

MUNICIPAL WATER USE INSPECTION FORM

Date: July 12, 2011	Licensee Rep. (Name/Title): None/ Sudir Kumar and Dan Nenadov CG&S Government of Nunavut
Licensee: Hamlet of Cambridge Bay	Licence No.: 3BM-CAM0914

WATER SUPPLY

Source(s): Water Supply Lake	Quantity used: Unknown- Unknown
Owner:/Operator: Hamlet of Cambridge Bay	

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

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

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 2008
- Chlorine storage within the Pumping station is of concern. Barrels stacked up-side down. No secondary containment is present
- No personal protective equipment was noted on site

During the Inspection of the Water Treatment Plant the inspector noted the following;

- Chlorine testing records for the trucks could not be located within the facility
- Records on the testing of the storage tank could not be found within the facility... Testing equipment was noted in the facility
- Consumption records were not available for review during the inspection
- The Government of Nunavut owns and operates the Water Treatment facility within the community and is providing this service.

WASTE DISPOSAL

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

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

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

Discharge Quality: UK	Decant Structure: Construction	Erosion: NI
Discharge Meas. Device: U	Dyke Inspection: NI	Seepages: U
Dams, Dykes: U - Construction	Freeboard: U	Spills: NI
Construction: On-going	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 construction/ modifications. The Facility has a dyke installed to retain the primary effluent (pond1).. This dyke has less than 1 meter of freeboard during the period of Inspection. The Inspector required that this be addressed to prevent the loss of containment and to provide evidence of this by e-mail. It is unclear if that has been done.
- A retention dyke has also been installed to prevent effluent from Pond one from entering and flooding the solid waste management area so that work to segregate the wastes in the facility can be undertaken. The dyke is leaking from the toe and an underground flow noted down gradient of the dyke. A pump had been installed to pump back the effluent.
- An Operations and Maintenance manuals update has not yet been provided the Board.
- A review of the NWB FTP site noted the presence of plans submitted in 2008 for the work being undertaken. It is unclear if any modifications to the original plans have been undertaken.
- Trenches for the disposal of metal and non hazardous wastes are being constructed.
- Facing has not yet been installed.
- As the work on the diversion of the lagoon systems outfall has not yet been completed the inspector could not locate sites for the SMP during this inspection.
- The Inspector sampled the effluent outfall at the original location.

**Solid Waste:** Municipal solid waste site      **Owner/Operator:** Hamlet of Cambridge Bay

<b>Landfill:</b> Y	<b>Burn &amp; Landfill:</b> Y	<b>Other:</b>
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**Comments:** During the Inspection of the Solid Waste Management Facility the inspector noted the following;

- The Facility is under construction. The renovations and modifications to the facility will include a Hazardous Materials area within the facility. This will be inspected next year
- The solid non-hazardous waste metals area was being dewatered during the inspection and contact water pumped into the main effluent pond. The scrap metals are scheduled to be buried in the 4 trenches currently under construction
- The Municipal burn and bury facility for Municipal waste requires additional cover material as burned garbage and debris were noted blowing around and being ejected from the facility. A fence is scheduled to be erected this year and materials were noted on site
- Operations and maintenance manuals have not been undated or provided since 2008
- It is noted that 6 sea-cans of waste metals were shipped out of the community in 2009

**FUEL STORAGE:**      **Owner/Operator:** Government of Nunavut

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

<b>Berms &amp; Liners:</b> NI	<b>Water within Berms:</b> NI	<b>Evidence of Leaks:</b> NI
<b>Drainage Pipes:</b> NI	<b>Pump Station &amp; Catchments Berm:</b> NI	
<b>Pipeline Condition:</b> NI	<b>Condition of Tanks:</b> NI	

**Waste Oil Storage:** It is not clear where the waste oil from the community is stored. No hazardous wastes containment areas exist within the community

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: 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 2009 and 2010 annual reports have not yet been filed with the Nunavut Water Board. As such the Licensee is found to be working outside of the terms of the issued Water License and is, as such, 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.
- Work within the community on the construction and up-grades to the sewage treatment lagoons and Solid waste management area are currently on-going. No up-dates could be located on the Nunavut Water Boards FTP site.
  - During the inspection the Inspector noted Dykes that has less than the 1 metre required freeboard. The inspector directed that the licensee take such measures as were required to address this situation and report back to the Inspector. No information has yet been provided.
- The Licensee is reminded to have a copy of their Water License available for review.

The Licensee is directed to provide to the Nunavut Water Board and the Inspector the following by March 31<sup>st</sup> 2011;

- Annual Reports for 2008, 2009, 2010, 2011
- All outstanding Plans as are required by the License

A.Keim

Inspector’s Name

Sent by E-mail

Inspector’s Signature

Cc:

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

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Contact Information:

Andrew Keim  
Water Resources Officer  
Building 918 – Box 100  
Iqaluit, Nunavut XOA OHO  
867-975-4289 Ph  
867-979-6445 Fx  
[Andrew.Keim@ainc-inac.gc.ca](mailto:Andrew.Keim@ainc-inac.gc.ca)