

NORTHWEST TERRITORIES WATER BOARD

LICENCE AMENDMENT

LICENSEE: INCORPORATED HAMLET OF TUKTOYAKTUK
LICENCE NUMBER: N7L3-0714
EFFECTIVE DATE: SEPTEMBER 11, 1997

Pursuant to the *Northwest Territories Waters Act* the Northwest Territories Water Board hereby grants the following Licence Amendment.

The following items shall be inserted as indicated.

PART A: SCOPE AND DEFINITIONS

2. Definitions

In this Licence: N7L3-0714

Solid Waste Lagoon means the accumulation of Water at the Solid Waste Disposal Facilities as described in Map II-2 titled "Hamlet of Tuktoyaktuk" and Map III-5 titled "Sample Locations: Lagoon", contained in "An Environmental Assessment of the Tuktoyaktuk Solid Waste Site" dated March 1997.

PART D: CONDITIONS APPLYING TO WASTE DISPOSAL

11. Any discharge of Water from the Solid Waste Lagoon shall be conducted between September 15 and October 31, 1997. No discharge shall occur at any other time unless approved by the Board.
12. The discharge of Water from the Solid Waste Lagoon shall not be conducted at the same time as the discharge of sewage effluent from the Sewage Disposal Facilities.

13. Water shall be discharged from the Solid Waste Lagoon at a rate not exceeding 350 cubic metres per hour.
14. Water from the Solid Waste Lagoon shall be discharged to the mouth of the small bay adjacent to the Solid Waste Lagoon. The discharge outlet shall be located not less than 10 metres from the shoreline anchored to minimize drifting and fitted with a diffuser.
15. Water shall be removed from the Solid Waste Lagoon using a floating intake.
16. The Licensee shall cease discharge of Water immediately upon observing the discharge of turbid or cloudy Water.
17. All Water discharged from the Solid Waste Lagoon at "Surveillance Network Program" Station Number 0714-3 shall meet the following effluent quality standards:

Parameter	Maximum Average Concentration
BOD ₅	25 mg/L
Suspended Solids	25 mg/L
Polychlorinated Biphenyls	5 µg/L

The Water discharged shall have a pH between 6 and 9, and no visible sheen of oil and grease.

PART H: CONDITIONS APPLYING TO OPERATION AND MAINTENANCE

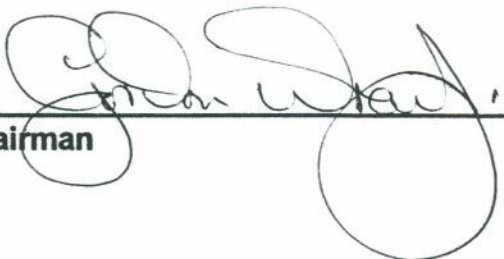
3. Notwithstanding Part H, Item 1, the Licensee shall, by March 1, 1998, submit to the Board for approval a supplement to the plan for the Operation and Maintenance of the Waste Disposal Facilities a plan addressing the long term management of the Solid Waste Lagoon. The plan shall include, but not be limited to the following:
 - a. a report of a geotechnical inspection of the berm; and
 - b. a plan to address the prevention of further accumulation of surface water in the Solid Waste Lagoon.

This Licence Amendment issued and recorded at Yellowknife, Northwest Territories
on September 11, 1997.

NORTHWEST TERRITORIES WATER BOARD



Witness



Chairman

NORTHWEST TERRITORIES WATER BOARD

LICENSEE: Incorporated Hamlet
of Tuktoyaktuk

LICENCE NUMBER: N7L3-0714

**EFFECTIVE DATE OF LICENCE
ISSUANCE:** March 1, 1997

**EFFECTIVE DATE OF
SURVEILLANCE NETWORK PROGRAM:** September 11, 1997

SURVEILLANCE NETWORK PROGRAM

A. Location of Surveillance Stations

<u>Station Number</u>	<u>Description</u>
0714-1	Supply line to reservoir.
0714-2	Effluent discharge structure at the Sewage Disposal Facilities.
0714-3	Water contained within the Solid Waste Lagoon.

B. Sampling and Analysis Requirements

1. Water at Station Number 0714-2 shall be sampled at least four times during the decant and analysed for the following parameters:

pH	Suspended Solids
Faecal Coliform	BOD ₅
Ammonia-Nitrogen	

2. Water at Station Number 0714-3 shall be sampled annually during periods of open water and analysed for the following parameters:

pH	Suspended Solids
Total Mercury	Total Cadmium
Total Chromium	Total Cobalt
Total Copper	Total Manganese
Total Nickel	Total Lead
Total Iron	Total Zinc

3. Water at Station Numbers 0714-2 and 0714-3 shall be inspected monthly during periods of flow for the presence of an oily sheen. If a sheen is detected, then a sample shall be collected and analysed for the presence of Oil and Grease.

4. Water at Station Number 0714-3 shall be sampled before discharge and at least three times during discharge, at the beginning of the discharge approximately half way through the discharge and at the end of the discharge and analysed for the following parameters:

pH	Suspended Solids
Total Mercury	Total Cadmium
Total Chromium	Total Cobalt
Total Copper	Total Manganese
Total Nickel	Total Lead
Total Iron	Total Zinc
BOD ₅	Faecal Coliform
Faecal Streptococcus	Polychlorinated Biphenyls

5. 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 an Analyst.
6. All analyses shall be performed in a laboratory approved by an Analyst.


C. Flow and Volume Measurement Requirements

1. The monthly and annual quantities of water pumped from Surveillance Network Program Station Number 0714-1 for municipal purposes shall be measured and recorded in cubic metres.
2. The monthly and annual quantities of Sewage solids removed from the Sewage Disposal Facility shall be measured and recorded.

NORTHWEST TERRITORIES WATER BOARD



Witness



Chairman

September 29, 1997

Lucy Kuptana
Senior Administrative Officer
Incorporated Hamlet of Tuktoyaktuk
P.O. Box 120
TUKTOYAKTUK, NT X0E 1C0

Dear Ms. Kuptana:

RE: LICENCE AMENDMENT

Attached is duplicate Licence No. N7L3-0714 Amendment granted to the Incorporated Hamlet of Tuktoyaktuk by the Northwest Territories Water Board in accordance with the *Northwest Territories Waters Act*. The other copy of this Licence Amendment has been filed with the Department of Indian Affairs and Northern Development in Yellowknife, Northwest Territories.

Parts D and H of this Licence has been amended reflect changes in monitoring requirements resulting from the "one time discharge" of water from the Solid Waste Lagoon. The Surveillance Network Program has also been amended to reflect the "one time discharge" from the Solid Waste Lagoon.

Please be advised that this letter with attached procedures, all inspection reports, and correspondence related thereto are part of the public Water Register, and are intended to keep all interested parties informed of the manner in which the Licence requirements are being met. All Water Register material will be considered when the Licence comes up for renewal or amendment.

The full cooperation of the Hamlet of Tuktoyaktuk is anticipated.

Sincerely,

for Vicki L. Davis
Gordon Wray
Chairman

Gordon Wray
Chairman
N.W.T. Water Board

Attach.

**GENERAL PROCEDURES FOR THE ADMINISTRATION OF LICENCES
ISSUED UNDER THE NORTHWEST TERRITORIES WATERS ACT
IN THE NORTHWEST TERRITORIES**

1. At the time of issuance, a copy of the Licence is placed on the Water Register in the Office of the Northwest Territories Water Board in Yellowknife, and is then available to the public.
2. To enforce the terms and conditions of the Licence, the Minister of Indian Affairs and Northern Development has appointed Inspectors in accordance with Section 35(1) of the *Northwest Territories Waters Act*. The Inspectors coordinate their activities with officials of the Water Resources Division of the Department of Indian Affairs and Northern Development. The Inspector responsible for Licence No. N7L3-0714 is located in the Inuvik District Office.
3. To keep the Water Board and members of the public informed of the Licensee's conformity to Licence conditions, the Inspectors prepare reports which detail observations on how each item in the Licence has been met. These reports are forwarded to the Licensee with a covering letter indicating what action, if any, should be taken. The inspection reports and covering letters are placed on the public Water Register, as are any responses received from the Licensee pertaining to the inspection reports. It is therefore of prime importance that you react in all areas of concern regarding all inspection reports so that these concerns may be clarified.
4. If the renewal of Licence No. N7L3-0714 is contemplated it is the responsibility of the Licensee to apply to the Water Board for renewal of the Licence. The past performance of the Licensee, new documentation and information, and points raised during a public hearing, if required, will be used to determine the terms and conditions of any Licence renewal. Please note that if the Licence expires and another has not been issued, then water and waste disposal must cease, or you, the Licensee, would be in contravention of the *Northwest Territories Waters Act*. It is suggested that an application for renewal of Licence No. N7L3-0714 be made at least eight months in advance of the Licence expiry date.
5. If, for some reason, Licence No. N7L3-0714 requires amendment, then a public hearing may be required. You are reminded that applications for amendments should be submitted as soon as possible to provide the Water Board with ample time to go through the amendment process. The process may take up to six (6) months or more depending on the scope of the amendment requested.

The Surveillance Network Program annexed to the Licence can be modified at the discretion of the Board and does not require a public hearing. A request for any proposed change to the Surveillance Network Program should be forwarded to the Board in writing, including a rationale for the change.

6. Specific clauses of your Licence make reference to the Board, Analyst or Inspector. The contact person, address, phone and fax number of each is:

BOARD: Executive Assistant
Northwest Territories Water Board
Box 1500
YELLOWKNIFE, NT X1A 2R3

Phone No: (403) 669-2772

Fax No: (403) 669-2719

ANALYST: Analyst
Water Laboratory
Northern Affairs Program
Department of Indian Affairs
and Northern Development
Box 1500
4601 - 52nd Avenue
YELLOWKNIFE, NT X1A 2R3

Phone No: (403) 669-2780

Fax No: (403) 669-2718

INSPECTOR: Inspector
North Mackenzie-Inuvik District Office
Northern Affairs Program
Department of Indian Affairs
and Northern Development
P.O. Box 2100
INUVIK, NT X0E 0T0

Phone No: (403) 979-3361

Fax No: (403) 979-2090