



Demande de la CNER faisant l'objet d'un examen préalable #125484

Unnamed Lake Water Supply Studies

Type de demande : New

Type de projet: Eau

Date de la demande : 9/9/2019 3:50:52 PM

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: The City of Iqaluit has been experiencing water shortages in its drinking water reservoir, Lake Geraldine. As part of planning for the future growth of the City, the City is studying potential new sources of drinking water to supplement the Lake Geraldine reservoir. In summer and fall of 2019, the City plans to continue with studies of the “Unnamed Lake” approximately 3 kilometres north of the Road to Nowhere. These studies will help to answer whether this lake could reliably supply enough water every year to permanently add to the City’s drinking water supply. Currently, very little is known about this lake, its depth, how much water flows in and out and the quality of the water. To help to answer these questions, several studies are proposed in 2019 and 2020: 1) Lake water level measurements throughout the year will be collected using a level-logger – an instrument that records water pressure. A two-person field team will set out two loggers in September 2019 and will retrieve the loggers after a full year. 2) Lake outflow measurements will be collected when outflow creek(s) are flowing 3) A bathymetric survey will map the lake bottom using a sensor similar to a fish finder. An inflatable zodiac with motor will be used to survey the entire lake during two days in summer of 2019. The boat will be transported there using ATV or helicopter. 4) Water samples will be collected from the surface and from various depths to analyze for water quality. The City will award contracts to complete the work by early July 2019, and work will begin in July 2019. A wildlife monitor will be retained for all field work. Unnamed Lake will be accessed from Iqaluit by ATV or by helicopter for a maximum of two days during up to four separate field programs in 2019 and 2020. Surveys will be conducted on foot and using an inflatable boat. Impacts to soil, vegetation, wildlife, fish and water are expected to be negligible and of short duration. The results of the water studies will be used to evaluate the suitability of Unnamed Lake as a water source, and to plan for potential future work.

Français: N/A

[illegible]

Inuinnaqtun: N/A

Personnel

Personnel on site: 4

Days on site: 8

Total Person days: 32

Operations Phase: from 2019-07-08 to 2020-08-23

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
Unnamed Lake study area	Researching	Municipal	N/A	N/A	Within Municipal Boundaries of Iqaluit

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Iqaluit	Manasie Mark	Amaruq Hunters and Trappers Organization	2019-07-22

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	3AM-IQA1626 Application for Amendment	Active		
Institut de recherche du Nunavut	Nunavut Research License	Applied, Decision Pending		
Pêches et Océans Canada	Fish and Fish Habitat Protection Program - Fisheries and Oceans Canada Approval	Active		

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	Transport of Equipment to/from work site if required.	
Water	Bathymetric Survey	
Land	Transport of personnel and equipment to and from Site	

Project accomodation types

Collectivité

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
ATV	2	1-2 person capacity	transport of personnel and equipment to/from site
helicopter	1	206L or similar	transport of equipment to/from work site if required
boat	1	16 ft	bathymetric survey

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
Gasoline	fuel	2	25	50	Liters	Refuel of Boat Engine
Batteries	hazardous	2	10	20	Kg	Survey Equipment

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Information is not available				

Répercussions environnementales :

The research project has the potential to interact with Water Quality and Wildlife. Impacts to the environment from potential spills of fuel while refueling the boat will be minimized by applying spill contingency measures. This includes: transporting fuel in approved containers; minimizing fuel on site; not refueling on water; and carrying spill kits. Impacts to wildlife may result from disturbance of nests or dens. Project activities will minimize overland travel. An onshore staging area to be used during 2 days of project work will be established away from active nests or dens. A wildlife monitor will be retained to observe wildlife activity. Impacts to soil and vegetation will be minimized by avoiding wet areas during ATV travel.

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

The research project has the potential to interact with Water Quality and Wildlife. Impacts to the environment from potential spills of fuel while refueling the boat will be minimized by applying spill contingency measures. This includes: transporting fuel in approved containers; minimizing fuel on site; not refueling on water; and carrying spill kits. Impacts to wildlife may result from disturbance of nests or dens. Project activities will minimize overland travel. An onshore staging area to be used during 2 days of project work will be established away from active nests or dens. A wildlife monitor will be retained to observe wildlife activity. Impacts to soil and vegetation will be minimized by avoiding wet areas during ATV travel.

Description de l'environnement existant : Environnement biologique

Description de l'environnement existant : Environnement socio-économique

Miscellaneous Project Information

Identification des répercussions et mesures d'atténuation proposées

Répercussions cumulatives

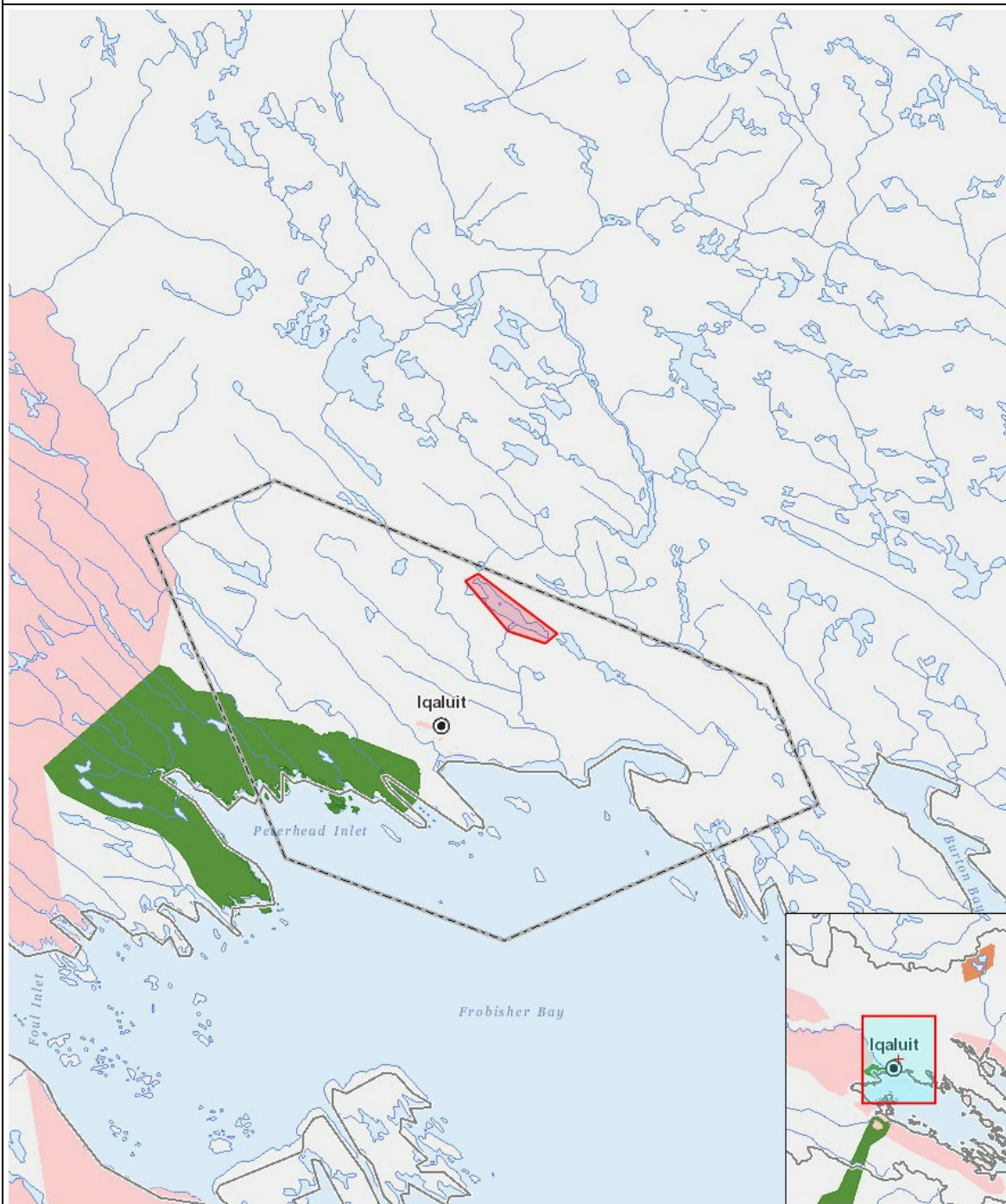
Impacts

Identification des répercussions environnementales

	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
Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exploitation																									
Researching		-	-	-	-	U	-	-	-	-	U	-	-		-	-	-	-	-		-	-	-	-	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Site du projet



Liste des géométries de projet

1	polygon	Unnamed Lake study area
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