

Demande de la CNER faisant l'objet d'un examen préalable #125227

3BC-FOD0919 FOX-3, Dewar Lakes Water Use Licence Renewal/Amendment

Type de demande :	New
Type de projet:	Eau
Date de la demande :	12/19/2017 10:02:52 AM
Period of operation:	from 0001-01-01 to 0001-01-01
Autorisations proposées:	from 0001-01-01 to 0001-01-01
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DÉTAILS

Description non technique de la proposition de projet

Anglais: FOX-3, Dewar Lakes3BC- FOD0919Water Licence Renewal and AmendmentThe North Warning System in Canada is a chain of unmanned radar sites that provides aerospace surveillance, established to detect and allow for an early response to potential threats entering North American air space. It is part of Canada's North American Aerospace Defense Command (NORAD) agreement with the United States, and an essential capability in our efforts to maintain Canada's sovereignty. Raytheon Canada Limited has the contract with the Department of National Defence to operate and maintain the North Warning System radar site FOX-3, Dewar Lakes. FOX-3 is situated in Nunavut on Baffin Island north of Dewar Lakes. It is located on a hill top, about 518 m above sea level, in an area of general glacial scouring and eskers. The airstrip in the valley is approximately 152 m above sea level. The closest source of support is FOX-M, Hall Beach to the west. Flight time from FOX-M to FOX-3 is 3 hours (including a half hour refueling stop) by helicopter under normal conditions. FOX-3 is a Long Range Radar Site (LRR) for the North Warning System. FOX-3 is an unmanned site, but it is visited by FOX-M staff on scheduled quarterly preventive and corrective maintenance trips and on an as needed basis. During the months of May to September the site may have an average of 5 to 20 personnel on-site due to seasonal project activity and occasional Third Party visitors. FOX-3 is one of 11 LRRs of the North Warning System; the LRRs are located across the Yukon, Northwest Territories, Nunavut, and down the Labrador coast. The facilities are remotely monitored and controlled from North Bay on a 24/7 basis. The information they receive is automatically sent to the Canadian Air Defence Sector located at 22 Wing, CFB North Bay over a long-haul satellite communications network.

Français: n/a

[illegible]

Inuinnaqtun: n/a

Personnel

Personnel on site: 5

Days on site: 60

Total Person days: 300

Operations Phase: from 2018-06-01 to 2028-06-01

Activités

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
FOX-3, Dewar Lakes Camp Location	Camp	Crown	FOX-3 was built in the 1950's as one of the Distant Early Warning Line (DEW Line) radar sites which stretched from Alaska to Greenland. In the 1980's, the DEW Line in Canada evolved into the North Warning System (NWS) with radar sites extending from the Yukon across the Arctic and down the Labrador coast. FOX-3 was modernized as part of this transition in 1995.	Archeological studies were conducted in 1990 and 2007. Areas of importance have been noted and avoided.	Clyde River, 230 km to the northeast; Qikiqtarjuaq, 320 km to the southeast; Hall Beach, 410 km to the west.
FOX-3, Dewar Lakes Camp Location	Landfarm	Crown	The site for this landfarm is indicated on attached maps. The location was used during the DEW Line Clean up Project for their landfarm facility.	The site of the landfarm has no archeological value	Clyde River, 230 km to the northeast; Qikiqtarjuaq, 320 km to the southeast; Hall Beach, 410 km to the west.

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

South Baffin

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Office des eaux du Nunavut	This NIRB submission is required for the renewal / amendment for an existing Water Use Licence (3BC-FOD0919) issued by the Nunavut Water Board.	Not Yet Applied		

Project transportation types

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Transportation Type	Quantité	Utilisation proposée	Length of Use
Air	0		

Project accomodation types

Permanent Camp

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
Excavator	1	10X3X3 m	Digging
Dump Truck	2	3x5x2 m	Moving Aggregate
Loader	2	7x4x2 m	Earthworks
Dozer	1	6x3x4 m	Earthworks
Grader	1	9x2x3 m	Grading
Pickup Truck	1	6x2x2 m	Transportation

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
Aviation fuel	fuel	5	90000	450000	Liters	Power generation
Aviation fuel	fuel	2	692000	1384000	Liters	Power generation
Aviation fuel	fuel	20	246000	4920000	Liters	Power generation
Paint	hazardous	1	205	205	Liters	painting surfaces
Batteries	hazardous	1	205	205	Liters	Power generation

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
40	Water from a natural fresh water lake is pumped into a water truck; the water intake is equipped with a mesh screen. The water is then transferred to the four raw water tanks located at the station; w	Water Lake (local)

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Camp	Dangereux	<5 m3/ season	Waste paint, tank cleaning effluent, fuel, batteries, oily rags, and glycol soaked rags and pads are packaged and shipped to a licensed disposal facility every one or two years.	none
Camp	Déchet dangereux	2.5 m3 /season	Waste oil is packaged and shipped to a licensed disposal facility.	none
Camp	Other, Solid Waste	10 m3 /season	Currently all solid waste is packaged and shipped to Hall Beach for disposal. There are future plans to develop an on-site alternative; whereby paper products and packaging, untreated wood and natural fiber textiles would be	none

			segregated and incinerated on-site. This alternative would implement the use of an appropriate incinerator as outlined in the Government of Nunavut, Guideline for the Burning and Incineration of Solid Waste.	
Landfarm	Other, Hydrocarbon impacted soil	290 m3 for one season only (2018)	Treatment in an on-site landfarm.	none
Camp	Eaux usées (matières de vidange)	50 m3 / season	Sewage (blackwater) and greywater are combined in the sewage system. The sewage system comprises a sump, holding tank, and masticating pump within the building train. Sewage is not discharged daily. When the septic tank nears or reaches capacity, the sewage is discharged out the sewage outfall pipe to the receiving sump.	There is no additional treatment.

Répercussions environnementales :

Please see attached Environmental Protection Plan

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

FOX-3 is situated in Nunavut on Baffin Island north of Dewar Lakes. It is located on a hill top, about 518 m above sea level, in an area of general glacial scouring and eskers. The airstrip in the valley is approximately 152 m above sea level. The geographical coordinates are: 68 40' 48" N, 71 14' 48" W. The hill top (about 518 m above sea level) is in an area indicating general glacial scouring. Surface materials include bedrock, till and fluvial materials, with till being the most common. The area is strewn with boulders up to 1 meter across. The airstrip area features fluvial deposits of gravels, sands, and silts. Vegetation is relatively scarce with some patches of wood rush, grass, and wildflowers. The wetter areas may consist of sedges and moss. The most prominent topographical features include rolling hills, separated by broad intervening depressions, and an interconnecting lake system running through a deep valley.

Description de l'environnement existant : Environnement biologique

Vegetation is sparse and more suitable for birds than larger grazing mammals. However, a small group of caribou from the Baffin Island herd occasionally wanders through the Dewar Lakes area, although the herd is generally located farther west. Arctic foxes and wolves are also occasionally seen at FOX-3. Waterfowl that nest in small shallow ponds in the area include the red-throated loon, tundra swan, greater snow goose, king eider and oldsquaw. To the south and west of the site are colonies of Sabine's gulls.

Description de l'environnement existant : Environnement socio-économique

Identification des répercussions et mesures d'atténuation proposées

Please see attached Environmental Protection Plan

Répercussions cumulatives

Impacts

Identification des répercussions environnementales

Construction																								
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-
Exploitation																								
Camp		-	-	-	-	-	-	-	-	-	-	-	N		-	-	-	-	-		-	-	-	-
Landfarm		-	-	-	-	-	-	-	-	-	-	-	N		-	-	-	-	-		-	-	-	-
Désaffectation																								
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-

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