



NIRB Application for Screening #125552

Tallurutiup Imanga Underwater Noise Baseline Pilot

Application Type: New

Project Type: Scientific Research

Application Date: 7/30/2020 9:54:48 AM

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

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

Project Proponent: Clare Kines
Parks Canada Agency
Box 73
Arctic Bay NU X0A 0A0
Canada
Phone Number:: 867-324-0124, Fax Number::

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
Area within Hydrophone #1 will be placed. Adam's Sound, approaches to Arctic Bay	Scientific/International Polar Year Research	Marine	Site is a marine area, within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.	none	Within the traditional use area of Arctic Bay, at the mouth of Adam's Sound. It is within Tallurutiup Imanga National Marine Conservation Area.
Area within Hydrophone #2 will be placed. Strathcona Sound, approaches to Nanisivik	Scientific/International Polar Year Research	Marine	Site is a marine area, within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.	none	Within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.
Area within Hydrophone #3 will be placed. Kakiak Point area, important location for Arctic Bay	Scientific/International Polar Year Research	Marine	Site is a marine area, within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.	none	Within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.
Alternate location for an area within Hydrophone #3 will be placed.	Scientific/International Polar Year Research	Marine	Site is a marine area, within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.	none	Within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.
Area within Hydrophone #4 will be placed. Admiralty Inlet, waters around Yeoman Island.	Scientific/International Polar Year Research	Marine	Site is a marine area, within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.	none	Within the traditional use area of Arctic Bay. It is within Tallurutiup Imanga National Marine Conservation Area.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Arctic Bay	Debbie Johnson, SAO	Hamlet of Arctic Bay	2020-07-14
Arctic Bay	Dorothy Oyukuluk, Manager	Ikajutit Hunters and Trappers Organization	2020-07-14

Authorizations

Indicate the areas in which the project is located:

North Baffin

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Research Institute	Licence to conduct research	Not Yet Applied		

Project transportation types

Transportation Type	Proposed Use	Length of Use
Water	28 or 27 foot Aluminum boat with outboard motors, or similar	

Project accommodation types

Community

Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Hydrophone Micro Aural	4	Diameter: 8 cm (3 in) - Length: 45 cm (18 in.) - Air weight: 6 lbs. - Water Weight: 2 lbs.	Collecting data (underwater noise recordings). Moored either with a surface buoy (vinyl fishing float 12 inch diameter or less and anchor, or a subsurface buoy and acoustic release.
Acoustic Release - Vemco Ascent	4	Diameter: 81mm (3 in) – Length: 465mm (18 in) – Air weight: 6 lbs. – water weight – 1.75 lbs.	Recovery of hydrophone if subsurface mooring is used.

Detail Fuel and Hazardous Material Use

Detail fuel material use:	Fuel Type	Number of containers	Container Capacity	Total Amount	Units	Proposed Use
Gasoline	fuel	1	364	364	Liters	Fuel for boat. None cached. Fuel within boat's fuel tanks only.

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
Information is not available				

Environmental Impacts:

Environmental Impacts will be minimal. Where a subsurface mooring will be used, for the hydrophones, an anchor consisting of local rock, a metal sleeve, stainless steel eyebolt, and the lug from the acoustic release, will be left on the ocean floor. It is expected to have no impact on wildlife, or navigation.

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

A 27-28 foot aluminum boat (or similar) powered by outboards will be used to deploy and recover the hydrophones. No overnight stays are anticipated

SECTION H2: Disposal At Sea

none.

SECTION I1: Municipal Development

Description of Existing Environment: Physical Environment

Typical Arctic Marine Environment

Description of Existing Environment: Biological Environment

Typical Arctic Marine flora and fauna

Description of Existing Environment: Socio-economic Environment

Study area is within the community of Arctic Bay's traditional use area.

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

Impacts will be minimal. Where a subsurface mooring is used for the hydrophones an anchor, consisting of local rock, a metal sleeve, stainless steel eyebolt, and the lug from the acoustic release, will be left on the ocean floor. It should have no impact on local wildlife.

Cumulative Effects

n/a

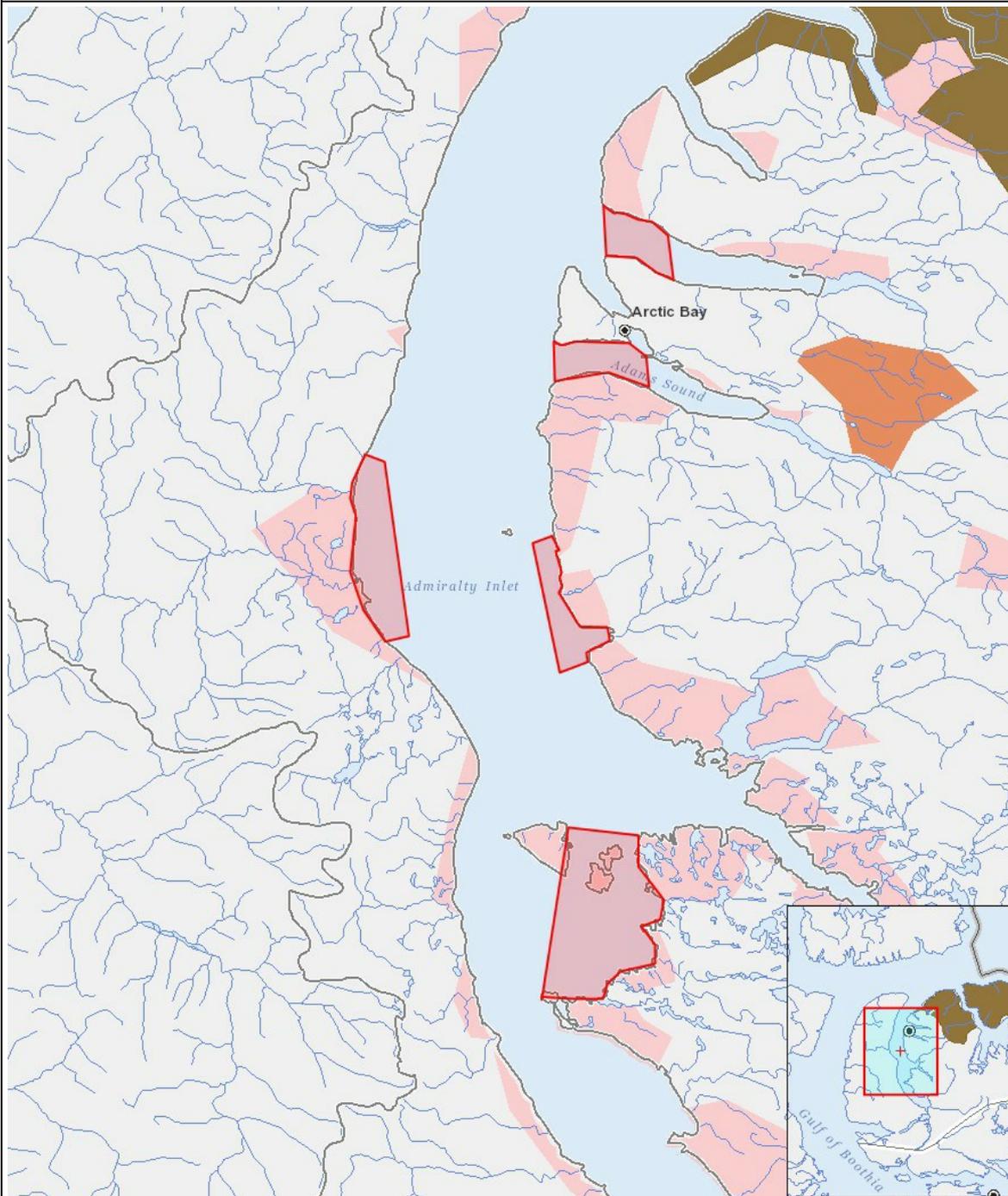
Impacts

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																									
Scientific/International Polar Year Research			P	-	-	-	-	-	-	-	-	-	-	P		-	-	-	-	P		-	-	-	-
Decommissioning																									
-			-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-

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

Project Location



List of Project Geometries

- 1 polygon Area within Hydrophone #1 will be placed. Adam's Sound, approaches to Arctic Bay
- 2 polygon Area within Hydrophone #2 will be placed. Strathcona Sound, approaches to Nanisivik
- 3 polygon Area within Hydrophone #3 will be placed. Kakiak Point area, important location for Arctic Bay
- 4 polygon Alternate location for an area within Hydrophone #3 will be placed.
- 5 polygon Area within Hydrophone #4 will be placed. Admiralty Inlet, waters around Yeoman Island.