Demande de la CNER faisant l’objet d’un examen préalable #125892

Marine Habitat Use of Thick-billed Murres

Type de demande : New

Type de projet: Scientific Research

Date de la demande : 3/7/2024 10:02:47 AM

Period of operation: from 2024-07-20 to 2024-08-31

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DÉTAILS

Description non technique de la proposition de projet

Anglais: Recent increases in resource development activities are projected to increase shipping traffic in Canada’s eastern arctic marine regions. However, there is not enough information to properly assess potential ecological impacts of year-round shipping lanes on marine wildlife. Our goal is to determine the distribution and abundance patterns of Thick-billed Murres, in an effort to identify key marine habitats. We are investigating seasonal and annual variation in marine habitat use at multiple colonies in Nunavut (Cape Graham Moore, Bylot Island). In association with this research, we are examining how variation in foraging behaviour might influence physiology and reproductive success of individuals. This work will establish a baseline of marine habitat use from which potential future impacts of resource development to marine birds may be assessed.

Français: L’intensification récente des activités de développement des ressources devrait accroître le trafic maritime dans les régions marines de l’est de l’Arctique canadien. Cependant, il n’existe pas suffisamment d’informations pour évaluer correctement les impacts écologiques potentiels des voies de navigation ouvertes toute l’année sur la faune marine. Notre objectif est de déterminer les modèles de répartition et d’abondance du Guillemot de Brünnich, dans le but d’identifier les habitats marins clés. Nous étudions les variations saisonnières et annuelles de l'utilisation de l'habitat marin dans plusieurs colonies du Nunavut (cap Graham Moore, île Bylot). En association avec cette recherche, nous examinons comment la variation du comportement de recherche de nourriture pourrait influencer la physiologie et le succès reproducteur des individus. Ce travail établira une base de référence sur l'utilisation de l'habitat marin à partir de laquelle les impacts potentiels futurs du développement des ressources sur les oiseaux marins pourront être évalués.

Inuktitut: ᓱᓇᒥᐊᑦ ᐱᕙᓪᓕᐊᓗᐊᓕᕐᓂᖏᓐᓄᑦ ᐱᓗᐊᖅᑐᒻᒥᒃ ᐅᒥᐊᕐᔪᐃᑦ ᐊᒥᓱᓂᖕᓴᑦ ᐃᖏᕋᑕᓕᕐᓂᖏᓐᓄᑦ ᑲᓇᑕᐅᑉ ᐅᒥᐊᕐᔪᐃᑦ ᐃᖏᕋᑕᕐᓂᖏᓐᓄᑦ ᑕᕆᐅᕐᒥᐅᓂᒃ ᓂᕐᔪᑎᓄᑦ ᐊᒃᑐᐃᓂᖃᕋᔭᖅᑐᓐᓂᒃ. ᐱᓕᕆᐊᕆᔪᒪᔭᖅᐳᑦ ᓇᓂᓯᐅᖅᑕᕐᓂᖏᓐᓂᒃ ᓇᒧᖓᐅᑕᕐᓂᖏᓐᓂᓪᓗ ᐱᑦᑎᐅᓚᕐ, ᑐᑭᓯᓂᓗᒡᓗᑕ ᓂᕿᖃᕐᕕᒋᓐᓂᒃ ᐊᒻᒪ ᓇᓂᓯᐅᖅᑕᕐᓂᖏᓐᓂᒃ ᓄᓇᕗᒻᒥ (ᑲᐃᑉ ᒍᕋᒻ ᒧᐊᓪ, ᐸᐃᓚᑦ ᕿᑭᖅᑕᖓ). ᑕᐃᑯᐊ ᐱᓕᕆᖃᑎᒋᔭᐅᑉᓗᑎᒃ ᖃᐅᔨᓂᓗᒃᐳᒍᑦ ᐊᔨᖏᖏᓂᖏᓐᓂᒃ ᐃᓄᓯᖏᑕ ᐃᓱᒪᓱᕐᓂᖏᑕᓗ ᐊᑕᐅᓯᐅᑉᓗᑎᒃ. ᑕᒻᓇ ᑐᖓᕕᐅᓂᐊᕐᒪᑦ ᖃᐅᔨᓴᕐᓂᕐᒥ ᑕᕆᐅᕐᒥᐅᑦ ᓂᕿᖏᓐᓂᒃ ᓂᕆᑦᑕᕐᓂᖏᓐᓂᒃ ᓯᕗᓂᕐᒥ ᐱᕙᓪᓕᐊᓂᖅᑕᖃᓕᕐᓂᖅᐸᑦ ᑕᕆᐅᒻᒥ ᑎᖕᒥᐊᕈᓯᑦ ᐊᑐᖅᐸᒃᓴᖏᓐᓂᒃ.

Personnel

Personnel on site: 4

Days on site: 12

Total Person days: 48

Operations Phase: from 2024-07-20 to 2024-08-31

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
Field Camp Location	Camp	Inuit Owned Surface Lands	The Cape Graham Moore thick-billed murre colony is important to the community of Pond Inlet for egg collections. Our activities do not overlap with their harvest.	We do not know of nearby archaeological sites, however if one were to be discovered we would notify the community and QIA.	The closest community is Pond Inlet, across the channel. The camp site and colony we work with are near, but lie outside of Sirmilik National PArk.
Cape Hay Colony to survey	Sampling sites	Crown	This colony has not been surveyed in many years.	We are unaware of any archeological sites of value at this colony.	This is located within Sirmilik National Park, and the closest community is Pond Inlet.

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Pond Inlet	Judah Innualuk	Mittimatalik HTO	2024-02-13
Pond Inlet	Julia Prokopick	Asungasungaat Area Co-management Committee	2022-06-01

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Office des eaux du Nunavut	Approval without a license. Obtained the last 3 years, waiting on decision for 2024.	Applied, Decision Pending		
Environment and Climate Change Canada	Animal Use Protocol. Obtained the last 3 years, renewal pending.	Applied, Decision Pending		
Qikiqtani Inuit Association	Permit QX-2202	Active	2022-03-22	2024-08-30
Gouvernement du Nunavut, ministère de l'Environnement	Permit WL-2022-024, amendment applied for to include Cape Hay colony surveys (pending)	Active	2022-03-22	2024-08-30
Service canadien de la faune	Banding permit (10892)	Active	2022-05-09	2024-12-31
Parcs Canada	Application to work at Sirmilik National Park to conduct Cape Hay survey of thick-billed murre colony. Submitted on Feb 28, 2024.	Applied, Decision Pending		

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	We will be travelling to and from our camp by helicopter	
Land	We will only be travelling by foot while on the land. There are no motorized vehicles.	

Project accomodation types

Temporary 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
Helicopter	1	Bell 206 L	6 flights - 2 take crew and gear in, 2 resupply and crew change over mid-season, 2 take crew and gear out
Drone	1	Mavik Pro 3	Survey thick-billed murre colony to determine colony size

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	1	45	45	Gallons	Fuel for helicopter flight time to survey Cape Hay and Cape Graham Moore thick-billed murre colonies

Consommation d’eau

Quantité quotidienne (m3)	Méthodes de récupération de l’eau proposées	Emplacement de récupération de l’eau proposé
1	Snow in shaded areas, places into blue barrels and melted for drinking, washing dishes, etc.	Snow is collected in shaded areas within 1 Km of our camp.

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d´élimination	Procédures de traitement supplémentaires
Camp	Déchets combustibles	6 garbage bags	Incineration at high temperatures	Ash removed and brought to Pond Inlet for disposal.
Camp	Eaux grises	5L/day	Placed in sump at least 100m from water bodies	Backfilled to match landscape.
Camp	Déchets non combustibles	3 garbage bags	Flown back to Pond Inlet for disposal at dump.	Stored in garbage bags in camp. Removed when we leave.
Camp	Eaux usées (matières de vidange)	10L/day	In a sump at least 100m from water bodies (river, lake, etc).	Backfilled to match contours of the land

Répercussions environnementales :

Given that we aim to study birds in their natural environment, we aim to minimize the impact of our presence and activities on the landscape/environment. We ensure we keep a clean camp and remove all our equipment/materials when we complete the work and leave for the season. Our largest impacts are likely our grey water and human sewage outputs. We ensure that we do not deposit these things anywhere near possible water sources to ensure there is no contamination, and we back fill these sumps to match the landscape. We only run our generator when it is necessary to charge our GPS units for bird tracking and to charge our radios for safety communication, thus reducing noise generated from our camp. Our tents will only be up for about 12 days so they should have minimal impact on surrounding vegetation, especially since we aim to put our tent up on gravel-heavy areas. When we leave, we aim to ensure the site looks as it did when we arrived.

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

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

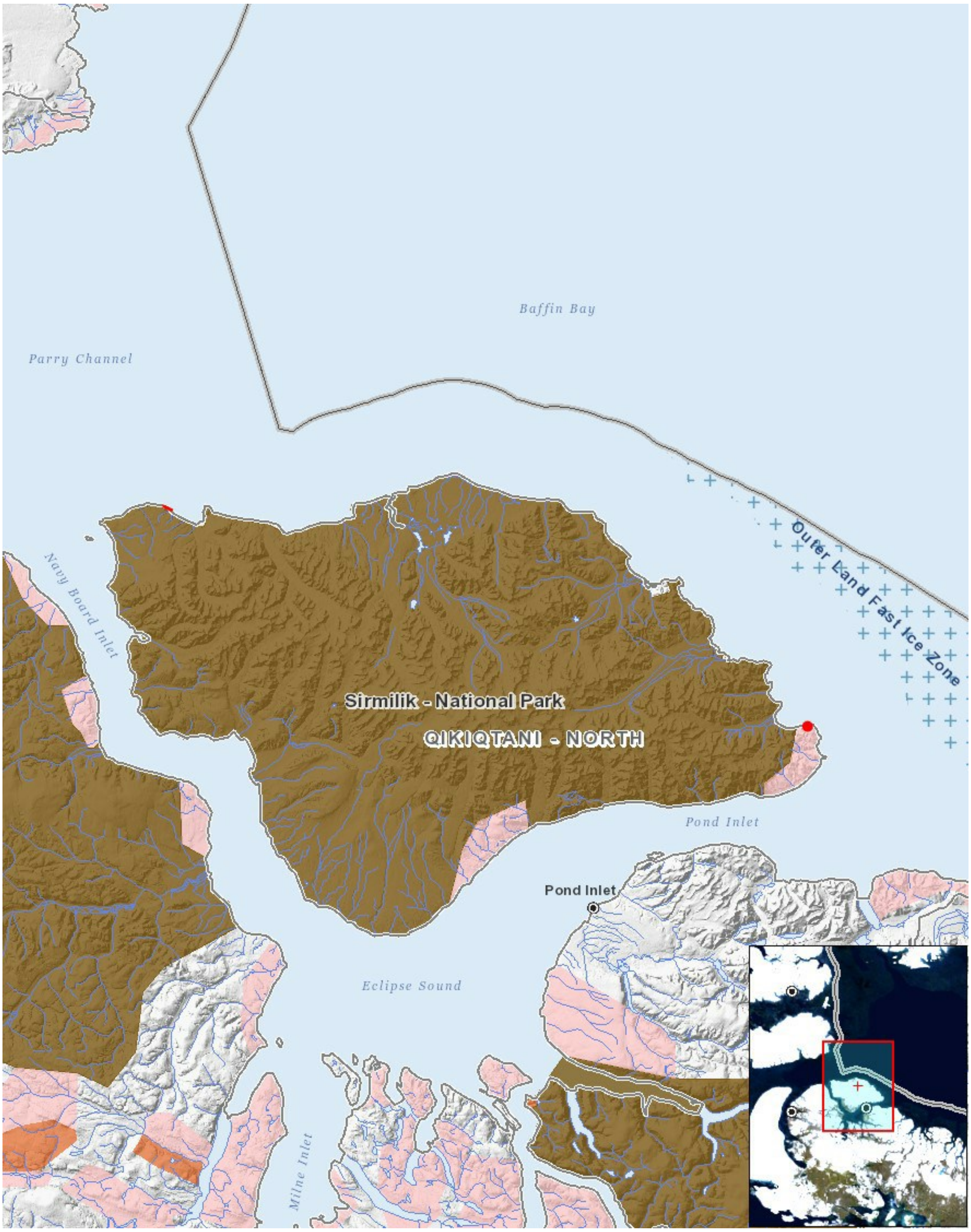
Impacts

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																									
Camp		M	-	-	-	-	-	-	-	M	-	-	M		M	M	M	-	M		-	-	-	-	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

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

Site du projet



Liste des géométries de projet

1	polygon	Cape Hay Colony to survey
2	point	Field Camp Location