



## Demande de la CNER faisant l'objet d'un examen préalable #125720

### Far North Fiber Marine Route Survey

**Type de demande :** New  
**Type de projet:** Marine Based Activities  
**Date de la demande :** 6/24/2022 5:42:12 PM  
**Period of operation:** from 0001-01-01 to 0001-01-01  
**Autorisations proposées:** from 0001-01-01 to 0001-01-01  
**Promoteur du projet:**  
Ik Icard  
Far North Digital  
200 W 34th Avenue, #424  
Anchorage AK 99503  
United States  
Téléphone :: 3609811704, Télécopieur ::

## DÉTAILS

## **Description non technique de la proposition de projet**

Anglais: 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.

Français: tbd

Inuinnaqtun: Far North Digital LLC pivallialiqtut Ungahiktumi Tununnganaq Ivalutut ittu alrujaq havaaq. Hivulliqpaanguuvluni tarjurmi iluaniiittut umiaqtut qiplariktu ivalutut ittu alrujaq innanganiaqhimajuq uvani Ukiuqtaqtuq Tarjunga unalu Tununngani Uataanit Ikaaruhiq katilviujuq Asia unalu Tununnganaq Europemi. Una 14,000 kilamiitastigut ungahingnia uvuuna Kanatamiunut imat itiliqtaa hamna Queen Elizabeth Qikiqtangit uvanngat uataanit uvuuna McClure Ikaangit, Ikaaq, pilihaaqhuni uvuuna Viscount Melville Kangiqhua, Barrow Ikaaq unlu Lancaster Kangiqhua, ikaaqhuni iluanut Qikiqtaaluk unalu hivuraanit uvuuna Davis Strait iluanut Tununnganaq Atlantic Tarjua. Una alrujaq ilaginiaqtangit amihuujut qupikhimajangit ilagijaujut tunijakhaat hivunikhangit qupikhimajut parnaijaijakhaat minnahuaraangat najugaanut iluani Kanatam Ukiuqtaqtuq Qikiqtalinnuit. Una tukhiutijangit hanajauhimajut haffuman, unalu iniqhimaitut, hulidjuhiit ilagijaujut imarmiutaujut iningit nalunaijajut hivunikhangit tuhagakhaujut tulagvik. Una tukhiutijangit pulahimajangit umiaqtuqtunut agjaqtut imarmiuttat nalunaijainingit hulijakhangit ihumaliuqtakhaat ajurnattumik apqutikhangit hivunikhanut iliuraihimajangit haffuman Ungahiktumi Tununnganaq Ivalutut ittu alrujaq. Una havaaq ilagijaujut iliurainirnut haffuman alrujaq ihumaginiaqtangit hivunikhangit, ahikkut laisiata ilanganit tukhiutijakhaat. Takiniqhaujungnaqhiyuq haffuman alrujaq uvuuna Kanatam nunallaangit tarjuat hamnauvlutik 1,360 kilamiitastigut ungahingnia. Haffuman, 900 kilamiitastigut ungahingniqarungnaqhiyuq ikaaqtut Nunavut imainnit. Una nalunaijajut tulagvik takiniqhaa 500 miitas hilingnia haniraanit takiniqhaa ikaarninga. Una Imarmiuttaq Nalunaijainingit iniqhimajakhaat hinaanit alrujangit ikaarninga pidjarikhigiami alrujaqarvik iliuraqhimajuq aqittumi tarjum natia, pittailivlugit pijumanngittangit ihuilaatuuhimajut qajangnaqtumik inuuhimajut imarmiuttat avataita tutqirnaqtumik hup ilitquhianit ajuqhautihimalaaqtangit hivuuranarningat tiliugarnit inuuhanit haffuman alrujaqarvik. Una nunaliqiningit unalu nuna qaujiharningit qimilruqtaat haffuman inikhangit aulapkaihimajut tukiliuqhimajuq haffuman tarjuq tukinga natia tulagvinga hamna alrujaq nalahimajuq. Una nalunaijainingit ilagilaqaqtangit Iluvirvingat Ihivriurningit Nalunaijainiq (BAS) ilagiyaat Takkaq Imarmi Uuktuitigiangit Ihivriurjut (CPT) unalu uuktuitigiangit kangiqhiinnaqtangit marlunga tukiliutaa, ilagijangillu hitingnia hakugingningalu. Una aulavikhaq haffuman hulidjuhiit ikajuutigiangit aulavikhaq haffuman arlingnaqtumik alrujaq ilitturninga taimaa ihuaqhinnaqtuq ilitquhianit haffuman tarjum natia aturaaqtaakhaanit hakugiangnia haffuman alrujaq. Havaaq ikaarningit pitquhirijaat atuinnaqhugit nalunaijainingit hulidjuhiit tamainnut alrujaq ikaarningat uvanngat Japan uvunga Europe naahimalugu marluk avvautingillu ukiungat, atulaaqtangit hailijakhangit hilam hikungalu qanurinningit akhuuqtangit Ukiuqtaqtuq naahimalugu pingahut aujaq hilaqtitigut, 2022-2024. Nalunaijainiq aulattittijut aulapkailaaqtut uvani 24 nit ikaarnigut kigligutaanit, hilam tarjungillu qanurilinganingit pivluni, unalu nalunaijaijuq umiaq takukhauhunngujuq iliktirutaanit quillingillu uqaqhimajuq uvani Hilarjuatigut Maliktangit haffuman Ahijuqtailinahuarniq Tarjumi (COLREGS) Maliktangit 27, naunaiqhiilugillu nalunaijainiq umiaq iniqpiqhimajuq pilaaqhutik hanaqigiami. Naalakhimajut tautukhutik munarijauluni qautamaat uvani VHF Qunniarnaqtuq 16, unalu umiaq turaaqhimainnarniaqtangit hamna AIS naunaitkut. Aulapkaqhutik haffuman nalunaijainigut iningit qunniqaqtakhaat akunnganit uvani Qunniarnaqtuq 16 mi nalaumajumik havangnaqtut qunniarnaqtut tukiliuqhimajut Nalunaitkutat uvunga Imarmiutaujut.

## **Personnel**

Personnel on site: 50

Days on site: 28

Total Person days: 1400

Operations Phase: from 2022-07-16 to 2024-10-15

Operations Phase: from 2022-07-16 to 2024-10-15

Post-Closure Phase: from to

## Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
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.

### Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Information is not available			

## Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Transboundary  
Kitikmeot  
North Baffin

### Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Transports Canada	Authorizing foreign ship or non-duty paid ship to conduct commercial activity in Canadian waters, including cable-laying operations	Not Yet Applied		
Pêches et Océans Canada	Project components below the high water level	Not Yet Applied		
Environment and Climate Change Canada	Project components in Migratory Bird Sanctuaries	Not Yet Applied		
Gouvernement du Nunavut, ministère de l'Environnement	Project components on land or water that infringes on the habitat of Arctic species	Not Yet Applied		
Parcs Canada	Project components on land in an NMCA	Not Yet Applied		

### Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Water		

### Project accomodation types

Autre,

## Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
marine survey vessel	1	approx. 75m	geophysical and geotechnical cable route survey

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
Diesel	fuel	6	60	360	Cubic Meters	vessel main engine propulsion, shipboard generators

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

# Déchets

## Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Marine Based Activities	Eaux grises	5650 litres/day	Survey vessel voluntary compliance with standards of IMO MARPOL Annex IV as with blackwater.	n/a
Marine Based Activities	Déchets non combustibles	unknown	Vessel must comply with IMO Polar Code which prohibits the discharge of garbage in Arctic waters unless food waste is ground or comminuted and the ship is not less than 12 NM from nearest land, nearest ice-shelf, or nearest fast ice, and is as far as practicable from ice concentration greater than 10%. Cargo residues may be discharged only under specifically listed conditions including: •cargo residues, cleaning agents or additives contained in hold wash water must not contain substances classified by IMO as harmful to the environment; •the port of departure and next port of destination are within Arctic waters and the vessel will not transit outside Arctic waters; •no adequate reception facility exists at those ports; and, if those conditions are met; •the discharge must be made as far as practicable from areas of ice concentration exceeding 1/10 and not less than 12 NM from land, nearest ice shelf, or nearest fast ice.	Vessel required to hold oily waste and garbage (aside from ground food) in Polar Code waters until the vessel can safely offload the waste at a port reception facility or treat it to an unacceptable standard.
Marine Based Activities	Eaux usées (matières de vidange)	1700 l/day	Survey vessel must comply with the IMO's MARPOL Annex IV which prohibits discharge,	n/a

		except when treated by an STP and discharged no less than 4nm from land or if untreated and discharged at > 12nm from the nearest land.
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**Répercussions environnementales :**

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****Description de l'environnement existant : Environnement physique**

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

**Description de l'environnement existant : Environnement biologique**

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).

**Description de l'environnement existant : Environnement socio-économique****Miscellaneous Project Information****Identification des répercussions et mesures d'atténuation proposées****Répercussions cumulatives**

## Impacts

## **Identification des répercussions environnementales**

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Site du projet



Liste des géométries de projet

1	polyline	waters of Northwest Passage
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