



NIRB Application for Screening #125416

CAM-3, Shepherd Bay Water Use Licence Renewal

Application Type: New

Project Type: Defence

Application Date: 10/29/2018 1:36:39 PM

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

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

Project Proponent: Jeremy Laflamme
DND
455 Boulevard de la Carriere
Gatineau Quebec J8Y 6V7
Canada
Phone Number:: 8199394934, Fax Number::

Activities

Location	Activity Type	Land Status	Site history	Site archaeological or paleontological value	Proximity to the nearest communities and any protected areas
CAM-3 Site	Site Cleanup/Remediation	Crown	CAM-3 was built in the 1950s as one of the Distant Early Warning Line (DEW Line). In the 1980s, the DEW Line in Canada evolved into the North Warning System (NWS). CAM-3 was modernized as part of this transition. On 31 August 1995, the site changed from manned to unmanned status. Over the years, the Prime Mission of the radar sites remains unchanged: to detect airborne objects within the Arctic surveillance area.	No archaeological sites within boundaries of work areas (landfills), camp area (airstrip) or site roads.	The closest communities to CAM-3 are: 1. Taloyoak, 82 km north; 2. Gjoa Haven, 100 km west; and 3. Cambridge Bay, 467 km west. Flight time is 2 hours and 40 minutes by helicopter in normal conditions.

Community Involvement & Regional Benefits

Community	Name	Organization	Date Contacted
Information is not available			

Authorizations

Indicate the areas in which the project is located:

Kitikmeot

Authorizations

Regulatory Authority	Authorization Description	Current Status	Date Issued / Applied	Expiry Date
Nunavut Water Board	Water Licence 3BC-SHE-0919	Active	2009-09-10	2019-08-31
Nunavut Water Board	Water Licence number to be determined. This licence is to replace 3BC-SHE-0919. Dates are estimates only.	Not Yet Applied	2019-03-31	2029-03-31

Project transportation types

Transportation Type	Proposed Use	Length of Use
Air	Transportation to the site for maintenance is by helicopter and fixed wing aircraft	
Water	Transportation of bulk materials, drygoods and fuel is by ship.	
Land	Transportation on-site is by pick-up truck. Heavy equipment is used on-site as required.	

Project accomodation types

Permanent Camp

Other,

Material Use

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

Equipment Type	Quantity	Size - Dimensions	Proposed Use
Grader	1	9.1x2.5x3 m	Road Maintenance
Dozer	1	5.8x3.4x3.6 m	Earthworks, snow clearing
Pickup truck	2	5.8x2x2.4 m	Transportation
Dump Truck	1	3x5x2.7 m	Earth works, moving water in water tank
Mini-excavator	1	3x2.2x1 m	Earth works
ATV	1	1650 lbs	Transportation

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	3	246000	738000	Liters	Site power generation
Aviation fuel	fuel	3	75000	225000	Liters	Site power generation
Aviation fuel	fuel	3	50000	150000	Liters	Aviation
Aviation fuel	fuel	1	4100	4100	Liters	Vehicle refuelling
Oil	hazardous	12	205	2460	Liters	Engine maintenance
Glycol	hazardous	2	205	410	Liters	Site maintenance
Paint	hazardous	1	205	205	Liters	Site maintenance
Batteries	hazardous	1	205	205	Liters	Power generation

Water Consumption

Daily amount (m3)	Proposed water retrieval methods	Proposed water retrieval location
4	Water truck	Water is drawn from the water lake. See attached document Annex Q4 - CAM-3 Site Plan.pdf

Waste

Waste Management

Project Activity	Type of Waste	Projected Amount Generated	Method of Disposal	Additional treatment procedures
Erosion control	Combustible wastes	1000 kg	Municipality of Cambridge Bay Landfill	None
Erosion control	Hazardous waste	25 drums, 2 crates	Licensed Waste HAZMAT Disposal Facility (off-site)	None
Landfarm	Hazardous waste	To be determined	Hydrocarbon impacted soil may be disposed of in a landfarm, if approved.	See attached document Annex A3 - CAM-3 Landfarm Plan.pdf for additional details
Erosion control	Sewage (human waste)	50 m ³	Sump (including greywater)	None

Environmental Impacts:

Potential impact: IF hydrocarbon impacted soil is not properly handled THEN the amount of impacted soil could increase Mitigation: Impacted soil will be handled as described in the attached document Annex A3 - CAM-3 Landfarm Plan regarding construction, operation, environmental control, and closure of the landfarm.

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

The North Warning System Office (NWSO) occasionally has a requirement to remediate spills on-site. Given the effort involved, landfarming impacted soil will only be considered where it is the best option for remediating a spill (e.g. treating the soil from a large spill instead of shipping it off-site for treatment). For details see the attached document Annex A3 - CAM-3 Landfarm Plan.pdf

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

See attached document Annex Q3 - CAM-3 Site Description.pdf

Description of Existing Environment: Biological Environment

See attached document Annex Q3 - CAM-3 Site Description.pdf

Description of Existing Environment: Socio-economic Environment

CAM-3 is a remote site that the Nunavut Planning Commission has identified is outside the area of an applicable land use plan.

Miscellaneous Project Information

Identification of Impacts and Proposed Mitigation Measures

The attached document Annex Q2 - Spill Contingency Plan.pdf includes a risk analysis of spills on the North Warning System (Table 8-1), including the impact, probability, and mitigations.

Cumulative Effects

None identified

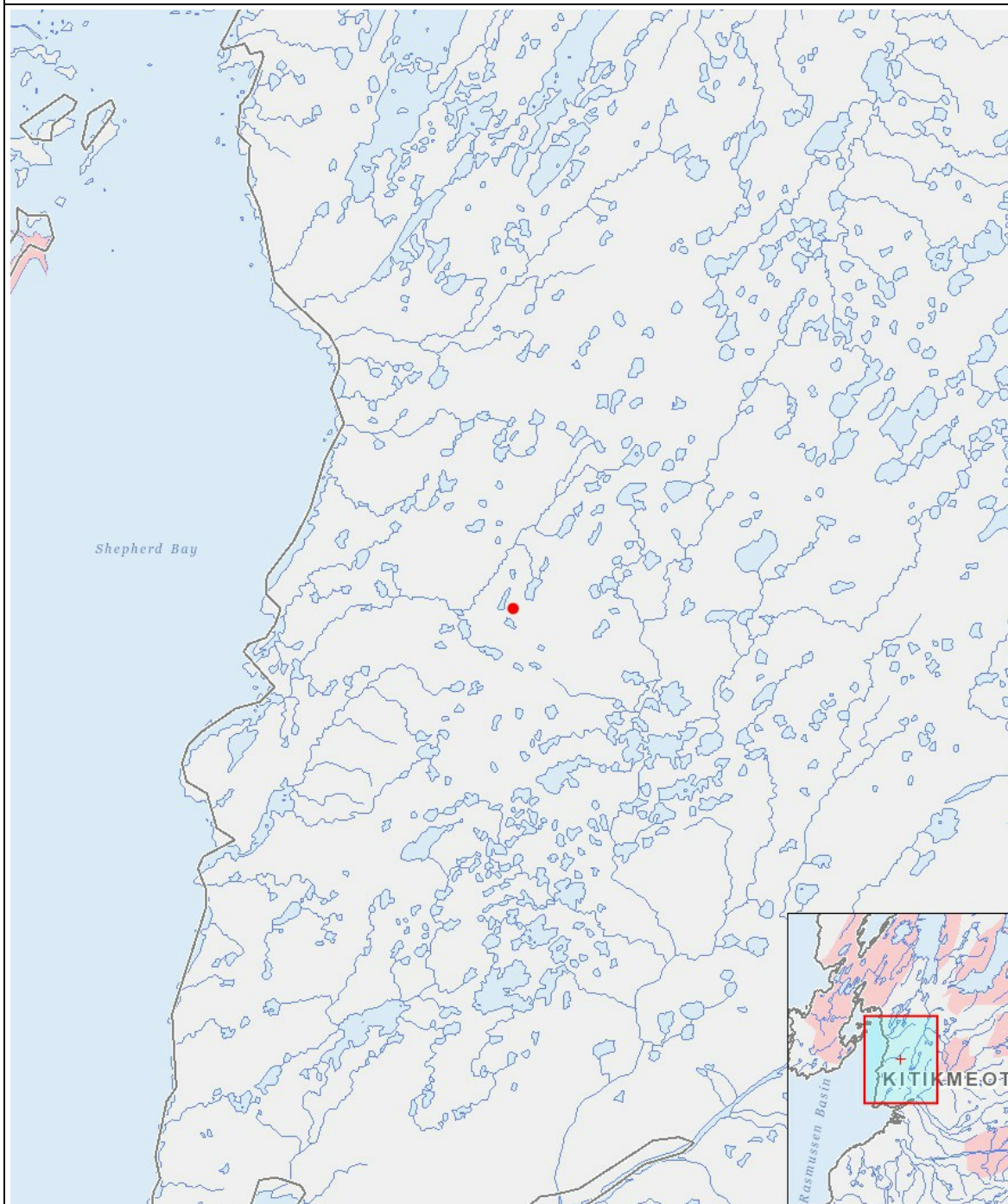
Impacts

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																									
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Operation																									
Site Cleanup/Remediation		-	-	-	-	-	-	-	-	-	N	-	-	-	-	-	-	-	-		-	-	-	-	-
Decommissioning																									
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(P = Positive, N = Negative and non-mitigatable, M = Negative and mitigatable, U = Unknown)

PROJECT MAP



LIST OF PROJECT GEOMETRIES:

1	point	CAM-3 Site
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