

ᐅᓴᓐᓕᐅᓴᓐ: +33642426073, ᓴᓐᓕᓴᓐ:

DΔΛND^c: This project is not in the Iqaluit area - so the french translation was not requested

[illegible]

Institut language.

Personnel

Personnel on site: 3

Days on site: 10

Total Person days: 30

Operations Phase: from 2022-07-18 to 2022-07-26

$$\Lambda \subset \mathbb{N} \setminus \{1\} \rightarrow \mathbb{N} \setminus \{1\}$$
[illegible][illegible]

ᓄᓇ ᑦᕐᖃ	ᐱᑎ	ᔭᑐᒻᗣᐱᑦᕆᑏᑦᕐᖃ	ᑦᕐᖅᕈ ᑐᑦᕐᕆᑏᑦᕈᑦᕈᑦᕈᑦᕐᖃ
ᑦᕆᕋᑦ	David Stockley	Municipality of Pond Inlet	2022-04-21

$\Delta^{\alpha} \Gamma^{\beta} \Lambda^{\gamma} \Sigma^{\delta}$

$a^{\dagger}r d^{a_b}\sigma^b \wedge c_n d n^e \Delta D\sigma d^{f_b}D^c$ $\cap \cap f^f \omega r^c:$

North Baffin

$\epsilon \Delta t^{\alpha} j^c$ $\Lambda J^{\alpha} e D \dot{N}$ $\nabla^{\alpha} r^{\beta} C D P L \dot{\chi}^c$

[illegible]

Project transportation types

Transportation Type	ᄠᆞᆫ ᄡᆞᆯᄢᆞᆫ ᄦᆞᆮᄧᆞᆸᆺ	Length of Use
Water	will hire boat and pilot from Pond Inlet	
Land	will hire quad bikes and guide from Pond Inlet	

Project accomodation types

[illegible]

◁▷↳σ◁⁹⁶▷⁹⁶

Λ⁹D Δ⁶ΓΔ⁵ ΔD⁵C DσD⁴ΥΔ⁵ Δε⁵βP DΠΔ⁴ ΓΔjCΔ³, Γ^cΔPΔ², Ξ^bLCΔ¹, μεPΔ⁰ ΔP^aΓ^cΔ

ᐃᓕᑦᑲᓚ ᐱᓄᑦ ᐋᑐᒪᐅᑦᐋᓖᑐᓖ ᓖᑭᐃᑦᑐᑦᓴ	ᓖᑦᑦᑲᑦᑦ	ᐋᓖᑦᑲᑦᑦ - >ᓖᑦᑲᑦᑦ	ᑯᐱᑦ ᐋᑐᒪᐅᑦᐋᓖᑦ
Quad	2	150cm x 220cm	To access the field sites that are not accessible by boat, and to transport field samples back to Pond Inlet (will hire these from local sources at Pond Inlet).
Boat	1	?	To access field sites near the coast, and to transport samples back to Pond Inlet. We will hire the boat from local sources at Pond Inlet
Micro drone	1	13x8x6 cm	To survey the topography and plant communities at our field sites This microdrone is less than 250g so does not require a pilots certificate or registration.
Peat corer	1	1m x 20cm	A tool designed to extract a peat soil core, including permanently frozen ground. Includes a small diesel-powered motor
soil sampler	1	20cm x 8cm	a metal hand tool used to cut and extract peat samples (not permanently frozen ground).

[illegible][illegible]

$\triangleleft^b C d^c$
$$\Delta^b C d_c n_\sigma \Delta^q \sigma^q$$

<p>ΛϸϰΔϵϳΔϰΔϰ^c</p> <p>ΛϸϰΔϵϳΔσΔ^ϳΔ^ϳ</p>	<p>ϳϳΔ^cΔ^ϳ</p> <p>Δ^bΔ^j^ϳ</p>	<p>ϳϳΠϰ Δ^bΔ^j^c</p> <p>ϳ^ϳΡΔσΔ^ϳΔϵϳΔ^ϳ</p>	<p>ϳϳ ϳ</p> <p>Δ^bΔ^ϳΔ^ϳΔ^ϳΔ^ϳΔ^ϳ</p>	<p>ϳΔ^LΔ^ϳϳΔΠ^bϳ^bΔ^aΔσΔ^ϳΔ^ϳΔ^ϳ</p>
Information is not available				

$$\Delta^{\epsilon} \cap \Gamma \triangleright C \overset{c}{\circ} \overset{c}{\cup} \quad \Delta^b \overset{c_b}{\cup} C \triangleright \rho L \downarrow^c$$

Predicted environmental impacts from our research are very low, as our sampling method is designed to minimise impacts. We extract peat cores, at around 8cm x 8cm squares, replacing around half of this sediment back into the cut hole. This cut area is expected to quickly fill with water and sediment, and cover over with vegetation naturally. Our team will be staying at Pond Inlet during the dates of our research and will employ a local guide, and hire a boat/quads from local businesses.

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

[illegible]

The environment we want to sample is undisturbed natural Arctic peatland. We want to measure the effects of peatland carbon accumulation and extent with changing climate, particularly links between warming seen over the last ~150 years, and over the last 40 years. As such, it is important the environment is undisturbed.

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ᐱᓪᓇ ᐃᑦᐅᐅᑦ ᖃᓄᐃᑦ)ᑦᑕᑎᐅᑭᖅ: ᐃᓄᑕᑎᑭᖅᓴᖅᓴᑦ-ᐱᑦᑕᐃᓴᑕᑎᑭᖅᓴᖅᓴᑦ

Miscellaneous Project Information

We have proposed to make a presentation of our work to residents of Pond Inlet, we are keen also to hear their first-hand experience of how the environment has changed over the last several decades. One hypothesis we have is that carbon accumulation in peat increases with warming, meaning Arctic peatlands could be an important future atmospheric carbon sink.

[illegible]

The impact of our sampling is expected to be very very low in the natural environment. Our samples are approximately 8cm x 3cm x peat depth (with only one long core at each site, up to around 1m, most depth < 20cm). The holes left are small such that they can fill in and cover-over with vegetation quickly. We are careful not disturb local wildlife, and impact as little as possible the natural environment.

Cumulative Effects

Impacts

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



List of Project Geometries

1	point	1 Pond Inlet west
2	point	2 Pond Inlet east
3	point	3 Pond Inlet south
4	point	4 Inlet coast
5	point	5 Glacial valley