



## **NIRB Uuktuutinga Ihivriughikhamut #125720**

### **Far North Fiber Marine Route Survey**

**Uuktuutinga Qanurittuq:** New

**Havaap Qanurittunia:** Marine Based Activities

**Uuktuutinga Ublua:** 6/24/2022 5:42:12 PM

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

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

**Havauhikhaq Ikayuqtinga:** Ik Icard  
Far North Digital  
200 W 34th Avenue, #424  
Anchorage AK 99503  
United States  
Hivayautit Nampanga:: 3609811704, Kayumiktukkut Nampanga::

# QANURITTUT

## Tukihiannaqtunik havaariya uyumayumik uqauhiuyun

Qablunaatitut: Far North Digital LLC is developing the Far North Fiber cable project. It is the first submarine fiber optic cable to be laid through the Arctic Ocean and the Northwest Passage connecting Asia and Northern Europe. The 14,000km route extends through Canadian waters entering the Queen Elizabeth Islands from the west through McClure Strait, proceeding through Viscount Melville Sound, Barrow Strait and Lancaster Sound, then exiting into Baffin Bay and south through Davis Strait into the North Atlantic Ocean. The cable will incorporate a number of branching units which will provide for future branches to strategic landing sites in Canada's Arctic Archipelago. This application is made for, and limited to, activities involved in the marine route survey for the future communications corridor. The application covers shipboard marine survey activities that will determine a suitable route for the future installation of the Far North Fiber cable. The work associated with installation of the cable will be the subject of a future, separate permit application. The approximate route length of the cable through Canada's territorial seas is 1,360 kilometers. Of that, roughly 900 km traverses Nunavut waters. The survey corridor will be 500 meters wide along the length of the route. The Marine Survey will be performed along the cable route to ensure that the cable system is installed on the most benign seabed, avoiding any adverse impacts on sensitive living marine resources and clear of any features which could pose a threat to the design life of the cable system. The geophysical and geotechnical investigation of the route establishes a detailed profile of the seabed corridor where the cable is to be laid. The survey will include a Burial Assessment Survey (BAS) which consists of Cone Penetrometer Testing (CPT) and measurements to predict the soil type, its relative density and shear strength. The output of this activity enables production of a unique cable profile which is specifically adapted to the nature of the seabed to ensure long-term durability of the cable. Project timeline makes conservative allowance for survey activities over the entire cable route from Japan to Europe for up to two and a half years, affording opportunity for weather and ice dependent effort in the Arctic for up to three summer seasons, 2022-2024. Survey operations will be conducted on a 24-hour basis, weather and sea conditions permitting, and the survey vessel will display the shapes and lights prescribed in the International Rules for the Prevention of Collisions at Sea (COLREGS) Rule 27, to indicate that the survey vessel is restricted in its ability to maneuver. A listening watch will be maintained at all times on VHF Channel 16, and the vessel will actively transmit an AIS signal. Coordinates of the survey area will be broadcast at regular intervals on Channel 16 and appropriate working channels as prescribed Notices to Mariners.

Uiviititut: tbd

[illegible]

Inuinnaqtun: Far North Digital LLC pivallialiqitut Ungahiktumi Tununnganaq Ivalutut ittut alrujaq havaaq. Hivulliqpaanguuvluni tarjurm iluaniittut umiaqtut qiplariktut ivalutut ittut alrujaq innanganiaqhimaquq uvani Ukiuqtaqtuq Tarjunga unalu Tununngani Uataanit Ikaaruiq katilviujuq Asia unalu Tununnganaq Europemi. Una 14,000 kilamiitastigut ungahingnia uvuuna Kanatamiunut imat itiliqtaa hamna Queen Elizabeth Qikiqtangit uvanngat uataanit uvuuna McClure Ikaangit, Ikaa, pilihaaqhuni uvuuna Viscount Melville Kangiqhua, Barrow Ikaa unlu Lancaster Kangiqhua, ikaaqhuni iluanut Qikiqtaaluk unalu hivuraanit uvuuna Davis Strait iluanut Tununnganaq Atlantic Tarjua. Una alrujaq ilaginiaqtangit amihuujut qupikhimajangit ilagijaujut tunijakhaat hivunikhangit qupikhimajut parnaijajakhaat minnahuaangat najugaanut iluani Kanatam Ukiuqtaqtuq Qikiqtalinnuit. Una tukhiutijangit hanajauhimajut haffumani, unalu iniqhimaittut, hulidjuhiit ilagijaujut imarmiutaujut iningit nalunaijajut hivunikhangit tuhagakhaajut tulagvik. Una tukhiutijangit pulahimajangit umiaqtuqtunut agjaqtut imarmiuttat nalunaijainigut hulijakhangit ihumaliuqtakhaat ajurnaattumik apqutikhangit hivunikhanut iluiraihimajangit haffumani Ungahiktumi Tununnganaq Ivalutut ittut alrujaq. Una havaaq ilagijaujut iliurainirnut haffumani alrujaq ihumaginiaqtangit hivunikhangit, ahikkut laisiata ilanganit tukhiutijakhaat. Takiniqhaujungaqhijuuq haffumani alrujaq uvuuna Kanatam nunallaangit tarjuat hamnauvlutik 1,360 kilamiitastigut ungahingnia. Haffumani, 900 kilamiitastigut ungahingniqarungnaqhijuuq ikaqtut Nunavut imainnit. Una nalunaijajut tulagvik takiniqhaa 500 miitas hilingnia haniraanit takiniqhaa ikaarninga. Una Imarmiuttaq Nalunaijainigut iniqhimajakhaat hinaanit alrujangit ikaarninga pidjarikhigiami alrujaqarvik iliuraqhimaquq aqittumi tarjum natia, pittailivlugit pijumanngittangit ihuuluutauhimajut qajangnaqtumik inuuhimajut imarmiuttat avataita tutqirnaqtumik hup ilitquhianit ajuqhautihimalaaqtangit hivuuranarningat tiliugarnit inuuhianit haffumani alrujaqarvik. Una nunaliqiningit unalu nuna qaujiharningit qimilruqtaat haffumani inikhangit aulapkaihimajut tukiliuqhimaquq haffumani tarjuq tukiinga natia tulagvinga hamna alrujaq nahimajuq. Una nalunaijainigut ilagilaaqtangit Iluvirvingat Ihivriurningit Nalunaijainiq (BAS) ilagijaat Takkaq Imarmi Uuktuutigijangit Ihivriurjut (CPT) unalu uuktuutigijangit kangiqhiinnaqtangit marlunga tukiliutaa, ilagijangillu hitingnia hakugingningalu. Una aulavikhaq haffumani hulidjuhiit ikajuutigijangit aulavikhaq haffumani arlingnaqtumik alrujaq ilitturninga taimaa ihuaqhinnaqtuq ilitquhianit haffumani tarjum natia aturaaqtakhaanit hakugiangnia haffumani alrujaq. Havaaq ikaarningit pitquhiriiaat atuinnaqhugit nalunaijainigut hulidjuhiit tamainnut alrujaq ikaarningat uvanngat Japan uvunga Europe naahimalugu marluk avvautingillu ukiungat, atulaaqtangit hailijakhangit hilam hikungalu qanurinningit akhuuqtangit Ukiuqtaqtuq naahimalugu pingahut aujaq hilaqutitigut, 2022-2024. Nalunaijainiq aulattittijut aulapkailaaqtut uvani 24 nit ikaarnigut kigligutaanit, hilam tarjungillu qanurilinganingit pivluni, unalu nalunaijajuuq umiaq takukhahunnguquq iliktirutaanit qullingillu uqaqhimaquq uvani Hilarjuatigut Maliktangit haffumani Ahijuqtailinahuaruiq Tarjumi (COLREGS) Maliktangit 27, naunaiqiilugillu nalunaijainiq umiaq iniqpiaqhimaquq pilaaqhutik hanaqigiami. Naalakhimajut tautukhutik munarijauluni qautamaat uvani VHF Qunniarnaqtuq 16, unalu umiaq turaaqhimainnarniaqtangit hamna AIS naunaitkut. Aulapkaqhutik haffumani nalunaijainigut iningit qunniqaattaqtakhaat akunnganit uvani Qunniarnaqtuq 16 mi nalaumajumik havangnaqtut qunniarnaqtut tukiliuqhimaquq Nalunaitkut at uvunga Imarmiutaujut.

**Personnel**

Personnel on site: 50

Days on site: 28

Total Person days: 1400

Operations Phase: from 2022-07-17 to 2024-10-16

Operations Phase: from 2022-07-17 to 2024-10-16

Post-Closure Phase: from to

## Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtailiyainnit nuna
waters of Northwest Passage	Marine Based Activities	Marine	Marine waters comprising part of Northern Canada's Northwest Passage between Beaufort Sea and Baffin Bay.	Traditional subsistence hunting and fishing waters of Canada Indigenous Peoples. Human occupation and use of the Tallurutiup Imanga region can be traced back to the Dorset (500 BC–1500 AD) and Thule (about 1000 AD until approximately 1500 AD) cultures that preceded the Inuit who live in the area today.	Cable route passes through portion of Tallurutiup Imanga National Marine Conservation Area.

### Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Information is not available			

# Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Transboundary  
Kitikmeot  
North Baffin

## Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Information is not available				

## Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Water		

## Project accomodation types

Alaanut,

# Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
marine survey vessel	1	approx. 75m	geophysical and geotechnical cable route survey

## Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Diesel	fuel	6	60	360	Cubic Meters	vessel main engine propulsion, shipboard generators

## Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqtittagaani qanuq	Atulirumayain imavaluin utiqtittagani humi
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# Iqqakuq

## Ikkakunik Munakgiyauyunik

Havaulikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Information is not available				

### Avatiliriniqmut Ayurhautingit:

Survey vessel main engine and generator exhaust stack emissions to atmosphere. All engines to be maintained in good working order.



# **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**

Canadian waters entering the Queen Elizabeth Islands from the west through McClure Strait, through Viscount Melville Sound, Barrow Strait and Lancaster Sound, then exiting into Baffin Bay

### **Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga**

The Tallurutiup Imanga region is a major east-west migratory corridor leading from Baffin Bay into the Arctic Archipelago and linking wintering and summering areas. Most species present are migratory and they all depend on this region as they move from one essential habitat to another. The area provides essential habitat for narwhal (up to 75% of the global population); beluga (20% of the Canadian population); polar bears (largest subpopulation in Canada); and several seabird species (some of the largest colonies in the Canadian Arctic).

### **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																											
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Aulapkaininnga																											
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Piiqtauniq																											
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(P = Nakuuyuq, N = Nakuungittut unalu mikhilimaittuq, M = Nakuungittut unalu mikhittaaqtuq, U = Naluyauyuq)



List of Project Geometries

1	polyline	waters of Northwest Passage
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