



## **Demande de la CNER faisant l'objet d'un examen préalable #125841 OPP 2.0 Baseline Shoreline Mapping**

**Type de demande :** New

**Type de projet:** Scientific Research

**Date de la demande :** 7/20/2023 5:27:29 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: Non-technical Project Summary The overall health of Canada's oceans is strongly influenced by the coastal marine environment. Through the Oceans Protection Plan (OPP), Environment and Climate Change Canada is working to protect, preserve, and restore Canada's marine environment. Under the OPP, our team has been funded to collect baseline shoreline data for oil spill preparedness. The main purpose of the shoreline segmentation process is to collect information to help emergency responders plan and prepare for potential marine pollution incidents. A pre-spill shoreline dataset includes baseline coastal information such as the shoreline type and form, the substrate and vegetation type. •To collect key shoreline information, low-altitude helicopter overflights are conducted at the study sites to capture geotagged video and photos of the shoreline characteristics. •Once the shoreline data is collected, that information is recorded within a GIS database. •Shoreline interpretation is performed by reviewing the oblique videography and geotagged photos. The final product is a detailed vector geodatabase which describes each shoreline segment and its associated intertidal zones. Using shoreline data in environmental response The vector shoreline characterization database can be used to identify environmentally sensitive shoreline types, support a rapid response to pollution incidents, and aid in effective clean-up efforts. By presenting the data on an interactive map, we are aiming to improve decision-making during oil-spill responses. With the inclusion of information from satellite and drone imagery, we hope to provide broader coverage of Canadian shorelines to support spill response and protect marine ecosystems. Beyond supporting oil spill response, datasets and imagery have been used by local communities and environmental managers for project planning, marine safety & response preparedness, assessment of areas for marine restoration, marine planning, food security, among others. Date(s) and Timing August 15-23, 2023 (Cambridge Bay, NU) Remediation NA – This project will not include any sampling or modification of the landscape. Project Alternatives The remote and vast Canadian shoreline has made shoreline mapping via helicopter and manual techniques sometimes challenging. As a result, a Canada-wide shoreline classification has never been completed for the entire country. This represents a major information gap, and risk for oil spill risk preparedness. Newer, high-resolution satellite imagery offers a good opportunity to start exploring options for coast-wide shoreline mapping and classification. As an alternative to helicopter mapping, we will be developing shoreline classification methodologies using a variety of remote sensing technologies. This includes high resolution satellite imagery, as well as very high-resolution drone imagery. We would like to compare remote sensing techniques to helicopter methods to determine if remote sensing methods will prove to be as reliable, and informative as helicopter methods.

Français: La santé globale des océans du Canada est fortement influencée par l'environnement marin côtier. Dans le cadre du Plan de protection des océans (PPO), Environnement et Changement climatique Canada s'efforce de protéger, de préserver et de restaurer l'environnement marin du Canada. Dans le cadre du PPO, notre équipe a été financée pour collecter des données de base sur le littoral en vue de la préparation aux déversements d'hydrocarbures. L'objectif principal du processus de segmentation du littoral est de collecter des informations pour aider les intervenants d'urgence à planifier et à se préparer à d'éventuels incidents de pollution marine. Un ensemble de données sur le littoral avant la marée noire comprend des informations côtières de base telles que le type et la forme du littoral, le substrat et le type de végétation. •Pour recueillir les principales informations sur le littoral, des survols en hélicoptère à basse altitude sont effectués sur les sites d'étude afin de capturer des vidéos et des photos géolocalisées des caractéristiques du littoral. •Une fois les données recueillies, elles sont enregistrées dans une base de données SIG. •L'interprétation du trait de côte est réalisée en examinant la vidéographie oblique et les photos géolocalisées. Le produit final est une géodatabase vectorielle détaillée qui décrit chaque segment du littoral et les zones intertidales qui lui sont associées. Utilisation des données sur le littoral dans le cadre d'une intervention environnementale La base de données vectorielle de caractérisation du littoral peut être utilisée pour identifier les types de littoraux sensibles du point de vue de l'environnement, soutenir une réponse rapide aux incidents de pollution et contribuer à l'efficacité des efforts de nettoyage. En présentant les données sur une carte interactive, nous visons à améliorer la prise de décision lors des interventions en cas de déversement d'hydrocarbures. Avec l'inclusion d'informations provenant d'images satellites et de drones, nous espérons fournir une couverture plus large des littoraux canadiens afin de soutenir les interventions en cas de déversement et de protéger les écosystèmes marins. Au-delà de l'intervention en cas de déversement d'hydrocarbures, les ensembles de données et l'imagerie ont été utilisés par les communautés locales et les gestionnaires de l'environnement pour la planification de projets, la préparation à la sécurité et à l'intervention en mer, l'évaluation des zones de restauration marine, la planification marine, la sécurité alimentaire, entre autres. Date(s) et calendrier Du 15 au 23 août 2023 (Cambridge Bay, NU) Remédiation NA - Ce projet ne comprendra pas d'échantillonnage ni de modification du paysage. Alternatives au projet L'éloignement et l'étendue du littoral canadien ont rendu difficile la cartographie du littoral par hélicoptère et par des techniques manuelles. Par conséquent, il n'y a jamais eu de classification du littoral à l'échelle du Canada pour l'ensemble du pays. Il s'agit d'une lacune importante en matière d'information et d'un risque pour la préparation à la lutte contre les déversements d'hydrocarbures. L'imagerie satellitaire récente et à haute résolution offre une bonne occasion de

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## **Personnel**

Personnel on site: 2

Days on site: 10

Total Person days: 20

Operations Phase: from 2023-08-10 to 2023-09-25

## 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
Area around Cambridge Bay (This polygon shows the approx. extent of the mapping area) This mapping work will be based out of Cambridge Bay . (Timing - August 15-23, 2023)	Aerial surveys	Inuit Owned Surface Lands	na	na	Proximity to nearest communities: Cambridge Bay. Proximity to nearest protected areas: Queen Maud Gulf MBS.
Area around Cambridge Bay (This polygon shows the approx. extent of the mapping area) This mapping work will be based out of Cambridge Bay . (Timing - August 15-23, 2023)	Aerial surveys	Crown	Na	Na	Proximity to nearest communities: Cambridge Bay. Proximity to nearest protected areas: Queen Maud Gulf MBS.

### Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Cambridge Bay	Ivorson Maksagak	EHTO	2023-07-14

## Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Kitikmeot  
North Baffin

### Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Service canadien de la faune	Asked for permission/permit to fly past Queen Maud MBS to capture geotagged videos and photos. CWS determined that I did not need to obtain a permit given that I am flying a distance from shore and not landing in the protected areas.	Active	2023-06-23	
Kitikmeot Inuit Association	Seeking permission to place one fuel cache on Inuit owned lands. Fuel cache will allow the helicopter to refuel during helicopter surveys.	Applied, Decision Pending		
Institut de recherche du Nunavut	Application submitted for a scientific research license to conduct shoreline videography in Nunavut.	Applied, Decision Pending		
Parcs Canada	Parks Canada notified me that I do not require a National Park permit for Simirlik National Park as I will not be landing in the park. They provided me with some flight guidelines for flying over the park.	Active	2023-03-30	
Affaires autochtones et Développement du Nord Canada	CIRNAC - Lands administration office. Permission to cache fuel on crown lands.	Active	2023-05-04	

### Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	Low-altitude helicopter flights	

### Project accomodation types

Collectivité

Autre,

## 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	20 X 8	To collect key shoreline information and establish a shoreline database, low-altitude helicopter overflights (approximately 60-70 knots, 200-300 feet elevation above the water, and 300ft off the shoreline) are conducted at the study site to capture video of the shoreline characteristics.
Video camera	1	24 x 6	Video camera on a gimbal to collect geotagged videos.
Camera	1	6 x 4	Digital camera to collect geotagged photos.
GPS	2	2 x 3	GPS to record our flight path.
Tough book tablet	1	4 x 6	Toughbook tablet to display map and to record our flight path.

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	0	208	0	Liters	Access to bulk aviation fuel from the Cambridge Bay Airport.
Aviation fuel	fuel	12	208	2496	Liters	We have applied to the Polar Continental Shelf Program for logistical research support in the Arctic. They have proposed one-two fuel caches with 6 drums max each south of Cambridge Bay near Kent Peninsula. Planned removal of drums by August 27th, 2023.

Consommation d'eau

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

## Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Waste disposal	Other, Food and domestic wastes	5lbs	Disposal in such a manner to always avoid release into the environment and access to wildlife. Anything we bring in, we will pack out with us and dispose of properly at an approved facility.	NA

### Répercussions environnementales :

We anticipate the low-altitude helicopter overflight will have a relatively low potential impact of wildlife and the environment. Wildlife may be impacted by: Noise, sudden movements, physical contact with helicopter (unlikely). Anticipated wildlife impact may include: brief periods of alertness while maintaining activities, animals may watch the aircraft, minor changes in animals existing travel speeds, methods and routes, and no change in animal group size or movements. Some moderate impacts might include flight to escape terrain, or flocks of birds taking flights or other changes in animal behavior. Mitigation measures: - Prior to initiation, identify and map sensitive sites (such as breeding, nesting, calving, migration) so we are aware of their location. - Seasonally (mid May-mid-July) avoid caribou birthing/rearing habitats by limiting helicopter flights altitudes to a minimum of 400m above the ground. - Select particular routes, heli-pads, heli-spots for all helicopter activities to avoid caribou birthing/rearing areas. - Avoid landing sites on or near critical seasonal caribou habitats. - No circling above wildlife if spotted. - Avoid bear feeding sites, by limiting helicopter flights altitudes to a minimum of 400m above the ground and avoid general bear habitat by limiting helicopter flights altitudes to a minimum of 200m above the ground. - Limiting helicopter overflights to a minimum of 400m above the ground in areas around waterfowl and shorebirds, and no circling over wetlands and flocks of birds. - Utilizing existing airstrips or using existing disturbed areas for helicopter takeoff and landings. - Predetermine suitable flight routes to: maintain avoidance distance, visual screening and reduced frequency of flights near critical areas. - Identify suitable landing sites in advance. - Plan fieldwork outside of calving/nesting/birthing season. - Convey the mitigation measures to all staff.

# **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**

We will be planning to map part of the coastline of one Migratory Bird Sanctuary (please note that we connected CWS about permits). We will be flying past the coast of Queen Maud Gulf MBS.

### **Description de l'environnement existant : Environnement biologique**

We will be planning to map the coastline of one Migratory Bird Sanctuaries. We will be flying past the coast of Queen Maud Gulf MBS. The sanctuary is important not only for geese, but also for the many other species of migratory birds and wildlife that it supports. Queen Maud Gulf (Ahiak) Migratory Bird Sanctuary encompasses the most extensive wetlands in the central Arctic, which provide essential habitat for over 1% of the global white geese population. Over 2 million white geese nest within the sanctuary. This includes over 90% of the world's Ross's goose population and 8% of the Canadian snow goose population (including over 30% of the western Canadian arctic lesser snow goose population). The sanctuary also supports smaller populations of nesting and moulting Canada goose, greater white-fronted goose, brant and tundra swan. The geese arrive in the sanctuary in late May to moult in the inland lakes and rivers; remaining until late August or early September when they leave the area. This sanctuary is also important for many other species of migratory birds - from waterbirds and waterfowl to shorebirds and landbirds. Other species of migratory birds that breed in the sanctuary include: •long-tailed duck•king eider•American golden-plover•semipalmated plover•pectoral sandpiper•dunlin•semipalmated sandpiper•red phalarope•glaucous gull•herring gull•arctic tern•pacific loon•red-throated loon•parasitic jaeger•long-tailed jaeger•common redpoll•lapland longspur•savannah sparrow•peregrine falcon•rough-legged hawk•snowy owl. Several species listed under the federal Species at Risk Act either breed within or utilize the sanctuary, including the barren-ground caribou (dolphin and union population), peregrine falcon and red knot (rufa subspecies). The entirety of the sanctuary is used by the barren-ground caribou (beverly ahiak herd) as part of its traditional calving grounds. It also supports an estimated 6000 muskoxen and is believed to be the original stock for most of the present-day mainland muskoxen. These ungulate herds, and the vast open habitat, also support substantial populations of predators like wolves, grizzly bears, foxes and wolverines. The most abundant marine animals in the area are the ringed seals that spend their time in the offshore waters, while the sanctuary's numerous lakes, ponds and rivers are home to several species of fish. The most abundant of these is the arctic char. Source: <https://www.canada.ca/en/environment-climate-change/services/migratory-bird-sanctuaries/locations/queen-maud-gulf-ahiak.html>

### **Description de l'environnement existant : Environnement socio-économique**

This work will be taking place in and around the Coronation Gulf/Bathurst Inlet/QMG area. The nearest community is Cambridge Bay. We anticipate that the overall impact of this work will be positive on the socioeconomic environment as it will equip communities with resources/information about the coastline to support decisions about shoreline management during an environmental emergency.

### **Miscellaneous Project Information**

## Identification des répercussions et mesures d'atténuation proposées

The helicopter does a single pass along the shoreline and moves along the coast. We typically fly at 110km an hour, so we pass by sites fairly quickly, reducing and limiting impact to the wildlife present. We anticipate the low-altitude helicopter overflight will have a relatively low potential impact of wildlife and the environment. Wildlife may be impacted by: Noise, sudden movements, physical contact with helicopter (unlikely). Anticipated wildlife impact may include: brief periods of alertness while maintaining activities, animals may watch the aircraft, minor changes in animals existing travel speeds, methods and routes, and no change in animal group size or movements. Some moderate impacts might include flight to escape terrain, or flocks of birds taking flights or other changes in animal behavior. As we are doing a single pass in the helicopter, past the coastline, we do NOT anticipate the single flight having an impact on changes in animal activity periods, change in animal bedding and feeding areas, lower productivity or abandonment of preferred habitats. Aircraft are noisy machines that travel at high speed with the ability to approach wildlife closely. All aircraft approaches will invoke some kind of reaction from animals. It is difficult to assess the impact of short-term reaction on populations, productivity and habitat use. Helicopters are also associated with rotor downwash and brownouts: high velocity wind vortices are generated by helicopter blades when the machine is hovering above a runway or bushland. This generates blankets of airborne dust particles, reduces habitat values and exposes vegetation and wildlife to lethal wind velocities. Direct physical damage such as to hearing or vegetation being shredded by rotor downwash. Mitigation measures: -Prior to initiation, identify and map sensitive sites (such as breeding, nesting, calving, migration) so we are aware of their location. -Seasonally (mid May-mid-July) avoid caribou birthing/rearing habitats by limiting helicopter flights altitudes to a minimum of 400m above the ground. -Select particular routes, heli-pads, heli-spots for all helicopter activities to avoid caribou birthing/rearing areas. -Avoid landing sites on or near critical seasonal caribou habitats. -No circling above wildlife if spotted. -Avoid bear feeding sites, by limiting helicopter flights altitudes to a minimum of 400m above the ground and avoid general bear habitat by limiting helicopter flights altitudes to a minimum of 200m above the ground. -Limiting helicopter overflights to a minimum of 400m above the ground in areas around waterfowl and shorebirds, and no circling over wetlands and flocks of birds. -Utilizing existing airstrips or using existing disturbed areas for helicopter takeoff and landings. -Predetermine suitable flight routes to: maintain avoidance distance, visual screening and reduced frequency of flights near critical areas. -Identify suitable landing sites in advance. -Plan fieldwork outside of calving/nesting/birthing season. -Convey the mitigation measures to all staff.

## Répercussions cumulatives

Disturbance for wildlife is an additive effect. While the occasional disturbance may be of limited short-term impact (such as this shoreline mapping project), each successive disturbance (other projects in the area) can escalate the impact. The duration of disturbances can be of escalating importance. Wildlife initial response to disturbance is to flee to a secure area, so the ability to have a security area available where there is no disturbance is crucial for mitigation for short-term and long-term impacts. The following may be considered to mitigate cumulative impacts: -Where aircraft operations impact wildlife, impacts should be restricted to a minority of their habitat use areas. -For anticipated cumulative impacts, consider implementing protocols can which can identify: oOnly one flight path to be used. oHelicopter will not standby in or around higher elevation habitats oWhere possible flight paths will be restricted to lower elevation corridors oIn the event of an emergency situation, helicopter access with no restrictions will be permitted oAircraft meeting stricter noise standards be allowed to fly in a special incentive corridor.

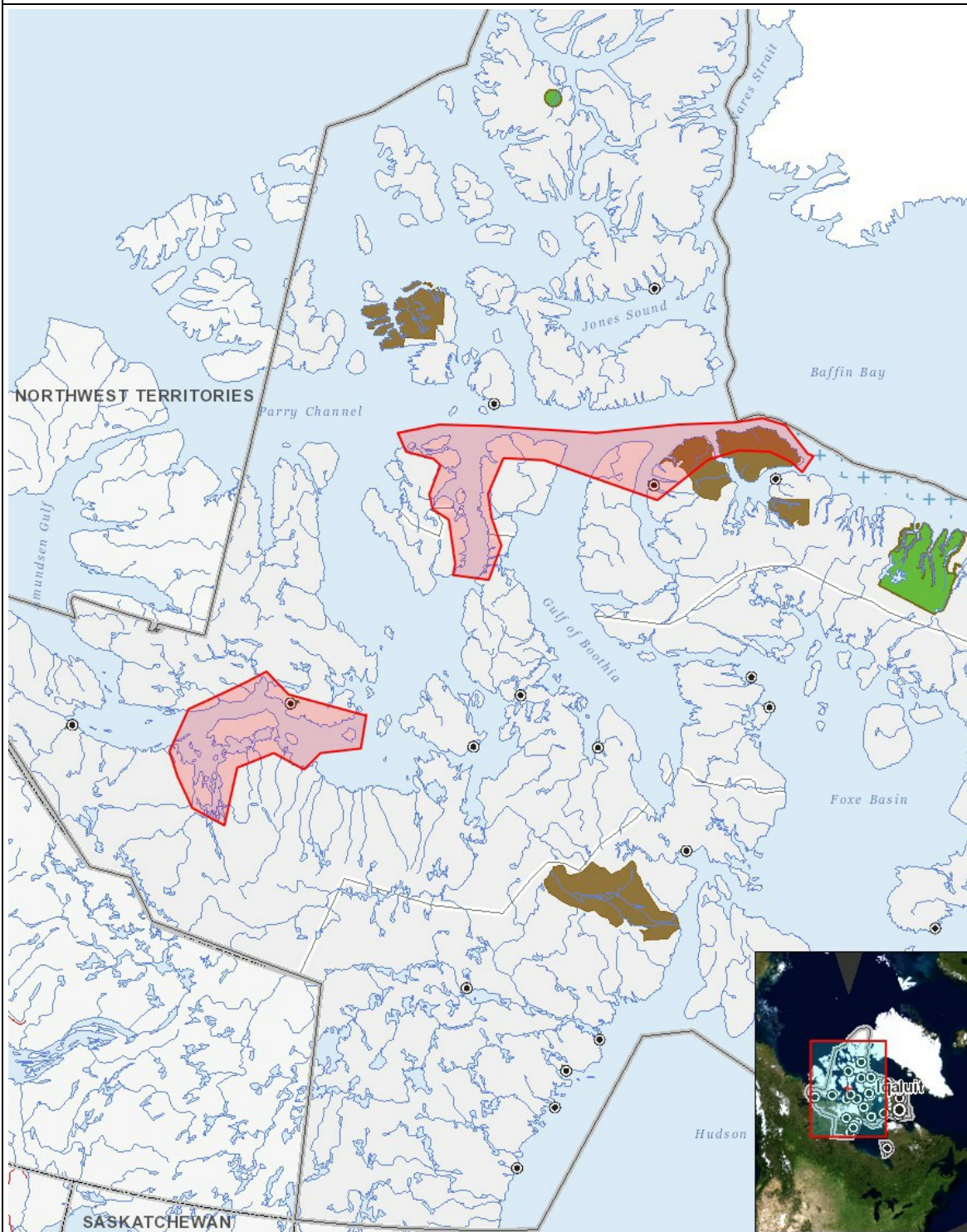
Impacts

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																										
Aerial surveys		-	-	-	-	-	-	-	-	-	-	-	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 Southern Coastline of Lancaster Sound (This polygon shows the approx. extent of the mapping area) This mapping work will be performed from a Canadian Coast Guard vessel. (Timing - Sept 7-13, 2023)
- 2 polygon Area around Cambridge Bay (This polygon shows the approx. extent of the mapping area) This mapping work will be based out of Cambridge Bay. (Timing - August 15-23, 2023)