



## **NIRB Application for Screening #125925**

### **Whale Cove Mobile Wind Resource Assessment Project**

**Application Type:** New

**Project Type:** Scientific Research

**Application Date:** 4/5/2024 5:34:05 PM

**Period of operation:** from 2024-08-20 to 2025-10-19

**Project Proponent:** Kailey Wright  
Northern Energy Capital Inc  
Suite 502, 151 West Hastings St  
Vancouver British Columbia V6B 1H4  
Canada  
Phone Number:: 250-686-6644, Fax Number::

## Non-technical project proposal description

French: N/A

Inuinnaqtun: N/A

Personnel on site: 4

Days on site: 4

Total Person days: 16

Operations Phase: from 2024-08-20 to 2024-09-18

Operations Phase: from 2024-08-20 to 2025-10-19

Post-Closure Phase: from to

# Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Site A	Equipment installation	Municipal	The Project will operate on untitled municipal land in Whale Cove that is administered by the Commissioner.	N/A	Project site is approximately 2 km from Whale Cove and 6 km from the airport.

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Whale Cove	Brian Fleming	Hamlet of Whale Cove	2024-04-11
Whale Cove	Brian Fleming	Hamlet of Whale Cove	2024-03-20

## Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	The proponent acknowledges the Project will also require a scientific license from NRI	Not Yet Applied		
Government of Nunavut, Community Government & Services	The proponent submitted a Land Use Permit application and is awaiting approval from the Hamlet of Whale Cove and a determination from NIRB.	Applied, Decision Pending		
Government of Nunavut, Community Government & Services	The proponent is waiting for a time to present the project to Hamlet Council before applying for the Development Permit.	Not Yet Applied		

### Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	A single flight for up to three staff to Whale Cove to install the SoDAR device in Fall 2024. No other flights necessary	
Land	Use of ATV or truck to site to move equipment to site in Fall. Winter access by maintenance team can be by snowmobile in winter as needed.	

### Project accomodation types

Community

## Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Sonic Detection and Ranging (SODAR)	1	0.5m x 0.5m x 3.0m	Using sound waves, this equipment will monitor wind activity including wind speed, wind direction, and wind frequency.
White Tent	1	3.0m x 3.0m	Tent enclosure to protect both wildlife and equipment that will house the more delicate SoDAR power supply.
PV array	1	5.7m x 6.1m	Photovoltaic power supply that will serve as the primary power supply for the SoDAR equipment.

### Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Propane	fuel	6	100	600	Lbs	The propane is used to regulate the SODAR's temperature for the prevention of ice formation. Additionally, the propane is also used to power a generator to supplement the SODAR's 15W power requirement. Necessary steps are being made to reduce the quantity of fuel containers stored on site.

### Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0	No water is required for this study.	No water is required for this study.

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Equipment installation	Other, None	0lb	Landfill, recycled, reused, repurposed	Proponent does not anticipate any waste during installation of SODAR equipment. The crating the equipment arrives in will be reused to move the equipment after the 12- month study. The emptied propane tanks after use will be stored with the Hamlet office and refilled and reused. Should there be any waste, NEC will come prepared with a plan in place to dispose of the waste in an effective and appropriate manner that complies with local regulatory guidelines.

### Environmental Impacts:

Waste, impact mitigation, and environmental impacts from SODAR feasibility projects are typically very low and limited to land use displacement and construction if necessary. Nevertheless, the project team has endeavoured to identify and prevent any unacceptable environmental impacts or impacts on traditional land use. Potential risks identified that could be caused by the project are listed below, and due to character limits, the planned mitigation strategies will be stored in the documents section. Risks include disturbance of land resulting in habitat destruction, impact to caribou migratory corridors and habitat range, leak or spillage of fuel resulting in ground contamination, interference with traditional land use, presence of archaeological sites or artifacts, and unforeseen generation of construction waste. A comprehensive outline for mitigation measures is attached in Project Documents.

# **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**

The ground surface is compromised mostly of jagged rock. We intend to place the SODAR device on the most level surface within the permitted zone. The proponent consulted CGS Land Administration for site history and proximity to sensitive habitats, proponent reviewed animal migration and rutting paths as part of a desktop study and devised a plan of action in case of emergency. This is outlined in the Predicted Environmental impacts document found in Project Documents

### **Description of Existing Environment: Biological Environment**

Please review Predicted environmental impacts of undertaking and proposed mitigation measures located in Project Documents.

### **Description of Existing Environment: Socio-economic Environment**

The proposed site is in the outer boundary of the municipality. The equipment has a small footprint and isn't expected to disrupt activity in the area. NEC is consulting with the Hamlet to find a company or appropriate individuals to perform routine check-ups on the equipment to check for interference. The equipment is also fitted with surveillance equipment to identify human and animal activity in proximity to equipment.

### **Miscellaneous Project Information**

### **Identification of Impacts and Proposed Mitigation Measures**

Please review Predicted environmental impacts of undertaking and proposed mitigation measures located in Project Documents.

### **Cumulative Effects**

Please review Predicted environmental impacts of undertaking and proposed mitigation measures located in Project Documents.



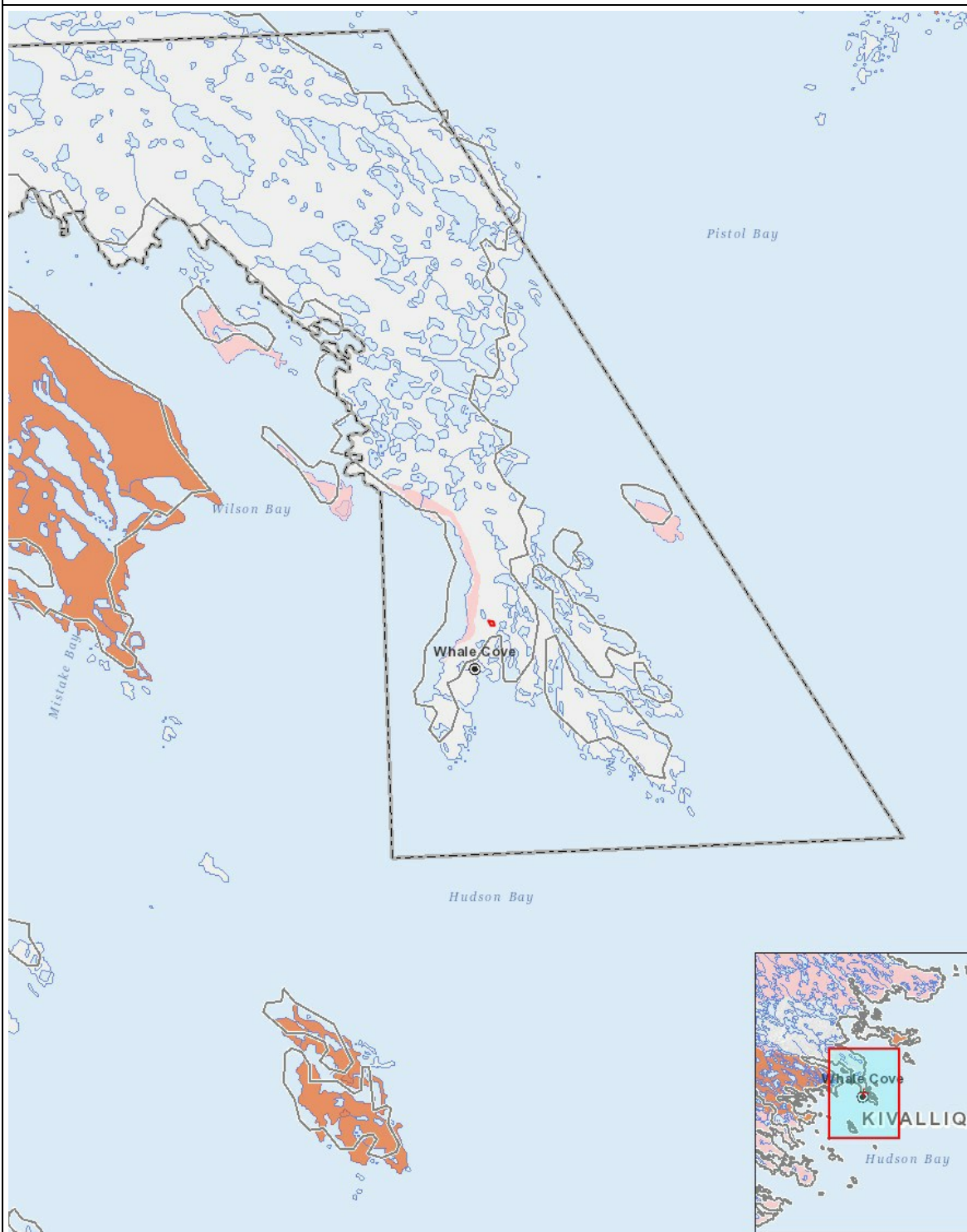
Impacts

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																									
Equipment installation		-	-	-	-	-	-	-	U	U	-	-	M		U	-	-	-	-		U	P	P	-	-
Operation																									
Equipment installation		-	-	-	-	-	-	-	U	U	-	-	M		U	-	-	-	-		U	P	P	-	-
Decommissioning																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

## Project Location



## List of Project Geometries

1	polygon	Site A
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