

MUNICIPAL WATER USE INSPECTION FORM

Date: July 14, 2011	Licensee Rep. (Name/Title): Christopher Dickson SAO. Kam So - Government of Nunavut
Licensee: Hamlet of Taloyoak	Licence No.: 3BM-TAL0813

WATER SUPPLY

Source(s): CANSO Lake	Quantity used: Unknown- Unknown
Owner:/Operator: Hamlet of Taloyoak	

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Intake Facilities: A	Storage Structure: A	Treatment System: NI	Chemical Storage: A
Flow Meas. Device: A	Conveyance Lines: A	Pumping Stations: A	Screen: U

Comments: During the Inspection of the Water Treatment plant the inspector noted the following;

- Samples were collected from the source adjacent to the Intake
- Water sampling and daily testing records were found complete and well organized during an inspection of the Water Treatment facility
- Chlorination treatment systems (main and redundant) were both working on site
- Treatment facility clean and well organized. Buckets of Chlorine however must be stored and secured properly to prevent leaks. No safety equipment was noted within the facility for use during Chlorine mixing
- Water pipe from source requires general maintenance
- New Water Intake building is currently under construction. A review of the Nunavut Water Board site was not able to locate the required Operations and Maintenance Manuals nor a conceptual Abandonment and Restoration Plan for the current infrastructure. Both are required by the Nunavut Water Board and have been requested on numerous occasions
- It is unclear when the new facility is expected to come on line

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): **Primary – Discharge to pond and river system.**

Natural Water Body: Yes	Continuous Discharge (land or water): No	
Seasonal Discharge: None	Wetlands Treatment: Unknown	Trench: None

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Discharge Quality: UK	Decant Structure: U	Erosion: NI
Discharge Meas. Device: U	Dyke Inspection: NA	Seepages: U
Dams, Dykes: NA	Freeboard: NA	Spills: NI
Construction: NA	O&M Plan: U	A&R Plan: U
Periods of Discharge: Cont.	Effluent Discharge Rate: Unknown	

Comments: During the Inspection of the Waste Water Treatment Facility the inspector noted the following;

- Part D: Conditions Applying to Waste Disposal is specifically excluded from the currently issued license. This is a result of the Licensee (or their agent) not providing complete and accurate information to the Nunavut Water Board during the application process. The current license was issued in 2008 based on information provided by the Licensee (or their agent) to facilitate the construction of the new Water transfer facility (pump house) to address issues identified in Inspections dating back to 2002.
- As such the Licensee is currently depositing waste (municipal waste, solid (metals) and sewage) in facilities owned and operated by the licensee without the authority of a license
- The Licensee is required to seek amendments to this License as soon as possible in order to have its wastewater treatment and land filling activities permitted under a Water Board License.
- Specific issues identified during the inspection of the Sewage Treatment System include;
 - Raw effluent is deposited into a pond system that naturally flows into a stream and eventually into the ocean. It is unclear what the retention time is in the pond and/ or if proper treatment is being effected
 - The facility is not fenced nor is there any signage or warnings posted
 - An Operations and maintenance manual has not been submitted for review as required

Solid Waste: Municipal sold waste site **Owner/Operator:** Hamlet of Taloyoak

Landfill: Y	Burn & Landfill: Y	Other:
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- Specific issues identified during the inspection of the Solid Waste Management Facility include;
 - Waste within the Solid Waste Management area remains un-segregated. Barrels of unknown substances, waste oil, batteries, and household chemicals are not being sorted out of the waste stream and placed in containment.
 - A general lack of signage including warnings at the facility was noted

- o Proper “policing” of the facility is required as well as the development and implementation of a program to address these issues in both the short and long term.
- o It is also clear that this should have been addressed during the 2008 application for renewal stage by the Licensee (or their agent). It is unclear why the Licensee or their agent did not provide the required information to the NWB and have not provided the information in the last three years since the issuance of the current license.
- o The municipal burn and bury facility for municipal waste requires cover material as open burned garbage and debris was noted blowing around and being ejected from the facility

FUEL STORAGE:

Owner/Operator: Government of Nunavut

Indicate: **A** - Acceptable **U** - Unacceptable **NA** - Not Applicable **NI** - Not Inspected

Berms & Liners: NI	Water within Berms: NI	Evidence of Leaks: NI
Drainage Pipes: NI	Pump Station & Catchments Berm: NI	
Pipeline Condition: NI	Condition of Tanks: NI	

Waste Oil Storage: Noted within the solid waste management facility

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: No sampling results have been submitted to date	
3	INAC: Potable water source, Effluent, Leachate- Poned water within the SWMF	
Signs Posted	SNP: None	Warning: None.
Records & Reporting: Records of daily checks and sampling at Water Treatment were noted.		
Geotechnical Inspection: N/A		

Non-Compliance of Act or Licence: The Inspector noted the following;

The current license issued the Municipality of Taloyoak does not allow for any activities related to sewage disposal, treatment and discharge or solid waste collection, containment or disposal. The municipality however still engages in these activities and has failed over the life of the current license to provide sufficient information to the Nunavut Water Board to begin the application process to amend the license for inclusion of these activities.

It is unrealistic to think that these activities are not being carried on within the Municipality and Inspections have proven that in fact they are. The inspector notes that this failure to provide basic operational and construction information to the board as requested in letters to the Municipality as far back as 2007 is a clear disregard for the authority of the Board.

The Inspector will therefore be completing and filing an **Inspector’s Direction** to the Municipality of Taloyoak to provide to the Nunavut Water Board a completed application for amendment that includes at a minimum all of the required information requested by the Nunavut Water Board on the activities related to sewage disposal, treatment and discharge or solid waste collection, containment or disposal currently underway within the Municipality.

This application will be submitted with the 2011 Annual Report due on March 31st 2012.

Failure to comply fully or in part with an **Inspector’s Direction** constitutes a offence under subsection 90 (1) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act* and entails, upon summary conviction, a fine of \$100,000 or to imprisonment for a term of one year, or both.

Further pursuant to subsection 90 (4) of the *Nunavut Waters and Nunavut Surface Rights Tribunal Act*, each day on which the **Inspector’s Direction** is not complied with shall be considered a separate offence.

A.Keim
Inspector’s Name

Sent by E-mail (Original signed and on file)
Inspector’s Signature

Cc:
Bernie MacIsaac- A/Manager Field Operations
Phyllis Beaulieu – Manager Licensing- Nunavut Water Board

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