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Period of operation:	from 0001-01-01 to 0001-01-01
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᠕ᡄ᠊ᡅ᠋᠊᠋ᡏ᠖ᡃ᠘ᠮ᠋᠋ᡃ᠄	Gifford Miller
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- نه الك: NIRB "Ancient DNA in Lake Sediment" Project Proposal File Number 16YN010Who: Researchers from the University of Colorado, Boulder, the University of Buffalo (New York), and the University of Alaska, Fairbanks. Teams will consist of 4 scientists along with local Inuit guides and/or polar bear guards. What: We propose two short field programs.Lake CF8: The science team will travel to the lake site by snowmobile (May), ATV (July). We will camp at the lake in tents that will be taken with us when the work is completed. The team will be 4 scientists and an Inuit guide/polar bear guard, plus Inuit teams to transport the team to the lake and back to Clyde when work is complete. We will obtain sediment cores from the bottom of the lake, During the summer season ecologists will map the vegetation around the lake. We will not leave any permanent facilities at the sites, and expect our camping activities to have no long-term impact on the environment. Lake AFR: The science team will travel to the lake site by helicopter from Pond Inlet (August). We will camp at the lake in tents for 5 days. We will obtain sediment cores from the bottom of the lake, and map the vegetation around the lake. We will not leave any permanent facilities, and expect our camping activities to have no long-term impact on the environment. Why: We will reconstruct how climate and vegetation have changed in the past on Baffin Island by analyzing the sediment record preserved at the bottom of these lakes. The Arctic is changing rapidly and we want to understand how it has changed in the past to learn how much change we might expect in the future. We hope to learn what conditions were like during past warm times to help Nunavut anticipate the future. Where: Lake CF8 is a relatively isolated lake near the town of Clyde. AFR lake is a very isolated site at 800 meters above sea level, ~35 km from Pond Inlet. We will be working on the lake itself and in the immediate surrounding area with no expected impacts on the environment. There are no known archaeological sites around/near either of the lakes we propose to work on.
- DAAOD^c: Since neither Clyde River nor Pond Inlet are French-speaking towns, I assume we do not need a French translation

Personnel

Personnel on site: 4 Days on site: 21 Total Person days: 84 Operations Phase: from 2019-05-07 to 2019-08-08

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AFR Lake - Research and temporary camp location. No known archaeological sites in the area.	Camp	Crown	No one has visited this lake that we know of. It was covered by ice ontil about 10 years ago	None known	35 km from Pond Inlet
CF8 Lake - Research and temporary camp location. Visited in Aug. 2017. No known archaeological sites in the area.	Camp	Inuit Owned Surface Lands	We have visited this site previously in August of 2017 to collect a preliminary lake sediment sample.	None known	16 km from Clyde River

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۲٬۵۱۲	Charlie Inuarak, Mayor	Town Council	2019-02-11
Clyde River	Joshua Akavak	llisaqsivik	2018-11-14

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North Baffin

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۲۹۲۰، ۵۹۲۱۵۹ ۲۹۹۹ - ۲۹۹۹ ۲۹۹۹ - ۲۹۹۹ ۲۹۹۹ ۲۹۹۹ ۲۹۹۹	৽৸৵৽৴৾৾৻৵৶৽ ৽৸৸ঀ৴৾৾৾৾৾৾৾৾৾৾৾৾৾ ৽৾৾৽৾৾৽৻ঀ৾৾৾৾৾৾৾৾৾৾৾	Ű∝ ኈ⊿େ~ ^ኈ Ⴑኖ	ר שבר איין סילאסכס⊂סאָלרלא סיבים שביילרא	₽ [ၬ] ᆮ᠄ᠳ᠖ᠮ᠕᠌ ^ᢐ Ⴑ
ᠴᡄᡷᡏ ᠖᠈ᠳ᠕᠅ᠫᡄ᠊ᡅ᠋ᡷᢀᡗ	Request permit for scientific research	Applied, Decision Pending		

Project transportation types

Transportation Type	ረምጋር⊳≏ፈ _የ <	Length of Use
Air	PCSP Helicopter, Ken Borek Twin Otter	
Land	Walking, snowmobile, ATV	

Project accomodation types

Temporary Camp

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Lake sediment core system	1	1x3 m	This is a hand operated system that pushes a plastic pipe into the mud at the bottom of a lake to recover a continuous sample of lake mud about 7 cm in diameter. Most lakes have 1 to 2 m of mud in them,

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None	hazardous	0	0	0	Gallons	none
Gasoline	fuel	10	1	10	Liters	Stove Fuel

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۵٬۵۰۰ ۲۲، ۵۵٬۳۲۵ ۳	৳৹ [৳] ᠘ᠮ᠋᠋ᢑᢗ᠋ᢑᢗ᠋ᠮᠳᡧᢑᠺᡕ	ᡄ᠙᠋᠄᠘᠋᠋ᠮ᠋᠋᠋᠋᠋᠋᠋᠋ᢑᢗ᠋᠋ᠮᠳᡏ᠋᠋᠋᠋ᢐᠺ᠋
0	From the lake in buckets	AFR1 Lake, CF8 Lake

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Scientific/International Polar Year Research	^ᡪ ᡆ᠋᠋᠋᠋᠅ᢗᡄ᠊᠋ᠧᠦ᠄ᢣ		burial; biodegradable waste paper	Sewage will be buried at least 100 m from nearest water source

We will camp in a tent and cook food on a coleman stove. All human waste will be more than 100m from the nearest water. We expect no measurable environmental impact.

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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AFR is a small lake $(0.7 \times 0.4 \text{ km})$ close to ice caps. CF8 is also a small lake $(0.3 \times 0.2 \text{ km})$ located on Clyde Foreland.

Polar desert

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None known

Miscellaneous Project Information

All our gear and all camp waste will be taken out by helicopter or snowmobile

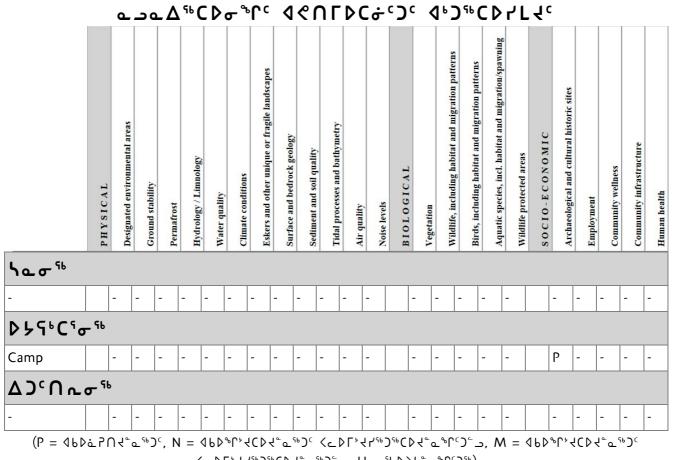
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No significant impacts

Cumulative Effects

No cumulative effects expected

Impacts



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