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Kitikmeot  
North Baffin

## ᑕᐃᖃᑦᑦ ᐱᐱᑦᐅᑦ ᐃᖅᑦᑕᐅᑦᑕᑦ

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ᑕᑦᑕᑦ ᑕᑦᑕᑦᑕᑦ	permit for Migratory Bird Sanctuary and National Wildlife Areas	Applied, Decision Pending		
ᑕᑦᑕᑦ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	Inuit Land Use Permit	Applied, Decision Pending		
ᑕᑦᑕᑦ ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	collection permit and land use access for Qausuittuq National Park	Applied, Decision Pending		
ᑕᑦᑕᑦ ᑕᑦᑕᑦᑕᑦ, ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	wildlife research permit	Not Yet Applied		

### Project transportation types

Transportation Type	ᑕᑦᑕᑦᑕᑦᑕᑦᑕᑦ	Length of Use
Air	1-3 helicopters for research survey work to sample polar bears on sea ice	

### Project accomodation types

Temporary Camp

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		and we use the generator for camp use
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Propane	fuel	2	100	200	Lbs	we will be using the propane for cooking in our camps through the April - June field season. Likely only need 1 per season for only 2 camps (camp duration is usually 2-3 weeks depending on weather)
Gasoline	fuel	12	5	60	Gallons	if we decide to stay in camps we need the fuel for the generators to maintain camp electricity and the helicopter; if there are 2-3 camps we need about 3-4 jerry cans per camp for 2-3 weeks each.
Aviation fuel	fuel	280	205	57400	Liters	this fuel is spread throughout the study area in several fuel cache locations with number of drums ranging from 5 to 12; it is

						used for our polar bear survey so we can continue searching for bears effectively.
Diesel	fuel	2	205	410	Liters	if we stay at pre-existing camps we will use the diesel as heating fuel to keep the cabin warm and operational for the crew of 4 person per helicopter.

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0	we are not using water because the work is between April and June; we will be using snow and ice; we are only using snow and ice IF we are staying at established camps and if that is feasible;	collecting snow and/or ice for use for the 4 people per camp that are present there for 7-12d, if that is being considered to be feasible



# **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**

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Our project activities consist of flying above the sea ice at various altitudes depending on when we ferry or when we search for and sample polar bears. No geomorphology or any other features are affected by our activities because there is no construction and nothing that will be moved or touched in the environment. We are operating near National Wildlife Areas (Nirjutiqarvik NWA and the Polar Bear Pass NWA, and a National Park [Qausuittuq NP; permits applied] but the prime activity during our research is between April and June when most of these areas are still covered in snow and ice. Most bears will be on the sea ice hunting so we will spend the majority of our time on the sea ice. However, in order to be able to determine if bears are using some land or island areas we will have sporadic flights over islands that are within our study area. When we fly over these land masses it will be for a short and brief moment throughout our study period, likely only minutes to 1-2 hours per study period. All other work is done on the ice. Our cached fuel is anticipated to be stored at locations that have been determined to be good locations where they can be easily removed after the work is done; all locations have been determined under cooperation of Polar Continental Shelf Program who will assist in deploying fuel. If there are concerns that perhaps wildlife is still present during the planned fall fuel caching we can be flexible and cache all other locations first, and cache areas of possible concern during the spring when no birds are present. Our methods to search for polar bears and to sample bears have been approved in the past by animal care committees (application in process) and are standard accepted methods to conduct field work; these methods have also been agreed upon in the past by Nunavut communities for some of our projects. The process here has been offset because of the COVID-19 scenario where we did not have a chance yet to present the methods to the communities, and we did not have a chance to engage the HTO where we are seeking local knowledge to supplement our methodology. As soon as we can travel and the communities are welcoming us we will commit to consultation meetings or conference calls to inform all involved.

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As mentioned above our field work will be conducted during the ice period (April to June) where the length is weather-dependent. The primary species that is listed under SARA and that we are dealing with will be polar bears - to examine their abundance and well-being is the purpose of our study so that this information can be used for national assessments that feed into SARA. There might be camping or hunting areas being used while we survey during spring; in order to avoid possible conflict we will discuss the details with the affected HTOs so that we not interfere with local harvesters. Should there be anything else of concern we will take their advice and address their concerns. In addition we will have local participation for this project so that we are obtaining first-hand information of where possible concern areas exist that we should avoid or re-schedule for surveying.

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# Impacts

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	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
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Fuel and chemical storage		-	-	-	-	-	-	-	-	-	-	-	-		M	N	-	N			-	-	-	-	-
Researching		M	-	-	-	-	-	-	-	-	-	M			M	-	-	M			-	P	-	-	-
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List of Project Geometries

- 1 polyline rough outline of the Lancaster Sound polar bear subpopulation boundary which is our study area

