



## **NIRB Application for Screening #126180**

### **Water quality and sediment collection near Chesterfield Inlet, Whale Cove, Rankin Inlet, Baker Lake, Arviat, Nauyasat and Coral Harbour**

**Application Type:** New

**Project Type:** Scientific Research

**Application Date:** Tuesday, May 6, 2025

**Period of operation:** from 2025-06-23 to 2029-03-23

**Project Proponent:** Olga Francisco  
Prairie Scientific Inc.  
16 Symington Lane N  
Nauyas MB R5T 0J1  
Canada  
Phone Number:: 204-228-2082, Fax Number::

## DETAILS

### Non-technical project proposal description

English: Please see attached

French: n/a

Inuktitut: Please see attached

Inuinnaqtun: n/a

### Personnel

Personnel on site: 4

Days on site: 1

Total Person days: 4

Operations Phase: from 2025-06-23 to 2029-03-23

## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Arviat, Whale Cove, Rankin Inlet, Chesterfield Inlet, Baker Lake	Sampling sites	Inuit Owned Surface Lands	n/a	n/a	20-30km
Naujaat	Sampling sites	Inuit Owned Surface Lands	n/a	n/a	20-30km
Coral Harbour	Sampling sites	Inuit Owned Surface Lands	n/a	n/a	20-30km

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

## Authorizations

Indicate the areas in which the project is located:

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	APPLICATION FOR APPROVAL FOR THE USE OF WATER OR DEPOSIT OF WASTE WITHOUT A LICENCE	Applied, Decision Pending		
Nunavut Research Institute	Nunavut Research Institute - Research License Application 2025	Applied, Decision Pending		

### Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	Boat	
Land	ATV, snowmobile	

### Project accomodation types

Community

## Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Ekman dredge	1	6 x 6 x 6	Sediment samples collection
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### Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Information is not available						

### 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:

n/a

# **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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Decommissioning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

## Project Location



## List of Project Geometries

- |   |          |  |
|---|----------|--|
| 1 | polyline | Arviat, Whale Cove, Rankin Inlet, Chesterfield Inlet, Baker Lake |
| 2 | polyline | Naujaat  |
| 3 | polyline | Coral Harbour  |