



## **NIRB Application for Screening #125456**

### **Peat Expansion in Arctic Tundra (Baffin Island)--Pattern, Process, and the Implication for the Carbon Cycle**

**Application Type:** New

**Project Type:** Scientific Research

**Application Date:** 3/21/2019 3:13:56 PM

**Period of operation:** from 0001-01-01 to 0001-01-01

**Proposed Authorization:** from 0001-01-01 to 0001-01-01

**Project Proponent:** Philip Camill  
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USA  
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## **DETAILS**

### **Non-technical project proposal description**

English: Please see the attached document.

French: Please see the attached document.

Inuktitut: Please see the attached document.

Inuinnaqtun: Please see the attached document.

### **Personnel**

Personnel on site: 3

Days on site: 10

Total Person days: 30

Operations Phase: from 2019-07-07 to 2019-07-27

## Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Baffin_G3	Scientific/International Polar Year Research	Crown	NA	NA	NA

## Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

# Authorizations

Indicate the areas in which the project is located:

South Baffin

## Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Information is not available				

## Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	helicopter	

## Project accomodation types

Other,

## Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
hand-held soil coring devices	2	150 x 10 cm	to collect soils as described in the project description
drone	1	50 x 50 cm	aerial imagery of landscape vegetation as described in the project description
helicopter	1	unknown	round trip transport to sites from Iqaluit
GPS unit	1	100 cm x 20 cm	to map peat patches and topography as described in project description

### Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Information is not available						

### Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

# Waste

## Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Information is not available				

### Environmental Impacts:

We do not anticipate environmental impacts. The only impacts will be a few small soil core holes that will be backfilled at each site.

# **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**

**Description of Existing Environment: Physical Environment**

**Description of Existing Environment: Biological Environment**

**Description of Existing Environment: Socio-economic Environment**

**Miscellaneous Project Information**

**Identification of Impacts and Proposed Mitigation Measures**

**Cumulative Effects**

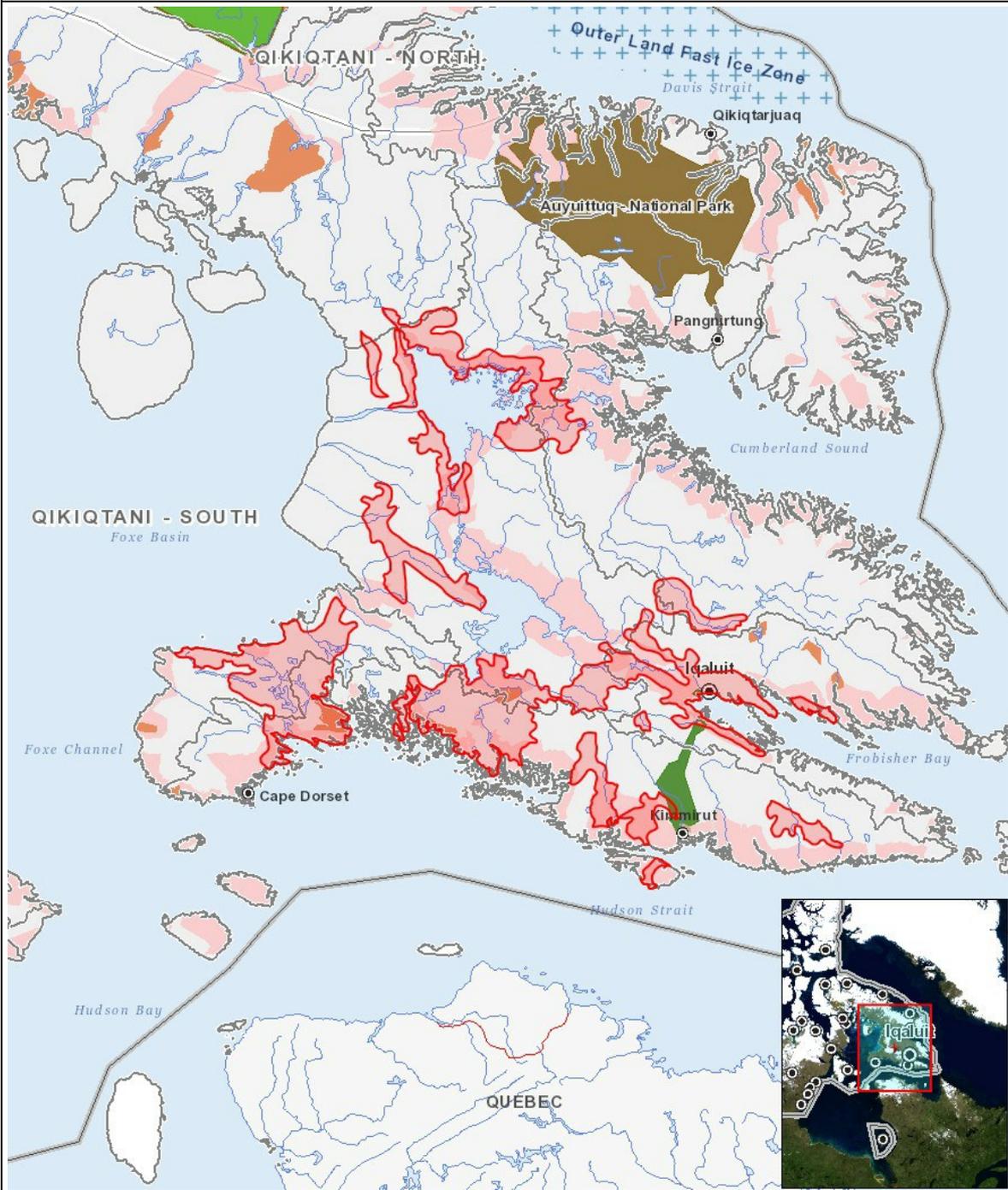
# Impacts

## Identification of Environmental Impacts

	<b>PHYSICAL</b>	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	<b>BIOLOGICAL</b>	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	<b>SOCIO-ECONOMIC</b>	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
<b>Construction</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Operation</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<b>Decommissioning</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Location



List of Project Geometries

1	polygon	Baffin_G3
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