



NIRB Uuktuutinga Ihivriughikhamut #125455

Sea-ice monitoring to support resilient transportation infrastructure, community economic development and youth training in Gjoa Haven and Taloyoak, Nunavut

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Marine Based Activities

Uuktuutinga Ublua: 3/21/2019 12:55:22 PM

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

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

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Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaliyainnit nuna
Sea-Ice Monitoring Area	Marine Based Activities	Marine	N/A, this type of monitoring activity has not taken place on the site previously	N/A, project activities will take place on sea-ice	Monitoring activities will be based out of the communities of Gjoa Haven and Taloyoak and provide sea-ice monitoring services along traditional community trails in the surrounding areas. Monitoring activities will take place on sea-ice and will not take place in protected areas.
Sea-Ice Monitoring Path 1	Marine Based Activities	Crown	N/A, this type of monitoring activity has not taken place on the site previously	N/A, project activities will not impact any known archaeological or paleontological sites.	Monitoring activities will be based out of the communities of Gjoa Haven and Taloyoak and provide sea-ice monitoring services along traditional community trails in the surrounding areas. Monitoring activities will not take place in protected areas.
Sea-Ice Monitoring Path 2	Marine Based Activities	Inuit Owned Surface Lands	N/A, this type of monitoring activity has not taken place on the site previously	N/A, project activities will not impact any known archaeological or paleontological sites.	Monitoring activities will be based out of the communities of Gjoa Haven and Taloyoak and provide sea-ice monitoring services along traditional community trails in the surrounding areas. Monitoring activities will not take place in protected areas.

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Urhuqtuuq	Joanni Sallerina	Mayor - Hamlet of Gjoa Haven	2019-02-22
Urhuqtuuq	Ben Putugaq	Hunters and Trappers Association	2019-02-25
Taloyoak	Simon Qingnaqtuq	Mayor - Hamlet of Taloyoak	2019-02-13

Taloyoak	Jimmy Oleekatalik	Spence Bay Hunters and Trappers Association	2019-02-22
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Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Kitikmeot

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Nunavunmi Ihivriuqniqmut Timiqutigiyanga	Through application to the Nunavut General Monitoring Plan, NRI licensing has been recommended for this project.	Not Yet Applied		

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Water	Travel across sea-ice using snowmobiles	

Project accomodation types

Nunauyuq

Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Snowmobiles	2	128 in x 47 in x 50 in	A snowmobile will be used in each community to tow a qamutik containing the mobile ice-thickness sensing equipment.
Gas-Powered Drill	2	12 in x 12 in x 4 in	Drills are used to operate ice augers to support ice-thickness measuring activities
SmartBUOY	2-4	120 in x15 in	SmartBUOY stationary sensor deployed in ice to monitor thickness.

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Gasoline	fuel	120	25	3000	Liters	Fueling snowmobiles and gas powered, hand-operated ice augers

Imaqmik Aturninnga

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

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Marine Based Activities	Ikulalaaqtun iqqakuuvaluin	minimal	Operators will retrieve any waste generated during monitoring activities (food, garbage, wood, etc.) and return material to the communities.	N/A
Marine Based Activities	Ikulalimanngittun iqqakuuvaluin	None	N/A	Additional trips to the ice have been budgeted and planned in order to ensure retrieval of SmartBUOY equipment.

Avatiliriniqmut Ayurhauingit:

The project will involve operating both stationary and mobile ice sensing equipment on the existing sea-ice surrounding the communities of Gjoa Haven and Taloyoak. Since activities will take place on sea-ice, potential for environmental impacts is limited. The equipment used has very low energy requirements, similar to a cell-phone. For the SmartBUOY technology, batteries contained within the unit are used, while the SmartQAMUTIK is powered from the snowmobile. All monitoring will be conducted in a non-destructive manner without lasting impacts and all reasonable precautions, as informed by SmartICE's Emergency Management Plan, will be taken by operators to ensure safe operation of the equipment and to avoid any unforeseen impacts. As a general practice, operators will return any waste generated and additional trips at the end of the ice season have been budgeted and planned for in order to ensure retrieval of the SmartBUOY equipment.

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

N/A

SECTION H2: Disposal At Sea

N/A

SECTION I1: Municipal Development

Qanurittuq Ittunik Avatinga: Avatingalluanga

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

Tamatkiumayunik Ihuikgutivaktunik

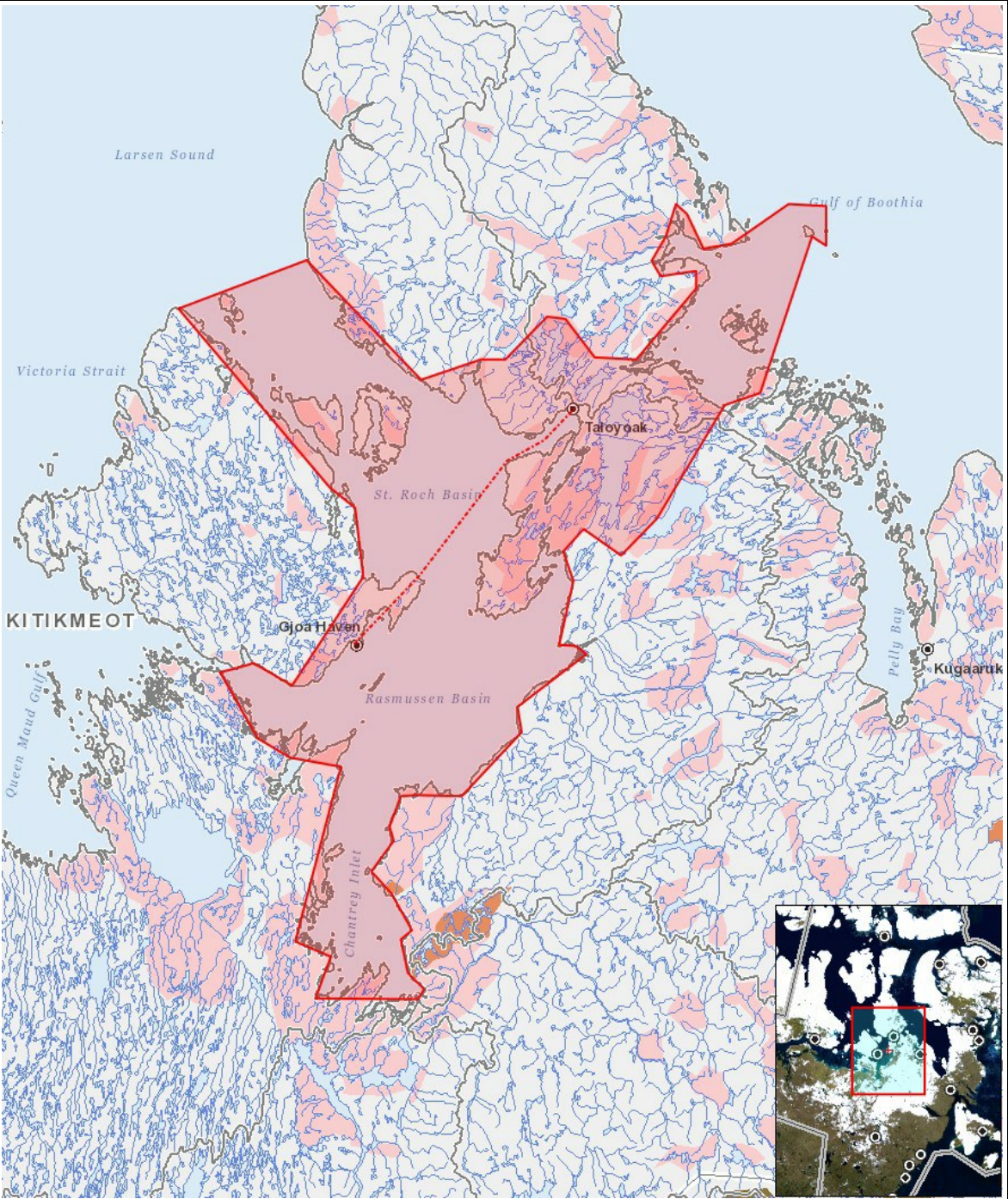
Impacts

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
Havakvinga	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aulapkaininnga																									
Marine Based Activities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	P	-	-	-	-	-
Piiqtauniq																									
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(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	polygon	Sea-Ice Monitoring Area
2	polyline	Sea-Ice Monitoring Path 1
3	polyline	Sea-Ice Monitoring Path 2