



## **NIRB Uuktuutinga Ihivriughikhamut #125473**

### **Fisheries and Oceans Canada - Small Craft Harbour - Four Harbour Feasibility Study Field Program**

**Uuktuutinga Qanurittuq:** New

**Havaap Qanurittunia:** Scientific Research

**Uuktuutinga Ublua:** 6/4/2019 7:18:57 PM

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

**Piumayaat Angirutinga:** from 0001-01-01 to 0001-01-01

**Havauhikhaq Ikayuqtinga:** Eleanor McEwan  
Fisheries and Oceans Canada -Small Craft Harbours  
501 University Crescent  
Winnipeg Manitoba R3T 2N6  
Canada  
Hivayautit Nampanga:: 204-984-1102, Kayumiktukkut Nampanga::



## Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunangga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
Resolute Bay	Baseline data	Inuit Owned Surface Lands	engagement with communities for harbour design is underway	pending field program	marine environment fronting community
Grise Fiord	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	marine environment fronting community
Clyde River	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	within
Arctic Bay	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	marine environment fronting community

### Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Clyde River	James Arreak (SAO) Mayor and Council members	SAO - Hamlet	2019-05-24
Clyde River	Gary Aipellee (HTO manager) and HTO board members	Nangmautaq HTO	2019-05-24
Ausuittuq	Marty Kulukuqtuq(SAO), Mayor and Council members	Hamlet	2019-05-29
Ausuittuq	Amon Akeeagok (HTO manager) and HTO Board members	Iviq HTO	2019-05-29
Ikpiaryuk	Deborah Johnson (SAO), Mayor and Council members	Hamlet	2019-06-05
Ikpiaryuk	Jennifer Pauloosie (HTA manager), HTA board members	Ikajutit HTA	2019-06-04
Qausuittuq	Nancy Amarualik (HTA Manager), HTA Board members	Resolute Bay HTA	2019-06-02
Qausuittuq	Kimberly Young (SAO),	Hamlet	2019-06-03

	Mayor, Council members and EDO		
--	-----------------------------------	--	--

# Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

North Baffin

## Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Iqalukhiurniqmut Tariuqmilu Kaanata	License to Fish for Scientific Purposes (infaunal sediment collection, intertidal amphipods)	Applied, Decision Pending		
Nunavunmi Ihivriunniqmut Timiqutigiyanga	Research Permit. Separate for each location	Applied, Decision Pending		
Nunavut Kavamanga, Avatiliriyikkut	Wildlife Permit	Applied, Decision Pending		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Arctic Bay (2019-51A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Clyde River (2019-54A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Grise Fiord (2019-52A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Resolute Bay (2019-53A)	Active	2019-06-05	2019-12-31

## Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	Charter flight from Vancouver to each of the communities. Departure from Nunavut from last community will occur on commercial flight	
Water	Field work will require access to the marine environment (boats). Local support has been engaged for vessels and personnels in each community	
Land	Field work will require access to the terrestrial environment. Local support has been engaged for trucks/ATVs and personnels in each community	

## Project accomodation types

Nunauyuq

# Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
remote operated vehicle	1	2 ft x 2ft x 1.5 ft	underwater video survey
generator	2	1.5 ft x 1.5 x 1.5 ft	power supply for marine subtidal survey and geophysics survey
iPad	3	12 inches x 6 inches	GPS and photographs for all surveys
depth sounder	1	1 ft x 1ft x 8 inches	depth record for conducting subtidal habitat survey
CTD	1	3ft x 1ft x 1ft	conductivity, temperature and salinity during water quality survey
Niksin sampler	1	1.5 ft x 6 inch diameter	collection device to get water from depth during water quality survey
petit ponar	1	1ft x 1ft x 8 inches	collection of sediment from seabed during sediment quality survey
binoculars and spotting scope	2	6 inches x 4 inches x 3 inches	observation tools during wildlife and terrestrial survey
drogue	1	2.5 ft x 2.5 ft	floatation buoy with a GPS to track its position. Purpose to measure currents for possible modelling work
geotechnical hammer	1	8 inches x 4 inches	used to collect small quantities of rock during geotechnical survey
seismograph, hydrophone and cable	6	3ft x 3 ft x 2ft	equipment to conduct the geophysics survey

## Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Gasoline	fuel	2	20	40	Liters	fuel for generators, ATVs, trucks
formaldehyde	hazardous	1	5	5	Liters	preservative for infaunal sediment samples. to be dilluted to be formalin

## 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
Baseline data	Ikulalimanngittun iqqakuuvaluin	1 garbage bag	waste will be packed out and disposed at land fill facility in Iqaluit before departing from Nunavut	see details above
Baseline data	Anaagun (inuin anaaguin)	NA	Group is small (6 people) and will be staying in accommodation that is within the community	not relevant

### Avatiliriniqmut Ayurhauingit:

There are no effects anticipated as the program is a small field study to determine baseline conditions for each of the communities should the proposed small craft harbours proceed to detailed design and permitting.

# **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**

**Qanurittuq Ittunik Avatinga: Avatingalluanga**

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

**Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga**

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

**Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga**

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

**Miscellaneous Project Information**

not relevant

**Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit**

None expected. During the geophysics study, the vessel will cease operations when narwal are observed in close proximity (less than 200 m).

**Tamatkiumayunik Ihuikgutivaktunik**

None anticipated

# Impacts

## Ilitariyauniq Avatiliriniqmut Ayurhautingit

	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
<b>Havakvinga</b>																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Aulapkaininnga</b>																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Piiqtauniq</b>																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	point	Arctic Bay
2	point	Clyde River
3	point	Grise Fjord
4	point	Resolute Bay