

WATER USE INSPECTION REPORT FORM

Date: July 19th,2011	Licensee Rep. (Name/Title): M.W.O Fenton and Nicholas Karsin (Tech)
Licensee: Department of National Defence	Licence No3BC-ERK1015

WATER SUPPLY

Source(s): Water is provided by Environment Canada	Quantity used: 330.3 m³ (from EC records) to date
Owner:/Operator: Department of National Defence	

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

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

Comments: At the time of the Inspection the facility was being vacated by Canadian Forces personnel. No water usage at time of inspection.

- The OIC informed inspectors that they were leaving on the flight to CFS Alert. The facility was in the final stages of closure for the season.
- A list of changes to the Water intake and Treatment systems within the facility since the period of the last Inspection in 2009 will be submitted in the 2010 Annual Report.

WASTE DISPOSAL

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

Natural Water Body: NA	Continuous Discharge (land or water): None	
Seasonal Discharge: Not decanted	Wetlands Treatment: NA	Trench: NA

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

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

Comments: During the Inspection the Inspector noted the following;

- The activated sludge treatment system was not in use this year at Ft. Eureka. This is contrary to the issued License
- An Operations and Maintenance Manual has been submitted as required. The review of the Plan required National Defence to submit the specifications for the sludge treatment system. This was not found to have been submitted to the board as required
- Both cells of the lagoon were found with less than the required 1 meter of freeboard. The primary cell was found to be at risk of overtopping. When questioned about the condition of the cells and the required decanting/ sampling the Inspector was informed that in a month a close out crew would be on site to close the facility
- Some of the required sampling was completed on site as outlined in the license, these results will be submitted in the Annual Report
- It is clear from the condition of the cell walls that effluent had overtopped both the primary and secondary cells. It is likely that this occurred during freshet early in the spring. It is unclear if the Licensee decanted the lagoon last year prior to shut down of the facility. No records were available for review from 2010 as the licensee also did not undertake the required sampling

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
- It was stated during the inspection that 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 250 plus drums had been crushed and buried by DND. 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 DND is not the only organization involved in this practice 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.
- At the Weather Station facility is a building belonging to DND marked HADCS – High Arctic data Communication system.. Outside the building are a number of crates of Batteries. It is recommended that these be moved inside the building and shipped off site as soon as possible as Haz Mat.

FUEL STORAGE:

Waste Oil Storage: None noted on site Owner/Operator: National Defence		
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 refuelling/ storage along the airstrip the Inspector noted the following;

- Tanks appear to comply with regulations
- Secondary containment was present for DND materials (drums)
- The location behind the main tanks where the Bladders were installed still has evidence of high hydrocarbon contamination and it does not appear the soils from this area have been removed as ordered
- 8 repack salvage drums were noted at the strip location. No hazardous materials signage or markings were installed. It is unclear what is contained in these barrels.

SURVEILLANCE NETWORK PROGRAM (SNP)

Samples Collected	Owner /Operator: National Defence	
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 of Non-compliance;

- All hazardous materials are not properly segregated for shipment off site
- Effluent /waste water treatment systems are do not comply with License requirements
- Failure to conduct all required sampling as outlined in the License
- Failure to maintain lagoon systems – At risk of breach and uncontrolled release

It is understood by the Inspector that the facility has a very short window of opportunity to conduct all of the required tasking (Jobs) that have been assigned. It is also clear that progress has been made on a number of fronts since the last inspection of the Ft. Eureka facility however a great deal remains left to accomplish.

An elevation of the priority to adhere to regulatory permits and licenses may be required to achieve consistent compliance at this site. Environmental stewardship often must compete with other high priority functions and tasks that are assigned as well. The Inspector is satisfied that progress is being made at the site however emphasises that there is a great deal more work required.

The Licensee will be required to develop and submit for review a **Compliance Plan** that will outline how National Defence will educate/ promote these requirements to on-site personnel and what steps will be taken to ensure that these deficiencies are addressed prior to the period of the next Inspection. The Compliance Plan shall be submitted as an addendum to the 2011 Annual Report Due on March 31st 2012.

A.Keim

Inspector’s Name

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

Inspector’s Signature

Cc:
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