



## WATER USE INSPECTION REPORT

Date: July 11, 2013	Licensee Rep. (Name/Title): Andrew Tam
Licensee: Department of National Defence	Licence No.: 3BC-ERK1015

**Comments:** Upon arrival at site the Inspector was met by OIC Michael Manetti and SWO Gilles Ruel. Also in attendance were Mr. Andrew Tam and Drew Craig who had flown down on another flight from CFS Alert to take part in the Inspection and Mr Erik Allain from AANDC.

### WATER SUPPLY

Source(s): Water is provided to the camp by Environment Canada.	Quantity used: Water use records were provided during the inspection and reviewed on site. Final totals are to be provided in the Annual Report.
Owner: Department of National Defence	

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

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

**Comments:** During the period of inspection the Inspector visited the installed treatment system and reviewed with the staff the processing and holding tanks. All was found to be working and in good order. Water is filtered and run through a UV system before entering the facility. Records for maintenance were noted on site. It does not appear that any changes or modifications to the system have been undertaken since the last inspection.

### 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: Seasonal decanting	Wetlands Treatment: NA	Trench: None

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

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

**Comments:** During the period of inspection it was noted that the Effluent treatment system (digester) was once again in use as a solids removal and settling tank as a primary stage for treatment. This shows great improvement over the practice of direct discharge to the lagoon and will result in better treatment and better compliance with the issued License.

Both cells of the lagoon were ready for the initiation of decanting. This is planned to be undertaken as soon as the required guard stone and erosion protection measures are installed. Sampling results are to be forwarded upon receipt as requested during the Inspection.

It was clear that a great deal of remedial/rehabilitation work had recently been undertaken to correct previous damage done to the berm walls and tundra by operators working on the lagoon walls in previous years. This was a very large undertaking and shows commitment to compliance with the issued license and the Act.

Installation of an extended outfall pipe to prevent overtopping is scheduled prior to the close of the base.



**Solid Waste:**

**Owner:** Department of National Defence

Landfill: Recently covered	Burn & Landfill: NA	Other: Incinerator – off line
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**Comments:** During the period of inspection the following was noted by the Inspector;

- The incinerator remains off line with parts still on order. This is to be addressed before the period of the next inspection. Waste is currently incinerated at the Environment Canada Weather Station.
- Hazardous wastes are being marshalled and packaged for transport off site. Last year’s shipment of Hazardous waste is reported to be stalled at the Nanisivik deep water Port after being off-loaded by Canadian Coast Guard. These wastes have sat over winter without monitoring or security and remain the responsibility of National Defence and the Government of Canada. This practice of off loading Hazardous waste in unsecured locations is not acceptable and is to be addressed in the coming year. The resolution to this issue is to be provided to the Inspector as an addendum to the Annual Report.
- The camp has undertaken a waste management program and goes to great efforts to manage their waste stream as much as is possible within the confines of their very short operating period (6 weeks).

**FUEL STORAGE:**

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

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

**Comments:** During the period of inspection the Inspector noted as follows;

- Secondary containment was present for DND materials (drums).
- Hazardous materials were in the process of being consolidated and packaged for shipment off site again this year.
- The contaminated site (Hydrocarbon spill) behind the large stationary tanks remains after four years and three inspections of the site. When questioned regarding why this was, the Inspector was told that the site was still being assessed and that the Environmental unit was following steps outlined in the Federal Contaminated sites guidelines. It was stated that they are currently on step four of the process. This may be the case however four years of assessment is not acceptable as the possibility that the spill will migrate and contaminate an area larger than initially assessed or extend under the current Bulk Fuel storage area adjacent to the airstrip poses an unacceptable risk. As such the Department of National Defence has until the period of the next Inspection to have undertaken the work necessary to contain these soils to prevent migration and start the remediation process. If an Inspectors Direction or a more formal enforcement order is required to ensure compliance with this order it will be issued without delay.

**Waste Oil Storage:** None noted on site      **Owner/Operator:** Department of National Defence

**SURVEILLANCE NETWORK PROGRAM (SNP)**

Samples Collected	Owner /Operator: 3 Samples collected as required. Results to be provided.	
	AANDC: Samples collected at drum crushing area and raw water reservoir	
Signs Posted	SNP: Present	Warning: Signage present
Records & Reporting: Logs were found on site and were available for review		
Geotechnical Inspection: None.		



### **Non-Compliance of Act or Licence:**

As previously identified by the Inspector in Inspection Reports, the Ft. Eureka facility has a very short window of opportunity to conduct all of the required tasks that are assigned during their period of deployment. Continued diligence and effort is required to maintain compliance with the issued authorizations. The Inspector notes the progress made at the site including the implementation and strict adherence to the management of the waste stream and the herculean task of marshalling for retrograde hazardous wastes off site. The installation of secondary containment at the Airstrip is also acknowledged as a positive step toward ensuring continuing compliance with the issued authorizations.

During the period of inspection the Inspector identified the following issue that requires action;

- The failure to contain hydrocarbon contaminated soils and remediate the site behind the Bulk fuel storage on the Airstrip apron. This work is to be undertaken without further delay to prevent the migration of hydrocarbon contamination further under the bulk fuel storage facility or the runway. If required a Direction will be issued to ensure compliance.

### **Signature Block:**

A.Keim  
**Inspector's Name**

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

Cc:

Phyllis Beaulieu – Manager Licensing- Nunavut Water Board

Erik Allain - Manager – Field Operations Unit, AANDC

### **Contact Information:**

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