

MUNICIPAL WATER USE INSPECTION FORM

Date: July 28, 2011	Licensee Rep. (Name/Title): Clayton Croucher –A/ SAO, Adrian Dascalescu CG&S Muni- Technical Services Officer, Jack Kammuka – Hamlet Foreman
Licensee: Hamlet of Hall Beach	Licence No.: 3BM-HAL0810 – Expired

Comments:

The A/SAO has recently come to the community (2 weeks) to act in the position until a new SAO can be hired. Mr. Croucher was unaware of what has been done in the community with respect to water license compliance (status of the renewal Application or the Compliance Plan as required from the 2010 Inspection)

A review of the Nunavut Water Board FTP site notes that a Compliance Plan was submitted, reviewed and a letter with additional information submitted by the GN stating that a Plan would be completed and would be filed. This final plan has not been submitted to date.

The SAO could not confirm if sampling as required under the expired license was being completed however discussions with staff found that regular fecal sampling of the potable water in the community was the only sampling done to date.

The SAO also confirmed that he had reviewed some information on the recent failure of the sewage lagoon. He noted that the GN’s Regional Engineer had been in the community on July 5th. A review of the file was undertaken and a spill report could not be located. A spill report is required and must be filed for the release.

The SAO was not aware that the Water License for the municipality had expired.

WATER SUPPLY

Source(s): Water Supply Lake (Reservoir)	Quantity used: 16,771,498.20 L to date
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 and Pumping Station the Inspector noted the following;

- Annual Report for 2010 has not been filed by the licensee
- Signage has been installed at the pumping station – Gate valve area clear of debris
- 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	
Seasonal Discharge: No	Wetlands Treatment: UK	Trench: None

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

Discharge Quality: UK	Decant Structure: Not in use	Erosion: None
Discharge Meas. Device: U	Dyke Inspection: NI	Seepages: East wall
Dams, Dykes: U	Freeboard: A	Spills: U
Construction: NI	O&M Plan: U	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 during inspection
- Failed lagoon cell (cell 1) still in use by Municipality
- Hamlet staff members confirmed that cell 1 remains in use
- No remedial clean up work to address the 2008 release of 13 million liters of raw effluent had been undertaken by the GN or the Municipality as required by the Inspector in 2009 and 2010
- Flow patterns from the most recent Cell 1 lagoon release are still evident on top of ground down gradient from lagoon
- Cell two is in use and remains at approximately 1/3 capacity
- Samples were collected 150 meters from lagoon cell 2
- The licensee and GN have failed to report on the required geotechnical inspection of the facilities which are to be carried out on an annual basis by a qualified engineer

Solid Waste: Municipal solid waste site **Owner/Operator:** Hamlet of Hall Beach

Landfill: Y	Burn & Landfill: Y	Other: Metals dump
--------------------	-------------------------------	---------------------------

Comments: During the Inspection of the Solid Waste Management Facility the inspector noted the following;

- The Municipal Burn and bury area requires a fence to completely enclose the facility. Wind blown garbage noted throughout the area
- The Waste metals area have expanded to three sites on the road outside the community
- Segregation of metals and wood is 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 is an expectation that a waste oil furnace will be installed this fall
- No samples were collected

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 is stored on a lot in the community that is unlined. It is unclear where the batteries or other Haz mat is being consolidated or allowed to enter the municipal waste stream.

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:

- Submission of the following Plans as required under Part F, Item 1 of the Licence are not found on the NWB FTP site:
 1. Water Storage and Distribution Facility Operation and Maintenance (O&M) Plan;
 2. Sewage Disposal Facility Operation and Maintenance (O&M) Plan;
 3. Sewage Sludge Management Plan;
 4. Solid Waste Disposal Facility Operation and Maintenance (O&M) Plan;
 5. Spill Contingency Plan; and
 6. Monitoring Program Quality Assurance/Quality Control Plan.
- The Annual Report for 2010 has not been filed as required.
- Sampling as required under Part H, Items 2 and 3 have not been undertaken by the licensee.
- Lack of fencing around the Municipal Waste Management Area remains an issue.
- The Licensee has undertaken to segregate waste oils from the main waste stream in the community. Lined Storage as identified in 2010 remains an issue but work is on-going.
- The Licensee has failed to file a spill report on the failure of the Lagoon as required
- Remedial work to address the release from Cell one of the Lagoon has not been undertaken as required by the Inspector in 2009 and 2010.

It is the recommendation of the Inspector that compliance actions be undertaken, and that such actions enjoin all parties involved in the process to ensure future compliance with the legislation.

Inspector's Name

Inspector's Signature

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

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