



WATER USE INSPECTION REPORT

Date: Aug 6, 2011	Licensee Rep. (Name/Title): No Representative
Licensee: Hamlet of Baker Lake	Licence No.: 3BM-BAK1015

WATER SUPPLY

Source(s): Baker Lake	Quantity Used: 7925586 m ³
Owner:/Operator: Government of Nunavut	

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

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

Comments: The Government of Nunavut is responsible for the drinking water storage and treatment in Baker Lake. Hugh from Community and Government Service (GN) accompanied the AANDC Inspector around the intake and pump house inspection. The pump house is clean and tidy and good records are kept for water usage and treatment. Water samples were taken at this SNP station.

WASTE DISPOSAL

Sewage: **Sewage Treatment System** (Prim./Sec/Ter.): Lagoon and lake system

Natural Water Body:	Continuous Discharge (land or water):	
Seasonal Discharge:	Wetlands Treatment:	Trench:

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

Discharge Quality: Unknown	Decant Structure: NA	Erosion: U
Discharge Meas. Device: NA	Dyke Inspection: NI	Seepages: U
Dams, Dykes: NI	Freeboard: U	Spills: NI
Construction: NA	O&M Plan:	A&R Plan:
Discharge: Continuous	Effluent Discharge Rate: Unknown	

Comments: Sewage is trucked from the community and discharged into a lagoon. The lagoon has been modified and an outer berm installed to increase retention time. There are a couple of low points in the new lagoon and there is insufficient freeboard at these sections. The effluent from the lagoon follows a man made rock outcrop before entering Lagoon Lake. The effluent then follows a series of small lakes before finally discharging into Baker Lake. Samples were taken at this SNP station.

- Overtopping of the lagoon in the low lying areas is likely and should be addressed as soon as possible.
- A small section of the berm has washed away and the fence has collapsed near the culvert exiting Lagoon Lake. Both the berm and fence should be repaired as soon as possible.

Solid Waste:

Owner/Operator: Hamlet of Baker Lake

Landfill: U	Burn & Landfill: U	Other:
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Comments: The municipal waste management area (WMA) needs a great deal of work. There is some segregation of materials; more improvement is required in this area. There are areas designated for oils, metals and other hazardous wastes; however there are still hazardous wastes mixed in with the general garbage.

- Waste oils stored throughout the waste management area with no secondary containment.
- Batteries (some are broken open) stored outside of the sea container designated for battery storage.
- Numerous waste oil and fuel spills around the entire WMA.
- Animal carcasses are scattered around the WMA.
- Tires and scrap metals are stored separately.

FUEL STORAGE:

Owner/Operator: Government of Nunavut

Waste Oil Storage:Noted in waste management area

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:	Condition of Tanks: NI	

Comments: The Government of Nunavut is responsible for fuel storage in Baker Lake.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected		Owner /Operator: None
3		INAC: .BAK-1, BAK-2, BAK-5
Signs Posted	SNP: None	Warning: Some signs were found at lagoon and WMA
Records & Reporting:		
Geotechnical Inspection:		

Non-Compliance of Act or Licence:

- Proper management and supervision of the waste management area (WMA) is required.
- Segregation of materials in the WMA is necessary as well as limited access to general public.
- Hazardous materials including used batteries and waste oils/fuels should be placed in secondary containment.
- The low areas in the berm should be repaired as soon as possible to prevent overtopping or a breach of the berm in the spring. There is insufficient freeboard in the lagoon due to the low areas.
- There are thousands of drums near the airport (various companies) that should be disposed of appropriately. It is unknown to the Inspector who is responsible for this, but should be looked into to get this area cleaned up.
- There is another area similar to the one mentioned above, close to the Agnico Eagle tank farm that should be cleaned up as well.

Ian Rumbolt
Inspector's Name

Sent by E-mail
Inspector's Signature