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NUNAVUT WATER BOARD  
NUNAVUT IMALIRIYIN KATIMAYINGI  
OFFICE DES EAUX DU NUNAVUT

**File No: 8BD-ABH2122**

March 17, 2021

Eleanor McEwan  
Department of Fisheries and Oceans –  
Small Craft Harbours (DFO-SCH)  
501 University Crescent, Winnipeg, Manitoba  
R3T 2N6

Email: [eleanor.mcewan@dfo-mpo.gc.ca](mailto:eleanor.mcewan@dfo-mpo.gc.ca)

**RE: NWB Licence No: 8BD-ABH2122; Artic Bay Harbour Development, Geotechnical Investigations**

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Dear Ms. McEwan:

Please find attached Water Licence **No: 8BD-ABH2122** issued to the Department of Fisheries and Oceans - Small Craft Harbours (DFO-SCH), 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 Water use and Waste deposit are an integral part of this approval.

If the Licensee contemplates the renewal of this Licence, it is the responsibility of the Licensee to apply to the NWB for its renewal. 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*. 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 licence 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 applications 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 time of acceptance by the NWB. It is the responsibility of the Licensee to ensure that all application materials have received and are acknowledged by the Manager of Licensing.

The NWB strongly recommends that the Licensee consult the comments received by interested persons on issues identified. This information is attached for your consideration.<sup>1</sup>

Sincerely,

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Lootie Toomasie  
Nunavut Water Board  
Chair

LT/dd/se

Enclosure: Licence No: **8BD-ABH2122**

Comments – CIRNA

Cc: Qikiqtani Distribution List

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<sup>1</sup> Crown-Indigenous Relations and Northern Affairs (CIRNA), February 5, 2021; and Fisheries and Oceans Canada (DFO), January 15, 2021.

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## DECISION

### LICENCE NUMBER: 8BD-ABH2122

This is the decision of the Nunavut Water Board (NWB) with respect to an application, dated December 23, 2020, for a new Water Licence made by:

#### DEPARTMENT OF FISHERIES AND OCEANS – SMALL CRAFT HARBOURS

to allow for the use of Water and the deposit of Waste during operations and activities related to an geotechnical investigation program that include diamond or reverse circulation drilling for the Arctic Bay Harbour Development, Geotechnical Investigations Project, located within the Qikiqtani Region, Nunavut, generally at the following geographical coordinates:

Project Extents: NW:	Latitude: (73° 2.373' N)	Longitude: (85°12.653' W)
NE:	Latitude: (73° 2.203' N)	Longitude: (85°11.819 W)
SE:	Latitude: (73° 2.149' N)	Longitude: (85°11.872 W)
SW:	Latitude: (73° 2.326' N)	Longitude: (85°12.741' W)

## DECISION

After having been satisfied that the Application is for a proposal that was previously reviewed by the NPC, with a applicable conformity determination issued on June 3, 2019. In addition, the project proposal is exempt from screening by the NIRB because it does not change the scope of the original project activities, and the exceptions noted in Section 12.4.3 (a) and (b) of the *Nunavut Agreement* do not apply.<sup>1</sup> The activities were previously screened by the Nunavut Impact Review Board (NIRB FILE NO: 19YN031), and a review of the Project is not required in accordance with Article 12, Section 12.4.4(a) of the *Agreement between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in right of Canada (Nunavut Agreement)* and s. 92(1)(a) of the *Nunavut Planning and Project Assessment Act*, S.C. 2013, c. 14, s. 2 (*NuPPAA*), as determined by NIRB.<sup>2</sup> As such, the NWB has determined that the application could proceed through the regulatory process, and in accordance with s. 55.1 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (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 persons, 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:

**Licence No: 8BD-ABH2122 be issued subject to the terms and conditions contained therein. (Motion #: 2020-B1-032)**

Signed this 17<sup>th</sup> day of March, 2021 at Gjoa Haven, NU.

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Lootie Toomasie  
Nunavut Water Board, Chair  
LT/dd/se

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1 NPC Conformity Determination; Arctic Bay Small Craft Harbour - Geotechnical Program; December 10, 2020.

2 NIRB Screening Decision Report File No.: 19YN031; August 15, 2019.

## 1. PROJECT OVERVIEW

Geotechnical investigations are required to support the engineering design phase of the Arctic Bay Harbour Development wherein a small craft harbour is being designed for the community of Arctic Bay. The operation will use a 5-ton portable rotary drill to drill 2 terrestrial holes at the intended quarry, located approximately 2 km upland from the harbour. All borehole locations will be field selected but will be within the quarry footprint. Drill water for terrestrial boreholes will be pumped from the Alternate Water Supply Lake and/or from Dead Dog Lake.

## 2. PROCEDURAL HISTORY

The Nunavut Water Board (NWB or Board) received the complete Water Licence Application (Application) from the Department of Fisheries and Oceans - Small Craft Harbours (DFO-SCH) on January 5, 2021, for a new Type “B” Water Licence. The Application included the following documents:

- Application for Water Licence;
- Arctic Bay Harbour Development Geotechnical Drilling Survey Regulatory Compliance & Environmental Management Plan, dated December 16, 2020;
- NPC Conformity Determination;
- NIRB Screening Decision;
- Project Summary – English; and
- Project Summary – Inuktitut.

On January 5, 2021, following a preliminary internal technical review the NWB concluded that the Application met the requirements of section 48(1) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWNSRTA or Act) and forwarded notice of the Application to regulators, the council of the municipality most affected by the project, and other interested parties. All parties were invited to make representations to the NWB by February 5, 2021.

Written submissions were received from Crown-Indigenous Relations and Northern Affairs (CIRNA) on February 5, 2021, and Fisheries and Oceans Canada (DFO) on January 15, 2021, requesting some clarification and additional information. On February 10, 2021, DFO-SCH responded and provided the following documents as part of the Application:

- Regulatory Information Requests excel sheet with pertinent information;
- Arctic Bay Harbour Development Geotechnical Drilling Survey Regulatory Compliance & Environmental Management Plan, Public Services and Procurement Canada, dated February 12, 2021.

It was deemed that the additional information received was adequate to address reviewers comments and no public concern was expressed during the notice period. Therefore, the NWB waived the requirement to hold a public hearing and proceeded with the application process.

Based on the results of the detailed assessment of the Application, including consideration of any potential accidents, malfunctions, or impacts to water that the overall project might have in

the area, the Board has approved the Application and has issued Water Licence 8BD-ABH2122.

### **3. GENERAL CONSIDERATIONS**

#### *Term of Licence*

In accordance with the s. 45 of *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, the NWB may issue a Licence for a term not exceeding twenty-five (25) years. A one (1) year term was requested and the NWB believes that this is appropriate.

#### **Scope Definitions and Enforcement**

The Licence allows for the use of water and deposit of waste in support of a geotechnical drilling Undertaking classified as “Other” under the *Regulations*.

#### **General Conditions**

##### *Annual Report*

As a requirement of section 14(1) of the *Nunavut Waters Regulations* and similar to the terms and conditions generally included in all licences issued by the Board, the NWB has included under Part B, Item 1 of this Licence, requirements for the Licensee to submit to the Board for review, at least thirty (30) days prior to expiry of this Licence (generally prior to the 31<sup>st</sup> of March, annually, for multiyear licences), a report detailing Water use and/or Waste deposit activities for the undertaking for the preceding year.

The submission of Annual Reports ensure that the NWB has on file accurate updates of all Water use and/or Waste deposit activities related to an undertaking for any particular year preceding one in which the report is filed. The Board provides public access to the information submitted in licensees’ annual reports through its ftp site as well as upon request from interested parties.

The NWB has included on its website a standardized form for annual reporting that licensees can use to submit annual reporting information, supplemented by other project-specific, relevant details. A copy of the NWB’s generic Annual Report Form can be obtained from the NWB upon request or electronically from the NWB’s FTP site using the following link:

<ftp://ftp.nwb-oen.ca/other%20documents/>

#### **Conditions Applying to Water Use**

The Licensee requested the use of three (3) cubic metres of Water for drilling purposes. The Board considers the volume of water requested to be reasonable and has included conditions governing water use under Part C, Item 1 in the Licence.

#### **Conditions Applying to Waste Disposal**

The Licensee indicated that Sewage and domestic waste will be disposed of at the Hamlet of Arctic Bay and drill wastes would be disposed of in boreholes (or sumps) upon completion of

drilling. The Licensee is authorized to dispose of Sewage also in sumps/latrine pits.

### **Conditions Applying to Access Infrastructure and Operations**

The Board provides conditions for construction and operation activities associated with exploration activities in Part G of this Licence.

### **Conditions Applying to Drilling Operations**

The Applicant indicated that drilling will occur on land. The Licence includes standard conditions under Part F related to drilling operations for the purpose of core drilling.

### **Conditions Applying to Modifications**

The Board allows for modification to the project in accordance with Part G of this Licence.

### **Conditions Applying to Spill Contingency Planning**

The Licensee has submitted with their application the *Arctic Bay Harbour Development Geotechnical Drilling Survey Regulatory Compliance & Environmental Management Plan*, dated February 12, 2021,

### **Conditions Applying to Closure and Reclamation**

The Licensee has submitted with their Application the *Arctic Bay Harbour Development Geotechnical Drilling Survey Regulatory Compliance & Environmental Management Plan*, dated February 12, 2021, that was approved with this Licence, and contains abandonment and restoration procedures for project activities. Under the terms and conditions in the Licence applying to abandonment and restoration, the Licensee is required to remove any remaining equipment associated with the project upon completion. Additional conditions for restoration have been included under Part I of this Water Licence.

### **Conditions Applying to Monitoring**

The Board provides conditions for monitoring associated with proposed activities in Part G of this Licence.



## NUNAVUT WATER BOARD WATER LICENCE

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**Licence No: 8BD-ABH2122**

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 FISHERIES AND OCEANS – SMALL CRAFT HARBOURS**

(Licensee)

**501 UNIVERSITY CRESCENT, WINNIPEG, MANITOBA, R3T 2N6**

(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: **8BD-ABH2122 / TYPE “B”**

Water Management Area: **ADMIRALTY INLET WATERSHED (47)**

Project / Location: **QIKIQTANI REGION, NUNAVUT**

Classification: **OTHER UNDERTAKING**

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

Quantity of Water use not  
to Exceed: **THREE (3) CUBIC METRES PER DAY**

Date of Licence Issuance: **MARCH 17, 2021**

Expiry of Licence: **MARCH 16, 2022**

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

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**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 a geotechnical investigation undertaking classified as “Other” as per Schedule 1 of the *Regulations*, located approximately 150 kilometres south of the Hamlet of Hall Beach and approximately 2 kilometres northwest of the Hamlet of Arctic Bay within the Qikiqtani Region, Nunavut.

- a. This Licence is issued subject to the conditions contained herein with respect to the taking of water and the depositing 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**

“**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;

**“High Water Mark”** means the usual or average level to which a body of water 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;

**“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”** 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”** 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;

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

**“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 Water use fees, payable to the Receiver General for Canada, shall be sent to the Board annually for the right to the use of Water in accordance with section 12 of the *Regulations*.
2. The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board at least thirty (30) days prior to the expiry of this Licence, 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 all purposes from all sources for the reporting period;
  - c. Quantity of Waste disposed of at on-site waste management facility;
  - d. Quantity of Waste backhauled to approved facility for disposal;
  - e. A list of unauthorized discharges and a summary of follow-up actions taken;
  - f. Any revisions to the Spill Contingency Plan, Closure and Reclamation Plan, as required by Part B, Item 7, submitted in the form of an Addendum;
  - g. A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after

- completion of operations;
  - h. Report all artesian flow occurrences as required under Part F, Item 3;
  - i. A summary of all information requested and results of the Monitoring Program;
  - j. Details pertaining to locations of Sump(s) and drill holes;
  - 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.
3. 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.
  4. 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 1.
  5. 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.
  6. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.
  7. 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.
  8. 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.
  9. 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:**  
Manager of Field Operations, CIRNAC  
Nunavut District, Nunavut Region

P.O. Box 100  
Iqaluit, NU X0A 0H0  
Telephone: (867) 975-4295  
Fax: (867) 979-6445

10. The Licensee shall submit one (1) 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.
11. The Licensee shall ensure that any document(s) or correspondence submitted by the Licensee to the NWB is received and acknowledged by the Manager of Licensing.
12. This Licence is assignable as provided for in section 44 of the *Act*.

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

1. The Licensee shall obtain all Water for drilling purposes from Alternate Water Supply Lake and/or from Dead Dog Lake as outland in the Application, not to exceed three (3) cubic metres per day.
2. 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.
3. 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.
4. The Licensee shall not remove any material from below the ordinary High Water Mark of any water body unless otherwise approved by the Board in writing.
5. The Licensee shall not cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion.
6. 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 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.
5. The Licensee shall contain drill Waste in Sumps located 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.
6. 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.
7. The Licensee shall contain all toilet wastes in latrine pits or use incineration, chemical, portable, composting toilets or backhauling to an approved facility. Any remaining residue generated through the course of the operation shall be backhauled and disposed of in an approved waste disposal facility.
8. 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.
9. The Licensee shall dispose of all Sewage and domestic Waste at a licensed waste disposal site.

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

1. No camp facilities are authorized under the provisions of this Licence.
2. 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.

3. 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.
4. The Licensee shall not mobilize heavy equipment or vehicles 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 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.
2. 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 by pumping it into the borehole upon completion.
3. If artesian flow is encountered, drill holes shall be immediately sealed and permanently capped to prevent induced contamination of groundwater or salinization of surface Waters. The Licensee shall report all artesian flow occurrences within the Annual Report, including the location (GPS coordinates) and dates.
4. Drilling additives or mud shall not be used in connection with holes drilled through lake ice unless they are re-circulated or contained such that they do not enter the water, or are demonstrated to be non-toxic.

#### **PART G: CONDITIONS APPLYING TO MODIFICATIONS**

1. The Licensee may, without written consent from the Board, carry out Modifications to the Water supply and Waste management structures or 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 are consistent with the NIRB Screening Decision;
  - d. the Board has not, during the sixty (60) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will

- e. require more than sixty (60) days; and  
the Board has not 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 *Arctic Bay Harbour Development Geotechnical Drilling Survey Regulatory Compliance & Environmental Management Plan*, dated February 12, 2021, and submitted as additional information with the Application.
- 2. The Licensee shall submit an Addendum to the Plan referred to in Part H, Item 1, including the contact information for the on-site person in charge of the project once an on-site phone system is established at the work site.
- 3. 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.
- 4. 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.
- 5. 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) 975-4295; 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.



6. The Licensee shall, in addition to Part H, Item 5, 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 CLOSURE AND RECLAMATION OR TEMPORARY CLOSURE**

1. The Licensee shall implement all reclamation activities outlined in the Plan entitled *Arctic Bay Harbour Development Geotechnical Drilling Survey Regulatory Compliance & Environmental Management Plan*, dated February 12, 2021, that was submitted as additional information with the Application and is approved by the Board with the issuance of the Licence.
2. The Licensee shall complete all restoration work prior to the expiry of this Licence.
3. The Licensee shall carry out progressive reclamation of any components of the project no longer required for the Licensee's operations.
4. The Licensee shall backfill and restore all Sumps to the pre-existing natural contours of the land.
5. The Licensee shall remove from the site, all infrastructure and site materials, including all fuel caches, drums, barrels, buildings and contents, docks, water pumps and lines, material and equipment prior to the expiry of this Licence.
6. All roads and airstrip, if any, shall be re-graded to match natural contour to reduce erosion.
7. The Licensee shall remove any culverts and restore the drainage to match the natural channel. Measures shall be implemented to minimize erosion and sedimentation.
8. 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.
9. Any areas that have been contaminated by hydrocarbons from normal fuel transfer procedures shall be reclaimed to meet objectives as outlined in the Government of Nunavut's *Environmental Guideline for Site Remediation*. The use of reclaimed soils for the purpose of backfill or general site grading may be carried out only upon consultation and approval by the Government of Nunavut – Department of Environment and an Inspector.
10. The Licensee shall restore all drill holes and disturbed areas to natural conditions immediately upon completion of the drilling. The restoration of drill holes must include the removal of any drill casing materials and if having encountered artesian flow, the capping of holes with a permanent seal. Where drill casings cannot be removed the Licensee shall cut off the casings at ground level and identify with signage.

11. The Licensee shall contour and stabilize all disturbed areas to a pre-disturbed state upon completion of work.

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

1. The Licensee shall measure and record, in cubic metres, the daily quantities of Water utilized for drilling and related purposes.
2. The Licensee shall provide the GPS co-ordinates (in degrees, minutes, and seconds of latitude and longitude) of all locations where sources of Water are utilized for all purposes.
3. The Licensee shall determine the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where Wastes associated with drilling operations are deposited.
4. The Licensee shall include in the Annual Report required under Part B, Item 2 all data, monitoring results and information required by this Part.