



NIRB Application for Screening #125643

BAF-3 Brevoort Island Water Use Licence Amendment 8BC-BAF1929

Application Type: New

Project Type: Other

Application Date: 12/17/2021 2:33:23 PM

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

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

Project Proponent: Alaina Leslie
Raytheon Canada Ltd
Suite 3000, 400 Cooper St
Ottawa ON k2p2h8
Canada
Phone Number:: 6132935868, Fax Number::

Activities

| Location | Activity Type | Land Status | Site history | Site archaeological or paleontological value | Proximity to the nearest communities and any protected areas |
|---------------------------------|---------------|-------------|---|---|--|
| BAF-3 NWS Long Range Radar Site | Other | Crown | Refer to attachment Q3 - BAF-3 Site Description | Refer to attachment Q3 - BAF-3 Site Description | Refer to attachment Q3 - BAF-3 Site Description |

Community Involvement & Regional Benefits

| Community | Name | Organization | Date Contacted |
|------------------------------|------|--------------|----------------|
| Information is not available | | | |

Authorizations

Indicate the areas in which the project is located:

South Baffin

Authorizations

| Regulatory Authority | Authorization Description | Current Status | Date Issued / Applied | Expiry Date |
|----------------------|---------------------------|----------------|-----------------------|-------------|
| Nunavut Water Board | 8BC-BAF1929 TYPE B | Active | 2019-09-01 | 2029-08-01 |

Project transportation types

| Transportation Type | Proposed Use | Length of Use |
|---------------------|----------------------------------|---------------|
| Air | Fixed wing and helicopter access | |

Project accomodation types

Other,

Material Use

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

| Equipment Type | Quantity | Size - Dimensions | Proposed Use |
|----------------|----------|-------------------|---|
| Loader | 1 | 7 x 3.8 x 2.3 m | Earthworks, snow clearing, moving materials |
| Dump truck | 2 | 3 x 5 x 2.7 m | Earthworks, snow clearing |
| Dozer | 1 | 5.8 x 3.4 x 3.6 m | Earthworks, snow clearing |
| Pickup Truck | 2 | 5.8 x 2 x 2.4 m | 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 | 1 | 46000 | 46000 | Liters | Aircraft refuel |
| Aviation fuel | fuel | 1 | 90000 | 90000 | Liters | Vehicle refueling |
| Aviation fuel | fuel | 2 | 50000 | 100000 | Liters | Site Power Generation |
| Aviation fuel | fuel | 10 | 90000 | 900000 | Liters | Site Power generation |
| Aviation fuel | fuel | 1 | 9000 | 9000 | Liters | Site Power Generation |
| Oil (engine oil) | hazardous | 10 | 205 | 2050 | Liters | Site Maintenance |
| Glycol | hazardous | 2 | 205 | 410 | Liters | Site maintenance |
| Paint | hazardous | 1 | 205 | 205 | Liters | Site maintenance |
| Batteries | hazardous | 1 | 205 | 205 | Liters | Site Power generation |

Water Consumption

| Daily amount (m3) | Proposed water retrieval methods | Proposed water retrieval location |
|-------------------|----------------------------------|-----------------------------------|
| 5 | Pipeline | Water Lake |

Waste

Waste Management

| Project Activity | Type of Waste | Projected Amount Generated | Method of Disposal | Additional treatment procedures |
|------------------|----------------------|----------------------------|---|--|
| Other | Combustible wastes | 2600 kg | City of Iqaluit Landfill | Incinerated on-site (ash disposed of in landfill or shipped south) |
| Other | Hazardous waste | 20 Drums, 2 crates | Licensed Waste HAZMAT Facility (off-site) | none |
| Other | Sewage (human waste) | 50 cu. m. | Outfall sump (including greywater) | None |

Environmental Impacts:

Please see attached Spill Contingency Plan (attached as Q2 - PLN-EHS-2 REV 10 Spill Contingency Plan (16.F.3.b)) and the Sewage Disposal Plan (attached as Q4 - PLN-EHS-11 Sewage Disposal Plan) for details.

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

See the attached Q3 - BAF-3 Site Description

Description of Existing Environment: Biological Environment

See the attached Q3 - BAF-3 Site Description

Description of Existing Environment: Socio-economic Environment

See the attached Q3 - BAF-3 Site Description

Miscellaneous Project Information

See the attached Q3 - BAF-3 Site Description

Identification of Impacts and Proposed Mitigation Measures

See the attached Q2 - PLN-EHS-2 REV 10 Spill Contingency Plan (16.F.3.b)

Cumulative Effects

See the attached Q3 - BAF-3 Site Description

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 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Decommissioning | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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

Project Location



List of Project Geometries

| | | |
|---|-------|---------------------------------|
| 1 | point | BAF-3 NWS Long Range Radar Site |
|---|-------|---------------------------------|