NIRB Uuktuutinga Ihivriuqhikhamut #125419
Transmit Array Antenna farm

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Scientific Research

Uuktuutinga Ublua: 11/1/2018 1:42:53 PM

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

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

Havauhikhaq Ikayuqtinga: Ed Riseborough
DRDC Ottawa Research Centre
3701 Carling Avenue
Ottawa Ontario K1A0Z4
Canada
Hivayautit Nampanga:: 613-998-2052, Kayumiktukkut Nampanga::

QANURITTUT

Tukihiannaqtunik havaariyauyumayumik uqauhiuyun

Qablunaatitut: This project will build a transmit antenna array that will be driven by electronics that will be housed in 3 modified shipping containers, There will be a 750 KVA generator that will power the electronics. The installation phase will have up to 12 people on site for a period of 3 to 6 weeks. The operations phase will have 3 to 4 people on site for 2 week periods, up to 4 times per fiscal year.

Uiviititut: Ce projet permettra la construction d'un réseau d'antennes d'émission qui sera commandé par du matériel électronique hébergé dans quatre conteneurs d'expédition modifiés. Une génératrice de 750 kilowatts alimentera ce matériel. Lors de la phase d'installation, une équipe composée d'au plus cinq personnes sera sur place pendant dix semaines. Trois ou quatre personnes seront sur place pendant des périodes de deux semaines et jusqu'à quatre fois par exercice lors de la phase d'exploitation.

Inuktitut: ᒋᓐᓇ ᐱᓕᓀᐊᖏᔪᖅ ᓴᓇᓂᐊᖅᑐᖅ ᓇᐸᓴᖏᓚᒥ ᐅᐊᕆᑯᒋᒥ ᐊᐅᓪᑕᐅᓂᐊᖅᑐᖅ ᐊᐅᓪᐅᑎᓕᓐᓄᑦ ᐃᓂᖅᖅᑎᑕᐅᓂᐊᖅᑐᑦ ᑎᓴᒪᓂ ᐋᖅᑭᑎᐊᖅᑕᐅᓯᒪᔪᓂ ᐅᓯᖏᑦᑕᓂᔭᒍᑦ ᐃᔪᔪᐊᓇᕆᐅᓯᓂ. 750 ᑭᓗᐅᐊᑦᒥ ᐊᐅᓪᐅᑎᒥ ᐅᒪᒐᖅᑯᑎᖅᖅᑎᑦᑎᓂᐊᖅᑐᖅ ᐊᐅᓪᐅᑎᓕᓐᓄᑦᓂ. ᐃᓕᐅᕐᖏᖅᑕᐅᓂᖏᓐᓄ ᐃᓕᓐᓄ ᐃᖅᖏᓇᐃᕆᖅᑎᖅᖅᑎᖅᑐᖅᑐᖅ ᑕᑦᓕᒪᓂᑦ ᐃᓇᓐᖅᓂᑦ ᐃᓂᒥᕆᐅᔪᒥ ᐱᓇᔪᐊᑭᑭᔪᓂᑦ ᖃᓄᓕᓂᑦ. ᐊᐅᓪᑦᑎᓂᖏᒍᑦ ᐃᓕᓐᓄ ᐱᓚᐅᔪᓂᓐᓄᑦ ᐃᓂᒥᕆᐅᔪᒥ ᐱᓇᔪᐊᑭᑭᔪᓂᑦ ᒪᖏᑭᓇᖅᓂᓐᓄᓐᓂᑲᑎ, ᑎᓴᒪᐃᖅᔪᖏᓗᑎ ᐊᑐᓂ ᑭᓇᐅᔭᓕᓂᐅᑦ ᐊᖏᕐᒍᔪᓂᓂ.

Inuinnaqtun: not required

Personnel

Personnel on site: 12

Days on site: 70

Total Person days: 840

Operations Phase: from 2018-07-10 to 2020-03-31

Operations Phase: from 2020-04-01 to 2023-03-31

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
One corner of antenna Array	Equipment installation	Crown	Site owned by ECCC. Have an agreement to set up a transmit array with electronics for testing. Partial set up was in the summer 2018. Larger installation next year.	Unknown	Unknown
Shelter location	Equipment installation	Crown	The shelter was installed in summer 2018. 3 more planned for next FY.	Unknown	Unknown
Generator Location	Equipment installation	Crown	Generator installed in the Fall 2017. Larger generator planned for installation next year (not purchased yet).	Unknown	Unknown

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Information is not available			

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

North Baffin

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Environment and Climate Change Canada	Land Use Perrmit N2017N0017 between ECCC and INAC. ECCC is currently working on a LUP amendment to include this project.	Active	2017-07-04	2022-07-03

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Land	Pickup truck to get to site. Larger truck/crane to put containers in place.	

Project accomodation types

Alaanut,

Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Generator	2	10'Lx4'Wx8'H	To power electronics, and HVAC
Electronics	4	20'Lx8'Wx8'H	Radio Equipment in Shelters

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Diesel	fuel	1	1000	1000	Liters	200 KW Generator with built in fuel tank. (future 750 KW generator TBD)
R410A	hazardous	1	25	25	Lbs	for HVAC

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqtittagaani qanuq	Atulirumayain imavaluin utiqtittagani humi
0		

Iqqakuq

Ikkakunik Munakgiyauyunik

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

Avatiliriniqmut Ayurhautingit:

Air pollution and noise pollution expected from the generator during operations phase. Operations will be only over a 2 week span up to 4 times a year. Levels to be determined as the generator needs to be purchased. The shipping containers will mounted on cribs with styrofoam sheet between the container and the ground to eliminate heat being disssapated into the permafrost.

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 site is located beside an airport, no wetlands or watercourses in the region. The Study Area is located in the tundra, and the ground remains frozen year round (permafrost) with only the top few feet thawing in the summer to allow vegetation to grow (EC 2010). The surrounding area is comprised of gentle rolling hills; however, mountainous terrain is easily visible from the station. A few kilometres to the north, Blacktop Ridge has peaks of up to 825 m. The rock formations around Eureka are quite unique, and the area is known for its Rose rocks and calcite formations (EC 2010).Geological features of the area include glaciers, low mountains, and the Arctic Ocean. Soils consist of marine clays, overlain with fine sands.See attached EED.

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit

See attached EED.

Tamatkiumayunik Ihuikgutivaktunik

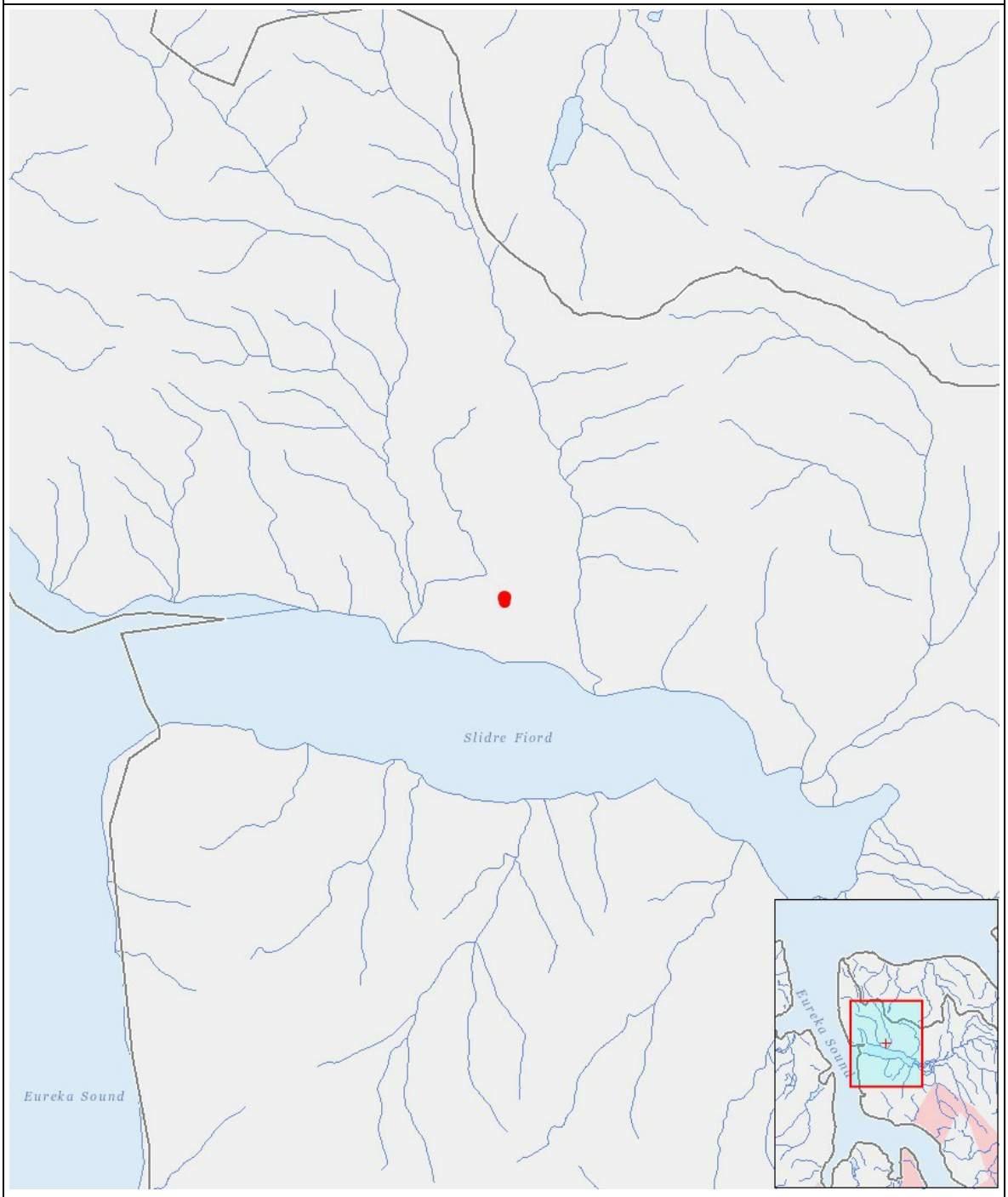
Impacts

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																									
Equipment installation		-	-	N	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Aulapkaininnga																									
Equipment installation		-	-	N	-	-	-	-	-	-	-	M	M		-	-	-	-	-		-	-	-	-	-
Piiqtauniq																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Havaariyauyukhamut Nayugaa



List of Project Geometries

1	point	One corner of antenna Array
2	point	One corner of antenna Array
3	point	One corner of antenna Array
4	point	One corner of antenna Array (8 by 8)
5	point	Shelter location
6	point	Generator Location