



NIRB Uuktuutinga Ihivriuqhikhamut #125979 Grise Fiord and Resolute Bay Field Program

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Scientific Research

Uuktuutinga Ublua: 6/17/2024 11:45:42 AM

Period of operation: from 2024-06-27 to 2025-05-28

Havauhikhaq Justin

Ikayuqtinga: Government of Nunavut

PO Box 1000 Stn 620

Iqaluit Nunavut (NU) X0A 0H0

Canada

Hivayautit Nampanga:: 867-975-5441, Kayumiktukkut Nampanga::

Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
General location for Grise Fiord, located on the southern shore of Ellesmere Island in Jones Sound.	Scientific/International Polar Year Research	Municipal	Project area is an established longstanding community.	Archaeological field study is a component of the field program.	Community harbour located along 1.4 km of shoreline directly fronting the Grise Fiord community. Haul road: 14 km north of community. Quarry: 3 quarries of varying size.
General location for Resolute Bay, located on the south shore of Conwallis Island in Parry Channel.	Scientific/International Polar Year Research	Municipal	Project area is an established longstanding community.	Archaeological field study is a component of the field program.	Community harbour (CH) 1: 500 m along shoreline SW of the Resolute Bay community. CH 2: 1 km along shoreline fronting the community. Haul road: 3.3 km SE of CH 1 & 1.3 km SE of CH 2. Quarry 1: 7 km NW of CH study area. Quarry 2: 3.3 km SE of CH study area. Quarry 3: 1.7 km SE of CH study area

Nunaliin Ilaayun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Ausuittuq	Amon Akeeagok	Iviq Hunters and Trappers' Organization	2024-05-27
Ausuittuq	Meeka Kigukta, Mayor	Hamlet of Grise Fiord	2024-05-27
Qausuittuq	Aziz, Mayor	Hamlet of Resolute Bay	2024-06-18
Qausuittuq	Nancy	Resolute Bay Hunters and Trappers' Organization	2024-06-18

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavunmi Ihivriunqniqmut Timiqutigiyanga	Research Permit	Not Yet Applied		
Indigenous and Northern Affairs Canada	Land Use Permit	Not Yet Applied		
Nunavut Kavamanga, Nunalingni Kavamatkunnilu Pivikhaqautikkut	Land Use Permit-to be confirmed if required.	Not Yet Applied		
Iqalukhiurniqmut Tariuqmilu Kaanata	License to Fish for Scientific Purposes	Not Yet Applied		
Nunavut Kavamanga, Avatiliriyikkut	Wildlife Research Permit	Not Yet Applied		
Nunavut Kavamanga, Avatiliriyikkut	Vegetation (wildlife) export permit. (Local conservation officer)	Not Yet Applied		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Permit	Not Yet Applied		

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	field crews will travel to the project area by plane from Vancouver	
Land	field crews will travel by foot or local truck within the communities	

Project accomodation types

Nunauyuq

Ihuaqutivaluin Atuqtauyukhan

Hanalrutit atuqtaunahuat (ukuallu ikuutat, pampiutainnik, tingmitinik, akhaluutinik, hunaluuniit)

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Equipment	1	1	A variety of equipment will be required to undertake the planned Field Program. Please refer to Table 3-1 of the provided Application Letter which summarizes the equipment required for each of the Field Program components. Equipment may include small manual hand tools, iPads, transect line and quadrats, survey equipment such as remotely operated vehicles (ROVs) and unmanned aerial vehicles (UAVs), multi-beam survey equipment, and a track/skit mounted rotary drill rig.
Transportation Equipment	1	1	A variety of transportation equipment may be required, such as ATVs, vehicles, and boats. Transportation equipment required is provided in Table 3-1 of the provided Application Letter.

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Sample Preservative	hazardous	1	1	1	Liters	Preservatives such as formalin, ethanol, and hydrochloric acid are required to preserve water and sediment quality samples for the marine-based Field Program components. Less than 1 millilitre of preservative will be required per sample bottle.

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
0		

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Huilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Scientific/International Polar Year Research	Ikulalimanngittun iqqakuvaluin	limited amount (no bulk waste)	a 'pack in, pack out' policy	none required
Scientific/International Polar Year Research	Anaagun (inuin anaaguin)	limited/ regular amount	use existing facilities.	none required

Avatiliriniqmut Ayurhauingit:

Environmental impacts associated with the field programs are expected to be minimal. Potential impacts to terrestrial and marine habitat and wildlife may occur, however, all personnel will be accompanied by a local field assistant to confirm minimal disturbances. Minor disruptions to traditional land use may occur in the proposed study area, however, arrival of the research team will be advertised on local social media prior to arrival. There may be temporary sediment suspension in marine habitats due to grab sampling but the footprint of this activity is small and sediment disturbance will be minimal. Disturbance to heritage resources is possible, but unlikely. Measure to mitigate impacts are described in the Class 2 archaeological permit which was submitted to the C&H department. There will be an increase in anthropogenic presence in the Study Area but the research team is relatively small and are conducting non-invasive short term studies. Please see attached application letter Table 10-1.

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

N/A

SECTION D2: Facility Construction

N/A

SECTION D3: Facility Operation

N/A

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

There will be a small vessel used for fish habitat, water quality, sediment quality, drogue, and bathymetric surveys.

SECTION H2: Disposal At Sea

N/A

SECTION I1: Municipal Development

Qanurittuq Ittunik Avatinga: Avatingalluanga

Baseline studies of the physical environment were conducted in 2019 and will be conducted as a component of this field program. This will include surveys of the marine (subtidal and intertidal) and terrestrial habitats within the Study Areas.

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Baseline studies of the biological environment were conducted in 2019 and will be conducted as a component of the field program.

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Consultation programs have been ongoing since the feasibility stage of the project. Consultation program will be undertaken in each community prior to arrival of the field team to confirm local support and gather traditional knowledge to support the baseline assessments.

Miscellaneous Project Information

N/A

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

Potential impacts to terrestrial and marine habitat and wildlife may occur, however, all personnel will be accompanied by a local field assistant to confirm minimal disturbances. Minor disruptions to traditional land use may occur in the proposed study area, however, arrival of the research team will be advertised on local social media prior to arrival. There may be temporary sediment suspension in marine habitats due to grab sampling but the footprint of this activity is small and sediment disturbance will be minimal. Disturbance to heritage resources is possible, but unlikely. Measures to mitigate impacts are described in the Class 2 archaeological permit which was submitted to the C&H department. There will be an increase in anthropogenic presence in the Study Area but the research team is relatively small and are conducting non-invasive short term studies. See Table 10-1 in application letter.

Tamatkiumayunik Ihuikgutivaktunik

Limited cumulative effects are anticipated, as most project components have mitigation measures in place that will limit impacts.

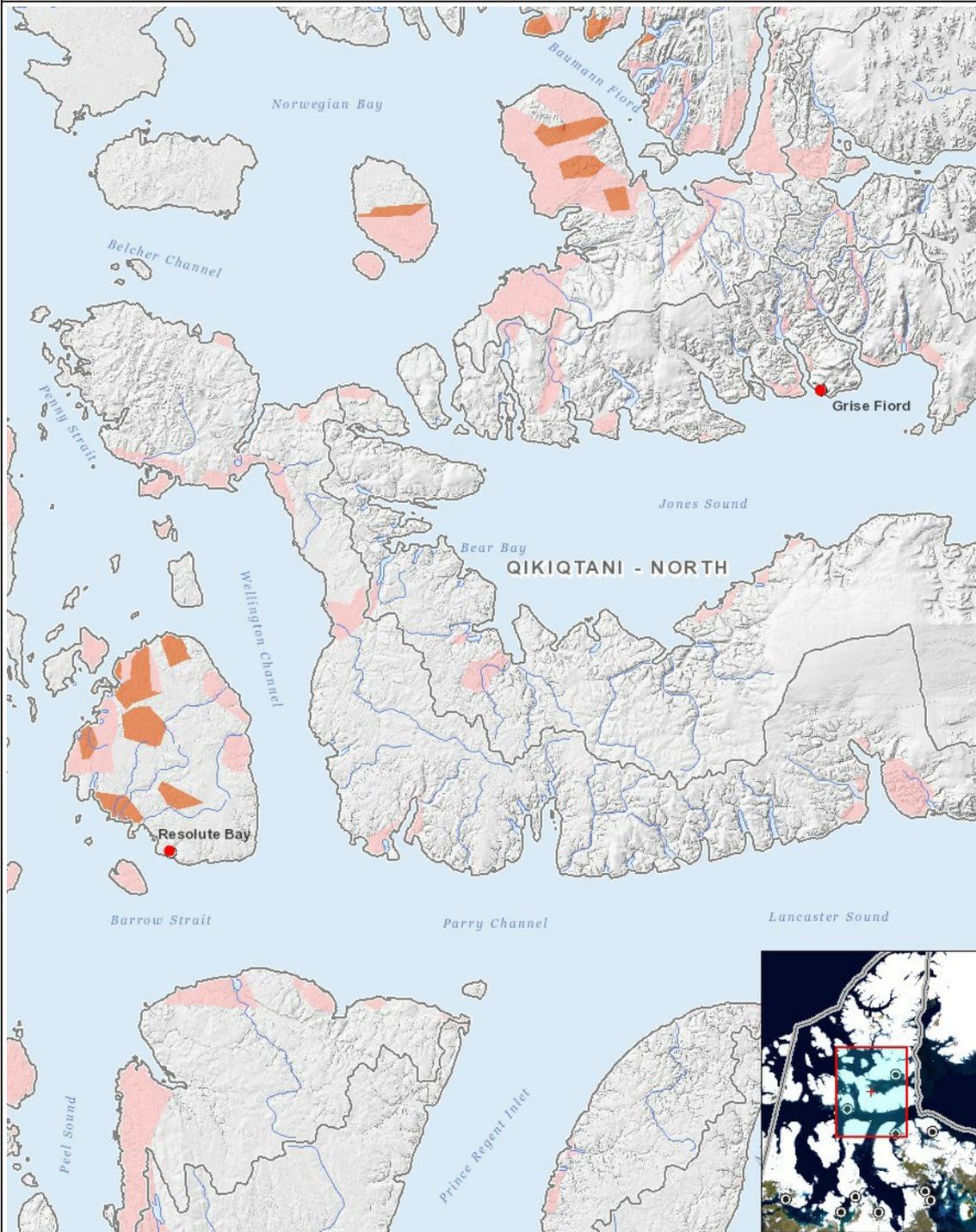
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhauingit

	PHYSICAL	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	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
Havakvinga																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aulapkaininnga																									
Scientific/International Polar Year Research	-	-	-	-	M	-	-	-	-	-	-	-	M	M	M	-	M	-	-	M	P	-	P	-	-
Piiqtauniq																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

- 1 point General location for Grise Fiord, located on the southern shore of Ellesmere Island in Jones Sound.
- 2 point General location for Resolute Bay, located on the south shore of Conwallis Island in Parry Channel.