



MUNICIPAL WATER USE INSPECTION FORM

Date: August 30, 2013	Licensee Rep. (Name/Title): Tracy Laine –A/ SAO, Bhabesh Roy - CG&S- Regional Engineer, Jack Kammuka – Hamlet Foreman
Licensee: Hamlet of Hall Beach	Licence No.: 3BM-HAL0810 – Expired

Comments:

Thanks go to Ms. Tracy Laine the A/SAO who has been in the position for just under a year and was participating in her first water license inspection. As always thanks also go to Mr. Jack Kammuka for his assistance and guidance during the Inspection.

This inspection was completed to determine the state of compliance with the Compliance Plan submitted by the Government of Nunavut's Department of Community Government and Services (GN-CGS). Currently the Municipality has an expired Water License. The GN-CGS, in the Compliance Plan stated that the renewal process has been started and that Plans and a number of documents have been submitted in support of this application.

A review of the Nunavut Water Board's FTP site finds that on April 12, 2012 an application for renewal was submitted to the Nunavut Water Board on behalf of the Municipality by GN-CGS. That application was rejected by the board for being incomplete. In reviewing the documents found in the application folder on the NWB's FTP site a number of documents have been submitted since 2010 in support of the application including;

- 2011 Dillon Consulting submitted a number of documents that formed an Operations and Maintenance manual for the Municipalities Solid Waste Facility
- 2011 Dillon Consulting submitted a number of documents that formed an Operations and Maintenance manual for the Municipalities Sewage Treatment Facility
- In 2012 the GN-CGS filed an annual report on behalf of the Municipality
- In 2013 a letter from GN-CGS was sent to the NWB outlining the documents and plans the Government had filed over the last three years with respect to the renewal application for the licensee and outlined a number of Documents filed on their behalf by a new consultant EXP. It is unclear at this time if the Nunavut Water Board has conducted a completeness or conformity review of the documents associated with the renewal application.

A further review of the NWB's FTP site found that an Annual Report for the community had been filed by the GN-CGS on behalf of the Licensee. A number of factual errors were found upon reviewing this report including the following;

- V. A list of unauthorized discharges. The submission states the Sea (Foxe Basin) is 3Km away from the lagoon when in fact it is less than 1 Km.
- V. The same explanation states that effluent released from the lagoon flows into a wetland area. The composition of the ground is gravel, rock and sand. No wetland exists between the lagoon and Foxe Basin. Staining on the gravel shows where pooling of effluent was contained until it migrated into the ocean.
- Viii... There appears the statement "Waste management in the community is the concern of the Nunavut Water Board". An explanation for clarity is required to address this statement.



WATER SUPPLY

Source(s): Water Supply Lake (Reservoir)	Quantity used: 18,502,486.7 L between Jan 1, 2013 and July 31, 2013
Owner:/Operator: Hamlet of Hall Beach	

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

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

Comments: During the Inspection of the Water Intake (gate valve) and Pumping Station the Inspector noted the following;

- Signage has been installed at the pumping station
- Gate valve area was found to be clear of debris and in good order
- Truck sampling records were available for review at Hamlet garage
- Chlorination system found in good working order

WASTE DISPOSAL

Sewage: Sewage Treatment System

(Prim./Sec/Ter.): **2 Primary lagoons Cell – 1 has failed**

Natural Water Body: No	Continuous Discharge (land or water): Ex-filtration to land, additional decanting is required annually.	
Seasonal Discharge: No	Wetlands Treatment: NA	Trench: None

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

Discharge Quality: U	Decant Structure: Not in use	Erosion: South Wall Cell 1
Discharge Meas. Device: U	Dyke Inspection: NI	Seepages: South wall Cell 1 has failed
Dams, Dykes: U	Freeboard: A	Spills: U
Construction: NI	O&M Plan: NI	A&R Plan: U(Not on FTP site)
Periods of Discharge: Cont.	Effluent Discharge Rate: Unknown	

Comments: During the Inspection of the Waste Water Treatment Lagoon(s) the Inspector noted the following;

- Evidence of failure from Cell 1 was noted again during inspection. This is the third time the cell wall has failed. In response AANDC requested an update on the plan to address this from Bill Westwell of GN-CGS on July 8, 2013. To date the Inspector has not been provided a plan.
- Hamlet staff confirms that Cell 1 was used at the direction of GN-CGS this past year and failed again. A spill report was filed.
- Flow patterns from past releases are still evident on the surface down gradient from lagoon this indicated to the Inspector that remedial cleanup work to address the 2008, 2010, 2011 and 2012 releases of raw effluent have not been undertaken by the GN or the Municipality as required by the Inspector in 2009, 2010, 2012
- Samples were collected 150 meters from lagoon cell 2 at HAL-4
- The GN-CGS has indicated in a letter to the NWB that an inspection of all engineered facilities related to the management of water and waste was undertaken in August by a Geotechnical Engineer employed by EXP. The GN-CGS is reminded that the engineer's report shall be submitted to the Board within sixty (60) days of the inspection, and shall include a covering letter from the Licensee outlining an implementation plan addressing each of the Engineer's recommendations.



Solid Waste: Municipal Solid Waste Site Owner/Operator: Hamlet of Hall Beach

Landfill: Y	Burn & Landfill: Y	Other: Metals dump
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Comments: During the inspection of the Community Solid Waste Management Facilities the Inspector noted the following;

- There are currently four separate sites for the deposit of Solid Waste in the community.
 - Metal Dump one located @ N68.79972 W81.24907
 - Metal Dump two located @ N68.80463 W81.27028
 - Wood and scrap materials dump located @ N68.80342 W81.25963
 - Municipal Burn and bury @ N68.80546 W81.26755

Inspection of each of these sites identified the following issues;

- The Municipal burn and bury area still requires a fence to completely enclose the facility.
- It was evident that the Burn and bury has not been covered over as required. Windblown garbage was noted throughout the area.
- The Waste metals areas (2) both contained hazardous wastes including batteries
- Segregation of metals and wood was noted.
- A site for hazardous materials has not yet been designated by the municipality however waste oil is being stored in the community on a lot that remains unlined. There was an expectation that a waste oil furnace would be installed last fall but as yet this has not occurred.
- No samples could be collected
- All of the above have been identified for the community in the last three consecutive Inspection reports.

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: Waste oil and other barrels of chemicals remain on a lot in the community that is unlined. It was determined that the Hamlet has been collecting batteries in the community and currently stores them in a sea-can beside the shop. The batteries should be crated properly and shipped off site.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: No sampling results have been submitted to date	
2	INAC: Potable water source, Effluent,	
Signs Posted	SNP: None	Warning: Present
Records & Reporting: Records of daily checks and sampling at Water Treatment and Waste Water Treatment Facilities were provided during the period of Inspection.		
Geotechnical Inspection: Not submitted		

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

- The Municipality of Hall Beach was found in much the same state this year as in the previous Inspections, issues of noncompliance ranged from administrative to operational with aging and



poorly constructed infrastructure continuing to bring the community into non-compliance.
Additional non-compliance with the water License included;

- Part D (2) Failure to notify the Inspector when flow is observed from the SDF and upon commencement of sampling
 - Part D (5) Failure to maintain and operate the lagoon to prevent structural failure
 - Part D (6) Failure to conduct testing as required (Acute Toxicity)
 - Part D (8) Failure to segregate and store hazardous wastes in a manner as to prevent the deposit of deleterious substances into any water
 - Part D (9) Failure to undertake measures to control wind-blown litter at the Solid Waste Disposal Facility
 - Part E (3) Failure to submit as-built drawings for works undertaken at the Sewage Disposal facility
 - Part H (1 through 12) Failure to fully implement the requirements listed under the Monitoring Program
- The Inspector did however note that compliance was greatly improved under the following;
 - Part B (1a through i) submission of Annual reports (incomplete but submitted)
 - Part B (2) implementation of some of the conditions of the Monitoring Program
 - Part B (5) The appropriate signage has been purchased and is due this year
 - Part B (6) Reporting unauthorized discharges of waste to the 24 hour spill line
 - Part B (10) Submission of a Plan for Compliance
 - Part F (5 (b) and (c)) Report an unauthorized discharge of waste to the Spill Line and the Inspector as required

The Inspector notes specifically that the signage (as required by the Compliance Plan) has been ordered and that plans to install proper SNP station markers is on-going within the Municipality. The Municipality is encouraged to continue to work and make progress on the issues identified during this and previous inspections.

With respect to the Compliance Plan for the Community of Hall Beach, submitted to the Inspector and the Nunavut Water Board in response to an Inspectors Direction issued to the Government of Nunavut's Department of Community Government and Services, the Inspector has identified the following issues of Non-conformity with the Plan;

- The Government of Nunavut and the Licensee have failed to supply the Nunavut Water Board with all of the outstanding documents required to process the application for renewal. The Compliance plan indicates the process is underway and remains so since following the receipt of the April 2010 application package that was subsequently rejected by the NWB.
- B-1. The Government of Nunavut committed to providing a report prepared by their consultants following the community visit that was to be held in Hall Beach prior to the end of February 2013. This report was to have been submitted to the NWB prior to March 31st 2013. The report has not been submitted.
- B-2. The Government of Nunavut committed to providing an Action Plan including QA/QC protocols to the Nunavut Water Board by June 1st, 2013. This report was to have been based on a report prepared by their consultants.
- B-5. The Government of Nunavut committed to having all required signage in place by August 31st, 2013. This has not been done.
- D-8. The Government of Nunavut committed to providing a report by March 31st 2013 identifying the deficiencies associated with Hazardous Waste and the Solid Waste Facilities.



This report has not been submitted.

- H-2. The Government of Nunavut committed to providing the Municipality a completed Monitoring program by June 1st 2013.

Further, the Government of Nunavut has not to date fulfilled many of the commitments made in the submitted compliance plans and as such are in violation of the Inspectors Direction originally served on Minister Kusugak on the 1st of May 2012.

Failure to comply with an Inspectors 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:
Phyllis Beaulieu – Manager Licensing- Nunavut Water Board
Erik Allain- Manager of Field Operations, AANDC.

Contact Information:

Andrew Keim
Water Resources Officer
Aboriginal Affairs and Northern Development Canada
Building 918 – Box 100
Iqaluit, Nunavut XOA OHO
867-975-4289 Ph
867-979-6445 Fx
Andrew.Keim@ainc-inac.gc.ca