



New

## Scientific Research

Monday, June 9, 2025

from 2026-04-01 to 2028-12-31

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<sup>c</sup>ᵇᶜᵈᵉᶠᶜᵍ: See attached documents.

▷ΔΑΝΩ: See attached documents.

Δ<sup>b</sup>Π<sup>c</sup>: See attached documents.

## Personnel

Personnel on site: 1

Days on site: 14

Total Person days: 14

Operations Phase: from 2025-04-01 to 2026-03-31

Operations Phase: from 2026-04-01 to 2028-12-31

Post-Closure Phase: from to

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Area	Sampling sites	Marine	N/A	N/A	N/A
7 Polygon - South Main Land Murchison, Hayes River, Back River	Sampling sites	Marine	N/A	N/A	N/A
1 Polygon - Boothia North - Potential Commercial Fishing - 200 Samples	Sampling sites	Marine	N/A	N/A	N/A
2 Polygon - Boothia East Coast - 100 Samples	Sampling sites	Marine	N/A	N/A	N/A
4. Polygon - Boothia West Coast - 100 Samples	Sampling sites	Marine	N/A	N/A	N/A
Polygon 6 Gjoa Haven Bay - Murchison Bay 100 Samples	Sampling sites	Marine	N/A	N/A	N/A
5 Polygon King William Island -100 samples	Sampling sites	Marine	N/A	N/A	N/A
3. Polygon Boothia Center-Taloyoak 150 samples	Sampling sites	Marine	N/A	N/A	N/A

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ᐱᙳᖅᑎᙳᖅ	Anthony Anguttitauruq	Gjoa Haven Hunters & Trappers Association	2025-02-11
ᑕᐱᑦᐸᐼᑦᑎᙳᖅ	Jimmy Ullikatalik	Taloyoak Umarulirigut Association	2025-02-11



$\subset \Delta^{\text{a}} j^c \wedge J^{\text{a}} q \triangleright \dot{n} \triangleleft^{\text{a}} r^{\text{ab}} C \triangleright l L r^c$

### Project transportation types

Transportation Type	Transportation Mode	Length of Use
Air	Air transport will be required for Laval University supporting personnel	
Water	Water (boat) transport will be required to reach sampling sites	

### Project accomodation types

## Temporary Camp

## Permanent Camp

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Scientific/International Polar Year Research	Other, Fish carcasses	100 fish	The fish caught will be kept by local harvesters for consumption. The carcasses will be disposed of by them.	Non applicable

### ᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦᐅᑦ

Environmental impacts should be minimal, and the project should have no further influence on the environment than the existent subsistence fisheries already have (e.g. some bycatch of untargeted species, which are often used as dog food).

# **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

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The main goal of this proposal is to provide continued support to the communities of Gjoa Haven and Taloyoak for the ongoing application for a commercial fishing license. There are currently no designated commercial fishing zones in the region.

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This project mainly involves Arctic char fisheries. Arctic char is an anadromous species that migrates from its spawning sites in freshwater to its feeding sites at sea in the spring, and comes back from the sea in the fall to overwinter and/or spawn. Arctic char is an abundant species in Arctic aquatic environments and can be found throughout the Arctic Ocean.

**L'e <EN> "bɔΔ<sup>C</sup>ɔ-ɫnɔσ<sup>s</sup>: Δɔɾnσ<sup>s</sup>j<sup>s</sup>ɪɾ<sup>c</sup>-ʌɛ<sup>c</sup>ɔɾɾnσ<sup>s</sup>j<sup>s</sup>ɪɾ<sup>c</sup>**

This project will involve the communities' subsistence fisheries for arctic char, which mainly happens in the spring and in the fall, when the fish are running between their feeding and spawning sites. Subsistence fisheries for Arctic char are an important activity both culturally, nutritionally and economically. In the proposed project, we collaborate with subsistence fishers to obtain samples from their catch, which we then use to generate high-quality data to assist the fisheries management and support the communities with their commercial fisheries application.

### Miscellaneous Project Information

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The proposed procedure reduces considerably the impact of our sampling activities, since we do not cause any further handling and/or mortality of Arctic char than what the already existing subsistence fisheries already cause. This is a net positive impact for our research activities, as opposed to a scenario where we would need to catch fish solely for sampling purposes. The proposed collaborative approach, involving local fishers in the sampling activities has yielded high success, as they know which spots to go to to catch fish. This is a net positive as it has drastically reduced the time and resources required to obtain the required number of samples.

## Cumulative Effects

The long term goals of this project involve both communities getting a commercial fishing license, which would create jobs and provide regular income for the communities. In the meantime, the data and

management tools generated by our research activities would provide guidance for the durable management of the fish stocks and related harvesting activities by the communities, reinforcing their stewardship over this important resource.

## Impacts

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$$(P = \langle b \rangle \Delta \cap \Gamma \cap \Gamma^a \Delta^b \Gamma^c, N = \langle b \rangle \Delta^a \Gamma^b \Gamma^c \Delta \Gamma^a \Delta^b \Gamma^c \langle c \rangle \Delta \Gamma^b \Gamma^c \Delta \Gamma^a \Delta^b \Gamma^c \Delta^c, M = \langle b \rangle \Delta^a \Gamma^b \Gamma^c \Delta \Gamma^a \Delta^b \Gamma^c \langle c \rangle \Delta \Gamma^b \Gamma^c \Delta \Gamma^a \Delta^b \Gamma^c \Delta^c, U = \langle b \rangle \Delta \Gamma^a \Delta^b \Gamma^c \Delta^b)$$

## List of Project Geometries

- |    |         |  |
|----|---------|--|
| 1  | polygon | 7 Polygon - South Main Land Murchison, Hayes River, Back River         |
| 2  | polygon | 1 Polygon - Boothia North - Potential Commercial Fishing - 200 Samples |
| 3  | polygon | 2 Polygon - Boothia East Coast - 100 Samples                           |
| 4  | polygon | 4. Polygon - Boothia West Coast - 100 Samples                          |
| 5  | polygon | Polygon 6 Gjoa Haven Bay - Murchison Bay 100 Samples                   |
| 6  | polygon | 5 Polygon King William Island -100 samples                             |
| 7  | polygon | 3. Polygon Boothia Center- Taloyoak 150 samples                        |
| 8  | point   | Nudlukta - Nalluqtap Tasia - ᐃᓕᔭᑦᑲᓪᓴᓯᐅᐱ                                |
| 9  | point   | Aqviqtunnuap Tasia - ᐳᑦᑲᐸᑦᑐᓄᐅᐳᓰᐅᐱ                                      |
| 10 | point   | Aitsauqtungiaq - ᐳᐳᓂᙵᑐᑦᑐᓇᒻᓶᐳᑲ  |

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