

MUNICIPAL WATER USE INSPECTION FORM

Date: July 4, 2013	Licensee Rep. (Name/Title): Paul Clow, Keith Coutier, Meagan Leach, Paul Keenainak	
Licensee: City of Iqaluit		Licence No.: 3AM-IQA0712 Expired

Comments: This inspection was completed to determine the state of compliance with the now expired Water Licence and Plan submitted by the City of Iqaluit (City) to regulators in response to an Inspector's Direction issued by Aboriginal Affairs and Northern Development Canada (AANDC) on March 5th, 2013.

Currently the City has an expired License. The City has initiated the renewal process however the Nunavut Water Board has not yet determined the completeness of the application.

WATER SUPPLY

Source(s): Lake Geraldine	Quantity used: Unknown- est. 2 500 000 L per day
Owner:/Operator: City of Iqaluit	
Indicate: A - Acceptable II - Unacceptable	NA - Not Applicable NI - Not Inspected

Intake Facilities: A	Storage Structure: A	Treatment System: U	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 identified the following;

- Both UV light filters were found to be functional during time of inspection.
- Water sampling and daily testing records were found complete and in order.
- The 2012 Annual Report had been submitted.
- It was noted that in 2012 a Dam Safety Inspection had been completed and a plan to address the recommendations in that report as well as to undertake the 7 year Dam Safety review in 2013 were underway.
- Chemicals were found stored in secondary containment inside the building.
- MSDS documentation available for hazardous materials onsite.
- The City of Iqaluit has recently submitted their application for renewal that is being reviewed by the NWB for completeness.

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 (at lagoon)	Spills: A
Construction: A	O&M Plan: U	A&R Plan: U
Periods of Discharge: Cont.	Effluent Discharge Rate: based on estimate only	

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

- Daily sampling results and logs found on site were up to date.
- A Sludge Waste Management Manual was submitted with the application for renewal.
- Operational Manuals for the plant were noted on site.
- Samples collected show exceedances of the License discharge criteria. The Licensee did not conduct sampling at the time of the inspection.
- The Licensee expressed concern related to the difficulty in finding a lab that tests for chlorinated parafins as required under the current license. The application makes a case for the removal of this parameter.
- The Licensee acknowledged that the required LC 50 testing has not been completed by the Licensee so far this year.
- It was noted that a decant of the Emergency Lagoon had recently been completed.
- A large area of hydrocarbon contaminated soils was found adjacent to the winter truck discharge location and where snow had been piled from the previous winter. The Licensee was to have filed a spill report and undertaken a cleanup of these soils before the period of the next inspection in October of 2013.



Solid Waste: Municipal Solid Waste Management Site Owner/Operator: City of Iqaluit

Landfill: Y Burn & Landfill: N Other: Waste/Bulk Metals

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 migrate to surrounding facility grounds. This issue was brought up in previous inspection reports but has not been addressed by the Licensee and remains an issue.
- The Solid Waste Management Area is nearing operational capacity. The city at this point is seeking public input on their solid waste management plan and a draft for review is to be submitted prior to the next inspection in October 2013.
- In 2011 work to reconstruct the North diversion berm was undertaken by the Licensee. The warranty work had not yet been undertaken but was scheduled to be completed before the period of the next inspection in October 2013.
- Run off from the Solid Waste Management Area is transferred to a retention pond prior to discharge to environment. Sampling was again completed by the Inspector directly from the retention pond. The discharge pump had malfunctioned prior to the inspection so samples could not be collected from the discharge after being run through the filter bags.
- The Hazardous materials area was inspected and found to be organized but required a great deal more work. The Licensee is reminded to ensure that transportation manifests signed by the facility licensed to treat such hazardous wastes are to be provided in the 2013 Annual report.

FUEL STORAGE: Owner/Operator: Government of Nunavut Indicate: A - Acceptable U - Unacceptable NA - Not Applicable NI - Not Inspected

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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		

Comments: These tanks belong to the Government of Nunavut and do not form part of the issued Water License for the City of Iqaluit.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collecte	ed	Owner /Operator: Samples collected by Licensee to be submitted with annual report	
3		INAC: Potable water source, Effluent, 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			

Comments:

During the period of Inspection it was noted that the City of Iqaluit has not yet fully implemented all of the conditions contained in the monitoring program. This remains an issue for the Inspector and is to be addressed in the coming month's sampling. The Licensee is to conduct all required sampling as outlined in the issued and now expired License.

The Licensee has yet to provide a report on treatment options for contact waters transferred from the Waste management facilities and contained within the Retention Berm. This is a requirement of the license and is to be completed prior to the next inspection in October 2013.

Non-Compliance of Act or Licence:

The City of Iqaluit has recently applied for a renewal to their water license and has provided the Nunavut Water Board a number of plans to address the deficiencies noted in this and previous inspection reports prepared since 2006.

On March 5, 2013 in response to issues of Non-compliance, an Inspector's Direction under the Authority of the Nunavut Water and Nunavut Surface Rights Tribunal Act was issued by an AANDC Inspector. On that same day and in conjunction with the AANDC Direction, the Department of Environment, Government of Canada also issued a Fisheries Act Direction to the City. Both of these <u>Orders</u> remain in force at the time of the Inspection.

The City has committed to addressing the identified non-compliance within the time frames developed in response to the conditions set out in the Directions and submitted to Inspectors on July 5th, 2013. Failure to meet these goals will result in further enforcement actions being undertaken to ensure the City's compliance with the Legislation.



A further Inspection of the City's progress towards compliance will be scheduled for October of 2013.

____Andrew Keim_____ Sent by E-mail (Original signed and on file)
Inspector's Name Inspector's Signature

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