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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

File No: **8BC-JEN2444**

July 8, 2024

Alison Street, P.Eng.  
DEW Line Clean-Up Senior Project Manager  
Department of National Defence  
60 Moodie Drive  
Ottawa, ON K1A 0K2

Email: [alison.street@forces.gc.ca](mailto:alison.street@forces.gc.ca)

**RE: NWB Replacement Water Licence No: 8BC-JEN2444**

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Dear Alison Street:

Please find attached Licence No: **8BC-JEN2444** issued to the Department of National Defence (DND or Licensee or Applicant) by the Nunavut Water Board (NWB or Board) pursuant to its authority under Article 13 of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada (Nunavut Agreement)*. The terms and conditions of the attached Licence related to the use of Water and the deposit of Waste are an integral part of this approval.

If the Licensee contemplates continuing this Undertaking after the Licence expires, it is the responsibility of the Licensee to apply to the NWB for a renewal water licence. The past performance of the Licensee, new documentation and information, and issues raised during a public hearing, if the NWB is required to hold one, will be used to determine the terms and conditions of the Licence renewal. Note that if the Licence expires before the NWB issues a new one, then the use of Water and the deposit of Waste must cease, or the Licensee may be in contravention of the *Nunavut Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRA or Act)*. However, the expiry or cancellation of a licence does not relieve the holder from any obligations imposed by the Licence. The NWB recommends that an application for the renewal of this Licence be filed at least **three (3) months** prior to the Licence expiry date.

It should be noted that in accordance with s. 75(1)(a) of the *Nunavut Planning and Project Assessment Act (NuPPAA)*, the Board is not allowed to issue a permit or authorization for any project proposal that has not been submitted to the Nunavut Planning Commission (NPC) in accordance with s. 76 of *NuPPAA*.

If the Licensee contemplates or requires an amendment to this Licence, the NWB may decide, in the public's interest, to hold a public hearing. The Licensee should submit application for

amendment as soon as possible to give the NWB sufficient time to go through the amendment process. The process and timing may vary depending on the scope of the amendment, however, a minimum of **sixty (60) days** is required from the time of acceptance by the NWB. It is the responsibility of the Licensee to ensure that all application materials have been received and are acknowledged by the Manager of Licensing.

Sincerely,

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Lootie Toomasie  
Nunavut Water Board,  
Chair

LT/ns/rh

Enclosure: Water Licence No: **8BC-JEN2444**

Comments – N/A

Cc: Distribution List – Kitikmeot

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## DECISION

**LICENCE NUMBER: 8BC-JEN2444**

This is the decision of the Nunavut Water Board (NWB) with respect to an application dated May 30, 2024, which was updated on June 10, 2024, for a replacement type B Licence made by:

### DEPARTMENT OF NATIONAL DEFENCE

to allow for the use of Water and the deposit of Waste during camp operations and activities related to monitoring activities at CAM-1 Jenny Lind Island Landfill Monitoring site, located within the Kitikmeot Region, Nunavut, generally located at the geographical coordinates as follows:

Project:	Latitude: 68° 40' 30" N	Longitude: 101° 43' 44" W
Camp Location:	Latitude: 68° 39' 23" N	Longitude: 101° 44' 58" W

## DECISION

After having been satisfied that the Application is for a proposal that falls outside of an area with an approved land use plan, and is not subject to a 12.4.4(a) Screening Decision as determined by the Nunavut Planning Commission (NPC)<sup>1</sup>, the NWB decided that the Application could proceed through the regulatory process. In addition, the Project activities were previously screened by the Nunavut Impact Review Board (NIRB)<sup>2</sup>. In accordance with s. 55.1 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSRTA or Act)* and Article 13 of the *Nunavut Agreement*, public notice of the Application was given and interested persons were invited to make representations to the NWB.

After reviewing the submission of the Applicant and considering the representations made by interested parties, the NWB, having given due regard to the facts and circumstances, the merits of the submissions made to it and to the purpose, scope and intent of the *Nunavut Agreement* and of the *Act*, waived the requirement to hold a public hearing, and determined that:

**Water Licence No: 1BR-JEN1323 be replaced by 8BC-JEN2444 subject to the terms and conditions contained therein. (Motion #: 2024-B1-009)**

Signed this 8<sup>th</sup> day of July, 2024 at Gjoa Haven, NU.

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Lootie Toomasie  
Nunavut Water Board, Chair

LT/ns/rh

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<sup>1</sup> Nunavut Planning Commission (NPC) Conformity Determination dated May 27, 2024.

<sup>2</sup> Nunavut Impact Review Board (NIRB) Screening Decision dated March 04, 2013.

## I. BACKGROUND

The Application for renewal and amendment is by the Department of National Defence (DND) for long-term monitoring of the remediated former Distant Early Warning (DEW) Line site, CAM-1. The former CAM-1 (Jenny Lind Island) DEW Line site is located on the central east coast of Qikiqtaryuaq (formerly Jenny Lind Island) approximately 140 km southeast of Cambridge Bay.

The station was constructed in the 1950s and decommissioned in 1992 after constructing a more advanced North Warning System (NWS) short range radar (SRR) site designated as CAM-1A, approximately 12 km northeast of the CAM-1 site.

The environmental clean-up and demolition of DEW Line facilities started in 2008 and were finished by 2009. All DEW Line structures at the site were demolished, except for a storage building. The clean-up process involved remediating and closing eight existing landfills, along with constructing two new engineered facilities: a non-hazardous waste landfill for site debris and demolition waste, and a Tier II Disposal Facility for Tier II contaminated soil.

The landfills which are subjected to long-term monitoring at the CAM-1 site are:

- Borrow Area North Landfill,
- Northeast Landfill,
- Station West Landfill,
- Non-Hazardous Waste Landfill,
- Tier II Disposal Facility,
- Southeast Landfill,
- Main Landfill,
- Station East Landfill,
- USAF Landfill, and
- East Landing Landfill.

The next monitoring events at CAM-1 are planned to take place in July/August 2024 and July/August 2034. A brief maintenance visit is also anticipated in July/August 2029 to change the batteries in the ground temperature monitoring equipment. The camp will be located at the airstrip apron and will be able to accommodate 8 to 10 people.

On May 25, 2020, the NWB approved the assignment of twelve (12) Water Licences held by Defence Construction Canada (DCC) to the Department of National Defence (DND). This included the currently expired Water Licence 1BR-JEN1323 (CAM-1).

The expired Licence was classified as an Industrial Undertaking (Remediation) or “1BR”. In accordance with Schedule 1 of the new *Nunavut Waters Regulations* which came into effect during the term of the expired Licence 1BR-JEN1323, the classification of the undertaking changed from “Industrial” to “Other”. For this reason, the NWB has changed its classification to Other Undertaking (camp) “8BC”.

## II. PROCEDURAL HISTORY

The Board received an application for renewal/amendment of expired licence 1BR-JEN1323 from the Department of National Defence on May 30, 2024, which was updated on June 10, 2024. The Application consisted of the following documents:

- NPC Letter of Determination NPC File # 150284
- NIRB Screening Decision Report File # 110707-06DN029
- DND DEW Line Executive Summary - English
- DND DEW Line Executive Summary – Inuktitut
- Project Map NTS\_067B\_CAM-1
- CAM-1 Remote Camp Questionnaire
- CAM-1 Preliminary Phase II Summary
- CAM-1 Spill Contingency Plan
- CAM-1 Landfill Monitoring Plan
- 191212 DND DEW Line Monitoring Modifications-OSKE
- Revised Application Water Licence Renewal Amendment
- CAM-1 2024 Application for Water Licence Renewal Amendment V3
- CAM-1 Spill Contingency Plan V2

### Application Scope

The scope of the Application includes a temporary remote camp for conducting landfill monitoring, maintenance, and repair of monitoring wells and collection of soil and groundwater samples. The Applicant has stated that small quantities of surface water could be required for domestic purposes at the temporary camp. It is also possible that small quantities of surface water could be required for potential future monitoring well repair, replacement, or decommissioning activities.

### Procedural History

Following receipt and an internal preliminary review, the NWB distributed the application on May 31, 2024, for a thirty-day review and comment period with the deadline for submission set for July 02, 2024. No comments were received.

The NWB has placed in its Public Registry copies of the Application and all supporting documentation. This information can be accessed on the NWB's FTP site using the following link:

<ftp://ftp.nwb-oen.ca/registry/8%20MISCELLANEOUS/8B/8BC%20-%20Camp/8BC-JEN2444%20CAM%201/1%20APPLICATION/2024%20Amend%20Renew>

## III. FILE HISTORY

According to information included on the NWB's Public Registry, the Nunavut Water Board (NWB) has issued four licences to this Project in the past.

- Licence No: NWB5JEN0101  
Issued to Defence Construction Canada (DCC) on June 20, 2001, and expired on October 31, 2001. This Licence allowed for the use of fifty (50) cubic metres of water daily and

the deposit of waste during site investigation activities.

- Licence No: NWB5JEN0203  
Issued on April 11, 2002, and expired on December 31, 2003. This Licence allowed for the use of fifty (50) cubic metres of water per day and the deposit of waste during site investigation activities.
- Licence No: 1BR-JEN0712  
Issued on July 23, 2007, and expired on December 31, 2012. This Licence allowed for the use of fifty-five (55) cubic metres of water per day and the deposit of waste in support of a post-closure landfill monitoring program for the Project site.
- Licence No: 1BR-JEN1323  
Issued on October 10, 2013, and expired on October 09, 2023. This Licence allowed for the use of ten (10) cubic metres of water per year and the deposit of waste in support of a post-closure landfill monitoring program for the Project site.

#### **IV. GENERAL CONSIDERATIONS**

The following sections provide a general overview of the rationale for some of the main terms and conditions included under this Water Licence.

##### **Term of the Licence**

In accordance with s. 45 of the Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRTA or Act), the NWB may issue a licence for a term not exceeding twenty-five (25) years. In determining an appropriate term for a renewal licence, the Board generally takes into consideration several factors including Interveners' comments, the Licensee's compliance history, as well as the rationale contained in the application.

The Applicant has requested a twenty (20) year term for the licence, with a proposed expiry date in September 2044. The rationale for this term is that the site is in post-closure monitoring only, and the requested period includes some contingency in the event that a currently unforeseen requirement arises in the future for an additional monitoring event. The Board, in examining the requirements and past performance of the Licensee, felt that a twenty-year term was appropriate. The Board has therefore granted the term requested by the Licensee.

##### **Annual Reports**

Under Part B, Item 1 of the Licence, the Licensee is required to submit Annual Reports for the purpose of ensuring that the NWB has an accurate annual update of activities related to Water use and Waste disposal during each calendar year. This information is maintained on the Public Registry and is available to interested parties upon request. A "Standardized Form for Annual Reporting" is to be used by the Licensee and is available from the NWB file transfer protocol (FTP) site under the Public Registry link at the NWB Website:

<ftp://ftp.nwb-oen.ca/other documents/Standardized Forms/>

## **Water Use**

The Licensee has indicated that small temporary camp facilities will be established on-site; bottled water will be brought to the site for drinking. The requested water use is one (1) cubic meter per day for domestic purposes, sampling and repair, replacement or decommissioning of monitoring well. The water shall be obtained from Water Supply Lake or local water source(s), proximal to the Project. The water use authorized by the previous licence was 10 m<sup>3</sup>/year.

The Board has authorized the Licensee to use a maximum of one (1) cubic metre of water per day under Part C, Item 1 of the Licence.

## **Waste Disposal**

Sewage and greywater will be buried in a pit. All other solid waste shall be removed at the end of the field program and disposed of at an approved regulated off-site facility. Terms and conditions for waste disposal are included in Part D of this Licence.

## **Monitoring Plan**

The conditions related to monitoring are detailed under Part J of the Licence which has been carried forward from the previous Licence.

In 2017, a minor modification to the chemical parameters being monitored at the landfill sites was agreed upon by the DND and Nunavut Tunngavik Incorporated (NTI) DEW Line Steering Committee. Consequently, mercury is no longer monitored in soil or groundwater, and PCBs are no longer monitored in groundwater. All other aspects of the landfill monitoring program remain the same. This change was previously communicated to the NWB in a letter dated February 9, 2017; the NWB responded to DND in a letter dated December 12, 2019<sup>3</sup>.

The Licensee is required to seek approval and/or confirmation from the Board prior to making any changes to the monitoring program. It should also be noted that additional sampling may be required upon request by the Inspector.

## **Management Plans and Related Information**

The Applicant has submitted revised plans for the CAM-1 Landfill Monitoring Program. The following plan is being approved with the issuance of this Licence.

- Spill Contingency Plan – CAM-1, Revised June 11, 2024

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<sup>3</sup> Letter from NWB to L. D’Costa and A. Street, RE: Nunavut Water Board Response to Request for Modification of the Post-Construction Monitoring Programs for Water Licences for DND DEW Line Sites; dated December 12, 2019





## NUNAVUT WATER BOARD WATER LICENCE

**Licence No: 8BC-JEN2444**

Pursuant to the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and the *Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada*, the Nunavut Water Board, hereinafter referred to as the Board, hereby grants to

**DEPARTMENT OF NATIONAL DEFENCE, GOVERNMENT OF CANADA**

(Licensee)

**60 MOODIE DRIVE, OTTAWA, ON K1A 0K2**

(Mailing Address)

hereinafter called the Licensee, the right to alter, divert or otherwise use water or dispose of Waste for a period subject to restrictions and conditions contained within this Licence:

Licence Number/Type: **8BC-JEN2444/ TYPE "B"**

Water Management Area: **SOUTHERN VICTORIA ISLAND WATERSHED (38)**

Location: **CAM-1 JENNY LIND ISLAND LANDFILL MONITORING SITE, KITIKMEOT REGION, NUNAVUT**

Classification: **OTHER UNDERTAKING**

Purpose: **DIRECT USE OF WATER AND DEPOSIT OF WASTE**

Quantity of Water use not to Exceed: **ONE (1) CUBIC METRE PER DAY**

Date of Licence Issuance: **JULY 8, 2024**

Expiry of Licence: **SEPTEMBER 30, 2044**

This Licence, issued and recorded at Gjoa Haven, Nunavut, includes and is subject to the annexed conditions.

**Lootie Toomasie**  
**Nunavut Water Board, Chair**

## **PART A: SCOPE, DEFINITIONS AND ENFORCEMENT**

### **1. Scope**

This Licence allows for the use of Water and the deposit of Waste for an undertaking classified as Other as per Schedule 1 of the *Regulations* at the CAM-1 (Jenny Lind Island) DEW Line Site Remediation Project, located approximately 140 km southeast of the community of Cambridge Bay within the Kitikmeot Region, Nunavut.

- a. This Licence is issued subject to the conditions contained herein with respect to the taking of Water and the deposit of Waste of any type in any Waters or in any place under any conditions where such Waste or any other Waste that results from the deposits of such Waste may enter any Waters. Whenever new Regulations are made or existing *Regulations* are amended by the Governor in Council under the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, or other statutes imposing more stringent conditions relating to the quantity or type of Waste that may be so deposited or under which any such Waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations, to be subject to such requirements; and
- b. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with the requirements of all applicable Federal, Territorial and Municipal legislation.

### **2. Definitions**

In this Licence 8BC-JEN2444

“**Act**” or “**Act**” means the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

“**Addendum**” means the supplemental text that is added to a full plan or report usually included at the end of the document and is not intended to require a full resubmission of the revised report;

“**Amendment**” means a change to original terms and conditions of this Licence requiring correction, addition or deletion of specific terms and conditions of the Licence; modifications inconsistent with the terms of the set terms and conditions of the Licence;

“**Applicant**” means the Licensee;

“**Appurtenant Undertaking**” means an undertaking in relation to which a use of Water or a deposit of Waste is permitted by a licence issued by the Board;

**“Board”** means the Nunavut Water Board established under the Nunavut Agreement and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*;

**“Effluent”** means treated or untreated liquid Waste material that is discharged into the environment from a structure such as a settling pond, landfarm or a treatment plant;

**“Engineer”** means a professional engineer registered to practice in Nunavut in accordance with the *Consolidation of Engineers and Geoscientists Act S. Nu 2008, c.2* and the *Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12*;

**“Greywater”** means all liquid Wastes from showers, baths, sinks, kitchens and domestic washing facilities, but does not include toilet Wastes;

**“Hazardous Waste”** means Waste classified as “hazardous” by Nunavut Territorial or Federal legislation, or as “dangerous goods” under the Transportation of Dangerous Goods Act;

**“High Water Mark”** means the usual or average level to which a water body rises at its highest point and remains for sufficient time so as to change the characteristics of the land (ref. Department of Fisheries and Oceans Canada, Operational Statement: Mineral Exploration Activities);

**“Inspector”** means an Inspector designated by the Minister under Section 85 (1) of the *Act*;

**“Licensee”** means the holder of this Licence;

**“Modification”** means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work, but does not include an expansion;

**“Monitoring Program”** means a program established to collect data on surface water and groundwater quality to assess impacts to the environment of an appurtenant undertaking, to be undertaken in accordance with the NTI Agreement and as described in the documents entitled “Landfill Monitoring Program, CAM-1 Site Specific Information”;

**“NTI Agreement”** means the “*Agreement Between Nunavut Tunngavik Incorporated and Her Majesty the Queen in the Right of Canada, as Represented by the Minister of National Defense for the Clean-up and Restoration of Distant Early Warning Sites within the Nunavut Settlement Area-Environmental Provisions*” including its preamble and schedules, and any amendments to that agreement made pursuant to it.

**“Nunavut Agreement”** or **“Nunavut Agreement”** means the *“Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada”*, including its preamble and schedules, and any amendments to that agreement made pursuant to it;

**“Regulations”** or **“Regulations”** means the *Nunavut Waters Regulations* SOR/2013-69 18<sup>th</sup> April, 2013;

**“Secondary Containment”** means an impermeable structure, external to and separate from primary containment, which prevents unplanned spills of hazardous materials and provides a minimum capacity of 110% of the original vessel. Where multiple vessels are stored within the containment, it must provide a minimum capacity equal to the sum of the largest vessel and 10% of the aggregate volume of all other vessels located in the containment. This structure shall also provide containment and control of hoses and nozzles;

**“Sewage”** means all toilet Wastes and greywater;

**“Spill Contingency Plan”** means a Plan developed to deal with unforeseen petroleum and hazardous materials events that may occur during the operations conducted under the Licence;

**“Sump”** or **“Sumps”** means a structure or depression that collects, controls, and filters liquid Waste before it is released to the environment. This structure should be designed to prevent erosion while allowing percolation of liquid Waste;

**“Tier I Soil”** means soil containing contaminant concentrations within the types and ranges defined as Dew Line Cleanup Criteria (DCC) Tier I in Appendix B of the INAC *Abandoned Military Site Remediation Protocol, March 2005* (see Table 1);

**“Tier II Soil”** means soil containing contaminant concentrations within the types and ranges defined as Dew Line Cleanup Criteria (DCC) Tier II in Appendix B of the INAC *Abandoned Military Site Remediation Protocol, March 2005* (see Table 1);

**“Toilet Wastes”** means all human excreta and associated products, but does not include greywater;

**“Type A Soil”** means soil contaminated with hydrocarbons in which the primary petroleum product present in the soil as determined by laboratory analysis consists of lubricating oil and grease in the F3 and F4 fraction;

**“Type B Soil”** means soil contaminated with hydrocarbons in which the primary petroleum product present in the soil as determined by laboratory analysis consists of fuel oil and/or diesel fuel and/or gasoline in the F1 and F2 fraction;

**“Waste”** means, as defined in s. 4 of the *Act*, any substance that, by itself or in combination with other substances found in water, would have the effect of altering the quality of any water to which the substance is added to an extent that is detrimental to its use by people or by any animal, fish or plant, or any water that would have that effect because of the quantity or concentration of the substances contained in it or because it has been treated or changed, by heat or other means;

**“Water” or “Waters”** means waters as defined in section 4 of the *Act*.

### **3. Enforcement**

- a. Failure to comply with this Licence will be a violation of the *Act*, subjecting the Licensee to the enforcement measures and the penalties provided for in the *Act*;
- b. All inspection and enforcement services regarding this Licence will be provided by Inspectors appointed under the *Act*; and
- c. For the purpose of enforcing this Licence and with respect to the use of Water and deposit or discharge of Waste by the Licensee, Inspectors appointed under the *Act*, hold all powers, privileges and protections that are conferred upon them by the *Act* or by other applicable law.

## **PART B: GENERAL CONDITIONS**

1. The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than March 31<sup>st</sup> of the year following the calendar year being reported, containing the following information:
  - a. A summary report of Water use and Waste disposal activities;
  - b. Quantity of Water (in cubic metres/day) obtained for domestic and other purposes from sources on, in or flowing through Crown Lands for the reporting period;
  - c. Quantity of Waste backhauled to approved facility for disposal;
  - d. A list of unauthorized discharges and a summary of follow-up actions taken;
  - e. The location of waste deposition in accordance with Part J, Item 5;
  - f. A summary of any construction work, modification and major maintenance work (including as-built diagrams) carried out on all new and existing facilities associated with this Licence;
  - g. Any revisions to the Spill Contingency Plan and any other Plans associated with this Licence, as required by Part B, Item 6, submitted in the form of an Addendum;
  - h. A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations;
  - i. A summary of all information requested and results of the Monitoring Program;

- j. GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) for the locations of all temporary camp established in support of the Project if the actual coordinates differ from that provided in the application;
  - k. Any other details on Water use or Waste disposal requested by the Board by the 1<sup>st</sup> November of the year being reported.
- 2. The Licensee shall notify the NWB of any changes in operating plans or conditions associated with this Project at least thirty (30) days prior to any such change.
  - 3. The Licensee shall install flow meters or other such devices, or implement suitable methods required for the measuring of Water volumes as required under Part J, Item 3.
  - 4. The Licensee shall, for all Plans submitted under this Licence, include a proposed timetable for implementation. Plans submitted, cannot be undertaken without subsequent written Board approval and direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan.
  - 5. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.
  - 6. The Licensee shall review the Plans referred to in this Licence, as required by changes in operation and/or technology, and modify the Plan accordingly. Revisions to the Plans shall be submitted in the form of an Addendum to be included with the Annual Report.
  - 7. Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of this Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board become part of this Licence. All terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.
  - 8. The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times. Any communication with respect to this Licence shall be made in writing to the attention of:

**(a) Manager of Licensing:**  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU X0B 1J0  
Telephone: (867) 360-6338  
Fax: (867) 360-6369  
Email: [licensing@nwb-oen.ca](mailto:licensing@nwb-oen.ca)

**(b) Inspector Contact:**  
Inspector Contact:

Manager of Field Operations, CIRNAC  
Nunavut District, Nunavut Region  
918 Nunavut Drive  
Iqaluit, NU X0A 3H0  
Telephone: (867) 975-4284

9. The Licensee shall submit an electronic copy of all reports, studies, and plans to the Board. Reports or studies submitted to the Board by the Licensee shall include a detailed executive summary in Inuktitut (and/or Inuinnaqtun).
10. The Licensee shall ensure that all documents or correspondence submitted by the Licensee to the NWB are received and acknowledged by the Manager of Licensing.
11. This Licence is assignable as provided for in Section 44 of the *Act*.
12. The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence, or any other regulatory requirement.

#### **PART C: CONDITIONS APPLYING TO WATER USE**

1. The Licensee shall obtain all Water for domestic purposes, sampling and repair, replacement or decommissioning of monitoring wells from the Water Supply Lake or local water source(s), proximal to the Project. The volume of Water for all purposes under this Licence shall not exceed one (1) cubic metre per day.
2. The use of Water from streams or any water bodies not identified in Part C, Item 1, is prohibited unless authorized and approved by the Board in writing.
3. The withdrawal of Water from any stream shall not exceed ten (10) per cent of the low flow of that stream unless approved by the Board in writing.
4. Where the use of Water is of a sufficient volume that the source water body may be drawn down, the Licensee shall submit, for approval of the Board in writing, the following information: the volume required, a hydrological overview of the water body, details of impacts, and proposed mitigation measures.
5. The Licensee shall submit to the Board for approval in writing, the following information at least thirty (30) days prior to the use of Water of a sufficient volume that the source water body may be drawn down: volume required, hydrological overview of the water body, details of impacts, and proposed mitigation measures.
6. The Licensee shall equip all Water intake hoses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw Water at a rate such that fish do

not become impinged on the screen.

7. The Licensee shall not conduct any work below the ordinary High Water Mark of any water body unless approved by the Board in writing.
8. The Licensee shall not cause erosion to the banks of any water body and shall provide necessary controls to prevent such erosion.
9. Sediment and erosion control measures shall be implemented prior to and maintained during the undertaking to prevent entry of sediment into Water.

**PART D: CONDITIONS APPLYING TO WASTE DISPOSAL**

1. The Licensee shall locate areas designated for Waste disposal at a minimum distance of thirty-one (31) metres from the ordinary High Water Mark of any water body such that the quality, quantity or flow of Water is not impaired, unless otherwise approved by the Board in writing.
2. The Licensee shall not practice on-site land filling of domestic Waste, unless otherwise approved by the Board in writing.
3. The Licensee shall not open burn plastics, wood treated with preservatives, electric wire, Styrofoam, asbestos or painted wood to prevent the deposition of Waste materials of incomplete combustion and/or leachate from contaminated ash residual, from impacting any surrounding Waters, unless otherwise approved by the Board in writing.
4. The Licensee shall contain all greywater in a sump located at a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any water body, at a site where the direct flow into a water body is not possible and no additional impacts are created, unless otherwise approved by the Board in writing.
5. The Licensee shall provide to the Board documented authorization from all communities in Nunavut receiving Wastes from the CAM-1 Jenny Lind Island monitoring program prior to any backhauling and disposal of Wastes to those communities.
6. The Licensee shall backhaul and dispose of all hazardous Wastes, Waste oil and non-combustible Waste generated through the course of the operation at a licensed Waste disposal site in accordance with applicable sections of “The Cross-border Movement of Hazardous Waste and Hazardous Recyclable Material Regulations”.
7. The Licensee shall maintain records of all Waste backhauled and records of confirmation of proper disposal of backhauled Waste. These records shall be made available to an Inspector upon request.



8. The Licensee shall contain all greywater in a Sump located at a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any water body, at a site where direct flow into a water body is not possible and no additional impacts are created, unless otherwise approved by the Board in writing.
9. The Licensee shall contain all Toilet Wastes in latrine pits or use incineration, chemical, portable or composting toilets. Latrine pits shall be located at a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any water body, treated with lime and covered with native material to achieve the pre-existing natural contours of the land prior to abandonment.

**PART E: CONDITIONS FOR CAMPS, ACCESS INFRASTRUCTURES AND OPERATIONS**

1. The Licensee shall not store material on the surface of frozen streams or lakes including the immediate banks except what is for immediate use.
2. The Licensee shall not erect camps or store material on the surface of frozen streams or lakes including the immediate banks except what is for immediate use. Camps shall be located such as to minimize impacts on surface drainage.
3. The Licensee shall conduct all activities in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake corrective measures in the event of any impacts on surface drainage.
4. The Licensee shall construct all winter lake and stream crossings, including ice bridges, entirely of Water, ice or snow. The Licensee shall minimize disturbance by locating ice bridges in an area that requires the minimum approach grading and the shortest crossing route. Stream crossings shall be removed or the ice notched prior to spring break-up.
5. Stream crossing shall be a minimum of five hundred (500) metres from spawning areas.
6. With respect to access road, pad construction or other earthworks, the deposition of debris or sediment into or onto any water body is prohibited. These materials shall be disposed a distance of at least thirty-one (31) metres from the ordinary High Water Mark in such a fashion that they do not enter the Water.
7. The Licensee shall not mobilize heavy equipment or vehicles for trenching or other activities unless the ground surface is capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles shall be suspended if rutting occurs.

**PART F: CONDITIONS APPLYING TO DRILLING OPERATIONS**

1. The Licensee is authorized to drill only for the purpose of installing monitoring instrument including monitoring wells and thermistors.
2. The Licensee shall not conduct any land based drilling within thirty-one (31) metres of the ordinary High Water Mark of any water body, unless otherwise approved by the Board in writing.
3. The Licensee shall dispose of all drill waste, including Water, chips, muds and salts (CaCl<sub>2</sub>) in any quantity or concentration, from land-based drilling, in a properly constructed Sump or an appropriate natural depression located at a distance of at least thirty-one (31) metres from the ordinary High Water Mark of any adjacent water body, where direct flow into a water body is not possible and no additional impacts are created.
4. Drilling on ice is not permitted under this Licence.

**PART G: CONDITIONS APPLYING TO MODIFICATIONS**

1. The Licensee may, without written consent from the Board, carry out Modifications to the Water Supply Facilities and Waste Disposal Facilities provided that such Modifications are consistent with the terms of this Licence and the following requirements are met:
  - a. the Licensee has notified the Board in writing of such proposed Modifications at least sixty (60) days prior to beginning the Modifications;
  - b. such Modifications do not place the Licensee in contravention of the Licence or the *Act*;
  - c. such Modifications do not constitute “significant modifications” that require conformity assessment by the Nunavut Planning Commission and/or impact assessment by the Nunavut Impact Review Board before consideration by the NWB;
  - d. within sixty (60) days following notification of the proposed Modifications, the Licensee, Nunavut Planning Commission, Nunavut Impact Review Board, designated Inuit organization or responsible regulatory authority has not indicated that any conformity determination, impact assessment, compensation negotiations or other consideration of the Modification that must be completed before the NWB can consider the Modification will take longer than 45 days; and
  - e. within sixty (60) days following notification of the proposed Modifications, the Board has not indicated that a written approval is required or rejected the proposed Modifications.
2. Modifications for which all of the conditions referred to in Part G, Item 1 have not been met can be carried out only with written approval from the Board.

3. The Licensee shall provide as-built plans and drawings of the Modifications referred to in this Licence within ninety (90) days of completion of the Modification. These plans and drawings shall be stamped by an Engineer.

#### **PART H: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING**

1. The Board has approved the Plan entitled “Spill Contingency Plan – CAM-1” dated June 11, 2024, that was submitted as additional information with the Application.
2. The Licensee shall prevent any chemicals, petroleum products or Wastes associated with the Project from entering Water. All Sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres from the ordinary High Water Mark of any adjacent water body and inspected on a regular basis.
3. The Licensee shall conduct any equipment maintenance and servicing in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other Waste and contain potential spills.
4. If during the term of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
  - a. Employ the approved Spill Contingency Plan;
  - b. Report the spill immediately to the NWT/NU 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4284; and
  - c. For each spill occurrence, submit to the Inspector, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.
5. The Licensee shall, in addition to Part H, Item 4, regardless of the quantity of releases of harmful substances, report to the NWT/NU 24-Hour Spill Line if the release is near or into a water body.

#### **PART I: CONDITIONS APPLYING TO ABANDONMENT AND RESTORATION**

1. The Licensee shall complete all restoration work for the temporary camp facilities and waste disposal activities, prior to the expiry of this Licence or completion of the monitoring program.
2. The Licensee shall carry out progressive reclamation of any components of the Project no longer required for the Licensee’s operations.

3. The Licensee shall backfill and restore all sumps, sewage/wash water pits to the pre-existing natural contours of the land.
4. The Licensee shall remove from the site, all infrastructure and site materials, including all fuel caches, drums, barrels, buildings and contents, docks, water intakes, pumps and lines, material and equipment prior to the expiry of this Licence.
5. All roads and airstrips, if any, shall be re-graded to reduce erosion and sedimentation to Water.
6. In order to promote growth of vegetation and the needed microclimate for seed deposition, all disturbed surfaces shall be prepared by ripping, grading, or scarifying the surface to conform to the natural topography.
7. Areas that have been contaminated by hydrocarbons shall be reclaimed to meet objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, 2010. The use of reclaimed soils for the purpose of back fill or general site grading may be carried out only upon consultation and approval by the Government of Nunavut, Department of Environment and an Inspector.
8. The Licensee shall contour and stabilize all disturbed areas to reduce erosion and sedimentation to Water, upon completion of work upon completion of the undertaking and as per Part I, Item 3.
9. The Licensee shall complete all restoration work prior to the expiry of this Licence.

#### **PART J: CONDITIONS APPLYING TO THE MONITORING PROGRAM**

1. The Licensee shall continue to apply the Monitoring Plan entitled *Water Use Licence Amendment and Renewal Cam-1, Jenny Lind Island Landfill Monitoring*, dated December 2012, which was previously approved by the Board.
2. The Licensee shall conduct monitoring in accordance with the Plan approved under Part J, Item 1 of this Licence.
3. The Licensee shall measure and record, in cubic metres, the daily quantities of any water withdrawn for monitoring and related purpose.
4. The Licensee shall provide the GPS coordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where sources of Water are utilized for all purposes.

5. The Licensee shall determine the GPS coordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where Wastes associated with camp operations and drilling operations are deposited.
6. All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of *Standard Methods for the Examination of Water and Wastewater*, or by such other methods approved by the Board in writing.
7. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.
8. The Licensee shall include in the Annual Report required under Part B, Item 1 all data, monitoring results and information required by this Part.
9. Additional monitoring requirements may be requested by the Inspector and the NWB.

**Table 1: DEW Line Clean-up Criteria**

**Table No.1**  
(From INAC Abandoned Military Site Remediation Protocol)  
**DEW Line Clean-up Criteria (DCC)<sup>a</sup>**

Substance	Units	DCC Tier I <sup>bc</sup>	DCC Tier II <sup>d</sup>
Arsenic	ppm	-	30
Cadmium	ppm	-	5.0
Chromium	ppm	-	250
Cobalt	ppm	-	50
Copper	ppm	-	100
Lead	ppm	200	500
Nickel	ppm	-	100
Zinc	ppm	-	500
PCB's	ppm	1.0	5.0

<sup>a</sup> These criteria were adopted specifically for the cleanup of Arctic DEW Line Sites from the 1991 versions of the Quebec Soil Contamination Indicators and the Canadian Council of Ministers of the Environment Interim Canadian Environmental Criteria for Contaminated Sites.

<sup>b</sup> Soil criteria are given in parts per million, ppm.

<sup>c</sup> Soils containing lead and/or PCBs at concentrations in excess of DCC I, but less than DCC II, may be landfilled,

<sup>d</sup> Soils containing one or more substrates in excess of DCC II must be containerized - i.e. removed in a manner which precludes contact with the Arctic ecosystem.