

MUNICIPAL WATER USE INSPECTION FORM

Date: July 13, 2011	Licensee Rep. (Name/Title): Jackie Coultier ASAO and Walter Jacque (CG&S) Water Treatment Plant Operator and Kam So CG&S Muni- Tech services Officer
Licensee: Hamlet of Gjoa Haven	Licence No.: 3BM-0409- Expired

Comments: It was noted that the SAO was on holidays and the only person available to assist the Inspectors was Mr. Jacque, the water treatment tech from the Government of Nunavut. The ASAO Ms. Coultier also arranged a Hamlet council meeting for the early afternoon with the Water Resources Officer as well as the Municipal Technician from CG&S who both made presentations to the Council on the issues of Non-Compliance with the Water License, outstanding Annual Reports and Plans as well as simple solutions to address waste stream management within the Municipality. The Municipality expressed their belief that the Government of Nunavut has not provided them sufficient support and resources to address the deficiencies with the Sewage lagoon and Solid Waste Management Areas.

WATER SUPPLY

Source(s): Swan Lake	Quantity used: Unknown- Unknown
Owner:/Operator: Hamlet of Gjoa Haven	

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: NI	Conveyance Lines: A	Pumping Stations: A	Screen: NI

Comments: During the Inspection of the Water Intake and Pumping Station the Inspector noted the following;

- Hamlet staff were not available to take part in the Inspection
- No Annual Reports have been filed by the licensee since prior to 2004 when the now expired license was originally issued
- No signage has been installed at the pumping station.
- No water usage records were available as the community has not fully implemented the Fluid Manager System because of issues with staff not being comfortable using the system
- Truck sampling records were also not available for review and it is unclear if this sampling is currently being completed or not
- The Government of Nunavut Department of Community Government and Services have a staff member who lives and works in Gjoa Haven and provides the Water Treatment Services for the community.

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Primary

Natural Water Body: No	Continuous Discharge (land or water): Overflow to land	
Seasonal Discharge: No	Wetlands Treatment: N	Trench: None

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

Discharge Quality: U	Decant Structure: None	Erosion: U
Discharge Meas. Device: U	Dyke Inspection: NI	Seepages: U
Dams, Dykes: U -	Freeboard: U	Spills: NI
Construction: None	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 Lagoon(s) the Inspector noted the following;

- The Waste Water Lagoon in the community is under capacity and remains full throughout the year. A second cell has been constructed under the overflow pipe to catch the overflow and channel it into a long ditch that runs down gradient along behind the solid waste management area where run off from the Waste Management area mixes with the effluent and runs down to the ocean
- The main cell has approximately 1 meter of freeboard as the overflow pipe was installed at exactly that level
- The ground around the cells is saturated in effluent.
- Freshet carries untreated effluent outside the lagoon and into the surrounding environment
- The Inspector has made note of these issues many times over the last 5 years
- The Inspector has in previous reports required that this be addressed to prevent the loss of containment. It is clear that no work has been undertaken to address these issues.
- Lack of Signage/ Warnings also continues to be an issue
- Operations and Maintenance manuals for the Lagoon system have not yet been provided the Board.
- Sampling has not been undertaken as required by the monitoring program

Solid Waste: Municipal solid waste site Owner/Operator: Hamlet of Gjoa Haven

Landfill: Y	Burn & Landfill: Y	Other: Metals dump
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Comments: During the Inspection of the Solid Waste Management Facility the inspector noted the following;

- Plans for the Operation and Maintenance of the Solid Waste Disposal Facilities in accordance with “Guidelines for Preparing an Operation and Maintenance Manual for Sewage and Solid Waste Disposal Facilities” (October 1996) remains outstanding after 9 years
- Metal wastes within the facility are segregated into piles in most places. However the entire site has hazardous wastes scattered throughout. The Municipal burn and bury had evidence of batteries and oil filters in the facility during the inspection (as noted previously in 2008 and 2009)
- A hazardous waste section with a liner and secure containment has not been installed within the facility
- Drums of waste oils and other fluids were stored outside the Waste Management Area but were not placed on a liner
- A number of sites within the facility showed signs of open burning and waste plastics. The Inspector suspects people are burning the plastic cover from the large cables of copper wire
- The Municipal waste management area has no signage or warnings and as noted by the Inspector is not being properly policed / managed by the Municipality
- Water running through and off the facility is not contained or managed in any way

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: No hazardous wastes containment areas exist within the community, Barrels were found adjacent to the waste metals area.

SURVEILLANCE NETWORK PROGRAM (SNP)

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

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

- None of the required Annual Reports have been filed with the Nunavut Water Board since 2004. As such the Licensee is found to be working outside of the terms of the issued Water License and is out of compliance.
- None of the required sampling has been undertaken by the licensee. Records are not available for review and up-dated plans and manuals have not been filed with the Nunavut Water Board.
- In 2010 the Licensee was directed to provide a Plan for Compliance to the Nunavut Water Board and the Inspector. In July of 2011, following the Inspection, a Plan was received by the Inspector, submitted by Staff from Community Government and Services, Government of Nunavut on behalf of the Licensee. None of the objectives for short or long term planning had been undertaken by the licensee prior to the Inspection in 2011. The Inspector will review the Plan in Conjunction with the Nunavut Water Board prior to making a determination on the acceptability of the Plan as submitted.
- It is unclear what efforts if any the Licensee has undertaken over the past year to come into compliance with the Act or expired license.

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

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

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