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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File No: 3BM-YRB2126

December 22, 2021

Darrin Nichol
Director
Nunavut Airport Operations, GN-EDT
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GN-CGS
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Pond Inlet, NU X0A 0S0

E-mail: broy@gov.nu.ca

RE: NWB Type “B” Water Licence No: 3BM-YRB2126

Dear Mr. Nichol and Mr. Roy:

Please find attached Licence No: **3BM-YRB2126** issued to the Government of Nunavut – Department of Economic Development and Transportation (GN-EDT or Licensee) 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)* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWSRTA)*. 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 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 Water use and Waste disposal must cease, or the Licensee may be in contravention of the *Nunavut Agreement* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (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 Section 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 Section 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 been received and are acknowledged by the Manager of Licensing.

The NWB strongly recommends that the Licensee consult the comments received from interested parties on issues identified. This information is attached for your consideration.¹

Sincerely,

Lootie Toomasie
Nunavut Water Board
Chair

LT/rqd/sk

Enclosure: Licence No: **3BM-YRB2126**

Comments: CIRNA, ECCC

Cc: Distribution List - Qikiqtani

¹ Crown-Indigenous Relations and Northern Affairs (CIRNA), November 4, 2021; and Environment and Climate Change Canada (ECCC), November 2, 2021.

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I. BACKGROUND

Application is by the Government of Nunavut – Community and Government Services (GN-CGS or the Applicant), on behalf of the Government of Nunavut – Department of Economic Development and Transportation (GN-EDT or Licensee), for the renewal, for a term of five (5) years, of Type “B” Water Licence No: 3BM-YRB1621 to allow for the continued operation of a Sewage Disposal Facility located within the municipal boundaries of the Hamlet of Resolute Bay in the Qikiqtani Region, Nunavut. The Licence under which the Sewage Disposal Facility operated is set to expire on December 15, 2021.

In the current Application, the Licensee notes that the scope of activities currently authorized under Water Licence No: 3BM-YRB1621 will remain unchanged.

II. FILE HISTORY

Historically, all or some aspects of the works, activities, and facilities associated with the undertaking have been licensed by the NWB and the Northwest Territories Water Board (NWTWB), as outlined in Table 1.

Table 1. Project Licensing History

Licence No.	Date Issued	Comments
N4L3-1561	May 1, 1996	Initial Licence issued by the NWTWB to the Government of the Northwest Territories – Arctic Airports Division to allow for the use of 50,000 cubic metres of Water annually and the deposit of Waste for a municipal undertaking
NWB3YRB0308/ 3BM-YRB0308	November 30, 2003	Renewal Licence issued by the NWB to the Government of Nunavut – Department of Community Government and Transportation to allow for the use of 600 cubic metres of Water annually and the deposit of Waste in support of a Municipal undertaking
3BM-YRB1621	December 16, 2016	Renewal-Amendment Licence issued to the GN-EDT: potable Water use and solid Waste deposit activities excluded from the scope of the Licence and moved to separate Licences issued to the Hamlet of Resolute Bay; 1 cubic metre of Water is allowed to be used per year for sampling purposes.

III. PROCEDURAL HISTORY

On August 30, 2021, the GN-CGS, on behalf of the GN-EDT, submitted to the NWB an Application, requesting to renew Water Licence No: 3BM-YRB1621. The following documents were included within the Application package:

- Cover Letter;
- Authorization Letter;
- Water Licence Renewal Application Form;
- Non-technical Summaries in English and Inuktitut; and
- Plan for Compliance of the Resolute Bay Airport Sewage Lagoon.

Following the Board's receipt of the Application, a preliminary review was conducted, in which additional information was requested from the Applicant on September 17, 2021. On September 26, 2021, the Applicant provided their responses to the NWB's questions, and on October 1, 2021 submitted an updated Spill Contingency Plan and a revised Water Licence Application Form. Following this, the NWB concluded that the Application met the requirements of section 48(1) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNSTRA or Act)* and forwarded Notice of the Application to interested parties. All parties were invited to make representations to the NWB by November 4, 2021.

On or before the deadline, the NWB received comments from Crown-Indigenous Relations and Northern Affairs (CIRNA)² and Environment and Climate Change Canada (ECCC)³. These comments were addressed by the Applicant on November 29, 2021 and were found satisfactory by CIRNA and ECCC on November 30, 2021 and December 1, 2021, respectively.

Complete details on Interveners' submissions received as well as the information provided for the Application are available from the NWB File Transfer Protocol (FTP) site using the following link:

<ftp://ftp.nwb-oen.ca/registry/3%20MUNICIPAL/3B/3BM%20-%20Municipality/3BM-YRB2126/2%20ADMIN/3%20SUBMISSIONS>

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 No: 3BM-YRB2126.

IV. GENERAL CONSIDERATIONS

The Renewal Licence No: 3BM-YRB2126 will be effective on December 16, 2021 to allow the GN-EDT for the continuation of activities approved under the existing Licence No: 3BM-YRB1621. Since the Project activities have remained the same as with the existing or previous Licence, all terms and condition in the Renewal Licence will remain the same.

Term of the Licence

In accordance with Section 45 of the *Act*, the NWB may issue a licence for a term not exceeding

² CIRNA Letter, Re: Crown-Indigenous Relations and Northern Affairs Canada's Review of Water Licence 3BM-YRB1621 Renewal Application by the Government of Nunavut – Department of Economic Development and Transportation for the Airport Sewage Lagoon, Resolute Bay, dated November 4, 2021.

³ ECCC Letter, Re: Technical Review of Water Licence Renewal Application – Hamlet of Resolute Bay Airport Sewage Lagoon (3BM-YRB1621), dated November 2, 2021.

twenty-five (25) years. The Applicant requested a five (5) year licence, which the Board determined is consistent for the nature of the undertaking and has therefore granted.

Annual Reporting

As a requirement of section 14(1) of the *Nunavut Waters Regulations* (Regulations) and similar to the terms and conditions generally included in all licences issued by the NWB, the Board has included under [Part B, Item 1](#) of this Licence, requirement to submit Annual Reports for the purpose of ensuring that the NWB has an accurate annual update of the 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 could be supplemented by additional monitoring documentation and Licensee’s annual reporting forms. The NWB Standardized Form is available from the NWB’s FTP site under the following Public Registry link at the NWB Website:

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

Water Use

No Water use is requested under this renewal Licence. All potable Water is currently obtained and accounted for under Licence No: 3AM-RUT2035, issued to the Hamlet of Resolute Bay. The Board has, however, authorized under Part C, Item 1 of this Licence, the use of one (1) cubic metre of water per day for sampling and monitoring purposes involving Strip Lake.

Waste Management

All requirements pertaining to Waste management that were imposed by previous Water Licence have been carried forward into the newly issued Licence. The Applicant acknowledges that “Sewage effluent quality in the wetland is a concern. The truck sewage will be redirected into the new WWTP once it is built and commissioned in 2024/2025. Then this lagoon will be decommissioned”. The NWB encourages GN-EDT to pursue the plans of WWTP construction.

In their submission³, ECCC recommended to include both ‘no visible sheen’ and a Maximum Average Concentration (MAC) limit under the Effluent Quality Criteria (EQC) for oil and grease, as the Water Licence is associated with an airport. ECCC also noted that municipal oil and grease limits are typically 5 mg/L. The NWB considered this recommendation and included the MAC of 5mg/L for oil and grease under [Part D, Item 2](#) of the new Water Licence.

Management Plans/Manuals

The Licensee has submitted a plan entitled *Spill Contingency Plan, Resolute Bay Airport Existing Sewage Lagoon*; dated September 2021, which the Board reviewed and approved under [Part F, Item 3](#) of this Licence.

In their submission², CIRNA recommended to develop and submit a closure and reclamation plan for the existing Sewage Disposal Facility. The Applicant clarified that the design of the new

wastewater treatment plant (WWTP) will be done in 2022/2023 and the Abandonment & Restoration Plan for the Sewage Disposal Facility will be done at the same time.

In their submission³, ECCC recommended that the existing Operations and Maintenance Manual and the Quality Assurance/ Quality Control Plan be updated and submitted to the Board. With respect to the QA/QC Plan, ECCC recommended to include the following quality control sampling information:

1. In consultation with the analytical laboratory, describe how and when to collect duplicate samples, field blanks and travel blanks;
2. Incorporate at least one travel blank per sampling event; and
3. Ensure that the quality control samples represent at least 10% of the total samples collected.

The Applicant emphasized that COVID-19 situation and extremely tight schedule would make this very hard and proposed to include this as a condition in the renewed Licence to be completed within 4 (four) months from the date of issuance of the Licence.

The Board appreciates this clarification and included a requirement to submit the updated plans within the next Annual Report submission.

Monitoring

All Monitoring requirements imposed by previous Water Licence have been carried forward into newly issued Licence under [Part H](#).

As per ECCC's recommendation³, the Licensee is advised to measure and record the ambient conditions (including precipitation, wind speed and direction, air temperature, and pH and temperature of receiving water body) and any other notable conditions (such as algal growth) at the time of sampling, and use this information to support the interpretation of monitoring data.

DECISION

LICENCE NUMBER: 3BM-YRB2126

This is the decision of the Nunavut Water Board (NWB) with respect to an application dated August 30, 2021 for the renewal of Type “B” Water Licence made by the:

GOVERNMENT OF NUNAVUT – DEPARTMENT OF ECONOMIC DEVELOPMENT AND TRANSPORTATION

to allow for the continued deposit of Waste for a Municipal undertaking occurring within the municipal boundaries of the Hamlet of Resolute Bay, in the Qikiqtani Region of Nunavut, at the following general geographical coordinates:

Latitude: 74° 42’ 00” N Longitude: 94° 50’ 00” W

DECISION

After having been satisfied that the Application was in conformity with the North Baffin Regional Land Use Plan and exempt from the requirement for screening by the Nunavut Impact Review Board (NIRB) 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 Section 92(1) of the *Nunavut Planning and Project Assessment Act*, as determined by the Nunavut Planning Commission (NPC)⁴, the NWB concluded that the Project could proceed through the NWB’s regulatory process. 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:

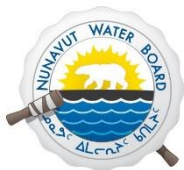
Licence No: 3BM-YRB1621 be renewed as Licence No: 3BM-YRB2126, subject to the terms and conditions contained therein (Motion #: 2021-B1-020).

Signed this 22nd day of DECEMBER, 2021 at Gjoa Haven, NU.

Lootie Toomasie
Nunavut Water Board, Chair

LT/sk/se

⁴Nunavut Planning Commission (NPC) Conformity Determination, dated August 4, 2021.



NUNAVUT WATER BOARD RENEWAL WATER LICENCE

Licence No: 3BM-YRB2126

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

**THE GOVERNMENT OF NUNAVUT – DEPARTMENT OF ECONOMIC
DEVELOPMENT AND TRANSPORTATION**

(Licensee)

P.O BOX 560, RANKIN INLET, NUNAVUT X0C 0G0

(Mailing Address)

hereinafter called the Licensee, the right to dispose of Waste for a period subject to restrictions and conditions contained within this Licence renewal:

Licence Number/Type: **3BM–YRB2126 / TYPE “B”**

Water Management Area: **BATHURST & CORNWALLIS ISLANDS
WATERSHED (55)**

Location: **HAMLET OF RESOLUTE BAY, QIKIQTANI REGION,
NUNAVUT**

Classification: **MUNICIPAL UNDERTAKING**

Purpose: **DEPOSIT OF WASTE**

Quantity of Water use not
to exceed: **ONE (1) CUBIC METRE OF WATER PER YEAR
(FOR SAMPLING PURPOSES ONLY)**

Effective Date: **DECEMBER 22, 2021**

Expiry of Licence: **DECEMBER 21, 2026**

This Licence renewal, 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 Deposit of Waste for a Municipal undertaking, by the Government of Nunavut – Department of Economic Development and Transportation, classified as per Schedule 1 of the *Regulations*, located in the Qikiqtani Region, Nunavut.

- a. This Licence is issued subject to the conditions contained herein with respect to 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;

“**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 Land Claims 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 sewage lagoon, 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;

“Final Discharge Point” with respect to effluent means the stream from Finger Lake immediately prior to entry into Airport Lake;

“Freeboard” means the vertical distance between water line and crest on a dam or dyke’s upstream slope;

“Geotechnical 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.

“Grab Sample” means an undiluted quantity of material collected at a particular time and place that may be representative of the total substance being sampled at the time and place it was collected;

“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;

“Monitoring Program” means a monitoring program established to collect data on surface water and groundwater quality to assess impacts to the freshwater aquatic environment of an appurtenant undertaking;

“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 18th 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;

“**Sewage Disposal Facility**” comprises the area and engineered lagoon and decant structures designed to contain sewage and commercial wastewater as described in the Application for Water Licence filed by the Applicant on August 30, 2021;

“**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;

“**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 Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than the 31st of March of the year following the calendar year being reported, containing the following information:
 - a. tabular summaries of all data generated under the “Monitoring Program” under Part H, and an indication of wastewater treatment levels upstream and downstream of the Wetland Area;
 - b. summary of modifications to the “Monitoring Program” in accordance with Part H, Item 10;
 - c. the annual quantity in cubic metres of any sludge removed from the Sewage Disposal Facility along with the treatment, storage, and disposal provided as required in Part H, Item 8;
 - d. a summary of modifications and/or major maintenance work carried out on the Sewage Disposal Facility, including all associated structures and facilities;
 - e. a list of unauthorized discharges and summary of follow-up action taken;
 - f. a summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year;
 - g. any updates or revisions for manuals and plans, including the Spill Contingency Plan, Quality Assurance/ Quality Control Plan and Operations and Maintenance Manual, as required by changes in operation and/or technology, may be subject to Board acceptance and/or approval;
 - h. detailed minutes of any public consultation and participation with local organizations and the residents of the community regarding licence amendments;
 - i. summary of any studies or reports requested by the Board that relate to Water use and Waste disposal or restoration, and a brief description of any future studies planned; and
 - j. any other details on Water use or Waste disposal requested by the Board by the 1st of November of the year being reported.
2. The Licensee shall comply with the Monitoring Program described in this Licence, and any amendments to the Monitoring Program as may be made from time to time, pursuant to the conditions of this Licence.
3. The Monitoring Program and compliance dates specified in the Licence maybe modified at the discretion of the Board in writing.
4. The Licensee shall install flow meters or other such devices, or implement suitable methods required for the measuring of Waste discharged as required under Part H, Monitoring Program.
5. The Licensee shall post the necessary signs to identify the stations of the “Monitoring Program”. All signage postings shall be in the Official Languages of Nunavut.
6. 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

(b) Inspector Contact:
Manager of Field Operations, CIRNA
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0
Telephone: (867) 975-4284
Fax: (867) 979-6445

7. 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 English and Inuktitut.
8. The Licensee shall ensure that all document(s) and correspondence submitted by the Licensee, to the NWB, are received and acknowledged by the Manager of Licensing.
9. 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.
10. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.
11. 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.
12. 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.
13. 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.
14. The compliance dates specified in the Licence may be modified upon approval of the Board in writing.

15. This Licence is assignable as provided for in section 44 of the *Act*.
16. The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence, or any other regulatory requirement.
17. The Board has accepted the Plan for Compliance submitted as additional information with the Application.

PART C: CONDITIONS APPLYING TO WATER USE

1. The Licensee is authorized to use up to one (1) cubic metre of Water per year for sampling activities related to Strip Lake.
2. The Licensee shall not remove any material from below the ordinary High Water Mark of any Water body unless approved by the Board in writing.
3. The Licensee shall not cause erosion to the banks of any body of Water and shall provide necessary controls to prevent such erosion.
4. The Licensee shall implement sediment and erosion control measures prior to and maintained as required during Hamlet operations, to prevent entry of sediment into Water.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

1. The Licensee shall direct all Sewage generated under the scope of this Licence to the Sewage Disposal Facility or as otherwise approved by the Board in writing.
2. All Effluent discharged from the Sewage Disposal Facility at Monitoring Program Station YRB-3 and YRB-4 shall not exceed the following Effluent quality limits:

Parameter	Maximum Concentration of any Grab Sample
BOD ₅	120 mg/L
Total Suspended Solids	180 mg/L
Faecal Coliforms	1 x 10 ⁶ CFU/100mL
Oil and grease	No visible sheen and 5 mg/L
pH	between 6 and 9

3. The Licensee shall ensure that a Freeboard limit of 1.0 metre, or as recommended by a qualified Geotechnical Engineer and approved by the Board, is maintained at all dykes and earth-fill structures associated with the Sewage Disposal Facility.
4. The Licensee shall advise an Inspector at least ten (10) days prior to initiating any decant of the Sewage Disposal Facility.

5. The Sewage Disposal Facility shall be maintained to the satisfaction of an Inspector, and operated in such a manner as to prevent erosion and structural failure.
6. If, during the term of this Licence, additional Final Discharge Points are identified, the Licensee shall submit the information pertaining to the new Final Discharge Point, within thirty (30) days after the discharge point is identified and at least sixty (60) days prior to the release of Effluent through the new Final Discharge Point and/or proposed changes are made to a Final Discharge Point.
7. 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.
8. 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
9. The Licensee shall implement measures to monitor the impact of leachate from the Sewage Disposal Facility.
10. The Licensee shall measure, annually, the depth and quality of the sludge generated by the Sewage Disposal Facility as well as implement measures to ensure adequate management of the sludge generated.

PART E: CONDITIONS APPLYING TO MODIFICATIONS AND CONSTRUCTION

1. The Licensee shall submit to the Board for approval, for construction drawings stamped and signed by a qualified engineer, at least sixty (60) days prior to the construction of any dams, dykes or structures intended to contain, withhold, divert or retain Water or Wastes.
2. The Licensee may, without written approval from the Board, carry out modifications to the waste disposal facilities provided that such modifications are consistent with the conditions and scope 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. these modifications do not place the Licensee in contravention of the Licence or the Act;
 - c. the Board has not, during the sixty (60) days following notification of the proposed modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
 - d. the Board has not rejected the proposed modifications.
3. Modifications for which all of the conditions referred to in Part E, Item 2(a) through (d), have not been met, may only be carried out upon written approval from the Board.

4. The Licensee shall provide as-built plans and drawings of the Modifications or construction referred to in this Part within ninety (90) days of completion of the Modification or construction. These plans and drawings shall be stamped and signed by an Engineer.
5. All activities shall be conducted in such a way as to minimize impacts on surface drainage and the Licensee shall immediately undertake any corrective measures in the event of any impacts on surface drainage.

PART F: CONDITIONS APPLYING TO OPERATIONS AND MAINTENANCE

1. The Licensee shall implement the plan entitled *Operation and Maintenance Manual for the Resolute Bay Airport Existing Sewage Lagoon*, dated April 2016, that was previously approved by the Board. The Licensee shall submit an updated version of this plan to the Board for review within the next Annual Report submission to include recommendations made during the review of Application.
2. An inspection of all engineered structures or facilities designed to contain, withhold, divert, or retain Water or Waste, shall be conducted by an Engineer, at least once annually, during the summer months (July/August) and/or during periods of flow. An Engineer's report shall be submitted to the Board within sixty (60) days of the date of inspection, including a cover letter from the Licensee outlining an implementation plan to address each of the Engineer's recommendations.
3. An inspection of all engineered facilities shall be conducted, during the summer period (July/August), by a Geotechnical Engineer in accordance with the Canadian Dam Safety Guidelines, at least one (1) year prior to expiry of the Licence or at five (5) year interval, whichever occurs first. The Geotechnical Engineer's report shall be submitted to the Board within sixty (60) days of the inspection, including a cover letter from the Licensee outlining an implementation plan to address each of the Engineer's recommendations.
4. The Board has approved the Plan entitled *Spill Contingency Plan, Resolute Bay Airport Existing Sewage Lagoon*; dated September 2021, which was submitted as additional information with the Application.
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 24-Hour NWT/NU 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.

6. The Licensee shall, in addition to Part F, Item 5, regardless of the quantity of releases of harmful substances, report to the 24-Hour NWT/NU Spill Line if the release is near or into a Water body.

PART G: CONDITIONS APPLYING TO CLOSURE AND RECLAMATION

1. The Licensee shall submit to the Board for approval in writing, at least six (6) months prior to abandoning any facilities and the construction of new facilities to replace existing ones, a Closure and Reclamation Plan that includes but is not limited, where applicable, to the following:
 - a. Water intake facilities;
 - b. the Water treatment and Waste disposal sites and facilities;
 - c. petroleum and chemical storage areas;
 - d. any site affected by Waste spills;
 - e. leachate prevention;
 - f. an implementation schedule;
 - g. maps delineating all disturbed areas, and site facilities;
 - h. consideration of altered drainage patterns;
 - i. type and source of cover materials;
 - j. future area uses;
 - k. hazardous Wastes; and
 - l. a proposal identifying measures by which restoration costs will be financed by the Licensee upon abandonment.
2. The Licensee shall implement the plan specified in Part G, Item 1 as and when approved by the Board in writing.
3. The Licensee shall conduct and submit together with the Plan required under Part G, Item 1, an Environmental Assessment of the area occupied by the Sewage Disposal Facility including Wetland Area.
4. The Licensee shall complete the restoration work within the time schedule specified in the Plan, or as subsequently revised and approved by the Board in writing.
5. The Licensee shall carry out progressive reclamation of any components of the project no longer required for the Licensee's operations.
6. All disturbed areas shall be stabilized and re-vegetated as required upon completion of work and restored as practically as possible to a pre-disturbed state.

PART H: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall maintain Monitoring Program Stations and implement the program as described in the table below and the conditions under this Part.

Monitoring Program Station ID	Description	Frequency	Status
YRB-1a	Water Sampling Point at Strip Lake	Annually during Periods of Flow	Active (Water Quality)
YRB-1b	Effluent from the Sewage Disposal Facility	<u>Volume</u> Monthly and Annually during Periods of Flow	Active (Volume) (Water Quality)
YRB-2	Effluent within the Wetland Area	<u>Water Quality</u> Monthly during periods of flow	Active (Water Quality)
YRB-3	Effluent within the Wetland Area	<u>Water Quality</u> Annually during periods	Active (Water Quality)
YRB-4	Effluent at the Final Discharge Point / Downstream of the Wetland	<u>Water Quality</u> Annually during periods of flow	Active (Water Quality)

2. The Licensee shall confirm the locations and GPS coordinates for all monitoring stations referred to in Part H, Item 1 with an Inspector.
3. The Licensee shall sample Monitoring Stations YRB-1a, YRB-1b, YRB-2, YRB-3, and YRB-4 for the following parameters in accordance with the frequency outlined in Part H, Item 1:

Biochemical Oxygen Demand BOD ₅	Fecal Coliforms
Total Suspended Solids	pH
Conductivity	Nitrate-Nitrite
Oil and Grease (visual)	Total Phenols
Magnesium	Calcium
Sodium	Potassium
Chloride	Sulphate
Total Hardness	Total Alkalinity
Ammonia Nitrogen	Total Zinc
Total Cadmium	Total Iron
Total Cobalt	Total Manganese
Total Chromium	Total Nickel
Total Copper	Total Lead
Total Mercury Total	Organic Carbon (TOC)
Total Aluminum	Total Arsenic

Carbonaceous Biochemical Oxygen Demand (cBOD)

4. The Licensee shall record the ambient conditions (including precipitation, wind speed and direction, air temperature, and pH and temperature of receiving waterbody) and any other notable conditions (such as algal growth) at the time of sampling, and use this information to support the interpretation of monitoring data.
5. The Licensee shall revise and submit, within the next Annual Report submission, the Plan entitled *Hamlet of Resolute Bay Airport Sewage Lagoon Quality Assurance/Quality Control Plan*, dated April 2016, previously accepted by the Board. The revised Plan shall include a letter of approval from a certified or an accredited laboratory and recommendations made during the review of Application.
6. The Licensee shall conduct all sampling, sample preservation and analyses 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 a laboratory certified by the Canadian Association for Laboratory Accreditation (CALA) and as otherwise acceptable to the Board.
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 measure and record in cubic metres the monthly and annual quantities of Effluent discharged at Monitoring Program Station Number YRB-4 into the receiving environment.
9. The Licensee shall measure and record in cubic metres, the annual quantities of Sewage solids removed from the Sewage Disposal Facility.
10. The Licensee shall include all of the data and information required by the Monitoring Program in the Licensee's Annual Report, as required under Part B, Item 1.
11. Modifications to the Monitoring Program may be made only upon written approval from the Board. Requests for changes to the Monitoring Program should be forwarded to the NWB in writing, and should include the justification and appropriate evidence to support the requested change.