



## Application for Water Licence Amendment

Document Date: April 2013

Application Submission Date: 01/28/2022  
Month/Day/Year

P.O. BOX 119  
GJOA HAVEN, NUNAVUT  
XOB 1J0  
TEL: (867) 360-6338  
FAX: (867) 360-6369

kNK5 wmoEp5 vtmpq  
NUNAVUT IMALIRIYIN KATIMAYIT  
NUNAVUT WATER BOARD  
OFFICE DES EAUX DU NUNAVUT

## DOCUMENT MANAGEMENT

Original Document Date: April 2010

### DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	New NWB logo; request for background information; and change to Block 24	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



P.O. Box 119

GJOA HAVEN, NU X0B 1J0

TEL: (867) 360-6338

FAX: (867) 360-6369

kNK5 wmoEp5 vtmp5

NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYIT

OFFICE DES EAUX DU NUNAVUT

## APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: *Licensee Requirements Following the Issuance of a Water Licence* for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: 8BC-BAF1929

### 1. LICENSEE CONTACT INFORMATION

Is the licensee the same as that referred to on the existing licence?

X Yes ☐ No

If No, a licence assignment must be completed and approved by the NWB. **An amendment will only be issued in the name of the current licensee in the absence of assignment of the licence.**

If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.

Name: **Colonel Donald Henley**

Address: **Assistant Deputy Minister (Infrastructure & Environment) (Carling Campus)**

**C/O : Canadian Forces Real Property Operations Group**

**/Real Property Operations North, Chief of Staff North**

**60 Moodie Drive**

**Ottawa, ON, K1A 0K2**

Phone: 613-901-9108

Fax: \_\_\_\_\_

e-mail: DONALD.HENLEY@forces.gc.ca

### 2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.

Name: **William Wyman, Environmental Officer, CF Real Properties Operations Group – North / ADM(IE)**  
**National Defence / Government of Canada**

Address: **National Defence Headquarters**

**101 Colonel By Drive**

**Ottawa, Ontario K1A 0K2**

Phone: 343-552-0501

Fax: \_\_\_\_\_

e-mail: William.wyman@forces.gc.ca

### 3. NAME OF PROJECT

Has the name of the project changed?

☐ Yes    ☒ No

If Yes, indicate the name of the project including the name of the location: \_\_\_\_\_

### 4. LOCATION OF UNDERTAKING

**BAF-3, North Warning System Long Range Radar Site, Brevoort Island, Nunavut**

Does the proposed amendment change the location of the amended undertaking?

☐ Yes    ☒ No

Provide the project extents and camp locations. Identify proposed changes.

#### Project Extents

NW: Latitude: (   °   '   " N)

Longitude: (   °   '   " W)

NE: Latitude: (   °   '   " N)

Longitude: (   °   '   " W)

SE: Latitude: (   °   '   " N)

Longitude: (   °   '   " W)

SW: Latitude: (   °   '   " N)

Longitude: (   °   '   " W)

#### Camp Location(s)

Latitude: ( **63° 20 ' 25 " N**)

Longitude: ( **64 ° 09 ' 29 " W**)

### 5. MAP

Does the proposed amendment change the locations of any of the main components of the undertaking?

☐ Yes    ☒ No

Attach a topographical map, indicating the main components of the undertaking. Identify proposed changes.  
**No changes to proposed site infrastructure.**

NTS Map Sheet No.: **025P08**

Map Name: Brevoort Island

Map Scale:

**1:50,000**

**NTS Sheet attached as "A6 – BAF-3 NTS Map"**

**6. NATURE OF INTEREST IN THE LAND**

Does the proposed amendment change the nature of the interest in the land?

☐ Yes    ☒ No

If Yes, indicate changes. \_\_\_\_\_

Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

**Sub-surface**

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

**Surface**

☒ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)

**Land Administered by the Department of National Defence**

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_ **not applicable**

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Commissioner's Land Use Authorization  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

☐ Other \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Is the name of the entity(s) holding authorizations the same as that considered in the existing water licence?

☒ Yes    ☐ No

If No, a licence assignment must be completed and approved by the NWB.

Name of entity(s) holding authorizations:

## 7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Indicate the land use planning area in which the existing project is located.

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> North Baffin | <input type="checkbox"/> Keewatin       |
| X South Baffin                        | <input type="checkbox"/> Sanikiluaq     |
| <input type="checkbox"/> Akunnig      | <input type="checkbox"/> West Kitikmeot |

Does the proposed amendment change the land use planning area?

- ☐ Yes    X No

If yes, indicate the land use planning area in which the amended undertaking is located.

- |                                       |   |
|---------------------------------------|---|
| <input type="checkbox"/> North Baffin | <input type="checkbox"/> Keewatin       |
| <input type="checkbox"/> South Baffin | <input type="checkbox"/> Sanikiluaq     |
| <input type="checkbox"/> Akunnig      | <input type="checkbox"/> West Kitikmeot |

Was a land use plan conformity determination required from NPC prior to the issuance of the existing water licence?

- ☐ Yes    X No

If Yes, indicate date issued and attach copy. **17 Oct 2018 File #148957 (Attached as A1 - 148957 - NPC BAF-3 2018 , the NPC was contacted and determined the project proposal had been previously screened and was exempted from a screening in 2009)**

Does the proposed amendment change the original NPC conformity determination or the need to obtain one?

- ☐ Yes    x No

If Yes, indicate date issued (or expected) and attach a copy. \_\_\_\_\_

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

**Please see page 3 and 4 of Attachment A1 - 148957 - NPC BAF-3 2018**

## 8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?

- X Yes    ☐ No

If Yes, indicate date issued and attach copy. **3 Nov 2003 File # 03DN120 (Attached as A2 - 031031NWB6BAF---- NIRB Screening-ILAE)**

Does the proposed amendment change the original NIRB screening determination or the need to obtain one?

- ☐ Yes    X No

If Yes, indicate date issued (or expected) and attach a copy. \_\_\_\_\_

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

**Please see the final page of A2 - 031031NWB6BAF---- NIRB Screening-ILAE, as well as page 3 and 4 of Attachment A1 - 148957 - NPC BAF-3 2018**

## 9. DESCRIPTION OF UNDERTAKING

Does the proposed amendment change the description of the undertaking?

☒ Yes ☐ No

List and attach plans and drawings or project proposal. Identify proposed changes.

### **Present to April 1, 2022:**

**During this time BAF-3 is not planned to be attended year-round. It will be visited by staff from LSS-Q on quarterly maintenance trips, and on an as needed basis.**

### **April 1, 2022 onward:**

**As of April 1, 2022 BAF-3 is planned to be attended full time (365 days of the year) by at least 9 staff.**

## 10. OPTIONS

Does the proposed amendment change any of the alternative methods and locations that were considered to carry out the project?

☐ Yes ☒ No

Provide a brief explanation of the alternative methods or locations that were considered to carry out the project. Identify proposed changes.

## 11. CLASSIFICATION OF PRIMARY UNDERTAKING

Indicate the primary classification of undertaking for the existing licence by checking one of the following boxes:

- |   |   |
|---|---|
| <input type="checkbox"/> Industrial   | <input type="checkbox"/> Agricultural                             |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) |   |
| <input type="checkbox"/> Conservation   |   |
| <input checked="" type="checkbox"/> Municipal (includes camps/lodges)                         | <input type="checkbox"/> Recreational                             |
| <input type="checkbox"/> Power  | <input type="checkbox"/> Miscellaneous (describe below):<br>_____ |

Does the proposed amendment change the classification of primary undertaking?

☐ Yes ☒ No

If Yes, indicate the primary undertaking of the amendment: \_\_\_\_\_

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be updated and submitted with an Application for Amendment. Indicate which SIG(s) are applicable to your application.

- ☐ Hydrostatic Testing
- ☐ Tannery
- ☐ Tourist / Remote Camp
- ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- ☐ Onshore Oil and Gas Exploration Drilling
- ☒ Mineral Exploration / Remote Camp

- ☐ Advanced Exploration
- ☐ Mine Development
- ☐ Municipal
- ☐ General Water Works
- ☐ Power

## 12. WATER USE

Indicate, using the boxes below, the types of water use(s) approved in the existing licence.

- ☒ To obtain water for camp/ municipal purposes
- ☒ To obtain water for industrial purposes
- ☐ To divert a watercourse
- ☐ To cross a watercourse
- ☐ To modify the bed or bank of a watercourse
- ☐ To alter the flow of, or store water
- ☐ Flood control
- ☐ Other: \_\_\_\_\_

Does the proposed amendment change the type(s) of water use(s)?

☐ Yes ☒ No

If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of water use(s) noting any water use(s) that are to be added, continued, or removed.

- ☐ To obtain water for camp/ municipal purposes
- ☐ To obtain water for industrial purposes
- ☐ To divert a watercourse
- ☐ To cross a watercourse
- ☐ To modify the bed or bank of a watercourse
- ☐ To alter the flow of, or store water
- ☐ Flood control
- ☐ Other: \_\_\_\_\_

## 13. QUANTITY OF WATER INVOLVED

Does the proposed amendment change the source of water? ☐ Yes ☒ No

Indicate the water source(s). Identify proposed changes.:

See BAF-3 Site Plan (Annex Q3, page 11) for water sources  
(show location(s) on map)

Does the proposed amendment change the quality of the water source and/or its available capacity?

☐ Yes ☒ No

Describe the quality of the water source(s) and the available capacity(s). Identify any changes.: \_\_\_\_\_

Does the proposed amendment change the overall quantity of water to be used?

☒ Yes ☐ No

Provide the overall estimated quantity to be used. Identify proposed changes.: **3000 m<sup>3</sup>/year (increased**

**from 1750 m<sup>3</sup>/year**

Does the proposed amendment change the quantity of water to be used from each source?

☒ Yes    ☐ No

Provide the estimated quantity(s) of water to be used from each source. Identify proposed changes. :

**3000 m<sup>3</sup>/year from the Water Lake**

Does the proposed amendment change the quantity of water to be used for each purpose?

☒ Yes    ☐ No

Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes.:

**Camp / Domestic = 2950 m<sup>3</sup>/year, other industrial uses (e.g. dust suppression) = 50 m<sup>3</sup>/year**

Does the proposed amendment change the method(s) of extraction?

☐ Yes    ☒ No

Describe the method(s) of extraction. Identify proposed changes. : \_\_\_\_\_

Does the proposed amendment change the quantity(s) of water returned to source(s)?

☐ Yes    ☒ No

Estimated quantity(s) of water returned to source(s). Identify proposed changes. : \_\_\_\_\_ m<sup>3</sup>/day

Does the proposed amendment change the quality(s) of water returned to source(s)?

☐ Yes    ☒ No

Describe the quality(s) of water(s) returned to source(s). Identify any changes. : \_\_\_\_\_

**14. WASTE**

Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.

☒ Sewage

☒ Solid Waste

☒ Hazardous

☒ Bulky Items/Scrap Metal

☐ Animal Waste

☐ Other (describe): \_\_\_\_\_

☒ Waste oil

☒ Greywater

☐ Sludges

☒ Contaminated soil and/or water

Does the proposed amendment change the type(s) of waste(s) to be generated or deposited?

☐ Yes    ☒ No

If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of waste(s) to be generated and/or deposited noting the addition, removal or continued generation and/or disposal of waste(s).

☐ Sewage

☐ Solid Waste

☐ Waste oil

☐ Greywater

- |  |   |
|--|---|
| <input type="checkbox"/> Hazardous               | <input type="checkbox"/> Sludges                        |
| <input type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste            |   |
| <input type="checkbox"/> Other (describe): _____ |   |

## 15. QUANTITY AND QUALITY OF WASTE INVOLVED

Does the proposed amendment change the quantity(s) of the types of wastes involved?

☒ Yes ☐ No

Does the proposed amendment change the composition(s) of the types of wastes involved?

☐ Yes ☒ No

Does the proposed amendment change the method(s) of treatment for the types of waste involved?

☐ Yes ☒ No

Does the proposed amendment change the method(s) of disposal for the types of waste involved?

☐ Yes ☒ No

If Yes to any of the above, describe the proposed changes: **Due to increases in staffing levels, sewage, solid waste and grey water are projected to increase.**

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage and Greywater combined		3000 m <sup>3</sup> / year	None	
Waste Oil		2.5 m <sup>3</sup> /season	None	off-site-south
Solid Waste		10 m <sup>3</sup> /season	None, however: domestic waste may eventually be incinerated on-site.	Off-site-landfill
Hazardous	Waste paint, tank cleaning effluent, fuel, batteries, oily rags and glycol-soaked rags and pads.	5 m <sup>3</sup> /season		Off-site-south
Contaminated		As required		Off-site-south

Soil				for small quantities, Land farm onsite for large quantities*.
------	--	--	--	---

\*Refer to Annex A3 attached as A3 – PLN-EHS-20 BAF-3 Landfarm Plan for more information.

#### 16. OTHER AUTHORIZATIONS

Does the proposed amendment change the need for other authorizations in addition to the sub-surface and surface land use authorizations provided in Block 6?

☐ Yes ☒ No

If Yes, indicate any additional authorizations required, which authorizations are no longer required, and which authorizations continue to be required.

For each provide the following:

Authorization: \_\_\_\_\_

Administering Agency: \_\_\_\_\_

Project Activity: \_\_\_\_\_

Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

#### 17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES

Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures?

☐ Yes ☒ No

Describe direct, indirect, and cumulative impacts related to water and waste. Identify any changes.

#### 18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS

Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence?

☐ Yes ☒ No

If Yes, provide the names, addresses and the nature of water use by those persons or properties.

Does the proposed amendment adversely affect any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature?

☐ Yes ☒ No

If Yes, provide the names, addresses and the nature of water use of those persons or properties.

Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been reached with any existing or other water users with respect to the proposed amendment.

**19. INUIT WATER RIGHTS**

Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence?

☐ Yes ☒ No

If Yes, which DIO(s) \_\_\_\_\_

Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)?

☐ Yes ☒ No

If Yes, advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more DIO(s) with respect to the proposed amendment.

**20. CONSULTATION** - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

**21. SECURITY INFORMATION**

Does the proposed amendment change the financial security assessment?

☐ Yes ☒ No

Does the proposed amendment change the estimate of the total financial security for final reclamation?

☐ Yes ☒ No

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken. Identify any changes in the financial security assessment resulting from the proposed amendment.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

**22. FINANCIAL INFORMATION**

Is the statement of financial security the same as that considered in the existing water licence?

☐ Yes ☐ No

Provide an updated statement of financial security.

If the applicant is a business entity please answer the questions below:

Is the list of the officers of the company the same as those considered in the existing water licence?

☐ Yes ☐ No

Provide a list of the officers of the company.

Is the Certificate of Incorporation or evidence of registration of the company name the same?

☐ Yes ☐ No

Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

## 23. STUDIES UNDERTAKEN TO DATE

List and attach updated studies, reports, research etc.

**Attached as: A4 - 211129 8BC-BAF1929 2021 Inspection Report-IMLE**

Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.

**Please see the compliance assessment attached as "A5 – NWB Compliance Assessment 2021"**

If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.

## 24. PROPOSED TIME SCHEDULE

When are proposed amendments scheduled to be undertaken: April 1 2022

Does the proposed amendment change the time schedule considered in the existing licence for any phase of development?

☐ Yes ☒ No

Indicate the start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Identify proposed changes.

### Construction

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

### Operation

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

### Closure

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_

(month/year)	(month/year)
<u>Post - Closure</u> Proposed Start Date: _____ Proposed Completion Date: _____ <div style="display: flex; justify-content: space-around;"> <span>(month/year)</span> <span>(month/year)</span> </div>	
For each applicable phase of development indicate which season(s) activities occur.	
<u>Construction</u> <input type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Fall <input type="checkbox"/> All season	
<u>Operation</u> <input type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Fall <input type="checkbox"/> All season	
<u>Closure</u> <input type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Fall <input type="checkbox"/> All season	
<u>Post - Closure</u> <input type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <input type="checkbox"/> Fall <input type="checkbox"/> All season	

**25. PROPOSED TERM OF LICENCE**

On what date does the existing licence expire? 31 August 2029

Is the Licensee applying for a combined renewal and amendment of the existing licence?

☐ Yes   ☒ No

If Yes, indicate the proposed term of the renewal (maximum of 25 years): \_\_\_\_\_

Requested date of renewal issuance: \_\_\_\_\_ Requested Expiry Date: \_\_\_\_\_  

(month/year)
(month/year)

(The requested date of renewal issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

**26. ANNUAL REPORTING**

Will the proposed amendment change the content of annual reports or the annual report template?

☐ Yes   ☒ No

If Yes, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

**27. CHECKLIST**

The following must be included with the application for Amendment for the water licensing process to begin.

Completed Application for Water Licence Amendment form.

X Yes	<input type="checkbox"/> No	If no, date expected _____
Information addressing Supplement Information Guideline (SIG), where applicable (see Block 11)		
X Yes	<input type="checkbox"/> No	If no, date expected _____
Compliance Assessment / Status Report (see Block 23).		
X Yes	<input type="checkbox"/> No	If no, date expected _____
Indication of Renewal Requirement (see Block 26)		
X Yes	<input type="checkbox"/> No	If no, date expected _____
English Summary of Amendment Application.		
X Yes	<input type="checkbox"/> No	If no, date expected _____
Inuktitut and/or Inuinnaqtun Summary of Amendment Application.		
X Yes	<input type="checkbox"/> No	If no, date expected _____
Application fee of \$30.00 CDN (Payee Receiver General for Canada).		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, date expected _____
Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.		
<input type="checkbox"/> Yes	<input type="checkbox"/> No	If no, date expected _____

**28. SIGNATURE**

**Colonel Donald Henley**

<b>Name (Print)</b>	<b>Title (Print)</b>	<b>Signature</b>	<b>Date</b>
---------------------	----------------------	------------------	-------------