



P.O. Box 119
Gjoa Haven, NU X0B 1J0
Tel: (867) 360-6338
Fax: (867) 360-6369

ᓄᓇᓂᓪ ᐃᓕᓕᓂᓪ ᑲᓂᓕᓂᓪ
NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

File: 1BR-RES0916/Amendment No. 1

December 6, 2010

Natalie Plato
Director, Contaminated Sites
Indian and Northern Affairs Canada
P.O. Box 2200
Iqaluit, NU X0A 0H0
Email: natalie.plato@inac-ainc.gc.ca

Kevin McKenna
Contaminated Sites Project Manager
Indian and Northern Affairs Canada, Nunavut Regional Office
Building 1553, P.O. Box 2200
Iqaluit, NU X0A 0H0
E-mail: kevin.mckenna@inac-ainc.gc.ca

RE: 1BR-RES0916 Type “B” – Amendment No.1, Establishment of a Camp Facility and Increase in Water Volume

Dear Ms. Plato and Mr. McKenna:

Please find attached, Amendment No.1 to Licence No. 1BR-RES0916 Type “B” issued to Indian and Northern Affairs Canada (INAC) by the Nunavut Water Board (NWB) (**Motion 2010-23-L04**) 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* and the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*. The terms and conditions of the original Licence related to water use and waste disposal remain an integral part of this approval.

The NWB strongly recommends that the Licensee consult the comments¹ received by interested persons and the issues identified. Both Environment Canada (EC) and INAC recommend that EC’s Technical Document on Batch Waste Incineration be referred to for information pertaining to approved incinerator technologies. This information is attached for your consideration.

In addition, the NWB has reviewed the following documents and determined that they are acceptable and consistent with the terms and conditions in the licence:

- a. the 2009 Annual Report as required under Part B, Item 1 of the Licence;

¹ Indian and Northern Affairs Canada dated August 26, 2010; Environment Canada dated September 9, 2010; Government of Nunavut Department of Culture, Language, Elders and Youth dated April 28, 2010.

- b. addendum to the monitoring program, as required under Part J, Item 2 of the Licence; and
- c. written confirmation that the Quality Assurance/Quality Control Plan is acceptable to an accredited laboratory, as required under part J, Item 5 of the Licence.

Sincerely,



Thomas Kabloona
Nunavut Water Board, Chair

TK/sj/tla

Enclosure: Licence No. **1BR-RES0916 - Amendment No.1**
EC, GN-CLEY and INAC Comments

Cc: Distribution – Qikiqtani Region

LICENCE AMENDMENT No. 1

Licensee:	Indian and Northern Affairs Canada
Licence No:	1BR-RES0916 Type “B”
Licence Issued:	June 10, 2009
Expiry Date:	June 1, 2016
Effective Date:	December 3, 2010

DECISION

Licence 1BR-RES0916 issued June 10, 2009, with an expiry date of June 1, 2016, shall be amended to allow for the use of water and the deposit of waste associated with the establishment of a seasonal camp required to support long-term monitoring at the Resolution Island (BAF-5) Distant Early Warning Line Site.

The BAF-5 site is located on the south-eastern tip of Baffin Island, near Frobisher Bay at longitude 64° 38' W and latitude of 61° 35' N. The site is approximately 320 km southeast of Iqaluit, Qikiqtani Region, Nunavut.

On April 7, 2003, a water licence application was filed with the Nunavut Water Board (NWB or Board) by Indian and Northern Affairs Canada (INAC) to allow for the use of water and the deposit of waste during reclamation activities at the BAF-5 site. After an extensive review of the application, which incorporated input from interested parties and persons, the NWB issued on August 31, 2003, a type ‘B’ water Licence, 1BR-RES0308. The expiration date of that licence was August 31, 2010.

On December 1, 2008, INAC submitted a renewal application to the NWB for the BAF-5 site to allow for long-term monitoring associated with reclamation activities undertaken during the previous licence term. On June 10, 2009 the NWB issued a renewed Licence 1BR-RES0916 to INAC. However, the terms and conditions of that Licence did not include the operation of a camp facility or the use of water for domestic purposes.

On April 9, 2010, the NWB received an application from INAC to amend Licence 1BR-RES0916 to allow for the establishment of a camp, the use of water for domestic purposes and to deposit waste associated with the camp facility. The amendment application was exempt from environmental assessment screening by the Nunavut Impact Review Board² and falls outside an area with an approved land use plan³.

The NWB, having considered the comments received from parties during the review of the application and 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* and the *Nunavut Waters* and the *Nunavut Surface Rights Tribunal Act*, hereby grants the Licence amendment. The amended conditions are included based on the comments received and other standard conditions imposed by the NWB for similar camp operations. The Effluent discharge criteria are consistent with the limits imposed for other lagoons operating in the Nunavut Settlement Area.

² NIRB correspondence dated June 18, 2010.

³ NPC determination dated December 22, 2008.

PART A: SCOPE, DEFINITIONS AND ENFORCEMENT

Amend Item 1 Scope

This Licence allows for the implementation of a post-closure Long Term Monitoring Program during an undertaking classified as Industrial, at the BAF-5 (Resolution Island) Pole Vault Line site located approximately 320 km southeast of Iqaluit, within the Qikiqtani Region, Nunavut (at general latitude of 61° 35''N and general longitude 64° 38''W) with a camp location at approximately latitude: 61° 35' 48'' N and longitude: 64° 38' 20'' W.

Insert Item 2 Definitions

“Sewage Lagoon” means the lagoon built in 2006 as described in the amendment application dated April 9, 2010.

PART C: CONDITIONS APPLYING TO WATER USE

Amend Item 1

The Licensee is authorized to use two (2) cubic metres of water per day for domestic purposes and five (5) cubic metres of water per day for the sampling activities identified in the approved Resolution Island Monitoring Program. Water for domestic purposes shall be obtained from Old Water Lake. The volume of water for the purpose of this licence shall not exceed seven (7) cubic metres per day.

PART D CONDITIONS APPLYING TO WASTE DISPOSAL

Amend Item 1

The Licensee shall dispose of all Sewage in the Sewage Lagoon.

Insert Item 5

Effluent from the Sewage Lagoon shall not exceed the following Effluent discharge criteria:

Parameter	Maximum Average Concentration
Faecal Coliforms	10E5 CFU/dl
BOD ₅	120 mg/L
Total Suspended Solids	180 mg/L
Oil and grease	No visible sheen
pH	between 6 and 9

Insert Item 6

The Licensee shall not practice on-site land filling of domestic waste or waste products, unless otherwise approved by the Board in writing.

Insert Item 7

The Licensee is authorized to dispose of all acceptable food waste, paper waste and untreated wood products in an incinerator.

Insert Item 8

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.

Insert Item 9

The Licensee shall remove and dispose of all hazardous wastes, waste oil, incinerator ash and non-combustible waste generated through the course of the operation, to a licensed waste disposal facility.

Insert Item 10

The Licensee shall maintain records of all waste backhauled and records of confirmation of proper disposal of backhauled waste. These records shall be retained for the duration of the Licence and made available to an Inspector upon request.

Insert Item 11

The Licensee shall provide to the Board documented authorization from all communities receiving wastes from the project prior to any backhauling of wastes to those communities.

PART E CONDITIONS APPLYING TO THE UNDERTAKING

Amend Item 4

The Licensee shall, as part of the 2010 Annual Report, submit for review, As-Built drawings, signed and stamped by a professional Engineer, for the Sewage Lagoon, eight (8) remediated waste dumps, three (3) Non-Hazardous Waste Landfills, Landfarm and Interceptor Barriers, which include all associated monitoring wells and thermistors.

PART F CONDITIONS APPLYING TO CAMP USE

Amend Item 1

The operation of a seasonal camp is authorized under the Licence.

Insert Item 2

The Licensee shall not erect camps or store material on the surface of frozen streams or lakes including the immediate banks except what is for

immediate use. Camps shall be located such as to minimize impacts on surface drainage.

Insert Item 3

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 G CONDITIONS APPLYING TO SPILL CONTINGENCY PLANNING

Amend Item 1

The Board has approved the Plan entitled "Spill Contingency and Emergency Response Plan," dated June 2010 as submitted with the amendment application. The Licensee shall submit an addendum to the Plan within thirty (30) days from the date of the issuance of this amendment to address the following minor deficiencies:

- a. Include updated copy of the NT-NU Spill Report Form;
- b. Include the contact numbers for DFO, NWB, INAC's Manager of Field Operation, EC, and GN-DOE on the Emergency Contact List in Appendix C; and
- c. Include on *Map 1*, pg 5, or on an appropriate site map, the locations of the spill kits identified on page 21 of the Plan, fuel caches, nearby water bodies and any other relevant information.

PART I CONDITIONS APPLYING TO ABANDONMENT, RESTORATION AND CLOSURE

Insert Item 2

The Licensee shall submit to the Board for approval, with the submission of the 2010 Annual Report, an Abandonment and Restoration Plan for the project that includes the camp, fuel storage, the Sewage Lagoon and any other facilities used to support the long term monitoring of the BAF-5 site.

All remaining terms and conditions of Licence 1BR-RES0916 Type 'B' dated June 10, 2009 still apply.

This Licence Amendment issued and recorded at Gjoa Haven, NU on December 3, 2010.

Approved by,



Thomas Kabloona
Nunavut Water Board, Chair