

MUNICIPAL WATER USE INSPECTION FORM

Date: July 03,2012	Licensee Rep. (Name/Title): Paul Clow, Bob Brouillet, Keith Coutier, Jeff Macmunn
Licensee: City of Iqaluit	Licence No.: 3AM-IQA0712 (extended)

WATER SUPPLY

Source(s): Lake Geraldine	Quantity used: Unknown- est. 2 500 000 L per day
Owner:/Operator: City of Iqaluit	

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

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

Comments: During the Inspection of the Water Treatment Plant the Inspector noted the following;

- One of the two UV light filters were not working during time of inspection
- Water sampling and daily testing records were found complete as well as logs of bacteria testing for submission to public health
- Gaseous Chlorine clean up training for on site staff is out of date
- The recommendations contained within the Dam Safety Inspection conducted in 2010 and 2011 have began to be implemented; Permanent record files onsite, repairs to Lake Geraldine Northern berm, and grouting program
- Chemicals stored in secondary containment, with appropriate PPE including gaseous chlorine emergency kits and SCBA
- Spill kits and safety documentation available for hazardous materials onsite

WASTE DISPOSAL

Sewage: Sewage Treatment System (Prim./Sec/Ter.): Solids Removal

Natural Water Body: No	Continuous Discharge (land or water): Yes	
Seasonal Discharge: Decant of lagoon as required	Wetlands Treatment: N	Trench: None

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

Discharge Quality: U	Decant Structure: A	Erosion: A
Discharge Meas. Device: NI	Dyke Inspection: NI	Seepages: A
Dams, Dykes: A	Freeboard: A	Spills: A
Construction: A	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;

- Inspector was notified that the salsnes filter contained within the solid waste removal system had failed therefore requiring the operator to bypass effluent from solid waste removal system to the sewage lagoon during decant.
- Daily sampling results and logs were found on site and were up to date.
- A sludge waste management manual was not available on site for review.

Solid Waste: Municipal sold waste site Owner/Operator: City of Iqaluit

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

- Sewage sludge in facility is not contained on a liner, water and run off is not contained around the sludge allowing the run-off to surrounding facility grounds. It was indicated the sludge management plan was inactive since the landfill fire but is scheduled to proceed before the end of the season.
- Pre-Landfill fire the sludge was brought to the facility and allowed degradation time of a year (freeze and thaw) and is distributed as cap atop solid waste piles
- Facility is nearing capacity
- The Southern berm found North of the waste metal area had been reconstructed in November 2011, during the inspection it shows visible failures such as cracking, slumping and sagging through out
- Run off from the waste management area is pumped to a retention pond prior to discharge to environment. Sampling results available onsite.
- Hazardous materials are being improperly segregated and stored. Numerous batteries were found unsecured in proper storage area
- Some hazardous waste was found to be containerized for shipping and therefore should be shipped off site to a appropriate waste disposal facility
- City has purchased a Freon recovery unit that is still in use at 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: None noted during the inspection

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: Samples collected by Licensee to be submitted with annual report	
4	INAC: Potable water source, Effluent, Leachate, Retention Pond	
Signs Posted	SNP: None	Warning: None
Records & Reporting: Records of daily checks and sampling at Water Treatment and Waste Water Treatment Facilities were noted.		
Geotechnical Inspection: N/A		

Non-Compliance of Act or Licence:

The City of Iqaluit and Inspector identified a number of deficiencies and issues of Non compliance with the newly renewed License. As a result the City of Iqaluit has committed to the following;


- Outstanding issue from 2011 inspection was to provide the required safety training to all staff working within the water Treatment facility and specifically the training required to deal with a leak of chlorine gas. This issue requires immediately action.
- To provide proper safety equipment, spill containment and clean-up materials and other such resources as are required to workers working within the water treatment facility and West 40 Landfill facility
- To implement the surveillance monitoring program as outlined in the license.
- Batteries, open paint cans, and contaminated earth from leaking containers found not secured at hazardous waste site must be cleaned up immediately and secured in proper storage.
- To submit for review to the NWB and the Inspector a complete Annual report, Application for new Water license including Sludge Management Plan, Operation and Maintenance Manuel, and any other requested or required documentation before September 2012 inspection.
- To work with the Inspector and the Nunavut Water Board to prepare for a supplementary compliance inspection scheduled for September of 2012.

Christine Wilson

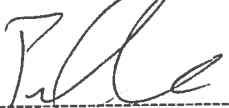
Inspector's Name

Paul Clow

Representative



Inspector's Signature



Representative Signature

Cc:
Andrew Keim- A/Manager Field Operations
Phyllis Beaulieu – Manager Licensing- Nunavut Water Board

Contact Information:

Christine Wilson
Resource Management Officer
Aboriginal Affairs and Northern Development Canada
Building 918 – Box 100
Iqaluit, Nunavut XOA OHO
867-975-4296 Ph
867-979-6445 Fx
Christine.Wilson@aandc.gc.ca