



NIRB Uuktuutinga Ihivriuqhikhamut #126192

Arctic Community Connectivity for Equity, Sustainability, and Service (ACCESS)

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Scientific Research

Uuktuutinga Ublua: Tuesday, June 3, 2025

Period of operation: from 2025-06-25 to 2027-02-22

Havauhikhaq Ikayuqtinga: Philip Ferguson
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Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannuqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaiiyainnit nuna
These are the areas over which we would like to test the airship functionality.	Aerial surveys	Inuit Owned Surface Lands	N/A	N/A	Within 2 km of the Hamlet of Chesterfield Inlet.
These are the areas over which we would like to test the airship functionality.	Baseline data	Municipal	N/A	N/A	Interviews within the community.

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Igluligaaryuk	David Kattegatsiak	Hamlet of Chesterfield Inlet	2024-05-16

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Tingmiliqiyiitkut Kaanatami	Flying airship near community	Applied, Decision Pending		

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	Flying airship out over the land and water	

Project accomodation types

Nunauyuq

Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Airship	1	20 m diameter	The airship will be used to provide high-bandwidth communicataions to hunters and trappers out on the land.

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninga

Qanurittuq urhuqyuaq hunavaluit aturninga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Other	fuel	1	50	50	Kg	We plan to use hydrogen to fuel the airship.

Imaqmik Aturninga

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
Aerial surveys	Other, None	None	N/A	We do not anticipate any waste from this project.

Avatiliriniqmut Ayurhauingit:

There is a potential for wildlife disturbance from the sound of the propellers. We are working with the local HTO to determine the appropriate height to avoid any wildlife disturbance.

Additional Information

SECTION A1: Project Info

This research begins with a social needs assessment, consisting of personal interviews with community members about their experiences with communications and connectivity both inside and outside their community. We will explore the barriers they face as well as some of the technology they have employed to help them stay connected within the community and with hunters and trappers out on the land and sea-ice. Dr. Marleny Bonnycastle from the Faculty of Social Work at the University of Manitoba will lead the social needs assessment. After discussions with the community, we will co-develop airship solutions that improve connectivity for community members out on the land. The airship (blimp) and associated equipment will be assembled with the community members in the community and flown a short distance (< 2km) outside the community of Chesterfield Inlet. A major part of the research project will be to determine, in co-development with the community, how and where the airships should fly. We will research, in cooperation with Transport Canada, the safest flight plans that minimize impacts to wildlife, maximize the comfort level of the community members, minimize the risk to the airspace around the Chesterfield Inlet Airport, and maximize the connectivity we receive from satellite internet and deliver to the users on the ground. Since these flight plans are an output of the research project, I do not have them to share ahead of time.

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

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikiykiuumiutinahuarutit

Tamatkiumayunik Ihuikgutivaktunik

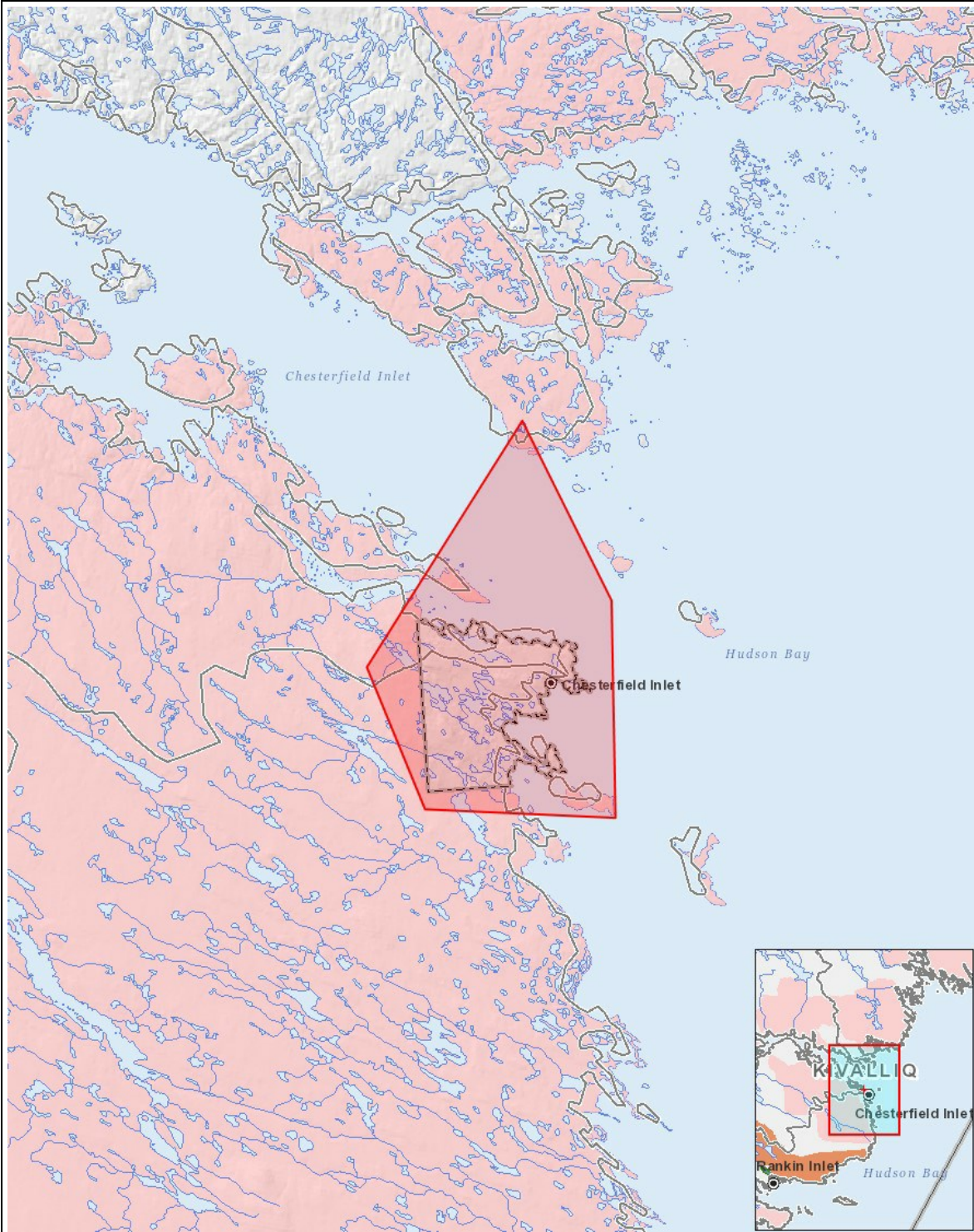
Impacts

Ilitariyauniq Avatiliriniqmut Ayurhauingit

	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																									
Aerial surveys	-	-	-	-	-	-	-	-	-	-	-	P	M	-	M	M	-	-	-	-	P	P	P	-	-
Piiqtauniq																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

Havaariyauyukhamut Nayugaa



List of Project Geometries

1 polygon These are the areas over which we would like to test the airship functionality.