



NIRB Application for Screening #125431

Carboniferous Basins in Svalbard, Canada and the Barents Sea (CBS2)

Application Type: New
Project Type: Scientific Research
Application Date: 1/8/2019 11:28:28 AM
Period of operation: from 0001-01-01 to 0001-01-01
Proposed Authorization: from 0001-01-01 to 0001-01-01
Project Proponent: Jean-Baptiste Koehl
Skogåsvegen 33 CO ALEXANDRE DESCOMPS
Tromsø Troms 9011
Norway
Phone Number:: +47 45127244, Fax Number::

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Grinnell Peninsula, study of rock outcrops of the Emma Fiord Formation.	Camp	Crown	None.	None.	250 km from Resolute Bay.
Grinnell Peninsula, study of rock outcrops of the Emma Fiord Formation.	Researching	Crown	None.	None.	250 km from Resolute Bay.
Grinnell Peninsula, study of rock outcrops of the Emma Fiord Formation.	Sampling sites	Crown	None.	None.	250 km from Resolute Bay.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Resolute Bay	Jodi MacGregor	Polar Continental Shelf Program	2018-10-24

Authorizations

Indicate the areas in which the project is located:

North Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	Scientific Research License	Applied, Decision Pending		
Nunavut Water Board	Application for use without a Water License	Applied, Decision Pending		
Other	Nunavut Planning Commission Conformity	Active	2018-12-07	
Other	Nunavut Impact Review Board Screening	Applied, Decision Pending		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	Twin Otter and/or Helicopter	

Project accomodation types

Temporary Camp

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Aircraft	1	20*16*6	Transportation of two field participants between Resolute Bay and the study area in Devon Island in Twin Otter.
Aircraft	1	11*11*4	If needed, transportation of the two participants by helicopter (Astar) from the Twin Otter landing site to the camp site.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Propane	fuel	1	15	15	Liters	Cooking
iosol	fuel	1	4	4	Liters	Cooking
Gasoline	fuel	1	15	15	Liters	Burn waste

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	Plastic containers.	Nearby snow patches and Lyall River.

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Berm	Combustible wastes	8 kg	Burn as much as possible.	Unburned waste will be bagged in waterproof bags and container, and will be brought back to Resolute Bay.
Berm	Greywater	13 liters	In dugout pits.	Pits to be backfilled.
Berm	Non-Combustible wastes	8 kg	Crushed, bagged, and stored in a waterproof container.	To be brought back to Resolute Bay upon completion of fieldwork.
Berm	Sewage (human waste)	8 kg	Burned on site as much as possible.	Unburned waste will be sealed in waterproof bags and container, and will be brought back to Resolute Bay.

Environmental Impacts:

The project participants will establish a temporary camp of three tents if possible away from any fauna and flora. The site will be restored to its original condition prior to departure. Small rock samples will be taken in the field. To mitigate the negative impact on surface and bedrock geology, only small (hand-sized) specimen and loose blocks will be taken.

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****Description of Existing Environment: Biological Environment****Description of Existing Environment: Socio-economic Environment****Miscellaneous Project Information**

The camp will be set in areas without vegetation and the camp site will be restored to its original condition. The field participants will carry at all time HF transceivers and a satellite phone and communicate their plans to basecamp in Resolute Bay twice a day. Waste will be burned, bagged, sealed, and brought back to Resolute Bay.

Identification of Impacts and Proposed Mitigation Measures

Rock samples will be taken from outcrop of the Emma Fiord Formation. To mitigate the impact on the bedrock only small (hand-sized) samples will be taken and, if possible, as loose blocks.

Cumulative Effects

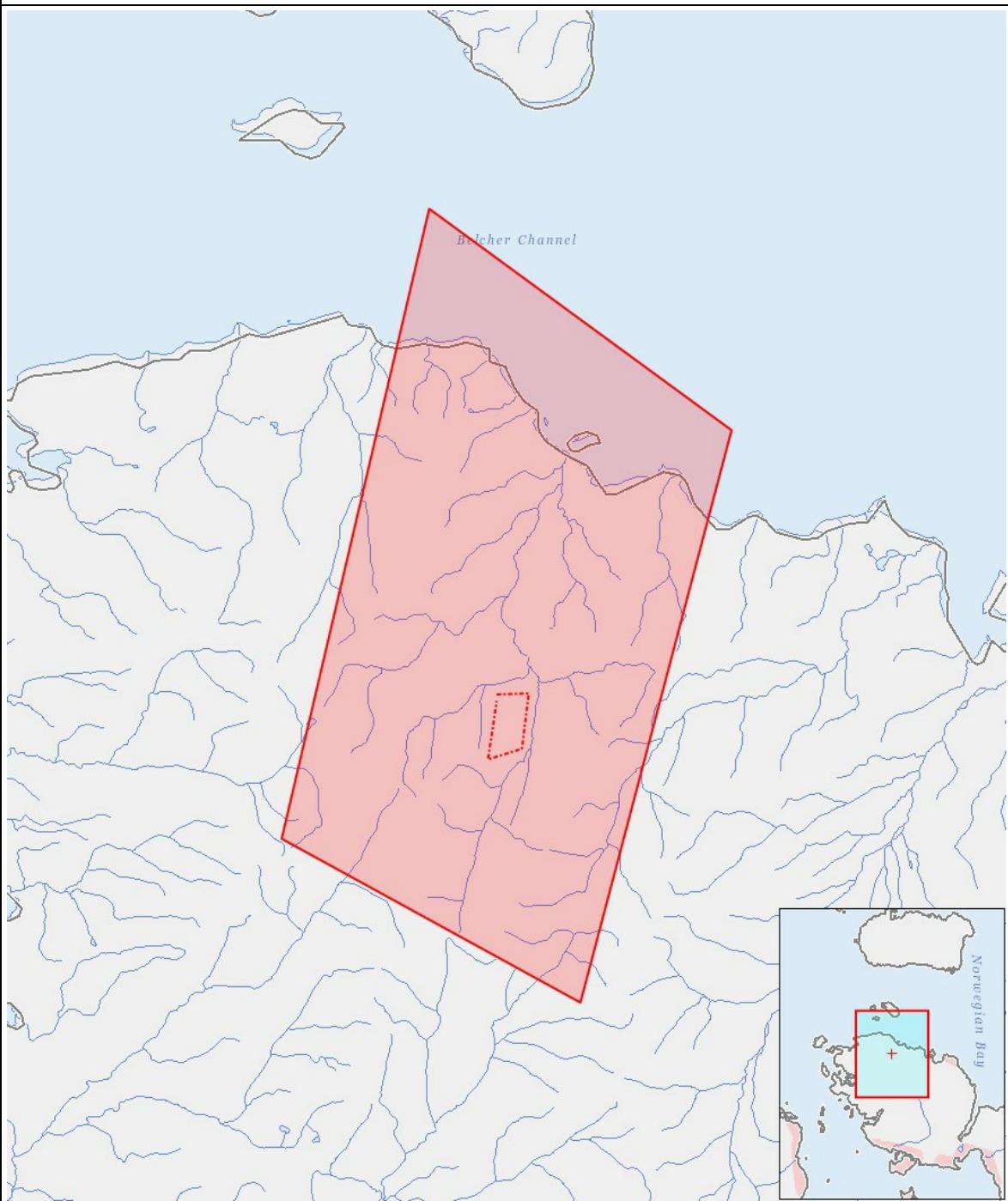
Impacts

Identification of Environmental Impacts

PHYSICAL														
Designated environmental areas														
Ground stability														
Permafrost														
Hydrology / Limnology														
Water quality														
Climate conditions														
Eskers and other unique or fragile landscapes														
Surface and bedrock geology														
Sediment and soil quality														
Tidal processes and bathymetry														
Air quality														
Noise levels														
BIOLOGICAL														
Vegetation														
Wildlife, including habitat and migration patterns														
Birds, including habitat and migration patterns														
Aquatic species, incl. habitat and migration/spawning														
Wildlife protected areas														
SOCIO-ECONOMIC														
Archaeological and cultural historic sites														
Employment														
Community wellness														
Community infrastructure														
Human health														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation														
Sampling sites	-	-	-	-	-	-	-	-	N	-	-	-	-	-
Decommissioning														
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Location



List of Project Geometries

- | | | |
|---|---------|---|
| 1 | polygon | Grinnell Peninsula, study of rock outcrops of the Emma Fiord Formation. |
| 2 | polygon | Temporary camp location |