



Inspection Report

License #: 3BM-BAK (unlicensed since 2004)

Inspector: A. Keim

CIDMS # 371187

Client	Municipality of Baker Lake		
Mailing Address	Box 149		
Inspection site location	Baker Lake , Nunavut		
Contact name	Mr. Dennis Zettler	Title	SAO
Last inspection date		June 10,2008	Aug 2008 (not completed)
Inspection start date	August 6, 2009		
Region	Kivalliq		



INAC, Nunavut District
P.O. Box 100
Building 918
Iqaluit, NU, X0A 0H0

Submitted Via E-Mail

Our File: 3BM-BAK9904 **EXPIRED**

Your File: _____

CIDM # 371187

December 8, 2009

Mr. Dennis Zettler
Senior Administrative Officer
Box 149
Baker Lake, Nunavut
XOC OBO

RE: August 6th , 2009 Municipal Water Licence Inspection 3BM-BAK9904 – Expired

The following inspection report was generated on an inspection conducted to determine compliance with the terms and conditions of the water license (expired) issued to the Municipality of Baker Lake by the Nunavut Water Board (NWB).

The report references the applicable parts of the current Water License (3BM- BAK9904) and the findings observed under each of those Parts. During the writing of this report a review was undertaken of the documents located on the Nunavut Water Board's FTP site.

It is noted that on February 24, 2006 the Nunavut Water Board received a renewal application from the Licensee for a Type B Water License for the community. This application was deemed incomplete and subsequently rejected by the Nunavut Water Board.

On September 25th, 2008 a new application containing much of the missing information from the original 2006 application was submitted to the Nunavut Water Board by the Nunami Jacques Whitford Ltd on behalf of the Municipality of Baker Lake. On August 11th, 2009 the Nunavut Water Board sent the information to the Public Registry and requested comment from Interveners.

No New information or requests for information have been filed by the Nunavut water Board since this date. No new information was found on the Nunavut Water Board FTP site.

The Inspector would like to thank Mr. Hugh Nateela – Municipal Foreman for his assistance during the period of the Inspection.

Previous findings:

The Community of Baker Lake has been unlicensed since 2004. Applications have been submitted to the Nunavut Water Board in 2006 and 2008. Currently the Hamlet of Baker Lake remains unlicensed.

1. Baker Lake had a license from 1999 to 2004.
2. August 14, 2003: Water license inspection noted a recent failure of the lagoon that went unreported, notes obvious signs of failure, overflowing and a continuous discharge.
3. January 28, 2005: The Hamlet Council of Baker Lake wrote a letter to the chair of the Nunavut Water board expressing concerns over the state of the lagoon and the possibility of freshwater source being contaminated.
4. February 2005: Nunavut Water Board replies that it is not their mandate to construct, build or design municipal services and directs them to the Government of Nunavut and INAC.



5. August 23, 2005: Inspectors report notes the following: No freeboard in Lagoon, sewage flowing around berm. Warning of possible failure if lagoon is not decanted.
6. November 16, 2005: Hamlet of Baker Lake applies for new Water license.
7. June 19, 2006: NWB reviews application and replies with a letter containing a request for clarification, plans, submissions and reports on 36 separate issues.
8. June 23, 2006: The GN replies and notes that a consultant is required and an estimate of 6 months to reply to the NWB is required.
9. September 26, 2006: The community sewage lagoon breached again.
10. December 4, 2006: Nunami Jacques Whitford Limited submitted an interim comprehensive report on Water and sewage systems in Baker Lake.
11. On August 11th, 2009 the Nunavut Water Board sent the information to the Public Registry and requested comment from Interveners

INAC is responsible for water licences inspections on Crown lands and Inuit Owned Lands in Nunavut in accordance with the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*. This includes a responsibility for inspections and the enforcement of water licences for communities in the territory.

INAC has completed inspections in Baker Lake on the following dates:

July 9, 2002

August 2003

August 2005

October 2006

August 2007

June 10th 2008 (A follow up inspection was attempted but the Municipality failed to participate)

August 6th 2009

As the license for the community of Baker Lake is expired the *Act* will apply. The community is currently in contravention of the *Act* and has currently not addressed any of the remedial actions required in most of the inspection reports dated 2002 through 2009. A recommendation for further enforcement actions was not supported by the Director.

August 12th, 2008 an Inspector's Direction was issued to the Municipality of Baker lake – The Municipality failed to follow or comply with the Direction.

No follow up or compliance actions have been undertaken by this office to seek correction of any of the deficiencies noted in inspections from 2002 through to 2009 or with the noted non-compliance with the issued Direction. A recommendation for stronger enforcement action has been made by the Inspectors.

The community remains unlicensed at this time and in contravention of the *Act*.

Issues noted in previous Inspections;

- Sewage treatment in the community continues to be below an acceptable standard.
- The Community does not have an engineered lagoon to treat municipal effluent.
- Failure to collect and submit for analysis the samples required on the Monitoring Program.
- Failure to undertake such water management as is required to control runoff from the waste management area from lakes below the W.M. Area.
- Failure to segregate hazardous materials onto lined and controlled area.
- Failure to implement the Monitoring Program.



- Failure to develop and submit an Operation and Maintenance Manual.
- Failure to submit Annual Reports.
- Failure to install and maintain the appropriate signage, and Surveillance Network Program markers. (SNP)
- Failure to develop a Quality Assurance/ Quality Control Plan. (contact the Nunavut Water Board)
- Continued operation of an unlicensed waste management area.

During the period of the 2009 Inspection the following issues were identified by the Inspector;

- Failure to file Annual Reports.
- Failure to take steps to prevent and control the migration off site of runoff from the Solid Waste Management Facility. (installation of ditches or berms)
- Failure to comply with the monitoring program by collecting samples for analysis.
- Failure to segregates wastes in the Municipal Waste Management Area.
- Failure to properly store and contain Hazardous wastes.

Samples collected from downstream from the Sewage Outfall by the Inspector returned the following results;

Parameter:	Result	PAL-CCME ¹ Criteria
Aluminum	284 µg/L	5-100 µg/L
Copper	7.0 µg/L	2-4 µg/L
Manganese	103 µg/L	<50 µg/L
Iron	1150 µg/L	300 µg/L
Zinc	38 µg/L	30 µg/L

* It was noted that the Municipality of Baker Lake has recently fenced the Lagoon and outfall area to prevent Caribou from entering the area. The Inspector noted that effluent is dumped by Truck into a shallow depression that overtops and then runs downhill into a small lake. From there the effluent then flows downstream into another lake and through lowland along a 2.3 Km flow path to Baker Lake. No lagoon is present in the community.

Non-Compliance: Issues identified during the August 3rd, 2009 inspection and/or review of relevant material

Issues with a known or anticipated human health impacts;

- Sewage is discharged directly to the environment without treatment.
- Failure to collect and submit for analysis the samples required on the Monitoring Program.

Issues where there is a known or anticipated environmental impairment;

- Failure to undertake such water management to control runoff from the waste management area.
- The Licensee is required to segregate hazardous materials into a lined and controlled area.
- Failure to properly store and contain hazardous wastes.
- Failure to contain and remediate the release of hazardous materials.
- Failure to maintain and control the Municipal Waste Management Area.

Issues where there is a known or suspected violation of a requirement of the Water License;

- It has been a period of over 4 years since the Municipality has had a Water License. Currently the Municipality is operating in Non-compliance with the Nunavut Waters and Nunavut Surface Rights Tribunal Act.

¹ Protection of Aquatic Life Guidelines – Canadian Council of Minister of the Environment – Canadian Environmental Quality Guidelines



- The Municipality failed to follow the terms and conditions contained within the Direction issued on August 12, 2008.

The Municipality of Baker Lake is operating in Non-conformity with the terms and conditions of the now expired Water License.

The Municipality is strongly encouraged to contact the Nunavut Water Board and the Inspector to determine the required next steps to achieve and maintain compliance with the Act.

A. Keim

Inspector's Name

Inspector's Signature

Cc:

Peter Kusugak - Manager Field Operations Section- Indian and Northern Affairs Canada
Phyllis Beaulieu – Manager Licensing – Nunavut Water Board

































The image shows a control panel with three flow meters and a data log. The top left meter is labeled 'SIGNET' and 'WATER TANK FLOW METER'. The top center meter is labeled 'EMERGENCY FILL FLOW METER'. The top right meter is labeled '+GF+ SIGNET' and 'TRUCK FILL FLOW METER'. Below these is a yellow device labeled 'SIGNET'. At the bottom is a data log with handwritten entries for 'DAILY LOG SHEET' dated '3/25/14'.

