

WATER USE INSPECTION REPORT FORM

Date: July 19th,2011	Licensee Rep. (Name/Title): André Bouchard A/Station Mgr.
Licensee: Environment Canada	Licence No3BC-EUR1015

WATER SUPPLY

Source(s): Station Creek	Quantity used: 1762.8 m³ / June
Owner:/Operator: Environment Canada	

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

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

Comments: Water from Station Creek is pumped into the constructed reservoir. Inspector noted the very low water levels in Station Creek at the time of the Inspection. Reservoir found to be near capacity. Reverse Osmosis, water softener, Micron Filters and a UV system were noted operating and in place within the station. Eureka Weather station also provides potable water to the Ft. Eureka Base at the airport. This usage is recorded separately and the two amounts added together determine annual withdrawal from Station Creek.

WASTE DISPOSAL

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

Natural Water Body: NA	Continuous Discharge (land or water): None	
Seasonal Discharge: Yes to Fiord	Wetlands Treatment: NA	Trench: NA

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

Discharge Quality: NI	Decant Structure: A	Erosion: NA
Discharge Meas. Device: U	Dyke Inspection: NI	Seepages: NI
Dams, Dykes: A	Freeboard: A	Spills: None reported
Construction: NA	O&M Plan: NI	A&R Plan: NI
Periods of Discharge: NA	Effluent Discharge Rate: Unknown	

Comments: During the Inspection the Inspector noted the following;

- Decant had been completed prior to Inspection
- Sampling results were provided
- Location of new Lagoon still to be determined
- Discharge directly to a Marine environment

Solid Waste:

Landfill: on site	Burn & Landfill: None	Other: Backhaul of Haz mat as well as incineration of domestic waste
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Comments: During the period of Inspection the following was noted by the Inspector;

- The Land fill facility had recently been covered over with new material
- Plastic garbage bags containing plastic bottles, cans and other domestic wastes were noted in the land fill
- Paint cans, aerosol cans, burned oil filters, and a florescent light bulb were noted within the facility One recently crushed vehicle was also noted within the Facility
- Hazardous materials were being shipped out in cooperation with environment Canada. No records were available for review at the time of the inspection
- At the “barrel dump” it was noted that as many as 800 plus drums are scheduled to be crushed by Environment Canada Contractors, in addition to the 250 plus drums already crushed on site by National Defence. This is not accepted practice in the north. Liners and containment are not being used, these sites are not capped facilities and the barrels, though emptied are not decontaminated prior to crushing and disposal. While Environment Canada is not the only organization involved in this activity at this site, the practice of burying barrels in this manner can not continue. It is recommended by the Inspector that an alternative be found and implemented prior to the next Inspection
- Waste metals also noted in barrel area
- Two sites are currently in use as land farms / contain contaminated soils. One sits on secondary containment and the other is older and had not been turned over this year at the time of the Inspection. It is unclear what the plans for these sites are as no information could be located on in the annual report on progressive reclamation projects

FUEL STORAGE:

Waste Oil Storage: None noted on site Owner/Operator: Environment Canada

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

Berms & Liners: A	Water within Berms: NA	Evidence of Leaks: U
Drainage Pipes: NA	Pump Station & Catchments Berm: NA	
Pipeline Condition: NA	Condition of Tanks: NA	

Comments: During the Inspection at the fuel storage along the airstrip the Inspector noted the following;

- Assorted barrels belonging to other agencies including NRCAN- PCSP are stacked along the apron with no Secondary Containment
- Refuelling pads for PCSP Helicopter on the opposite side have no secondary containment

During the Inspection of the Main Tank farm at the weather station the Inspector noted the following;

- The 3 inch fuel line had developed a leak approximately 36 inch back along it's length from the nozzle. The spill is to be cleaned up and the hose replaced.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: Environment Canada – Provided as required	
0	INAC: No samples collect at this time	
Signs Posted	SNP: None posted	Warning: None posted
Records & Reporting: Annual reporting was noted on the Nunavut Water Board FTP site		
Geotechnical Inspection: Not submitted as required		

NON-COMPLIANCE OF ACT OR LICENCE: The Inspector noted the following issues;

Overall the Inspector found no instances of serious non-compliance with the operations of the Station at Eureka.

The Licensee is however reminded;

- Waste oil filters are to be crushed and removed on sea-lift as hazardous waste
- The Inspector requires a 10 day notification of discharge prior to decanting the Lagoon
- The continual practice of emptying, crushing and burying barrels on site is not an accepted and environmentally friendly practice. These items once cleaned properly could be safely stored in a properly constructed non-Hazardous waste facility however this is not the current practice. While on site the last two Inspections (2009 and 2011) the inspector noted 3000 plus drums that would have been crushed and buried on site. As discussed in 2009 this is not the only alternative for disposal. The Licensee is reminded that a plan to address this outstanding issue was a strong recommendation in 2009, again now in 2011 and will be very high on the Inspectors list of item to inspect during the next Inspection.

A.Keim

Inspector’s Name

Sent by E-mail (Original signed and on file)

Inspector’s Signature

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

Contact Information:

Andrew Keim
Water Resources Officer
Aboriginal Affairs and Northern Development Canada
Building 918 – Box 100
Iqaluit, Nunavut XOA OHO
867-975-4289 Ph
867-979-6445 Fx
Andrew.Keim@ainc-inac.gc.ca