



3. List the pending* permits, licenses, or other authorizations related to the project proposal:
- Nil

*Please provide a copy of all applications to the NIRB.

4. Has this project or any components of this project been previously screened or reviewed by NIRB?

☐ YES

☒ NO

If YES, indicate the previous project name and NIRB File No.

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the type of project proposal (check all that apply)^(1,2):
(See Appendix A for Project Type Definitions)

1	All-Weather Road/Access Trail	<input type="checkbox"/>	9	Site Cleanup/Remediation	<input type="checkbox"/>
2	Winter Road/ Winter Trail	<input type="checkbox"/>	10	Oil and Natural Gas Exploration/Activities	<input type="checkbox"/>
3	Mineral Exploration	<input type="checkbox"/>	11	Marine Based Activities	<input type="checkbox"/>
4	Advanced Mineral Exploration	<input type="checkbox"/>	12	Scientific/International Polar Year Research*	<input type="checkbox"/>
5	Mine Development /Bulk Sampling	<input type="checkbox"/>	13	Harvesting Activities*	<input type="checkbox"/>
6	Pits and quarries	<input type="checkbox"/>	14	Tourism Activities*	<input type="checkbox"/>
7	Offshore Infrastructure (port, break water, dock)	<input type="checkbox"/>	15	Other ⁽²⁾ : (Defence)	<input checked="" type="checkbox"/>
8	Seismic Survey	<input type="checkbox"/>			<input type="checkbox"/>

Please note:

- All project types listed above, except those marked with an asterisk (*), will also require the Proponent to submit a **Part 2 Project Specific Information Requirement (PSIR) Form**. The NIRB application process will not be considered complete without the Part 2 PSIR Form.
- Please be advised that in order to complete the NIRB process, the NIRB may request additional information at any time during the process.
- If "Other" is selected, contact NIRB for direction on whether a Part 2 PSIR Form is required.



2. If Project Type 3, 4 or 5 was selected in previous question, please indicate the mineral of interest that is being extracted. Include a brief description.

<input type="checkbox"/>	Base Metals (zinc, copper, gold, silver, etc)
<input type="checkbox"/>	Diamonds
<input type="checkbox"/>	Uranium
<input type="checkbox"/>	Other: _____

3a. If Project Type 12, 13 or 14 was selected above, complete the table and questions below.

Transportation Type	Quantity	Proposed Use	Length of Use
DC 3	2	Site to site pick ups and drop offs of personnel and logisitics supplies	6 days
Twin Otter	2	Site to site pick ups and drop offs of personnel and logisitics supplies	6 days
Helicopter	1	Site to site pick ups and drop offs of personnel and logisitics supplies	6 days
BV-206	2	Transportation of logisitics supplies and emergency casualty evacuation	8 days
Ski-doo	70	Individual/pairs transportation	8 days

3b. Describe any docks, piers, air strips or related structures that are to be used in conjunction with the proposed project activities. **Please note: the building of new structures may require a Part 2 Form.**
Improvised airstrips will be established on the ice at Eleanor Lake (Cornwallis Island) as well as at Gascoyne Inlet (Devon Island). All other sites will use pre-established landing sites (Polaris and Eureka).

3c. If a temporary camp site is to be established, describe the proposed structures in detail and indicate the type and source of power for the camp site if applicable.

All temporary camps will consist of ten man tent groups and related equipment only. The largest camp comprising 134 exercise participants on the land will be at Eleanor Lake (16 tents). Smaller groups will then move from this location to either Gascoyne Inlet, Polaris or Eureka taking tentage with them. Equipment including tents, stoves/lanterns, naptha are transported inside a toboggan.

4. Personnel

Total No. of personnel on site = (A)	134	Total No. of days on-site = (B)	6	Total No. of Person days (A) × (B) = 804
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5. Timing

Period of operation: from **18 March 2017** to **26 March 2017**
Proposed term of authorization: from **6 March 2017** to **31 March 2017**

6a. Region (check all that apply):

<input checked="" type="checkbox"/> North Baffin	<input type="checkbox"/> Kivalliq	<input type="checkbox"/> Kitikmeot	<input type="checkbox"/> Transboundary: _____
<input type="checkbox"/> South Baffin	<input type="checkbox"/> National Park		

6b. Describe the location of the proposed project activities in a regional context, noting the proximity to the nearest communities and any protected areas.

All participants will fly directly into Resolute and will be housed initially at CAFATC. From there they will move onto the land first to Crystal City (2 kms from CAFATC) and then Eleanor Lake.



Subsequent movement will be overland or by air to Polaris/Eureka/Gascoyne Inlet. Only the community of Resolute is adjacent to the proposed training areas however there is no intention to conduct training within that community. Soldiers will however be permitted (if time allows) to visit the Northern Coop or other commercial enterprises. A rifle range will be conducted east of Resolute between 24-26 March at a site used in the past for this purpose. There is no intention to enter the Polar Bear Pass National Wildlife Area.

6c. Discuss the history of the site if it has been used for any project activities in the past. Crystal City is an established DND training location that has been used for many years. Training at this location to be conducted during NOREX will not differ from that conducted previously (ie basic winter living/survival). The rifle range location in Resolute has also been used previously. Members of 1 CRPG will be present for all training.

6d. Indicate if there are any known archaeological/palaeontological historical sites in the area. The archaeological site at Resolute across the road from the town landfill/dump will not be disturbed. Participants may however visit the Franklin Expedition site on Beechy Island when deployed to Gascoyne Inlet. This visit will be coordinated with the Director of Heritage, Government of Nunavut and will not disturb the site in any way.

7. Land Status (check all that applies):

☒ Crown ☐ Commissioners' ☐ Municipal
☒ Inuit Owned Surface Lands ☐ Inuit Owned Sub-Surface Lands

8a. Co-ordinates: NOREX 17 activities will occur within the four following operational boxes as defined by the coordinates below:

Gascoyne Inlet: N 75.19.44/W 92.53.23
N 74.38.17/W 92.79.60
N 74.22.11/W 89.14.85
N 75.00.80/W 89.45.61

Eleanor Lake: N 75.73.72/W 94.96.17
N 75.76.35/W 93.71.47
N 75.19.97/W 92.71.63
N 75.15.52/W 94.78.59
N 75.44.37/W 95.20.88

Polaris: N 75.55.16/W 96.48.60
N 75.38.48/W 96.22.51
N 75.28.94/W 96.94.61
N 75.37.79/W 97.20.84
N 75.49.02/W 97.26.40
N 75.48.06/W 96.99.07

Eureka: N 79.31.58/W 86.88.53
N 80.37.62/W 94.61.97
N 81.57.39/W 86.05.04
N 80.45.31/W 78.59.06

NTS Map Sheet No:

(Please ensure that maps of the project are attached (1:50,000 if available, 1:250, 000 Mandatory) available from Natural Resources Canada)



8b. If the project proposal includes a **camp**, please provide the coordinates of the camp location

Primary Camp

Min Lat (degree/minute) 75.3616 Min Long (degree/minute) -94.0672

Alternate Camp

Max Lat (degree/minute) 75.3865 Max Long (degree/minute) -93.8927

The above camps are located within the Eleanor Lake Op Box defined above. Additional camps will be established within the other Op boxes however specific locations are not yet confirmed.

If different from above for the camp:

NTS Map Sheet No: _____

Please ensure that maps of the project are attached (1:50,000 if available, 1:250,000 **Mandatory**) available from Natural Resources Canada

Please note that additional location information may be required in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please include a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and
- Long-term developments, the projected outcome of the development for the area and its timeline.

IMPORTANT: If the proposed activities require submission of a NIRB Part 2 PSIR Form, please complete Section 8 only, otherwise continue on with Section 5.

SECTION 5: MATERIAL USE

1. List equipment to be used (including drills, pumps, aircraft, vehicles, etc.):

Equipment type and number	Size – dimensions	Proposed use
70 x Ski-doo	2M x 1M	Overland transportation of 136 personnel from Resolute to Eleanor Lake camp on 20 Mar and return 25 Mar. No more than six machines may be transported by air from Eleanor Lake to Eureka 21-24 Mar. Groups of no more than 20 ski-doo may also travel overland to Gascoyne Inlet and Polaris 21-24 March.
2 x BV-206	2.5M x 1.5M	These articulated and tracked oversnow vehicles will accompany the move from Resolute to the Eleanor Lake camp and return. They will be used as logistic vehicles as well as potentially being employed as ground evacuation platforms should casualties occur. Further movement from Eleanor Lake to Gascoyne Inlet or Polaris is unlikely but possible.
2 x DC 3	29M x 20M	This aircraft type will transport personnel from the Eleanor Lake austere airfield location to Eureka, Gascoyne Inlet and possibly Polaris. Movement of logistic supplies to include ski-doo, rations and packaged fuel is also possible.

2 x Twin Otter	20M x 15M	These aircraft will be used to transport personnel from the Eleanor Lake camp to Eureka, Gascoyne Inlet and possibly Polaris. Movement of logistic supplies consisting primarily of rations and packaged fuel will also be undertaken. They will also move personnel and supplies from Resolute to all of the above locations.
1 x Helicopter	17M x 15M	This aircraft will be used to transport personnel from Eleanor Lake to Gascoyne Inlet, Eureka and possibly Polaris. Logistic resupply flights of rations and packaged fuel are also possible and could include external slung loads. Flights from Resolute to all of the above locations are likely.
Ten Man Tent Groups	3M diametre	These tents will be used to establish temporary camps. The largest comprising all exercise participants on the land will be at Eleanor Lake (16 tents). Smaller groups will then move from this location to either Gascoyne Inlet, Polaris or Eureka taking appropriate tentage with them. Tent groups include the tent, stove/lantern, 4L naptha container, snow shovel/tools and a toboggan container for the packaged tent group.
3 x generators	1M square	These small generators will be used in temporary camp locations to recharge/operate essential equipment such as radios.

2a. Detail fuel and hazardous material use:

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel	10 x 20L	200L	Fuel contained within Jerry Cans and stored on or in the vehicles
Gasoline	16 x 20L	320L	Fuel contained within Jerry Cans and stored either on the ski-doo or in associated toboggans.
Gasoline	10 x 200L	2000L	Fuel cache to be established at the Eleanor Lake camp. Fuel will be stored in 200L drums.
Aviation fuel	0	0	All refueling of aircraft will take place at established airfield locations only.
Propane	0	0	
Other	16 x 3.75L	60L	Naptha for use in tent group stoves and lanterns. Containers will be transported in toboggans with the packed tent groups.
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	NIL

2b. Describe the proposed Spill Prevention Plan.

Prevention/response resources (spill pans, hydrocarbon spill pads, absorbal, etc) will be available and ready for use if required. Spill kits will be located at all fuel storage areas, vehicle maintenance areas and refueling areas. All personnel participating in NOREX will be briefed on spill prevention and environmental concerns/response prior to moving away from CAFATC and on to the land.



3a. Detail the anticipated daily water consumption rates

Daily amount (m ³)	Proposed water retrieval methods	Proposed water retrieval location
2	Ice blocks obtained from CAFATC and transported overland or by air to deployed troop locations.	CAFATC, Resolute Bay

3b. Have you applied for a water License* with the Nunavut Water Board?

☐ YES

☒ NO

If yes, what class of licence?

☐ Class A Water Licence

☐ Class B Water Licence

*Please provide a copy of the application or licence to the NIRB.

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste associated with the proposed project activities:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)	100kgs	Removed to CAFATC for disposal in existing facilities at Resolute.	Transported to southern Canada for disposal should facilities at CAFATC/Resolute be insufficient.
Greywater	200L		
Combustible wastes	300kgs		
Non-Combustible wastes	50kgs		
Overburden (organic soil, waste material, tailings)	Nil	Anticipated to consist of expended batteries from various devices.	All such waste will be shipped to southern Canada for disposal.
Hazardous waste	50kgs		
Other:	Nil		

2. Describe the proposed Waste Management Plan.

All materials and equipment will be removed at the conclusion of the exercise. All garbage, human waste and any contaminated (grey) water will be returned first to CAFATC. Those items which can be disposed of at facilities in Resolute Bay will be processed at that location. All other items will be returned south for disposal. Nothing will be released onto the land and no waste disposal will occur outside of Resolute Bay. All locations visited will be returned to their previous condition prior to departure. Given the short duration of activities, the limited interaction with environmental components and the proposed mitigation measures, there should be no negative impacts to the environment.

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

Community	Name	Organization	Date Contacted



No training will take place in local communities and therefore no community leaders have been contacted. There are however local economic benefits to NOREX as 26 members of 1 Canadian Ranger Patrol Group (1 CRPG) will be on duty receiving salary as well as any applicable equipment usage allowances. These personnel will come from a number of different communities. As well, all military personnel will be permitted to purchase sundries from the Northern Coop in Resolute as well as potentially art work or other souvenir type items if available.

SECTION 8: GENERAL QUESTIONS


1. Will you be disturbing any known archaeological sites?

☐ YES

X NO

SECTION 9: APPLICANT SIGNATURE

Please sign and date your application:


J.G. Prentice, Major
Signature

NOREX 17 Plans
Title

30 November 2016
Date

APPENDIX A Project Type Definitions

Access Trail: A project proposal with the objective of providing vehicular access to an area of interest involving minimal alteration to the terrain.

Advanced Exploration: A project proposal with the objective of identifying size, grade, and physical characteristics of a mineral occurrence and to assess the economic and technical feasibility of developing the mineral deposit into a producing mine

All-Weather Road: A project proposal with the objective of road construction for use in all seasons.

Bulk Sampling: A project proposal with the objective of extracting of large samples of mineralized material involving hundreds to thousands of tonnes. Samples are selected as representative of the potential mineral deposit being sampled. May involve crushing/milling (on small-scale)

Harvesting activities: A project proposal with the objective of harvesting animals, marine mammals and/or fish from their natural habitats by means of hunting or trapping for traditional and commercial use.

Marine Based Activities: Any activity occurring in the marine environment, such as vessel use associated with land-based activities or disposal at sea.

*Please note that normal community re-supply or individual ship movements not associated with land-based project proposals shall not be screened by NIRB (Section 12.12.2 of NLCA).

Mine Development: A project proposal with the objective of extracting broken rock with mineralization of sufficient grade and tonnage to sustain commercial mining operations (ore). Mining a body of ore can



be achieved by either open pit and/or underground development. Mine development may involve milling. Milling involves treatment of the extracted ore through a combination of mechanical and chemical processes to selectively recover the valuable mineral.

Mineral Exploration: A project proposal with the objective of exploring an area to find geological anomalies. It involves site reconnaissance (ground and/or air) to locate broad and fiscal mineral deposits.

Offshore Infrastructure: A project proposal with the objective of building off loading facilities constructed off the shoreline and connected to the mainland of the marine or freshwater environment. Examples include a jetty, dock, or port facility.

Oil and Gas Exploration/Activities: A project proposal that includes 1) exploration, such as seismic or geological mapping, 2) drilling of oil and gas wells, 3) construction and operation of a pipeline, a gas processing plant or any oil and gas facility within Nunavut.

Pits and Quarries: A project proposal with the objective of pitting, which involves the extraction of granular material (i.e. sands and gravels) and quarrying, which involves the removal of consolidated rock (i.e. bedrock, frozen soil).

Scientific Research: A project proposal with the objective of implementing a series of site activities comprised of observation of phenomena, measurement and collection of data necessary for scientific investigation in designated areas within a limited time period.

Seismic Survey: A project proposal with the objective of conducting a survey to map the depths and contours of rock strata by timing the reflections of sound waves released from the surface. Survey site locations may be offshore (not within 12 nautical miles of any coast), near shore, and extended onshore.

Site Cleanups: A project proposal with the objective of site cleanups (includes DEW line site cleanups), which focuses on the remediation of chemically contaminated soils, stabilization of landfills and dumps, demolition/disposal of infrastructure and debris and monitoring after cleanup is completed.

Tourism Activity: A project proposal with the objective of conducting travel predominantly for recreational, sport or leisure purposes within a designated area and limited time period.

Winter Road: A project proposal with the objective of building a road for winter use by leveling and compacting surface snow and ice. Winter road is removed at end of season.

Winter Trail: A project proposal with the objective of building a trail for winter use by a single pass of a tracked vehicle using a blade, if necessary.