



NIRB Application for Screening #125611

Muskox (*Ovibos moschatus*) distribution and abundance of Central Mainland, Nunavut (MX11)

Application Type: New

Project Type: Scientific Research

Application Date: 5/3/2021 10:34:51 PM

Period of operation: from 0001-01-01 to 0001-01-01

Proposed Authorization: from 0001-01-01 to 0001-01-01

Project Proponent: Lisa Marie Leclerc
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DETAILS

Non-technical project proposal description

English: See project document

French: See project document

Inuktitut: See project document

Inuinnaqtun: See project document

Personnel

Personnel on site: 0

Days on site: 20

Total Person days: 0

Operations Phase: from 2021-06-27 to 2021-09-12

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
New project geometry	Aerial surveys	Crown	N/a	N/a	This project takes place over the outpost camps of Bay Chimo and Bathurst Inlet and the team will be positioned in Cambridge Bay and Kugluktuk. During the project, the survey plane will enter the airspace of the Queen Maud Gulf Bird Sanctuary. There is no landing planned in the Sanctuary.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Cambridge Bay	Beverly Maksagak	Hunters and Trappers Organization	2021-01-12
Kugluktuk	Amanda Dumond	Hunters and Trappers Organization	2021-01-12
Gjoa Haven	Eruk Pauloosie	Hunters and Trapper Organization	2021-04-13

Authorizations

Indicate the areas in which the project is located:

Transboundary
Kitikmeot

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Canadian Wildlife Service	CWS permit was submitted in February 2021	Applied, Decision Pending	2021-02-24	
Government of Nunavut, Department of Environment	Permit granted- permit number 2021-34	Active	2021-03-05	2021-12-15

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	fixed-wing	

Project accomodation types

Community

Material Use

Equipment to be used (including drills, pumps, aircraft, vehicles, etc)

Equipment Type	Quantity	Size - Dimensions	Proposed Use
n/a	0	0	0

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Aviation fuel	fuel	0	0	0	Gallons	Fueling of the aircraft will be done mainly in Kugluktuk and Cambridge Bay. Pending in-kind support, landing and refueling might take place at TMAC and Sabina. No fuel cache will be done for this project.
n/a	hazardous	0	0	0	Gallons	n/a

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
0		

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Aerial surveys	Combustible wastes	zero liter	none applicable	none applicable

Environmental Impacts:

The muskox survey will commence in mid-July, with the survey area occurring within the QMGS in early August. We will be flying at approximately 150m above the ground with an airspeed of approximately 160kms/hour. This could have a small impact on local wildlife as the aircraft flies overhead, but the wildlife will not be disturbed any further once the area has been surveyed. In the sanctuary, the survey there should be completed between 2 and 5 full days (depending on weather). The percentage of coverage will be adjusted to known muskox distribution, keeping the number of km flown low and the spacing between transect lines wider, where possible, to limit disturbance. In this case, most of the area to be surveyed in the QMGS will overlap with the dark blue strata shown in Figure 1, which is at a low coverage density of 10%. In addition, the timing of the survey has been selected to minimize overlap with the peak of the breeding bird season in June and July.

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 of Existing Environment: Physical Environment

Description of Existing Environment: Biological Environment

Description of Existing Environment: Socio-economic Environment

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Cumulative Effects

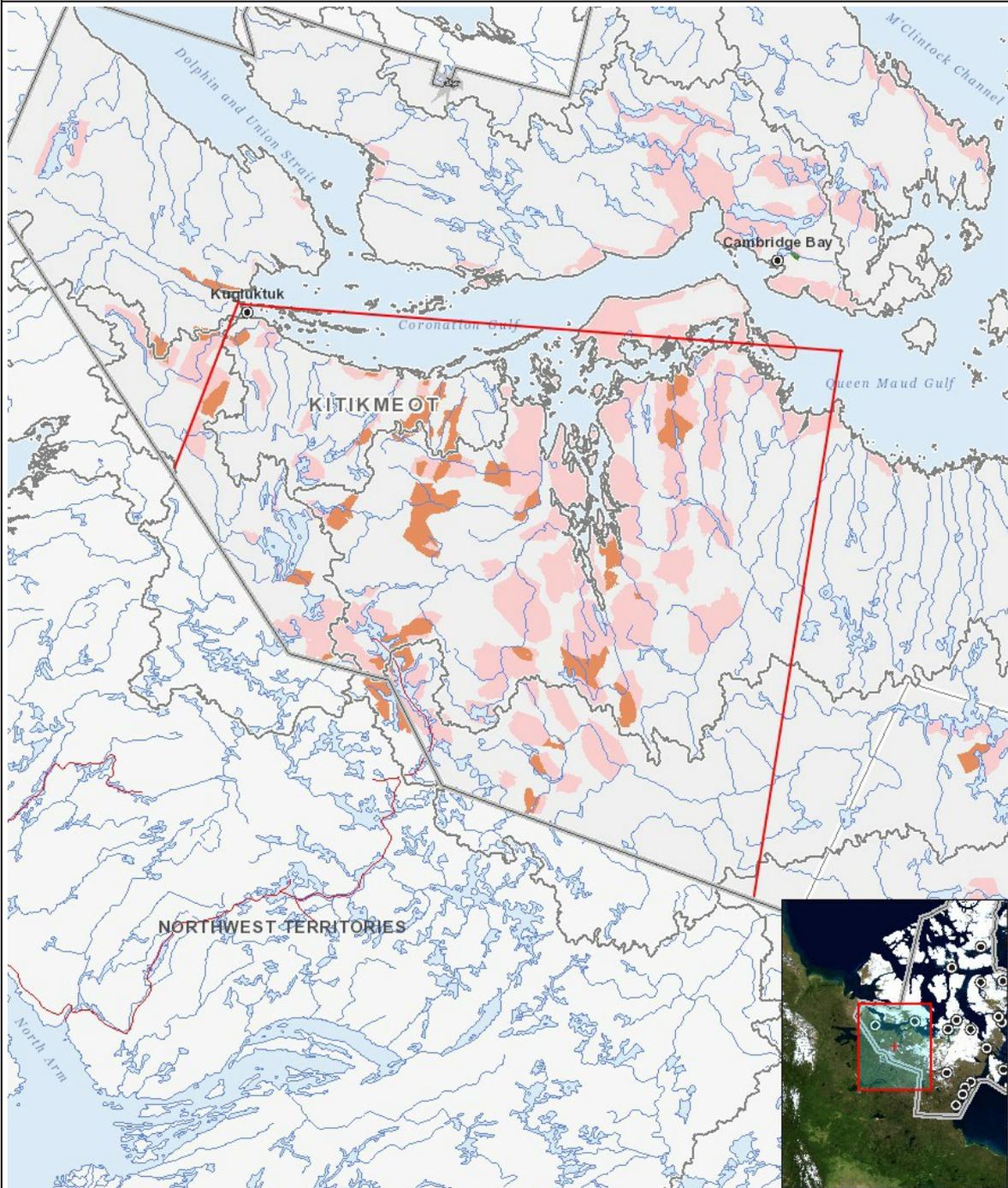
Impacts

Identification of Environmental Impacts

	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																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Operation																									
Aerial surveys	-	-	-	-	-	-	-	-	-	-	-	N	-	-	N	N	-	N	-	-	P	P	-	-	-
Decommissioning																									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

Project Location



List of Project Geometries

1	polygon	New project geometry
2	polygon	New project geometry
3	polygon	New project geometry