

New

## Scientific Research

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## ጋኒፕረዎኒክ

የጌጃጋቢ ለጉረባዎቹ ለጉረባዎቹ

የጌጃጋቢ: See document tab

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### Personnel

Personnel on site: 2

Days on site: 28

Total Person days: 56

Operations Phase: from 2018-07-23 to 2018-08-20

$$\Lambda \subset \mathbb{N} \triangleleft \mathbb{N} \xrightarrow{\iota} \mathbb{D} \xrightarrow{\sigma} \mathbb{D}^{\mathbb{N}} \supset \mathbb{C}$$
[illegible][illegible]

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ᑲᑯᑦᕐᕈᑦᕐᕈᑦ ᑦᕐᕈᑦ	Phillip Manik	Hunters Trappers Organizations	2018-02-24







# **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 11: Municipal Development

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McMaster and North rivers are mostly natural environments, extending from Allen Bay to the interior of Cornwallis Island, up to 16 km inland. The area is a polar desert: slopes are mostly devoid of vegetation except close to the rivers and where lingering snowbanks occur. Permafrost depth is greater than 600m and active layer thaws to 40-70 cm depending on soil properties and conditions.

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[illegible]

### Miscellaneous Project Information

[illegible]

This project involves water sampling (< 10L per day, not everyday) from the two main rivers and coring permafrost in a few (~10) locations. All operations are to be performed on foot, except transport to and from the areas on an ATV. The potential impacts are very limited: 1) Soil disturbance in soil pits when permafrost coring. Mitigation: Backfilling the soil pits after the operation 2) Gas spill from ATV and Drill engine fueling operations. Mitigation: Use of a spill kit, filling in Polar continental shelf garage instead of in the field. The research is based at the Polar Shelf facilities, so all potential waste will be dealt with through their system

## Cumulative Effects

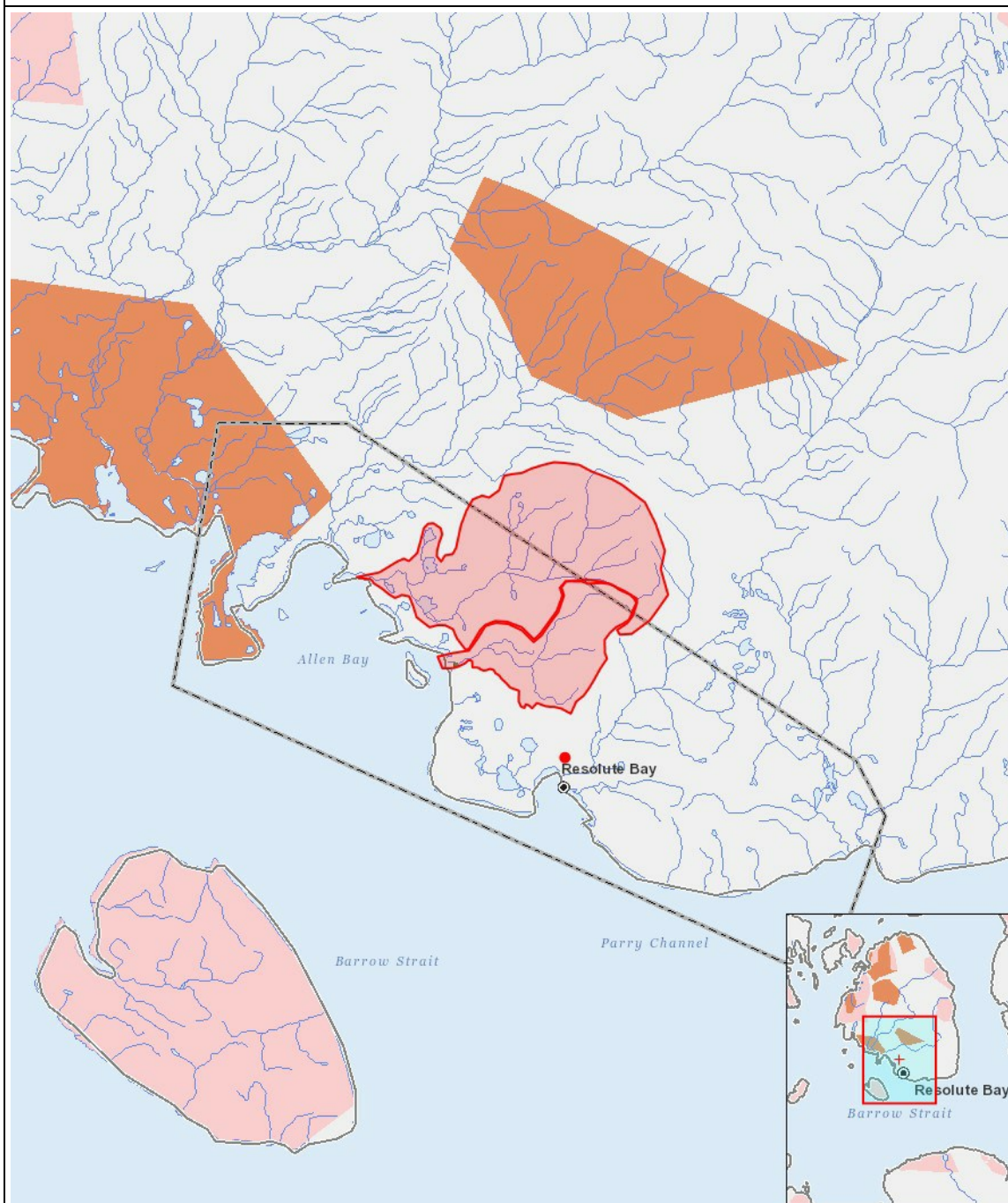


## Impacts

$\omega \rightarrow \omega \Delta^{\epsilon_b} C D \sigma^{-\epsilon_r} r^C$      $\Delta^{\epsilon_c} n \Gamma D C \dot{\sigma}^C D^C$      $\Delta^{b_c} D^{\epsilon_b} C D r L r^C$

[illegible]
$$(P = \langle b \rangle \Delta \langle p \rangle \cap \langle a \rangle \langle b \rangle^c, N = \langle b \rangle \langle p \rangle \langle \langle \langle \langle a \rangle \langle b \rangle^c \rangle \langle \langle \langle \langle \langle a \rangle \langle b \rangle^c \rangle \rangle \rangle \rangle \rangle^c, M = \langle b \rangle \langle p \rangle \langle \langle \langle \langle \langle a \rangle \langle b \rangle^c \rangle \rangle \rangle \rangle^c \\ \langle \langle \langle \langle \langle \langle a \rangle \langle b \rangle^c \rangle \rangle \rangle \rangle^c, U = \langle b \rangle \langle \langle \langle \langle \langle a \rangle \langle b \rangle^c \rangle \rangle \rangle \rangle^c)$$

## PROJECT MAP



### LIST OF PROJECT GEOMETRIES:

- |   |         |                          |
|---|---------|--------------------------|
| 1 | polygon | McMaster River Watershed |
| 2 | polygon | North Lake River         |
| 3 | point   | Resolute Bay             |