

Activities

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Grise Fiord Operational Box	Other	Crown	Nil	No specific information available.	This activity area is located in the immediate vicinity of Grise Fiord. Up to 30 soldiers will arrive at the airport sometime between 6 and 16 February 2018. They will conduct a patrol in the local area. If necessary, they may remain for no more than one night in a temporary tented camp before returning to Resolute. Rangers from the local community will be involved throughout.
Resolute Operational Box	Camp	Inuit Owned Surface Lands	Nil	No specific information available.	This activity is located in the immediate vicinity of Resolute. Up to 110 soldiers, accompanied by 20 Rangers will establish a temporary tented camp at the approximate location indicated on the map. From this location they will conduct training activities including patrolling and survival training at multiple locations throughout the defined area. A rifle/shotgun range will also be conducted on two separate occasions (most likely 6 Feb and again on 16 Feb).
Main Tented Camp and Fuel Cache Location	Fuel and chemical storage	Crown	Nil	No specific information available.	This activity area is located in the immediate vicinity of Resolute. Approximately 110 soldiers and 20 Rangers will establish a camp at the indicated location between 6-16 February 2018. A fuel cache of 2000L of gasoline and 400L of naphtha will also be established in this area.
Arctic Bay Operational Box	Other	Crown	Nil	No specific information available.	This activity area is located in the immediate vicinity of

					Arctic Bay. Up to 30 soldiers will arrive at the airport sometime between 6 and 16 February 2018. They will conduct a patrol in the local area. If necessary, they may remain for no more than one night in a temporary tented camp before returning to Resolute. Rangers from the local community will be involved throughout.
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Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

Authorizations

Indicate the areas in which the project is located

North Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Qikiqtani Inuit Association	This request will be submitted by Real Property Operations Unit (North) on behalf of NOREX 18. It will request permission to use Inuit Owned Lands within the anticipated exercise areas at Resolute, Grise Fiord and Arctic Bay. Submission will most likely occur following the completion of NIRB screening.	Not Yet Applied		
Nunavut Water Board	This application will seek to confirm that a permit is not required for water use during NOREX 18 (Approval Without a Licence). It will also seek to confirm that the deposit of waste water (grey water only) onto the land is permissible. Any direction received from the Nunavut Water Board will be followed during the exercise. This application will be submitted following the completion of NIRB screening and is thus most likely to occur in early January 2018.	Not Yet Applied		

Project transportation types

Transportation Type	Quantity	Proposed Use	Length of Use
Air	0	Participants will arrive at Resolute via charter and military aircraft. During NOREX, movement by air will be achieved through use of a military Twin Otter as well as chartered Twin Otter and DC-3. Flights between Resolute and Arctic Bay, as well as between Resolute and Grise Fiord, are planned. Only established airfields will be used.	
Land	0	Movement on land will be primarily via military ski-doo and on foot. Limited use of BV-206 is also planned on Cornwallis Island.	

Project accomodation types

Temporary Camp

Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Ski-Doo	70	2M x 1M	Overland transportation
BV-206	2	5M x 2M	Resupply and casualty evacuation between CAFATC and the main tented camp on Cornwallis Island.
Twin Otter	2	20M x 15M	Flights between communities. These aircraft are expected to operate only from permanent airfields located within all three Operational Boxes.
DC-3	1	29M x 20M	Flights between communities. This aircraft is expected to operate only from permanent airfields located within all three Operational Boxes.
Tents	20	2M x 2M	Accommodation for up to 10 soldiers while camping.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	10	200	2000	Liters	Cached within the main tented camp.
Gasoline	fuel	20	20	400	Liters	Transported with soldiers on ski-doods.
Other	fuel	16	4	64	Liters	Naptha for tent stoves and lanterns transported with camp stores
Other	fuel	2	200	400	Liters	Naptha to be included as part of fuel cache.
Diesel	fuel	4	20	80	Liters	BV-206 fuel carried with vehicles

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
3	Ice blocks obtained from CAFATC	CAFATC (operating on trucked water from Resolute)

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Camp	Combustible wastes	400kgs	All combustible wastes will be removed from the site and transported to Resolute for disposal by burning at the Hamlet dump or incinerator (if	Any wastes which are unable to be disposed of by burning at the dump site or incinerator will be transported south for disposal.

			operational).	
Camp	Greywater	200L	A permit from the Nunavut Water Board will be requested which will permit the dumping of small quantities of grey water at or near the site.	If this NWB permit request is not approved, grey water will be recovered to Resolute for disposal.
Camp	Hazardous waste	110kgs	All hazardous waste (primarily batteries) will be removed from the site and taken to Resolute for transport south.	Hazardous waste will be disposed of in the south in accordance with applicable environmental regulations.
Fuel and chemical storage	Hazardous waste	Nil	Fuel will be consumed during the exercise. Should any remain on the conclusion of training, it will be transported back to CAFATC.	All empty containers (drums) and spill prevention equipment will be removed at the conclusion of training.
Camp	Non-Combustible wastes	100kgs	Will be shipped south for disposal.	All items shipped south will be disposed of in accordance with applicable environmental regulations.
Other	Other, Misc Waste (Garbage) from Grise Fiord	50kgs	All materials will be returned to CAFATC for disposal in Resolute.	Shipped south to Ontario if necessary.
Other	Other, Misc Waste (Garbage) from Arctic Bay	50kgs	All materials will be returned to CAFATC for disposal in Resolute.	Shipped south to Ontario if necessary.
Camp	Sewage (human waste)	200kgs	Sewage will be collected in sanitary containers and then transported from the site to Resolute. If possible it will then be disposed of within that community by burning.	If it is not possible to dispose of human waste products at Resolute, materials will be shipped south for disposal.

Environmental Impacts:

All materials and equipment will be removed at the conclusion of the exercise. There is no plan to remove soil or rock or interfere with the natural grade of the land. All garbage, human waste, and any contaminated (grey) water not approved by the NWB for release onto the land will be returned first to CAFATC. Those items which can be disposed of at facilities in RESOLUTE 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. 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.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

Description of Existing Environment: Physical Environment

All areas to be used by NOREX 18 participants, aside from transit through established airfields/communities, are in a natural state. Areas are windswept and free of human structures.

Description of Existing Environment: Biological Environment

Snow cover will be present in most areas thus concealing local flora. NOREX 18 participants will be instructed to avoid flora where present/visible. Local fauna may be encountered during the exercise. All participants will be instructed to minimise such encounters. In the event of unavoidable contact with predators, Rangers from the local communities will be requested to assist with the situation.

Description of Existing Environment: Socio-economic Environment

There are three small communities adjacent to the exercise areas. There will be only very limited presence by military personnel in these communities during the exercise. This is most likely to occur in Resolute during the initial set up phase of the exercise when trips to the local RCMP or other agencies may be required.

Identification of Impacts and Proposed Mitigation Measures

All waste materials will be removed at the conclusion of training. All military equipment will also be removed. Contact with local flora and fauna will be limited to the maximum extent possible. There should be no impact on the environment beyond the very short term when soldiers are physically present on the land.

Cumulative Effects

Nil.

