

Inuinnaqtun: Aulatyutit Nunaliwut tamna nunagiyaayumun aulatyutit havagiyat ukiuq tamaat taimangat 2007 tahamani Kanataup Ukiurtaqtuani. Tapkuat tamaita tugagat pivaliqtitninit tapkuat Kanatamiuni Anguyaktit (CAF-kut) ilihimani pilaqnitlu aulaninik tikittigittuni inigiyaini akhurnaqtutlu avatigiyaitand, huli pipkaqhugit tapkuat CAF-kut takupkaqni pilarniqtik attutiaqtumik hugiaqnit hivuganaitninit nautiumatainutlu pityutit tahamani Ukiurtaqtumi. Aulatyutit Nunaliwut 2018 (Op NU 18) havagiyauniat

kamayiqaglulik nunanut, tagiuplu hikuagut, immap iluagut, qangatayunilu. Op NU 18 ilaqaqniat mikhaani 300 CAF-kut havaktit. Op NU 18 atuqtauniaq talvanga 23 Fibruari tikitlugu 19 Matyi, 2018 tahamani Kitikmeotni (Ikaluktutiak avataanittutlu nunat) tamnalu Qikiqtaalukmi (Qauhuittuq avataanittutlu nunat). Haniani Ikaluktutiak, tamna Kanatamiuni Anguyaktit anguyaktigiyai tapkuatlu Royal Kanatamiuni Tagiuqni Anguyaktit (RCN-kut) aglugaqtit havaqatigit ikayuqtauniat ilauyunit tapkunani 1 Kanatamiuni Unataqtukhagalaat Ilagiit (1 CRPG-kut) tapkuat Ikatitlugit mikhaani 90 havaktit. Munaqhiyut tapkuatlu aglugaqtut aulatyutai havagiyauniat tagiup hikuani. Tapkuat qaqtuqnut hiqugaqnit parnagutauyuq atuqtaunikha tahamani tagiup hikuani. Qauhuittumi, tamna Kanatamiuni Anguyaktit ilagiit ikayuqtauniat ilauyunit tapkunanga 1 CRPG-kut katitlugit mikhaani 90 havaktit. Munaqhiyut havagiyauniat tagiup hikuani tahamani haniani Qauhuittuq, atuqni iliaqnit ukiurtaqtumi annaumanimun ayuitninit. Tamna qaquyuliknik hiqugarniq parnagutauyuq atuqtaunia tagiup hikuani. Tamna Havat Havakti Ataniqaqvia pinguqtauniaq talvani Qauhuittuqmi piqaqniaq mikhaani 20 ilauyut ilagiaqlutik 40 ikayuqtikhat havaktinik. Tamna Timinga Nunaqyuaqmi Anguyaktit / Kanatamiuni Anguyaktit atuqpiagahuaqta'i tahaphumunga avatigiyauyumun. Tamaita piqatauyut talvani Op NU 18 havaktitniaqta'i avatiliqutinut pittiaqnit nakuuniquhamiklu aulataunit pitquhiit atuqpiagiangi tahamna nuna aktuanguittanga.

## **Personnel**

Personnel on site: 300

Days on site: 25

Total Person days: 7500

Operations Phase: from 2018-02-23 to 2018-03-19

## Hulilukaarutit

### Hulilukaarutit

Inigiya	Hulilukaarut Qanurittuq	Nunannga Qanurittaakhaanik	Initurlinga qanuritpa	Initurlinga utuqqarnitat unaluuniit Ingilraaqnitat Uyarannguqtut akhuurninnga	Qanitqiyauyuq qanitqiamut nunallaat kitulluuniit ahiruqtaliyainnit nuna
Cambridge Bay Op Box	Camp	Inuit Owned Surface Lands	This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites.	Unknown	Unknown
Cambridge Bay Op Box	Camp	Crown	This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites.	Unknown	Unknown
Resolute Bay Op Box	Camp	Inuit Owned Surface Lands	This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites.	Unknown	Unknown
Resolute Bay Op Box	Camp	Crown	This application is to secure an alternative, non-sea-ice, locations to the primary sea-ice sites.	Unknown	Unknown
Live Fire Range Site near Cambridge Bay	Other	Crown	Unknown	Unknown	Sea ice off Finlayson Islands, approx. 37 km west off the community of Cambridge Bay
Live Fire Range Site near Resolute Bay	Other	Crown	Unknown	Unknown	Approx. 1.67 km east off the community of Resolute Bay

### Nunaliin Ilauyun, Aviktuqhimayuniitunullu Ikayuuhiarunguyun

Nunauyuq	Atia	Timiuyuq	Upluani Uqaqatigiyaungmata
Ikaluktuttiak	Fred Muise	The Municipality of Cambridge Bay	2017-12-05

## Angiuttauvaktunik

### Naunaiqlugu nunanga talvani havauhikhaq ittuq

Kitikmeot  
North Baffin

### Angiuttauvaktunik

Munariniqmut Ayuittiaqtuq	Angirutinga Qanurittuq	Tadja Qanurittaakhaanik	Ublua Tuniyauyuq/Uuktuqtuq	Umikvikhaa Ublua
Alaanut	NPC, Conformity	Active	2016-11-12	

	Determination Letter			
Kitikmeot Inuit Katimayiingit	Application for Access to IOL	Not Yet Applied		
Qikiqtani Inuit Katimayit	Application for Access to IOL	Not Yet Applied		
Nunaqaaqahimayunut Inuliqinirnut Kanata	Land Use Permit Application	Not Yet Applied		

#### Project transportation types

Transportation Type	Qaffiuyut	Qanuq Atuqtauniarmangaa	Length of Use
Air	0	Aircrafts (CC-138, CC-130, CC-177) and helicopter (CH-146)	
Water	0	On sea ice - Light-Over-Snow-Vehicles (LOSVs) and snowmobiles	
Land	0	BV206 (MOSV), LOSVs and snowmobiles	

#### Project accomodation types

Temporary Camp

Alaanut,

## Ihuaqutivaluin Atuqtauyukhan

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

Hanalrutit Qanurittuq	Qaffiuyut	Aktikkulaanga – Qanurittullu	Qanuq Atuqtauniarmangaa
Aircraft, CC-177 Globemaster	1	L53m/W52m/H17m	Transportation of troops & equipment
Aircraft, CC-130 Hercules	1	L30m/W40m/H11m	Transportation of troops & equipment
Aircraft, CC-138 Twin Otter	3	L15.1m/W9.81m/H5.66m	Transportation of troops & equipment
Helicopter, CH – 146 Griffon	1	L17m/W14m/H4.6m	Transportation of troops & equipment
BV206, MOSV	2	L5.72m/W2.01m/H2.72m	Transportation of troops & equipment
LOSV	90	L3.00m/W1.30m/H1.20m	Transportation of troops & equipment
Heater	20	L4.24m/W2.75m/H1.20m	Heating
5kW Generator	2	L4.0m/W3m/H.2m	Power generation
Compression Chamber	1	L2.1m/W1.3m/H2.0m	Safety in case of diver nitrogen poisoning

## Qanurittuq Urhuqyuaq unalu Qayangnaqtut Hunavaluit Aturninnga

Qanurittuq urhuqyuaq hunavaluit aturninnga:	Urhuqyuaq Qanurittuq	Qaffiuyut qattaryut	Qattaryuk Aktikkulaanga	Atauttimut Qaffiuyut	Ilanga	Qanuq Atuqtauniarmangaa
Diesel	fuel	29	205	5945	Liters	Transportation, heating & power generation
Gasoline	fuel	27	205	5535	Liters	Transportation
Naphtha	fuel	4	5	20	Liters	Cooking and heating
Oil	fuel	50	5	250	Liters	Transportation

## Imaqmik Aturninnga

Ubluq qanuraaluk (m3)	Aturumayain imavaluin utiqittagaani qanuq	Atulirumayain imavaluin utiqittagani humi
1	Ice blocks	Municipal water plant

## Iqqakuq

### Ikkakunik Munakgiyauyunik

Havaulikhaq Hulilukaarut	Qanurittuq Iqqakut	Ihumagiyauyuq Qanuraaluktut Atuqtait	Qanuq Iqqakuurniarmangaa	Halummaqtirarnirutikhan piyutin
Access Road	Ikulalaaqtun iqqakuuvaluin	100 lbs/day	All combustible waste produced in the field will be returned to the nearest settlement for proper disposal by contract.	None
Other	Qimarivyaktuq imaq	100 lbs/day	Greywater produced at temporary camp sites, is anticipated to be minimal where use of water will be mostly for personal consumption (drinking and cooking). Greywater produced at Cambridge	None

			Bay and CAFATC will be disposed of via existing infrastructure.	
Other	Hivuuranaqtun iqakuuvaluin	Unknown	All hazardous waste will be shipped to larger urban centers for proper disposal by qualified operators.	None
Other	Ikulalimanngittun iqqakuuvaluin	100 lbs/day	All non-combustible waste produced in the field will be returned to the nearest settlement for proper disposal by contract.	None
Camp	Anaagun (inuin anaaguin)	100 lbs/day	Human waste produced in the field will be collected (bagged) and shipped south for proper disposal.	None

**Avatiliriniqmut Ayurhauingit:**

Please see Project Description document attached herein.

## **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**

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

All activity conducted in this area is assessed as low impact and any wildlife sightings will be recorded and reported. Peary Caribou are an endangered species and live in the vicinity of Resolute Bay. Dolphin and Union Caribou are a species of special concern and live in the vicinity of Cambridge Bay. Human activities have the potential to disturb these animals, however any caribou seen will be avoided minimizing the potential disturbance of any individual caribou or caribou herds.

### **Qanurittuq Ittunik Avatinga: Inungit-maniliurutingit Avatinga**

Based on all of the information available regarding the proposed Op NU 18 and the surrounding environment, if designed and carried out using the knowledge of the local I CRPG members in to addition to the identified mitigation measures, and follow-up programs and monitoring, Op NU 18 is not likely to cause any significant effect on the environment.

### **Naunaiyainiq ukuninnga Ayurhautingit unalu Piumayaat Ikikliyuumiutinahuarutit**

The following is a list of potential impacts which could result from the proposed activities:

- Activity and vehicle traffic from the proposed activities is expected to increase ambient noise levels and may also cause minor disturbance to the wildlife within the vicinity of activity locations. However, since all activities will be temporary, impacts are expected to be minimal.
- Vehicles involved in Op NU 18 will release particulate into the atmosphere and contribute to greenhouse gas emissions. Air quality in the vicinity of activities may be temporarily reduced due to the increased fumes. However, due to the relatively short duration of the activity, and the use of new, lower emission vehicles, impacts to the atmosphere are expected to be minimal.
- Despite direction to ensure all waste material is to be properly contained and transported back for disposal, the potential exists for waste material produced during Op NU 18 to litter property or be windblown onto surrounding locations. However, every effort will be made to ensure this does not happen; therefore, the impact is considered to be easily mitigated and insignificant.
- Should a fuel leak and/or spill occur from vehicles, equipment, etc, the possibility exists for contamination of ground water resources, soil and/or surface water. However, all units traveling outside Resolute Bay or Cambridge Bay will have spill cleanup supplies, and will be instructed on their use; therefore, the potential for a malfunction and/or accident to cause any significant impact is low.
- Peary Caribou are an endangered species and live in the vicinity of Resolute Bay. Dolphin and Union Caribou are a species of special concern and live in the vicinity of Cambridge Bay. Human activities have the potential to disturb these animals, however any caribou seen will be avoided minimizing the potential disturbance of any individual caribou or caribou herds. While there is potential for activities to impact the environment, mitigation measures have been established to minimize their significance. These mitigation measures include, but are not limited, to:
- An environmental brief will be provided to personnel involved in the exercise to ensure they have the required general level of environmental awareness and knowledge, and are aware of requirements related to wildlife prevention, response and reporting.
- Vehicle movement will be restricted in sensitive areas. In the event established trails are impassable, personnel will be instructed to use alternate routes for as limited a distance as necessary.
- Individuals will be tasked to ensure waste material and litter is collected on the site prior to departing the camp location. All waste produced on site will be packed out to Resolute Bay or Cambridge Bay for proper disposal.
- In order to prevent any unnecessary wildlife encounters, all waste will be appropriately contained, stored and removed from the sites as soon as possible.
- All caribou will be avoided and not disturbed in any way.
- Personnel will keep at least 1 km away from the boundary of the Polar Bear Pass National Wildlife Area.
- Personnel will be made aware of the potential for threats from local wildlife and instructed to avoid encounters or disrupt any wildlife unless absolutely necessary.
- Local treatment systems and municipal landfill or incineration will be used for the disposal of human waste. Waste generated during foot patrols or when municipal services are otherwise unavailable, will be bagged and packed out for appropriate disposal.
- Local landfill or incineration will be used for the disposal of combustible waste. Disposal will occur in accordance with territorial and municipal regulations (waste will be handled by contract).
- Local landfill, incineration or recycling centers, where available, will be used for the disposal of non-combustible wastes. Disposal will occur in accordance with territorial and municipal requirements (waste will be handled and disposed by contract).
- All noise making activities will be limited as much as possible.
- Vehicles and equipment will be maintained in good repair to prevent leakage of fuel, oil,

etc. • Generators will be placed within suitable containment throughout the operation, and will be emptied for transportation; • When in Resolute Bay or Cambridge Bay, all vehicle/equipment refueling will occur in a central location. • Use of spill containment items including drip pans or mobile plastic berms will be maximized during refueling. • All fuel storage systems and containers to be used in Op NU 18 will be transported, stored, protected, etc. according to proper legislation, regulation, codes and guidelines. • All hazardous materials (HAZMAT) and fuel will be stored in approved storage containers and facilities, including compliant secondary containment and will be stored in accordance with municipal, territorial, and federal regulations; • HAZMAT prevention/response resources (spill pans, hydrocarbon spill pads, absorbent, etc.) will be available and ready for use if required. Spill kits will be specifically located at all fuel storage areas, vehicle maintenance areas and refueling areas. • All hazardous materials (HAZMAT), fuel storage, generator and vehicle parking areas are subject to inspection by environmental support staff. All involved elements will appoint an environmental representative, accountable for the supervision of best environmental practices; • HAZMAT waste will be appropriately packaged and transported to a suitable facility for disposal, in accordance with appropriate regulations – provided by a third party waste disposal facility if required; and, • Photographs will be taken of all training location sites, and temporary camp locations before, during and after use. Based on all of the information available regarding the proposed Op NU 18 and the surrounding environment, if designed and carried out using the knowledge of the local ICRPG members in addition to the identified mitigation measures, and follow-up programs and monitoring, Op NU 18 is not likely to cause any significant effect on the environment.

**Tamatkiumayunik Ihukgutivaktunik**

## Impacts

## Ilitariyauniq Avatiliriniqmut Ayurhautingit

Havakvinga																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-
Aulapkaininnga																									
Camp		-	-	-	-	-	-	-	-	-	-	-	N		-	-	-	-	-		-	-	-	-	-
Piiqtauniq																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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