



NIRB Uuktuutinga Ihivriughikhamut #125594

Lake Hazen Barrel Shed Remediation and Replacement

Uuktuutinga Qanurittuq: New

Havaap Qanurittunia: Halumakhinnikmun

Uuktuutinga Ublua: 3/8/2021 9:05:55 AM

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

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

Havauhikhaq Ikayuqtinga: Jenn Lukacic
Parks Canada
1104 B
Iqaluit Nunavut X0A 0H0
Canada
Hivayautit Nampanga:: 867-975-1262, Kayumiktukkut Nampanga::

QANURITTUT

Tukihinnaqtunik havaariyaumayumik uqauhiuyun

Qablunaatitut: see attached document

Uiviititut: NA

Inuktitut: see attached document.

Inuinnaqtun: NA

Personnel

Personnel on site: 4

Days on site: 50

Total Person days: 200

Operations Phase: from 2021-06-01 to 2022-08-10

Operations Phase: from 2021-06-01 to 2022-08-10

Closure Phase: from 2022-07-10 to 2022-08-10

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
Lake Hazen Camp - Quttinirpaaq National Park	Site Cleanup/Remediation	Crown	The Barrel shed and the replacement shed are within a Zone 3 area within the existing footprint of the camp. Lake Hazen Camp was constructed by the Defence Research Board in the 50's. The Site was sampled in the late 90's and remediation of contaminated soils was completed on site in the early 2000's. The existing landfarm was constructed for this purpose and will be used to remediate the naphtha contaminated soils from the barrel shed.	The barrel shed has been designated as a cultural resource, by Parks Canada. A Cultural Resource Impact Assessment will determine how best to document the resource prior to its removal. It is located beside another cultural resource building: an Attwell Shelter installed by the Defence Research Board. Removal of the barrel shed will not effect the Attwell Shelter. There are a number of archeological sites in the surrounding area several kilometers away, but none in the zone 3 area of camp.	Lake Hazen Camp is in Quttinirpaaq national Park. The closest community of Grise Fiord is over 600km away.
Lake Hazen Camp - Quttinirpaaq National Park	Landfarm	Crown	The Barrel Shed was constructed by the Defense Research Board out of old fuel drums. Soil samples have been taken and shown a small and localized level of naphtha contamination. The contaminated soils will be taken to the on site landfarm for remediation. We will work with the Royal	There are a number of archeological sites in the surrounding area several kilometers away, but none in the zone 3 area of camp.	Lake Hazen Camp is in Quttinirpaaq national Park. The closest community of Grise Fiord is over 600km away.

			Military College to determine the appropriate buffer outside of the identified contaminated area to ensure the contaminated soils are captured and placed in the landfarm as well as appropriate remediation measures		
Lake Hazen Camp - Quttinirpaaq National Park	Camp	Crown	Lake Hazen Camp was constructed by the Defence Research Board in the 50's. Parks Canada has used this area to support park operations and research since the 80's. I consists of a kitchen, sleeping quarters, office, toilets, outbuildings and a laboratory. These facilities will be used by the staff staying on site.	There are a number of archeological sites in the surrounding area several kilometers away, but none in the zone 3 area of camp.	Lake Hazen Camp is in Quttinirpaaq national Park. The closest community of Grise Fiord is over 600km away.
Lake Hazen Camp - Quttinirpaaq National Park	Other	Crown	The Barrel shed has been used to store equipment to support camp and park operations. Constructing a new shed of approximate 4.5x4m in size will replace the old barrel shed and used for the same purpose.	There are a number of archeological sites in the surrounding area several kilometers away, but none in the zone 3 area of camp.	Lake Hazen Camp is in Quttinirpaaq National Park. The closest community of Grise Fiord is over 600km away.

Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Ausuittuq	Liza Ningiuk	Quttinirpaaq Joint Parks Management Committee	2017-02-14

Qausuittuq	Tabitha Mullin	Quttinirpaaq Joint Parks Management Committee	2017-02-14
Pangnirtuuq	David Kooneeliusie	Quttinirpaaq Joint Parks Management Committee	2017-02-14

Angiuttauvaktunik

Naunaiqlugu nunanga talvani havauhikhaq ittuq:

North Baffin

Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Pulaarviit Kaanata	Conformity Determination and Environmental Impact Assessment	Active	2021-03-02	
Pulaarviit Kaanata	Cultural Resource Impact Assessment	Active		
Pulaarviit Kaanata	Aircraft Landing Permit	Not Yet Applied		

Project transportation types

Transportation Type	Qanuq Atuqtauniarmangaa	Length of Use
Air	All access to Quttinirpaaq is by air. Staff, materials, equipment and waste are transported by Twin Otter, DC3 or Helicopter	
Land	Materials and equipment flying in and out of the park will be shuttled from the site to the airstrip by snowmobile and qamutik, UTV or ATV and trailer.	

Project accomodation types

Permanent Camp

Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
grinder	1	12	cut up large peices of equipment for removal
UTV	1	8ftx4ft	move materials between airstrip and camp
ATV and Trailer	1	8ftx4ft	Move materials between airstrip and camp
Snowmobile and qamutik	1	2ftx16ft	move materials around camp
chain hoist	1	2x2ft	lift barrels from the shed
gantry crane	1	10x10ft	unstack barrels from the shed
hand and power tools	20	12	construct new shed

Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Propane	fuel	8	100	800	Lbs	camp kitchen appliances
Diesel	fuel	6	205	1230	Liters	tent heaters and camp incinerator
Gasoline	fuel	4	205	820	Liters	fuel for atv, utv, snowmobile

Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
0	Potable water will be supplied by the existing system in camp. Usage is approx.20L per person per day. 50 person days in camp per year is 1000L. This is well within the capacity of the system.	The source is Lake Hazen.

Iqqakuq

Ikkakunik Munakgiyauyunik

Havauhikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Camp	Ikulalimanngittun iqqakuuvaluin	150L/yr	Packaged for air transport out of the park and disposed of in Resolute Landfill.	Remove from Park
Site Cleanup/Remediation	Ikulalimanngittun iqqakuuvaluin	100 empty metal drums, 2500lbs of metal waste	empty barrels and pieces of the push arm and bulldozer blade will be flown out for cleaning, crushing and shipped south for recycling.	drums will be cleaned and crushed in Resolute
Landfarm	Atakuin (halumaiqtun nunan, iqqakuuvaluillu uyaqqiqivingmin)	1000L	contaminated soils will be removed by hand and placed in the existing landfarm.	biological agents and rototilling are used to assist in the breakdown of hydrocarbons
Camp	Anaagun (inuin anaaguin)	80L / yr	on-site diesel fired incineration.	Incineration

Avatiliriniqmut Ayurhauingit:

See The attached Project Description

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

Approximately 100 old fuel barrels will be removed from the park. Contaminated soils from the structure will be remediated in the existing landfarm on site. Several large old pieces of equipment ie) push bar, engine and bulldozer blade will be removed from the park.

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

Lake Hazen Camp consists of the barrel shed, laboratory, fuel shed, 2 sleepers, office and toilets. The Barrel shed and the replacement shed are within a Zone 3 area within the existing footprint of the camp. Lake Hazen Camp was constructed by the Defense Research Board in the 50's and has been used by Parks Canada and researchers since the 80's.

Qanurittuq Ittunik Avatinga: Inuuhimayunut Avatinga

The Barrel Shed is approximately 80m from the shore of Lake Hazen. A small seasonal stream also runs behind it <50m away. Lake Hazen is an important habitat for Arctic char. Peary Caribou and Polar Bear are present in Quttinirpaaq National Park. No Known denning or calving grounds are in the immediate area of the camp. The Lake Hazen thermal oasis is used by many bird and waterfowl species to nest and raise young. Many bird species use the immediate surrounding area however none are known to nest in camp. On occasion some adults with chicks wonder thru camp. Muskox are common in the area.

Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga

There are a number of archeological sites and areas of importance to Inuit along the shores of Lake Hazen but none in the zone 3 area of camp.

Miscellaneous Project Information

Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikkiliyuumiutinahuarutit

The removal of the barrel shed is an impact because it is a cultural resource. Mitigations will be determined thru a Cultural Resource Impact Assessment by Parks Canada to identify how best to document the heritage value prior to its removal. The Lake Hazen Camp was established in the 50's and has been used ever since. The camp area is primarily sand and has some compaction around buildings and walkways. One trail from the airstrip to the camp and one trail from camp to the fuel cache, landfarm and incinerator area on the other end of the airstrip are used to minimize disturbance and compaction in additional areas. Aircraft must fly at a minimum height of 2000ft when in the park to avoid wildlife disturbance. Dust and noise from the use of equipment to shuttle materials will be kept to a minimum by taking the fewest trips possible and staying on the existing trails and airstrip. Low impact / Leave no Trace principles are used in camp and all staff contactors and visitors are provided with a park orientation that reviews low impact camping practices, correct behaviors to avoid and manage wildlife encounters and how to respect archeological sites.

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																										
Camp		M	-	-	-	-	-	-	-	-	-	-	-	N		-	M	M	-	-		-	-	-	-	
Landfarm		-	-	-	-	-	-	-	-	-	P	-	-	-		-	-	-	-	-		-	-	-	-	
Site Cleanup/Remediation		P	-	-	-	-	-	-	-	-	P	-	-	-		-	U	U	-	-		-	P	-	-	P
Piiqtauniq																										
Landfarm		-	-	-	-	-	-	-	-	-	P	-	-	-		-	-	-	-	-		-	-	-	-	
Site Cleanup/Remediation		P	-	-	-	-	-	-	-	-	P	-	-	-		-	U	U	-	-		-	P	-	-	P

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



List of Project Geometries

1	point	Lake Hazen Camp - Quttinirpaaq National Park
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