



ᐱᓕᑦᑲᐅᑦᑲᑦ: Pierre-Marc Godbout
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[illegible]

▷ΔΑΠΝΩΣ: N/A

Inuinnaqtun: N/A

Personnel on site: 6

Days on site: 15

Total Person days: 90

Operations Phase: from

Λ Γ Δ Ε Ζ Η Θ Ι Κ Λ Μ Ν Ξ Ο Π Ρ Σ Τ Υ Φ Χ Ψ Ω

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Intended fuel cache location	Fuel and chemical storage	Crown	N/A	N/A	115 km SW of Baker Lake
Approximate intended fieldwork area	Scientific/International Polar Year Research	Crown	N/A	N/A	Baker Lake/Thelon Sanctuary Game
Approximate intended fieldwork area	Scientific/International Polar Year Research	Inuit Owned Surface Lands	N/A	N/A	Baker Lake/Thelon Sanctuary Game
Approximate intended data release area	Scientific/International Polar Year Research	Inuit Owned Surface Lands	N/A	N/A	Baker Lake - Chesterfield Inlet - Rankin Inlet - Whale Cove - Arviat
Approximate intended data release area	Scientific/International Polar Year Research	Crown	N/A	N/A	Baker Lake - Chesterfield Inlet - Rankin Inlet - Whale Cove - Arviat

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ᓄᓇᑦᑎᖅ ^ᑭ	ᐱᑏᑦ	ᓃᐳᔨᐱᖅᑎᑏᒃᑭᖅ ^ᑭ	ᖅᕿᓴᓴ ᐳᖅᑎᑎᑳᑲᑳᑲᑲᐱᐱᑦᑎᓂᖅ
ᖅᓴᓂ'ᐳᐱᖅ ^ᑭ	Angel Aksawnee	Hunters & Trappers Organization	2025-02-11
ᖅᓴᓂ'ᐳᐱᖅ ^ᑭ	Valerie Niego	Kivalliq Inuit Association, Baker Lake office	2025-02-11
ᖅᓴᓂ'ᐳᐱᖅ ^ᑭ	Sheldon Dorey	Hamlet of Baker Lake	2025-02-10
ᖅᓴᓂ'ᐳᐱᖅ ^ᑭ	Trevor Attungala	Hamlet of Baker Lake	2025-02-10

$\subset \Delta^{\text{eq}}_j \wedge J^{\text{eq}}_{\text{end}} \triangleleft^{\text{eq}} r^{\text{eq}}_{\text{CD}} / L^{\text{eq}}$

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Indigenous and Northern Affairs Canada	Permission to establish a fuel cache on Crown land	Active	2025-03-27	
ᐃᕈᓂᐸᕐᑎᐸᕐ ᐃᕈᓂᐸᕐᑎᐸᕐ	Research licence	Applied, Decision Pending		
ᐃᕈᓂᐸᕐᑎᐸᕐ ᐃᕈᓂᐸᕐᑎᐸᕐ	Land Use Licence No. K VX25N01	Applied, Decision Pending		

Project transportation types

Transportation Type	Vehicle/Mode	Length of Use
Air	Astar 350B2 helicopter (fieldwork area)	
Land	Pick-up truck (in the community)	

Project accomodation types

மாண்புமிகு

A^cd^c d^ar^t^b d^c^bCd^cσd^ah^t^b Δc^bh^tp^cn^cr^c ΔjCΔ^c, Γ^c→d^ap^cn^c, ^bh^tL^cj^b, qe^ap^c d^ar^t^b→

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$\Delta L^{\text{cb}} \triangleleft^{\text{cb}} C \triangleright^{\text{cb}} \dot{L}^{\text{cb}} \triangleright^{\text{cb}}$

$\triangleright^C \neg C \dot{L}^{Cb} \triangleleft^{Cb} C \triangleright \sigma \triangleleft^{Cb} \triangleright^{Cb}$	$^{Cb} \sigma^{Cb} \Delta \Gamma^{Cb} C^{Cb} C^C \sigma \triangleleft^{Cb} \neg^C$	$\mathbf{eP}^C \Delta \Gamma^{Cb} C^{Cb} C^C \sigma \triangleleft^{Cb} \neg^C$
0		

$$\Delta^b C d r n \sigma \Delta^c \sigma^c b$$

$\triangleleft \nabla \Gamma \triangleright C \dot{\sigma}^C \supset^C \triangleleft^b \supset^{\zeta_b} C \triangleright \gamma L \uparrow^C$

The proposed fieldwork will result in minimal environmental impact. Helicopter access to sites within the study area will be conducted at altitudes above 1,000 feet to avoid disturbing wildlife. Refueling will primarily occur at the Baker Lake airport, with an additional fuel cache of 12-15 drums located 100 km west of Baker Lake. These drums will be securely sealed and neatly arranged on dry mineral soil. A spill kit will be available at the refueling site, and all drums will be removed by helicopter and returned to Baker Lake for proper disposal at the end of the two-week fieldwork period. Fieldwork will involve the collection of small surface soil samples using a hand shovel and bedrock samples from outcrops or glacially transported boulders with a portable rock saw. Any excavated holes will be filled and covered with turf to minimize disturbance. No waste will be created from the proposed work. Any garbage would be small (i.e., waste from a lunch or snacks) and will be packed out of the site and returned to the base camp (Baker Lake) for proper disposal.

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

The proposed fieldwork area is predominantly characterized by low Arctic shrub tundra or sub-polar/polar shrubland-lichen-moss vegetation. Only the northern portion of the area features mid-Arctic dwarf shrub or sub-polar/polar grassland-lichen-moss tundra (Baldwin et al., 2019; Land Cover of Canada, 2020). This region overlaps with the migration routes and calving grounds of several Barren-ground Caribou herds, including the Ahik, Lorillard, Qamanirjuaq, and Wager Bay herds (Environment and Climate Change Canada, 2021). It also lies within the range of other wide-ranging wildlife species such as muskoxen, wolves, wolverines, Arctic hares, Arctic foxes, grizzly bears, and various migratory and non-migratory bird species. Additionally, the area overlaps with the known range of several terrestrial species at risk in Nunavut listed under Schedule 1 of the federal Species at Risk Act (SARA), including Barren-ground Caribou (Napaqtuqangituqmiut Tutungit), Grizzly Bear (Akłait), and Wolverine (Qavvik; see Fig. 10). The proposed fieldwork area also intersects with the ranges of several bird species listed as at risk: the Peregrine Falcon (Kiggaviarjuk or Kigavik), the Red-necked Phalarope (Aupaluktuq Saurraq or Aupaqtuq Saarvaq), and the Short-eared Owl (Siutikituq Ukpik) (Environment and Climate Change Canada, 2021). Environment and Climate Change Canada (2021). Species at risk in Nunavut 2021. EC21221, Environment and Climate Change Canada, 1-93. <https://www.canada.ca/en/environment-climate-change/services/species-risk-education-centre/species-risk-nunavut-2021.html#toc0>Natural Resources Canada (2020). 2020 Land Cover of Canada. Natural Resources Canada, Federal Geospatial Platform. <https://osdp-psdo.canada.ca/dp/en/search/metadata/NRCAN-FGP-1-ee1580ab-a23d-4f86-a09b-79763677eb47>Baldwin, K.; Allen, L.; Basquill, S.; Chapman, K.; Downing, D.; Flynn, N.; MacKenzie, W.; Major, M.; Meades, W.; Meidinger, D.; Morneau, C.; Saucier, J-P.; Thorpe, J.; Uhliq, P. 2019. Vegetation Zones of Canada: a

Miscellaneous Project Information

[illegible]

During consultations with the community of Baker Lake, culturally sensitive areas within the proposed study area were identified and mapped. These areas will be strictly avoided during fieldwork. Should any new culturally significant sites be inadvertently encountered, all work in the vicinity will cease immediately. The site will be documented with notes and photographs, and reported to the relevant authorities for proper cataloging. To minimize wildlife disturbance, helicopter flights will be conducted at altitudes of 1,000 feet or higher, with most study sites being located at least 25 km from the community. If wildlife is observed at a site of interest, no landing will be attempted, and the helicopter will proceed to the next planned location. Sites where landings cannot be completed could be revisited at a later date, once wildlife has vacated the area and in accordance with advice from the wildlife monitor. On the ground, the crew will travel on foot within the vicinity of the aircraft, minimizing disturbance to vegetation. Disturbance will be limited to the immediate area surrounding the sampling hole, typically within a one-meter radius. Fieldwork will be avoided in fragile environments, such as wetlands. Additionally, the crew will document and report wildlife observations. All small waste, such as snack packaging, will be packed out and properly disposed of in Baker Lake. A fuel cache consisting of 12-15 drums will be set up approximately 115 km southwest of Baker Lake to minimize unnecessary flights between the community and the sites of interest. The closed-head steel drums at the fuel cache will be securely sealed and placed on dry mineral soil to reduce environmental impact following CIRNAC guidelines. A spill kit will be available at the refueling site, and all drums will be removed by helicopter and returned to Baker Lake for proper disposal at the end of the two-week fieldwork period. The impacts on the physical environment are likely to be localized, of low-magnitude, reversible and restricted to the short period of the proposed project activity. Soil and bedrock samples will be collected using non-invasive methods, including hand tools and a battery-powered

portable rock saw. Any excavated holes (typically 0.4 m in diameter and 0.5 m deep) will be backfilled and restored with turf to minimize environmental disturbance.

Cumulative Effects

The cumulative effect on the environment are likely to be localized, of low-magnitude, reversible and restricted to the short period of the proposed project activity. However, our work will provide baseline environmental data on surface and bedrock geology, as well as sediment and soil quality, which will be valuable for informed decision-making. Additionally, our efforts will document unique glacial landscapes that could be considered for the preservation of sites of scientific and environmental significance.

Impacts

$\mathbb{A}^{\mathfrak{b}} \mathbb{C} \triangleright \sigma^{\mathfrak{a}} \mathfrak{r}^{\mathfrak{c}} \triangleleft \mathfrak{e} \mathfrak{n} \mathfrak{r} \triangleright \mathbb{C} \dot{\sigma}^{\mathfrak{c}} \mathfrak{d}^{\mathfrak{c}} \triangleleft \mathfrak{b} \mathfrak{d}^{\mathfrak{b}} \mathbb{C} \triangleright \mathfrak{r} \mathfrak{L} \mathfrak{r}^{\mathfrak{c}}$

[illegible]

(P = $\langle \text{b} \rangle \Delta \text{p} \cap \text{r} \Delta \text{a} \text{c} \text{b} \text{c}$, N = $\langle \text{b} \rangle \Delta \text{p} \cap \text{r} \Delta \text{c} \text{a} \text{c} \text{b} \text{c} \text{c} \text{c} \Delta \text{c} \Delta \text{p} \Gamma \text{r} \Delta \text{p} \text{b} \text{c} \text{b} \text{c} \text{c} \Delta \text{c} \Delta \text{r} \text{a} \text{c} \text{a} \text{p} \text{c} \text{c} \text{c}$, M = $\langle \text{b} \rangle \Delta \text{p} \cap \text{r} \Delta \text{c} \Delta \text{c} \Delta \text{r} \text{a} \text{c} \text{b} \text{c} \text{c} \text{c} \text{c} \Delta \text{c} \Delta \text{p} \Gamma \text{r} \Delta \text{p} \text{b} \text{c} \text{b} \text{c} \text{c} \text{c} \Delta \text{c} \Delta \text{r} \text{a} \text{c} \text{b} \text{c} \text{c} \text{c}$, U = $\text{b} \Delta \text{p} \Delta \text{a} \text{c} \text{a} \text{p} \text{c} \text{c} \text{b}$)

1	polygon	Approximate intended fieldwork area
2	polygon	Approximate intended data release area
3	point	Intended fuel cache location

- | | | |
|---|---------|--|
| 1 | polygon | Approximate intended fieldwork area |
| 2 | polygon | Approximate intended data release area |
| 3 | point | Intended fuel cache location |

