



NIRB Application for Screening #126430

Vermont State University

Application Type: Amendment
Project Type: Scientific Research
Application Date: Tuesday, March 17, 2026
Period of operation: from 2026-06-15 to 2026-07-03
Project Proponent: Ross Lieblappen
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USA
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DETAILS

Non-technical project proposal description

English: See attached document

French: See attached document

Inuktitut: See attached document

Inuinnaqtun: See attached document

Personnel

Personnel on site: 6

Days on site: 18

Total Person days: 108

Operations Phase: from 2026-06-15 to 2026-07-03

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Resolute Bay permafrost accessible by road, ATV, or snow machine	Sampling sites	Municipal	This is our first year sampling here and thus have no history at this site	N/A	Resolute, 10 km
Eureka permafrost accessible by road, ATV, or snow machine	Sampling sites	Crown	This is our first year sampling here and thus have no history at this site	N/A	Grise Fjord, 500 km

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Cambridge Bay	Gabriel Ferland	Viventem	2024-12-15
Resolute Bay	Ljiljana Krstic	NRCan	2026-02-11

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 Licence	Applied, Decision Pending		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	ATV (ice)	
Land	ATV, truck	

Project accommodation types

Permanent Camp

Community

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Drill	2	7 cm	permafrost and sea ice coring drills
ATV	6	2 m x 1 m	Access to coring sites
Truck	1	2 m x 1 m	access to permafrost sites along road
Aircraft	1	Twin Otter	Transport to Eureka from Resolute

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	hazardous	1	50	50	Liters	for drills and ATVs
Ethanol	hazardous	1	1	1	Liters	sterilization

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Information is not available				

Environmental Impacts:

We will be using ATVs and pickup trucks but will have no waste. Anything taken into the field will leave with us. We will fill any coring holes in the ice and ground.

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

Identification of Impacts and Proposed Mitigation Measures

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		-	-	M	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Decommissioning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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