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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File No: **1BR-MDR2126**

May 14, 2021

John Cowan
Transport Canada
344 Edmonton St,
Winnipeg
Manitoba R3C 0P6

Email: john.cowan@tc.gc.ca

RE: NWB Renewal Licence No: 1BR-MDR2126

Dear Mr. Cowan:

Please find attached Licence No: **1BR-MDR2126** (Licence) issued to Transport Canada (TC) 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 disposal 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*. 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.

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 by interested persons on issues identified. This information is attached for your consideration.¹

Sincerely,

Lootie Toomasie
Nunavut Water Board
Chair

LT/as/rqd

Enclosure: Licence No: **1BR-MDR2126**
Comment – CIRNA

Cc: Qikiqtani Distribution List

¹ Crown-Indigenous Relations and Northern Affairs (CIRNA), May 05, 2021.

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DECISION

LICENCE NUMBER: 1BR-MDR2126

This is the decision of the Nunavut Water Board (NWB) with respect to a complete application received on February 26, 2021 for the renewal of a Water Licence made by:

TRANSPORT CANADA

to allow for the use of water and deposit of waste during remediation activities by Transport Canada located within the Qikiqtani Region, Nunavut, generally located at the geographical coordinates as follows:

Project extents:	Max Latitude: 63° 44' 18.6" N	Max Longitude: 68° 33' 33.1" W
	Min Latitude : 63° 44' 1.7" N	Min Longitude : 68° 32' 58.5" W

DECISION

After receiving confirmation that the Application was for a location that falls outside of an area with an approved Land Use Plan² as determined by the NPC (NPC file No. 149487) and that the project proposal was previously screened by the Nunavut Impact Review Board (NIRB), a review is not required in accordance with paragraph 92(10) (a) of the Nunavut Planning and Project Assessment Act (NuPPAA)³ as determined by the Nunavut Impact Review Board (NIRB), the NWB has decided that the Application could proceed through the 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: 1BR-MDR1721 be renewed as Licence No: 1BR-MDR2126 subject to the terms and conditions contained therein. (Motion #: 2021-B1-002)

Signed this 14th day of May, 2021 at Gjoa Haven, NU.

Lootie Toomasie
Nunavut Water Board, Chair
LT/as/rqd

² Nunavut Planning Commission (NPC) Determination, March 15, 2021

³ Nunavut Impact Review Board (NIRB), May 16, 2017

I. BACKGROUND

The Iqaluit Former Vehicle Dump and Community Landfill (the site) is situated approximately 1.7 km southwest of the City of Iqaluit, Nunavut. The United States Air Force (USAF) used the site from 1955 to 1963 as a metal dump for vehicles, truck bodies, barrels and scrap metal. The majority of materials were deposited in 1963 when the US Military left Frobisher Bay.

The former dump and landfill occupied a total area of approximately 7.25 ha (72,500 m²), which included the up-gradient debris area and the lower area bordering the Sylvia Grinnell River. Transport Canada (TC) proposed to implement a remediation project at the site to address the environmental and physical impacts associated with the historical military and municipal waste disposal at the site.

The two main areas of waste present at the site include the main debris/community landfill, located in the central portion of the site and spanning the top, and toe of a bedrock escarpment that runs northwest/southeast, and the vehicle dump located approximately to the south and parallel with the main landfill.

The site was remediated during 2017. A Long-Term Monitoring (LTM) plan was developed in August 2017 by Arcadis, outlining a sampling program to monitor natural attenuation at the site. As per the LTM, the initial Phase 1 of monitoring is required in Years 1, 3, and 5 following remediation. The 2020 monitoring program was year 3 of the LTM program.

The 2020 LTM field program took place on September 19, and included visual monitoring and monitoring of the natural environment, in addition to an environmental sampling program. A total of nine surface water samples and nine sediment samples, including a duplicate for each medium, were collected during the field program. It was determined that no seepage or soil sampling was required during the 2020 field program.

Exceedances to the applicable environmental quality guidelines (EQG) in the 2020 surface water analytical results were limited to zinc at monitoring station LTM-SD7 only⁴. A review of the data over time indicates that concentrations are overall decreasing in surface water, however it is noted that zinc, cadmium, and lead were each elevated at monitoring station LTM-SW7 in 2019⁵. A number of exceedances to the applicable EQG were noted among the 2020 sediment analytical result.

Metals and PHC parameters generally continue to be measured at consistent concentrations at the site since 2018 with some exceptions. Total PCBs have been detected in sediment at several locations at the site since monitoring was initiated in 2018.

⁴ LTM-SD7 as defined in the plan “Performance & Long Term Monitoring Plan (LTM), Former Metal Dump And Community Landfill” dated August 03, 2017

⁵ LTM-SW7 as defined in the plan “Performance & Long Term Monitoring Plan (LTM), Former Metal Dump And Community Landfill” dated August 03, 2017

II. PROCEDURAL HISTORY

On **February 26, 2021**, Transport Canada submitted a renewal Water Licence Application (Application). The following documents were submitted by the Applicant:

- Water Licence Renewal Application;
- Executive Summaries in English and Inuktitut;
- Figures 1 and 2;
- Letters of Notice to Interested Parties and associated correspondence;
- Spill Contingency Plan;
- Summary of Potential Environmental and Resource Impacts;
- 1BR-MDR1721 Licence and monitoring plan;
- Email confirmation that a NIRB review is not required for licence renewal;
- 2017 Annual Report;
- 2018 Final site remediation report;
- Compliance monitoring reports for 2018, 2019 and 2020.

On **March 17, 2021**, the NWB concluded that the Application generally 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 interested parties. All parties were invited to make representations to the NWB within thirty (30) days by **April 16, 2021**. The comment period was extended to **May 05, 2021** to allow time to review additional documents that were unintentionally omitted from the initial document review period.

On the deadline for comments, submissions were received from Crown Indigenous Relations and Northern Affairs (CIRNA) who voiced concerns about the quality of the monitoring results. The 2020 monitoring results showed that the relative percentage difference (RPD) between the duplicate samples for surface water and sediment was higher than 40% for at least four parameters including lead, zinc, total PCBs and PHC-F2. CIRNA has recommended that the Licensee revise its sampling and QA/QC plans prior to the next monitoring event to improve the quality of the reported results.

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

<ftp://ftp.nwb-oen.ca/registry/1%20INDUSTRIAL/1B/1BR%20-%20Remediation/1BR-MDR2126%20TC/>

III. FILE HISTORY

According to information included on the NWB's file transfer protocol (FTP) site, only one licence has been issued by the Nunavut Water Board (NWB) to Transport Canada for this Undertaking and this is the existing licence, 1BR-MDR1721 which expires on July 30, 2021.

IV. GENERAL CONSIDERATIONS

The following sections provide background information relevant to the terms and conditions included in this Licence, in the context of submissions received and/or the Board's rationale.

Term of the Licence

In accordance with s. 45 of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* (NWSRTA 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 Licensee requested in its Application, a five (5) year term for the licence. The only Intervener for this Application, CIRNA, in its submission did not comment on the term requested for the renewal licence. The Board, in examining the compliance history of the Licensee, felt that a five year term was appropriate. The Board has therefore granted the term requested by the Licensee. In so doing, the Board believes and expects that the **five-year term** will provide the Licensee with opportunities to monitor and evaluate the stability of the remediated site and consistently abide by the terms and conditions in the Licence over time, prior to a need for renewal.

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 site monitoring activities 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 FTP site under the Public Registry link at the NWB Website:

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

Water Use

The Board has authorized the maximum water usage of fifty (50) cubic metres per day to allow for water sampling and related activities. The Applicant has indicated that water extracted for sampling and monitoring purposes will come from the on-site ponds. Water use on-site is not expected to exceed 50 m³ per day.

Deposit of Waste

All remediation works were finalized in October 2017. The Applicant has indicated that undertaking is for long-term monitoring of the site and is not expected to create any new waste.

Closure and Reclamation Plan

All remediation works were finalized in October 2017 and the site is under long-term monitoring phase. Further reclamation activities are not expected to occur on-site. General terms and conditions have been included under Part J of the Licence.

Monitoring Plan

Under Part K, Item 1, the Board has reaffirmed that the Licensee will continue to implement the plan entitled “Performance & Long Term Monitoring Plan (LTM), Former Metal Dump And Community Landfill” dated August 03, 2017 which was approved by the Board on September 25, 2017.

Under Part K, Item 2, the Board requires the Licensee to submit a revised QA/QC Plan, with an endorsement letter from a CALA certified lab, for Board review within ninety (90) days following the issuance of the Licence.

The NWB notes that the report “Compliance Long Term Monitoring For Transport Canada At The Former Iqaluit Metal Dump Iqaluit, NU, dated 17 December, 2020” recommends that monitoring be conducted in 2021 to obtain additional data for the evaluation of the progression of natural attenuation at the site. Although the LTM program does not require monitoring on the site in 2021, the NWB strongly suggests following the recommendation made by the consultant, provided that this is feasible during the current health restrictions due to the ongoing pandemic.

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



NUNAVUT WATER BOARD WATER LICENCE

Licence No: 1BR-MDR2126

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

TRANSPORT CANADA

(Licensee)

344 EDMONTON STREET, WINNIPEG, MANITOBA R3C 0P6

(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 renewal:

Licence Number/Type: **1BR-MDR2126 TYPE "B"**

Water Management Area: **FROBISHER BAY WATERSHED (53)**

Location: **QIKIQTANI REGION, NUNAVUT**

Classification: **INDUSTRIAL UNDERTAKING**

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

Quantity of Water use not to Exceed: **50 CUBIC METRES *PER* DAY**

Effective Date: **JULY 31, 2021**

Expiry of Licence: **JULY 30, 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 use of Water and the deposit of Waste for an Industrial undertaking classified as per Schedule 1 of the *Regulations* for the Former Iqaluit Metal Dump Remediation Project, located in Iqaluit, within the Qikiqtani Region of 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

In this Licence 1BR-MDR2126

“**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 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, lagoon (including wetland), landfill 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.2d* the *Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12*;

“Geotechnical Engineer” means a professional engineer registered with the Association of Professional Engineers, Geologist and Geophysicists of Nunavut and whose principal field of specialization with the engineering properties of earth materials in dealing with man-made structures and earthworks that will be built on a site. These can include shallow and deep foundations, retaining walls, dams, and embankments;

“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;

“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 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*;

“Landfarm Facility” means an engineered facility and associated appurtenance designed and constructed for the treatment and storage of hydrocarbon impacted soil and/or Water, as described in the Remedial Action Plan, Former Metal Dump and Community Landfill, dated 27 January 2017 by Arcadis Canada Ltd., submitted on March 3, 2017;

“Licensee” means the holder of this Licence;

“Long-Term Monitoring (LTM) Program” refers to the Plan entitled *“Performance & Long Term Monitoring Plan (LTM), Former Metal Dump And Community Landfill, Iqaluit Nunavut”* prepared by Arcadis, dated August 03, 2017 and approved by the Board on September 25, 2017.

“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;

“Non-Hazardous Waste Landfill” comprises the landfill constructed for the disposal of non-hazardous Waste derived from the site cleanup, as described in plan entitled *“Remedial Action Plan, Former Metal Dump and Community Landfill”*, dated January 27, 2017.

“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*;

“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;

“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 March of the year following the calendar year being reported, containing the following information:
 - a. A summary report of Water use activities;
 - b. A summary of any construction work, modification and major maintenance work (including as-built diagrams) carried out;

- c. Tabular summaries for all data and information generated under the Monitoring Program;
 - d. A review and analysis of data collected during the Monitoring Program and a brief description of any future studies planned by the Licensee;
 - e. The results of any review conducted and any recommendations regarding any changes to the Monitoring Program and/or remediation requirements;
 - f. A summary of any remediation work undertaken during the year and an outline of any work anticipated for the next year;
 - g. A list of unauthorized discharges and summary of follow-up actions taken;
 - h. Any updates or revisions for manuals and plans as required by changes in operation and/or technology;
 - i. If applicable, a description of any trenches and sumps excavated, including the following: GPS coordinates, dimensions, depth below active layer, and secondary containment features;
 - j. A brief summary of work done to address any concerns of deficiencies listed in the inspection reports and/or compliance reports prepared by an Inspector;
 - k. An executive summary in English and Inuktitut of all plans, reports, or studies conducted under this Licence; and
 - l. Any other details on Water use or deposit of Waste requested by the Board by 1st of November of the year being reported.
2. The Licensee shall comply with the Long-Term Monitoring Program described in this Licence, and any amendments as may be made from time to time, pursuant to the conditions of this Licence.
 3. The Long-Term Monitoring Program and compliance dates specified in the Licence may be modified at the discretion of the Board.
 4. The Licensee shall post signs in the appropriate areas to identify the stations of the Long-Term Monitoring Program associated with the undertaking. All signage postings shall be in the Official Languages of Nunavut.
 5. 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.
 6. 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.
 7. The Licensee shall, for all Plans submitted under this Licence, implement the Plan as approved by the Board in writing.
 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 review the Plans referred to in this Licence as required by changes in operation and/or technology and modify the Plans accordingly. Revisions to the Plans are to be submitted in the form of an Addendum to be included with the Annual Report required by Part B, Item 1, complete with a revisions list detailing where significant content changes are made.
10. 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
11. 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.
12. 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.
13. This Licence is assignable as provided for in Section 44 of the Act.
14. 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 is authorized to use up to fifty (50) cubic metres of Water per day for water diversion, remediation, sampling and related activities.

2. The Licensee is required to determine and record the GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) of all locations where water is used and include this information in the submitted Annual Reports.
3. The Licensee is required to measure and record in cubic metres, the quantities of Water used.
4. The Licensee shall not remove any material from below the ordinary High Water Mark of any Water body unless authorized.
5. The Licensee shall implement and maintain sediment and erosion control measures prior to and during the operation to prevent entry of sediment and/or dust into Water.
6. The Licensee shall implement measures to prevent the deposition of dust and/or sediment into Water arising from contractor activities or any on-site vehicular traffic.

PART D: CONDITIONS APPLYING TO WASTE AND WASTE MANAGEMENT

1. The Licensee shall locate areas designated for Waste disposal including all pump-out Water 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 landfilling of domestic waste, unless otherwise approved by the Board in writing.
3. The Licensee shall backhaul and dispose of all Waste not covered in Part D, Item 1, at a licenced waste disposal facility.
4. The Licensee shall not transport any hazardous wastes prior to registering with the Government of Nunavut as a waste generator and utilizing the prescribed manifests.
5. The Licensee shall provide to the Board documented authorization from all communities in Nunavut receiving Wastes from the Site prior to any backhauling and disposal of Wastes to those communities.
6. The Licensee shall maintain records of all Waste backhauled and records of confirmation of proper disposal of backhauled Waste and include this information within the Annual Report in Part B, Item 1.

PART E: CONDITIONS APPLYING TO THE UNDERTAKING

1. The Licensee shall conduct all activities 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.
2. The Licensee shall not cause erosion to the banks of any water body and shall provide necessary controls to prevent such erosion.
3. The Licensee shall minimize disturbance to terrain, permafrost and drainage during movement of contractor's equipment and personnel around the site during post closure monitoring activities.
4. All sites affected by water diversion, remediation activities, water sampling and related activities shall be stabilized, landscaped as necessary, and suitable erosion control measures implemented to minimize sediment deposition into watercourses located on or adjacent to the site.
5. The Licensee shall implement proper handling, storage and transportation procedures for hazardous materials to prevent entry to any water body.

**PART F: CONDITIONS APPLYING TO CAMPS, ACCESS INFRASTRUCTURES
AND OPERATIONS**

1. No camp activities are authorized under the provisions of this Licence.
2. Winter lake and stream crossings, including ice bridges, shall be constructed entirely of Water, ice or snow, and shall be removed prior to spring break-up.
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 at 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 G: CONDITIONS APPLYING TO DRILLING OPERATIONS

1. The Licensee is authorized to drill for the purpose of installing and repairing monitoring wells.
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 (CaCl₂) in any quantity or concentration, from land-based and on-ice 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. The Licensee shall restore all drill holes and disturbed areas to natural conditions immediately upon completion of the project. The restoration of drill holes must include the removal of any drill casing materials and 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.

PART H: CONDITIONS APPLYING TO MODIFICATIONS AND CONSTRUCTION

1. The Licensee may, without written consent from the Board, carry out Modifications 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 require more than sixty (60) days; and
 - e. the Board has not rejected the proposed Modifications.
2. Modifications for which all of the conditions referred to in Part H, 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 structures or facilities constructed under Part H, Item 1 of this Licence within ninety (90) days of completion of the Modification. These plans and drawings shall be stamped by an Engineer.

PART I: CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING

1. The Licensee shall implement the Plan entitled “*Spill Contingency - Plan Former Iqaluit Vehicle Dump and Community Landfill Remediation Project, Iqaluit Airport, Iqaluit, Nunavut*” that was originally approved by the Board.
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 carry out 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) 975-4295; 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.

PART J: CONDITIONS APPLYING TO CLOSURE AND RECLAMATION

1. The Licensee shall implement the Plan entitled “Remedial Action Plan, Former Metal Dump and Community Landfill”, dated January 27, 2017 that was originally approved by the Board.
2. All roads shall be re-graded to match natural contours to reduce erosion.
3. 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.
4. The Licensee shall remove from the site, all infrastructure and site materials, including all fuel caches, drums, barrels, material and equipment prior to the expiry of this Licence.
5. 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 Contaminated Site Remediation, 2009*. 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.

6. All disturbed areas shall be contoured and stabilized upon completion of work and restored to a pre-disturbed state.

PART K: CONDITIONS APPLYING TO THE MONITORING PROGRAM

1. The Licensee shall implement the long-term monitoring activities as defined in the Plan entitled "*Performance & Long Term Monitoring Plan (LTM), Former Metal Dump And Community Landfill*" dated August 03, 2017 which was approved by the Board on September 25, 2017.
2. The Licensee shall submit a revised Quality Assurance/Quality Control Plan (QA/QC) within 90 days of issuance of this Licence. The QA/QC plan should reflect the operation and/or technology being utilized. The QA/QC Plan shall be acceptable to an accredited laboratory and include, when being submitted to the Board, a cover letter from an accredited laboratory confirming acceptance of the Plan for analyses to be performed under the Licence
3. 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.
4. All analyses shall be performed in a laboratory accredited according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.
5. The Licensee shall ensure that tabular summaries for all data and information generated under the Long-Term Monitoring Program, as well as an analysis of data collected during the undertaking, are provided to the Board in the Annual Report, in accordance with Part B, Item 1.
6. Future revisions to the QA/QC Plan and the detailed monitoring Plan are to be submitted in the form of an addenda to be included with the Annual Report, unless directed otherwise by the Board.
7. The Licensee must conduct any additional monitoring requested by the Board and Inspector.
8. Modifications to the Long-Term Monitoring Program may be made only upon written request and subsequent approval of the Board in writing.