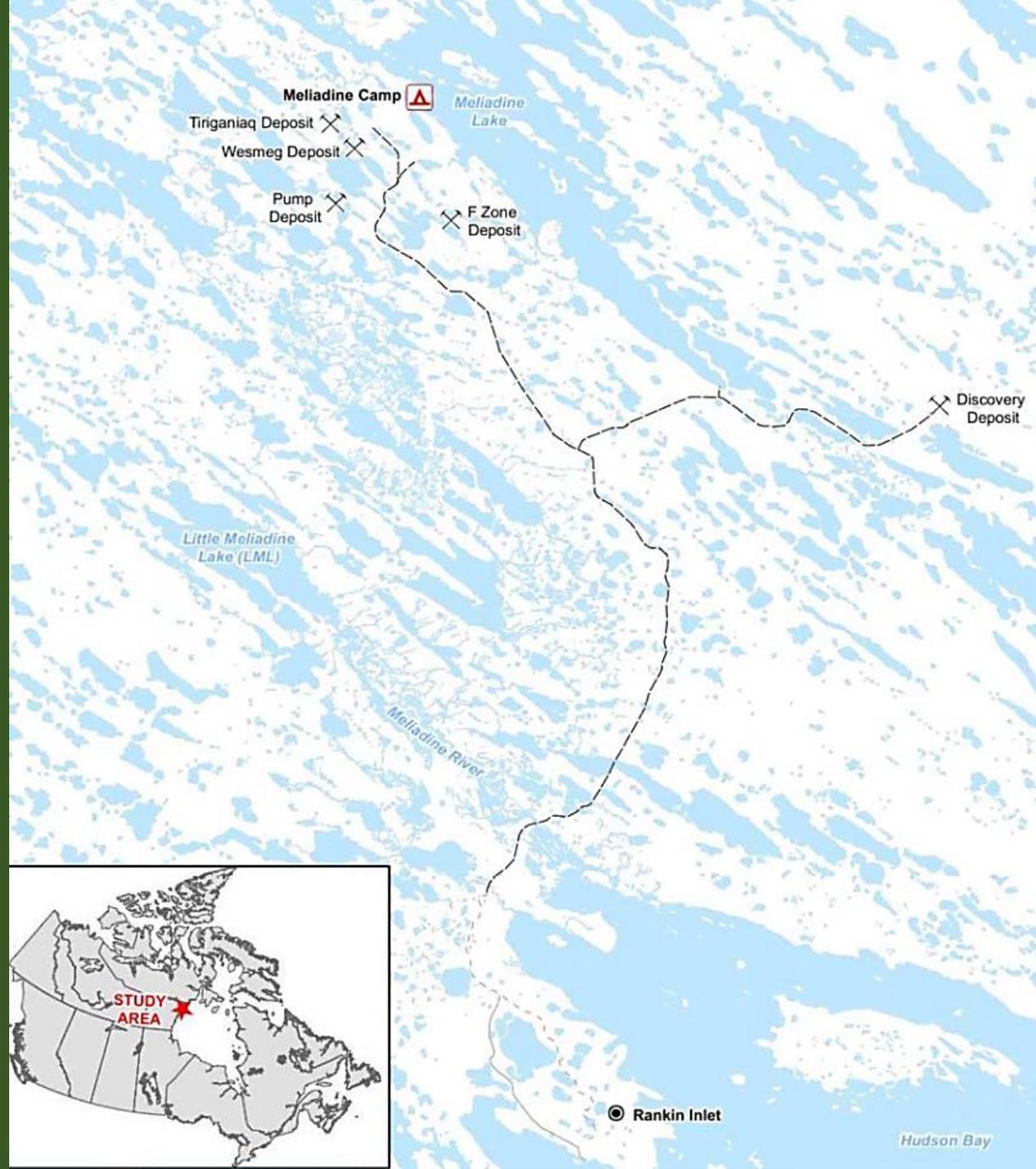


Meliadine Gold Mine Project



Meliadine Gold Mine Project

- Itivia Harbour
- Bypass Road
- 25 Km All weather access road
- Mine Site
 - Tiriganiaq
 - Wesmeg,
 - Pump,
 - F Zone,
 - Discovery



FEIS Addendum Composition

- Project description
- Components and activities
- Consultation and Engagement
- Impact Assessment
- Human Health and Ecological Risk Assessment
- Accidents and Malfunctions
- Mitigation, management and monitoring plans



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MELIADINE DIVISION

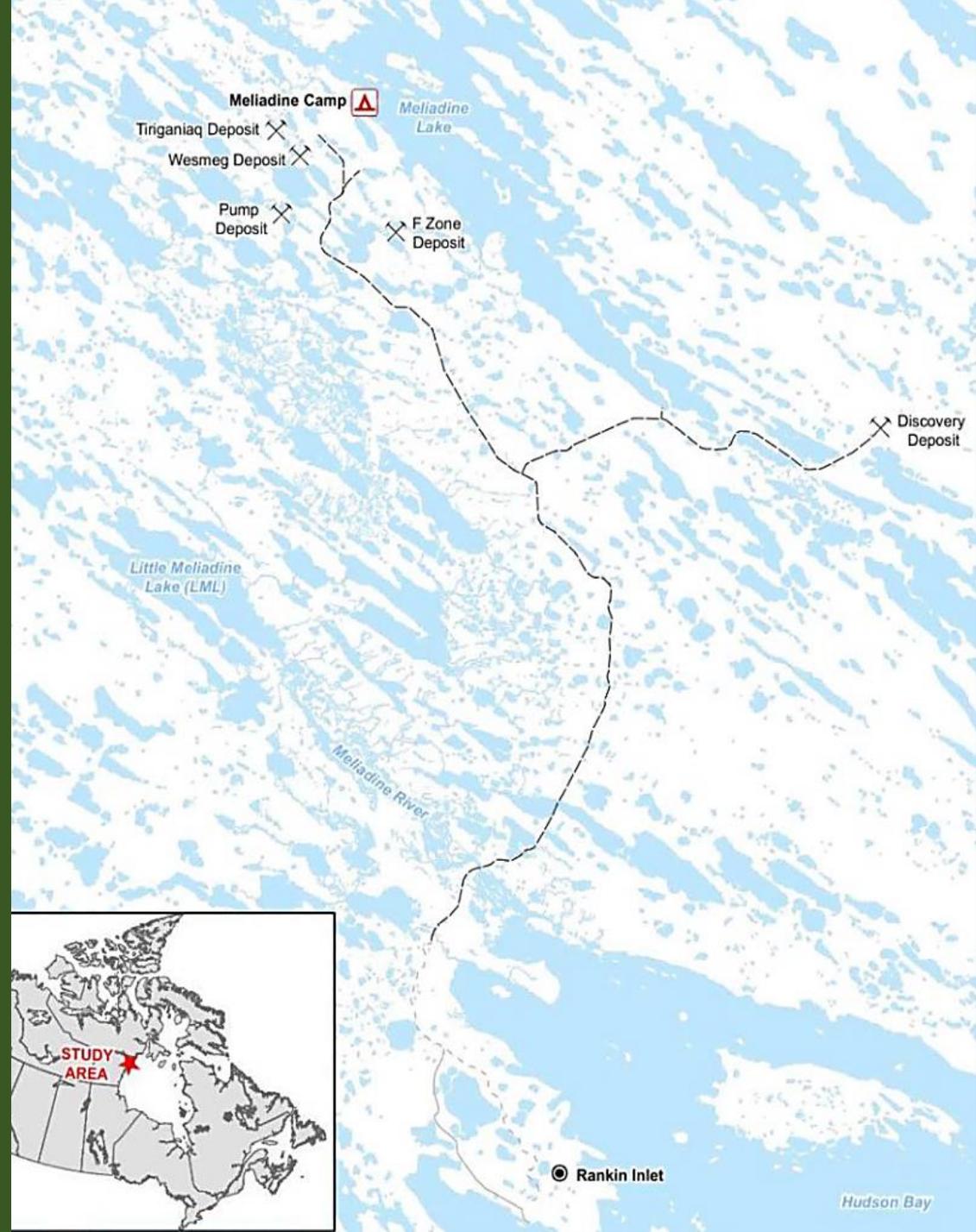
Meliadine Mine – Meliadine
Extension FEIS Addendum

JULY 2022

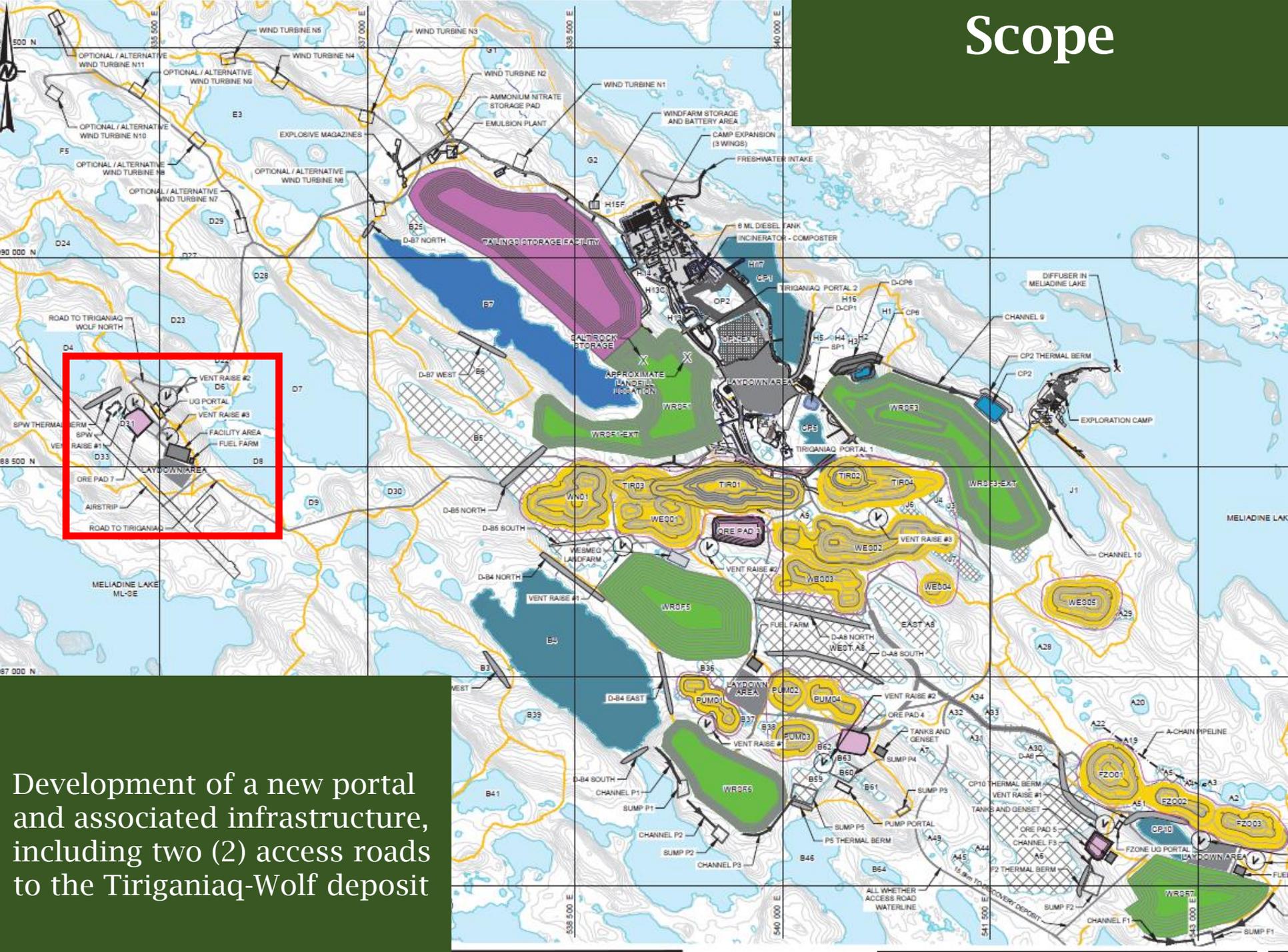
Scope

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- Addition of underground mining at the Pump, F Zone, and Discovery deposits, which were previously approved for open-pit mining;
- Extension of the operation phase (i.e. mine life) by 11 years to 2043;
- Increase in employment to 905 employees with associated camp expansion

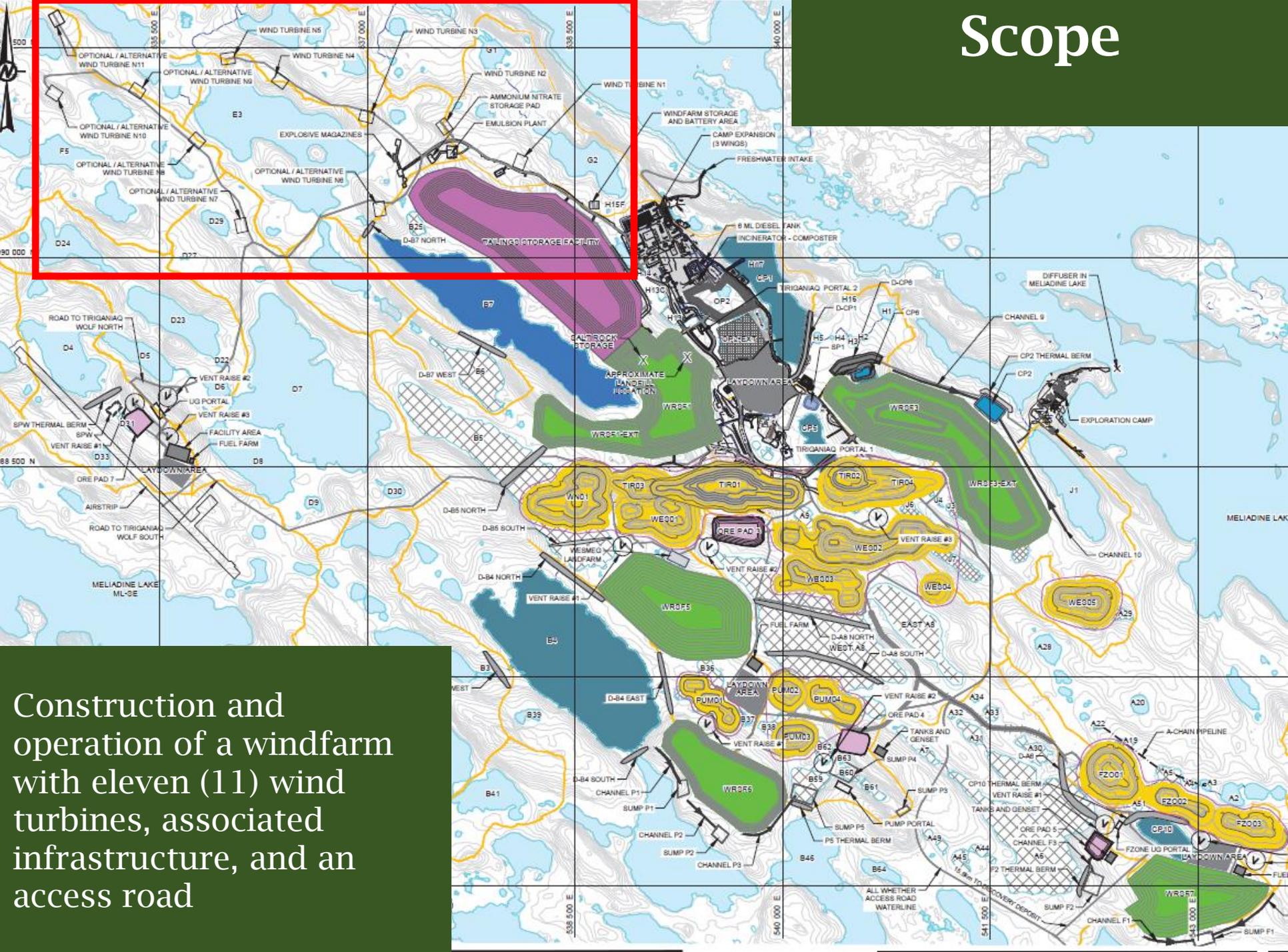


Scope



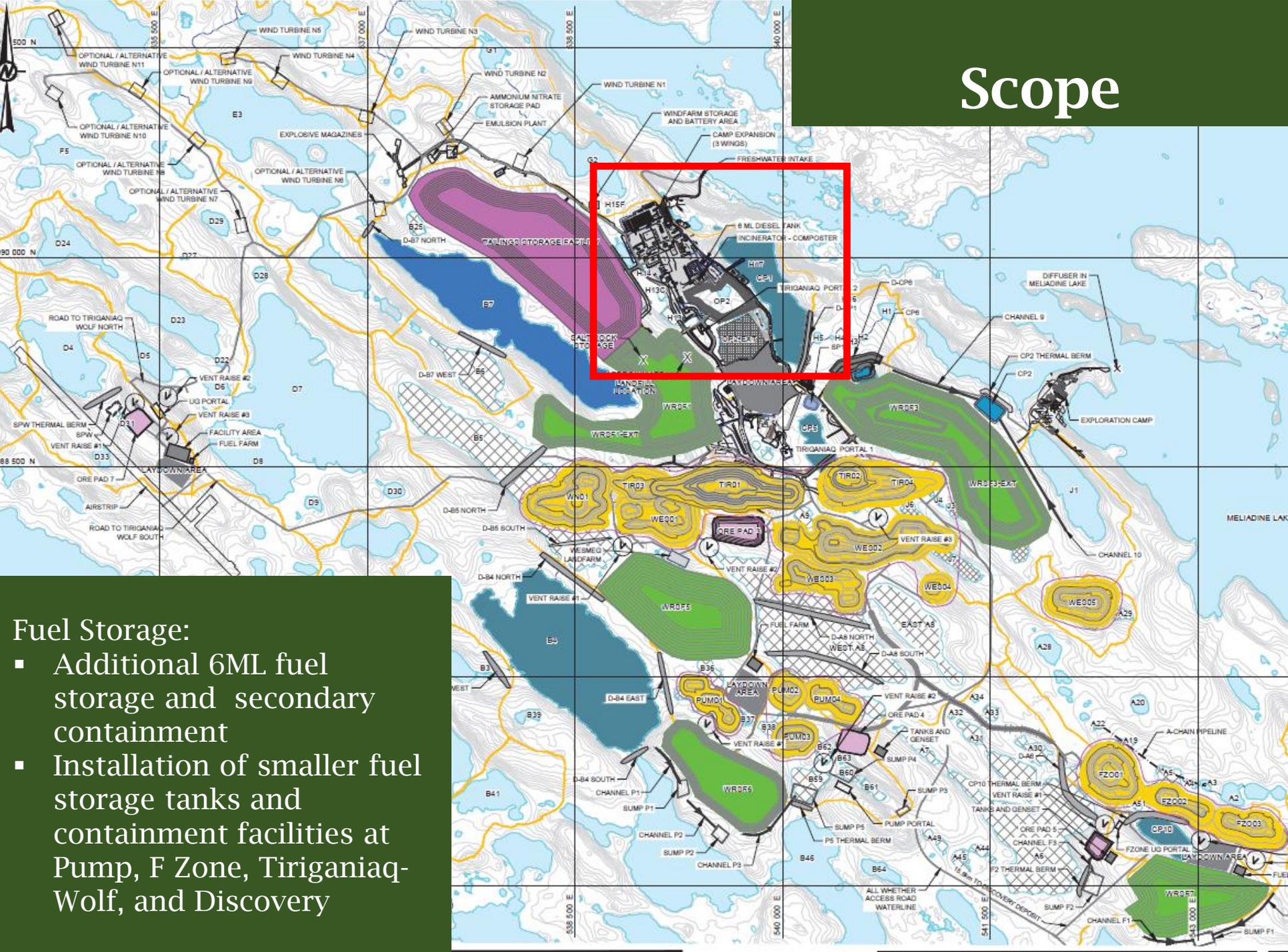
Development of a new portal and associated infrastructure, including two (2) access roads to the Triganiaq-Wolf deposit

Scope



Construction and operation of a windfarm with eleven (11) wind turbines, associated infrastructure, and an access road

Scope

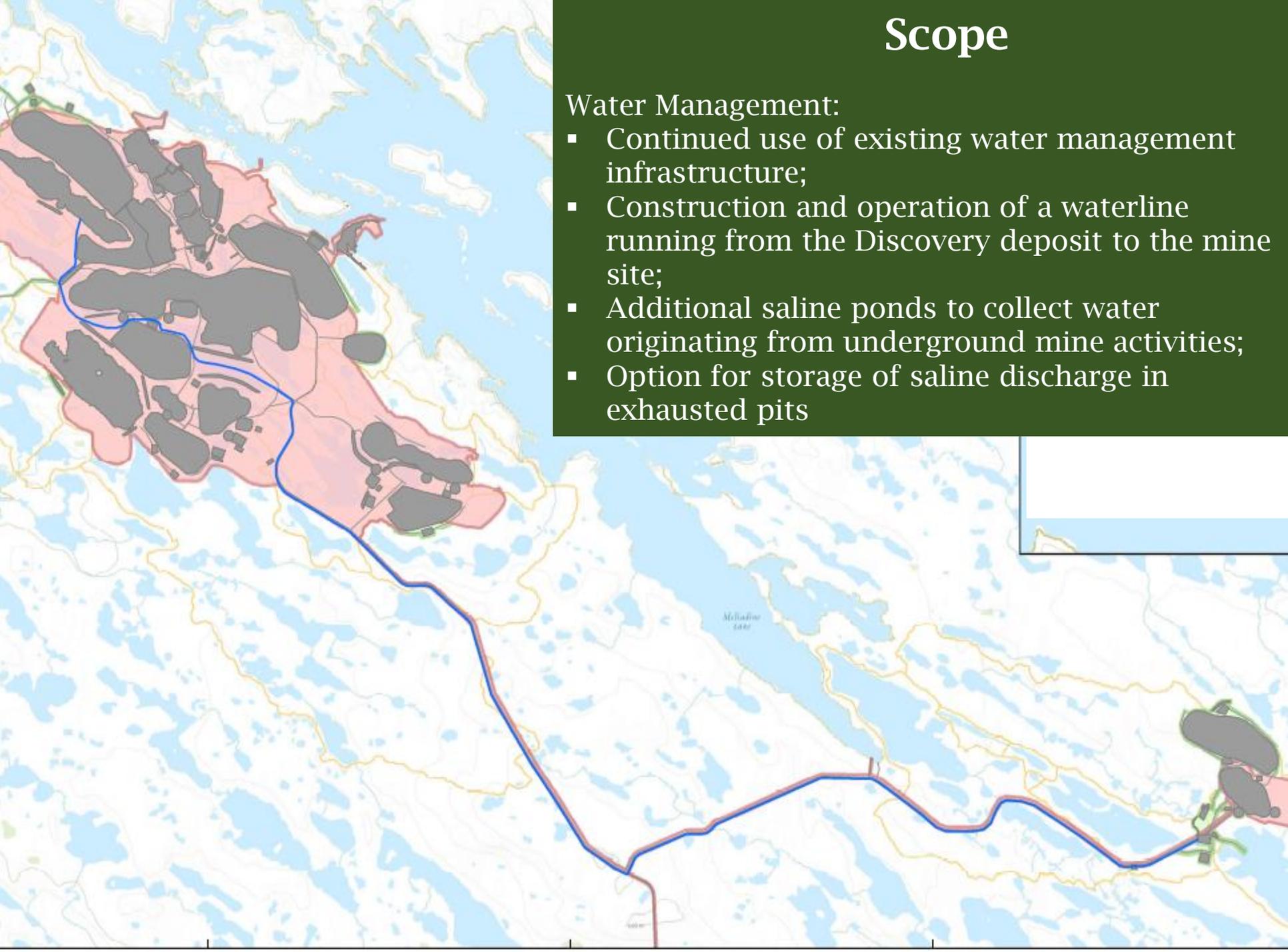


- Fuel Storage:
- Additional 6ML fuel storage and secondary containment
 - Installation of smaller fuel storage tanks and containment facilities at Pump, F Zone, Tiriganiaq-Wolf, and Discovery

Scope

Water Management:

- Continued use of existing water management infrastructure;
- Construction and operation of a waterline running from the Discovery deposit to the mine site;
- Additional saline ponds to collect water originating from underground mine activities;
- Option for storage of saline discharge in exhausted pits



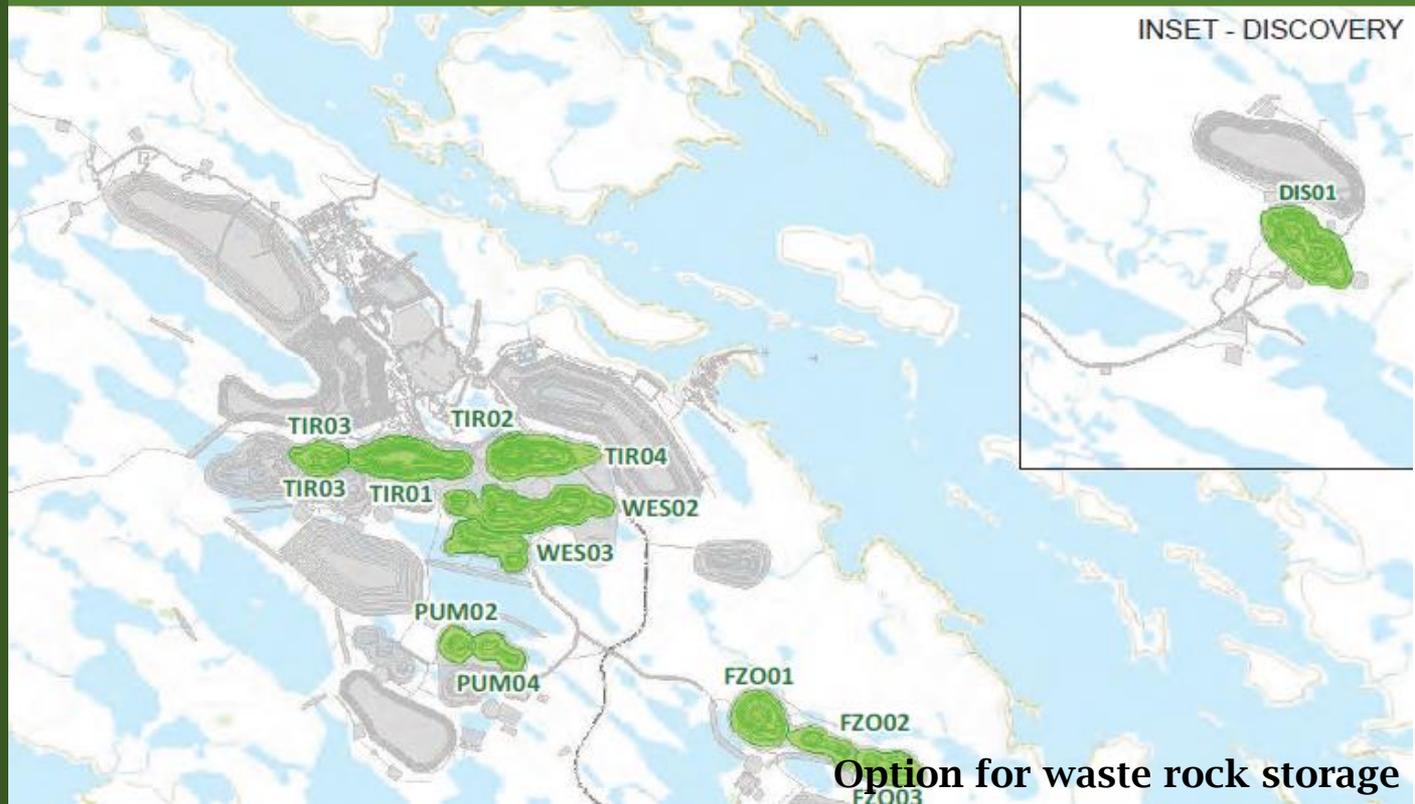
Scope

Waste Management:

- Continued use of existing waste management infrastructure;
- Addition of waste rock storage facilities, temporary salt waste rock piles, landfarms, a landfill and a composter;
- Option to store waste rock and tailings in exhausted pits



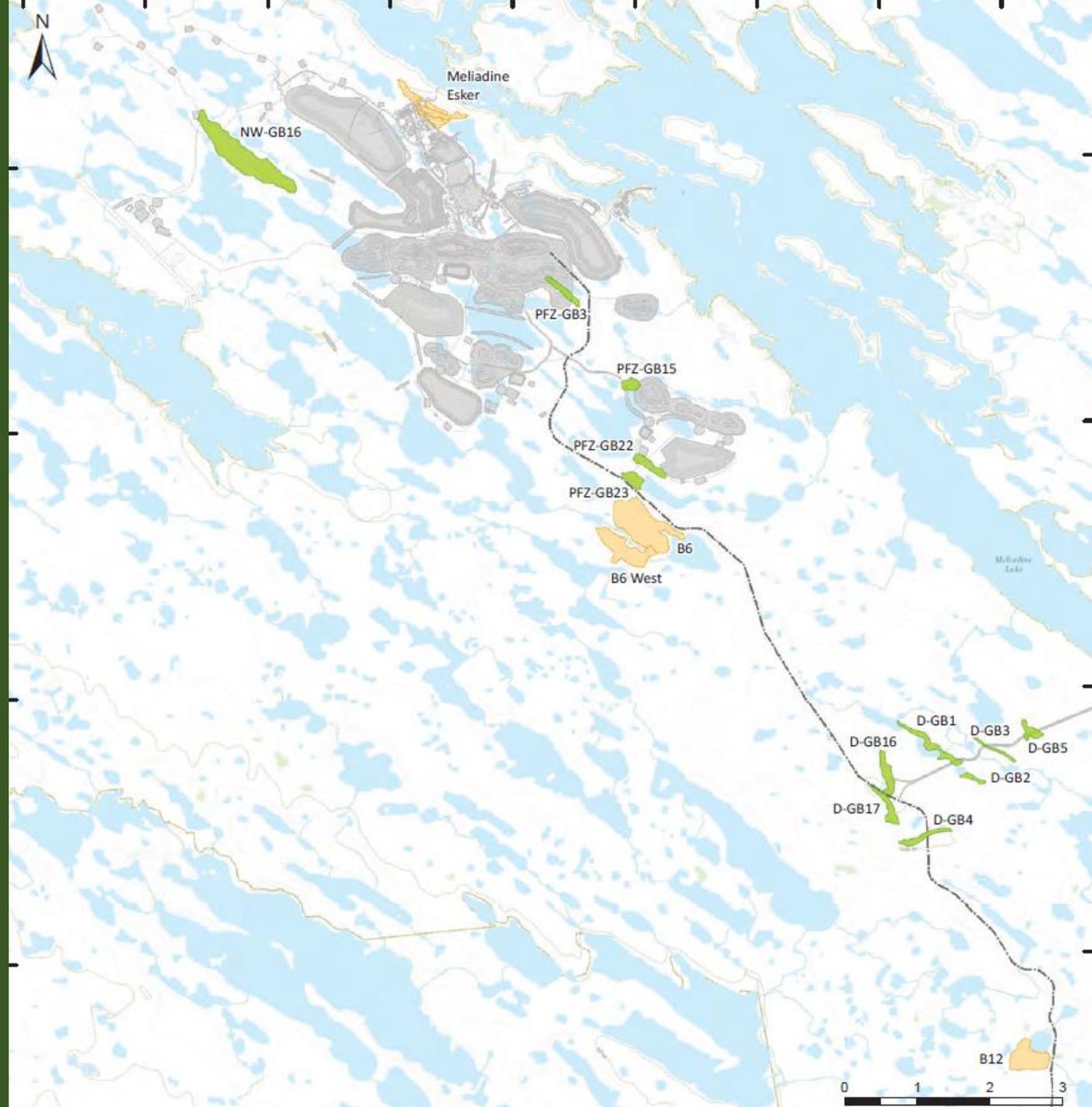
Option for tailings storage



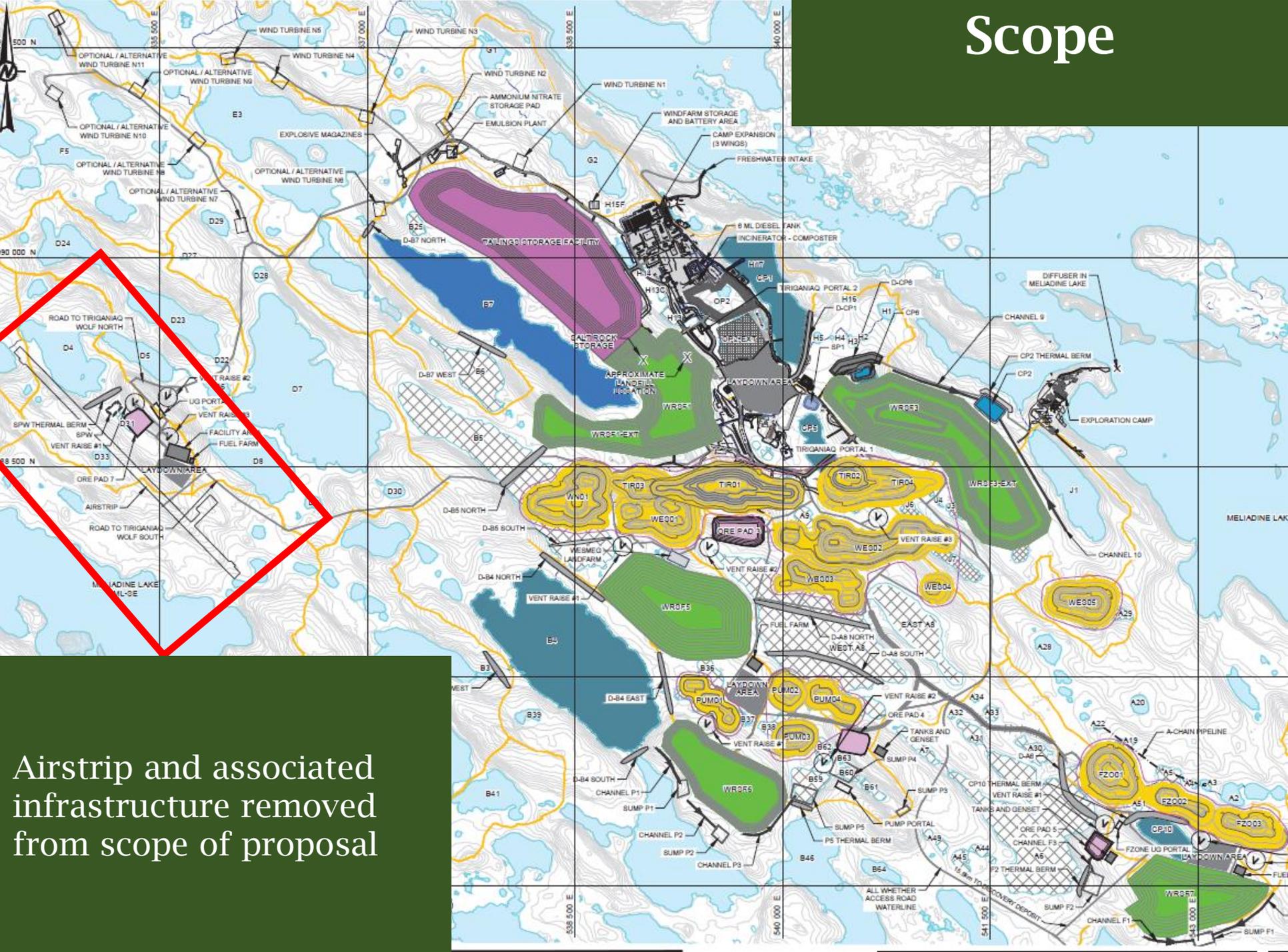
Option for waste rock storage

Scope

Use of additional borrow pits and quarries to replace depleted sources and build a road to the windfarm, Tiriganiaq-Wolf portal, airstrip, and road to Discovery and other deposits

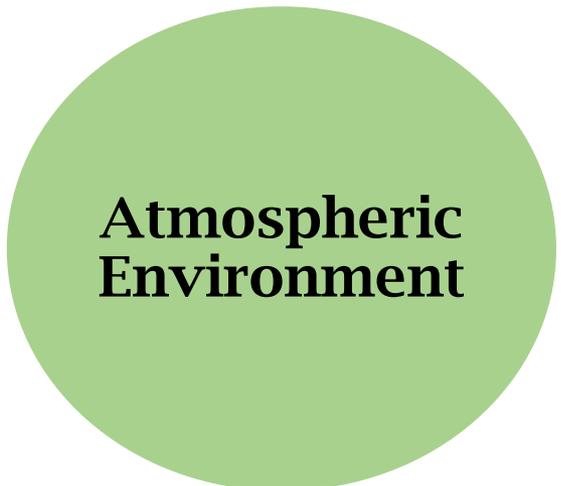


Scope



Airstrip and associated infrastructure removed from scope of proposal

Impact Assessment Summary



Climate and Meteorology



Air Quality



Climate Change and Greenhouse Gases



Noise

Impact Assessment Summary



Geology and Geochemistry



Permafrost



Soil and Terrain



Vegetation

Impact Assessment Summary

Terrestrial Environment



Terrestrial
Wildlife and
Wildlife
Habitat



Birds and
Bird Habitat

Impact Assessment Summary



**Hydrogeology and
Groundwater
Quantity and
Quality**



**Hydrology and
Water Quantity**



**Surface Water
and Sediment
Quality**



**Fish and Fish
Habitat**

Impact Assessment Summary



**Marine
Environment**



**Marine
Wildlife**

Impact Assessment Summary



Population Demographics



Economic Development and Opportunities



Education and Training



Individual, Family, and Community Wellbeing

Impact Assessment Summary



Health and Safety



Traditional Activity and Knowledge



Non-Traditional Land and Resource Use



Cultural, Archaeological and Paleontological Resources

Next Steps in the NIRB Process

Information Requests (IRs)

August-
September
2022

Technical Review Comments and
Responses

September-
November
2022

Technical Meeting/Community
Roundtable/Pre-Hearing Conference

November 23-
25

Board Pre-hearing Decision

December
2022

Pre-Hearing Conference

March 16,
2023

Public Hearing

TBD

NIRB Assessment Process

- What do you think about the Project Proposal?
- Comments, questions or concerns
- What environmental or socio-economic components are important to you?
- What potential effects do you think this Project might have on the land, animals and people?



Nunavut Information Sessions - Comments from the Community:

Ecosystemic

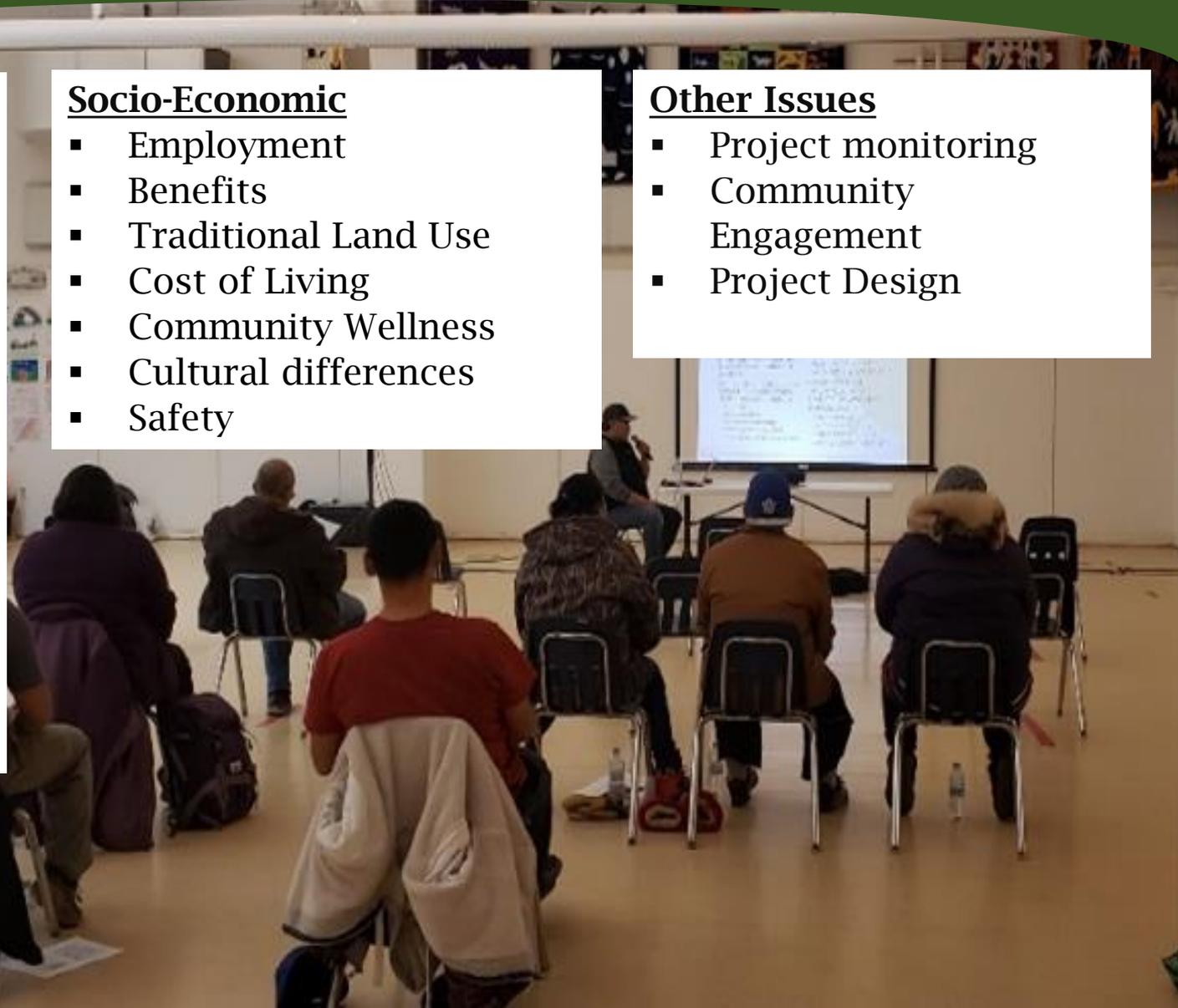
- Terrestrial Environment
- Caribou
- Vegetation
- Wildlife
- Marine Environment
- Marine Mammals
- Noise
- Climate change
- Air Quality
- Water quality
- Fish

Socio-Economic

- Employment
- Benefits
- Traditional Land Use
- Cost of Living
- Community Wellness
- Cultural differences
- Safety

Other Issues

- Project monitoring
- Community Engagement
- Project Design



Community Roundtable- Comments from the Community:

Ecosystemic

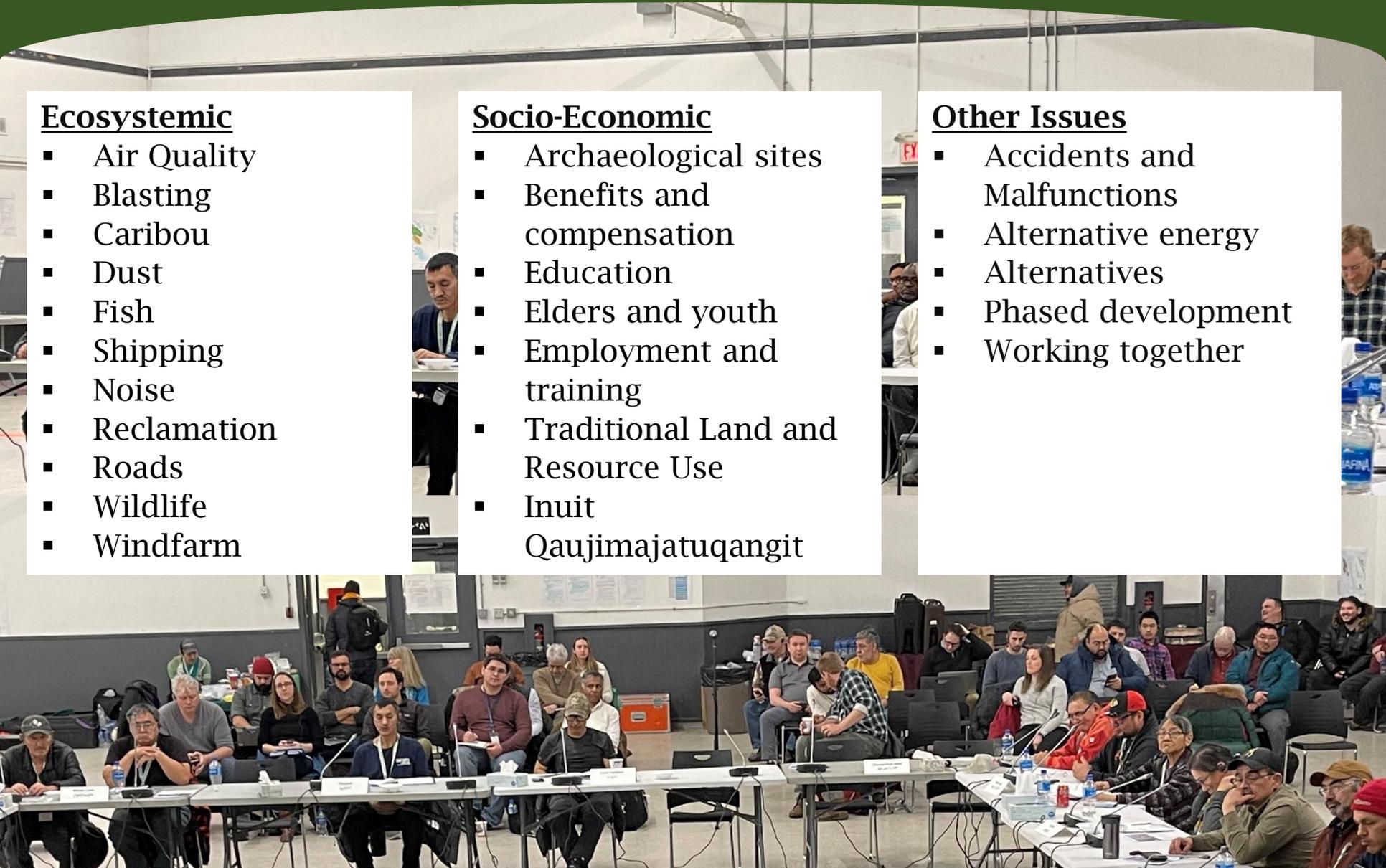
- Air Quality
- Blasting
- Caribou
- Dust
- Fish
- Shipping
- Noise
- Reclamation
- Roads
- Wildlife
- Windfarm

Socio-Economic

- Archaeological sites
- Benefits and compensation
- Education
- Elders and youth
- Employment and training
- Traditional Land and Resource Use
- Inuit Qaujimajatuqangit

Other Issues

- Accidents and Malfunctions
- Alternative energy
- Alternatives
- Phased development
- Working together



How can you get involved?

- Provide feedback today to staff or on the comment forms
- Review material online: www.nirb.ca/project/125684
- Register for a NIRB account at www.nirb.ca and follow the project (11MN034) to receive updates and notifications
- Submit written comments and questions: info@nirb.ca
- Phone the NIRB's office toll free: 1-866-233-3033
- Participate in the Public Hearing Community Roundtable

Questions / Comments



Masi Cho Thank you

