

## **2010 Annual Report to the Nunavut Water Board**

**Licensee:** Department of National Defence – 1 Canadian Air Division

**Licence:** 3BC-ALT1015 Type “B”

**Location:** Canadian Forces Station Alert, Ellesmere Island,  
Qikiqtani Region, Nunavut.

**Report submitted by:** Department of National Defence –  
8 Wing/Canadian Forces Base Trenton –  
8 Wing Environmental Management,  
31 March 2011

### **Executive Summary**

The 2010 Annual Report to the Nunavut Water Board (NWB) is a requirement under Licence Number 3BC-ALT1015 Type “B”, Part B, paragraph 1. This is the first Annual Report to be submitted for Canadian Forces Station (CFS) Alert, Nunavut. The Licence was issued on August 4<sup>th</sup>, 2010, to the Department of National Defence (DND) – 1 Canadian Air Division (1 Cdn Air Div), Winnipeg, Manitoba. As 8 Wing – Canadian Forces Base (CFB) Trenton, Ontario, oversees CFS Alert, 8 Wing Trenton will be filing the Annual Report on behalf of 1 Cdn Air Div.

For 2010, the daily water usage at CFS Alert was 180 cubic meters. This usage is below the 185 cubic meters daily water usage allowed by the NWB Licence. The total annual quantity of water usage was 65,658 cubic meters.

The Operation and Maintenance (O&M) Manual for CFS Alert was submitted to the NWB on November 30<sup>th</sup>, 2010, by DND and Defence Construction Canada, including subsequent responses to the NWB comments on the O&M Manual and the submissions of the site location maps and drawings. The Quality Assurance/Quality Control Plan was previously submitted to the NWB. A note regarding the Abandonment and Restoration Plan for CFS Alert is attached in the Appendix O of this annual report. It should be mentioned that an updated version of the Spill Contingency Plan can be found in Appendix D of the O&M Manual; the contact numbers did not require any revisions.

Hazardous waste was backhauled from CFS Alert in 2010 for disposal outside of Nunavut. Direct Line Environmental Services Corporation, Pickering, Ontario, collected a total of 72 drums of assorted hazardous waste containing waste batteries, battery ashes, and waste Phosphoric Acid. Non-hazardous domestic wastes from CFS Alert were directed to the designated landfills (Main Station Landfill & Millionaire’s Dump). All sewage and waste water was directed to the Sewage Terrace System.

A spill event of 900 Litres of Domestic Fuel (DF-8) occurred from September 14<sup>th</sup> to 15<sup>th</sup>, 2010, at CFS Alert. The Spill Contingency Plan was immediately employed by Alert staff and the spill was reported by 8 Wing Environmental Management to the Northwest Territory-Nunavut (NWT-NU) Spill Report Line; a Nunavut Water Board (Indian and Northern Affairs Canada) Inspector, Mr. P. Kusugak; an Environment Canada Enforcement Officer, Mr. C. Didham; and 1 Cdn Air Div, on September 16<sup>th</sup>. During site clean up, 196 cubic meters of fuel contaminated gravel was excavated and placed into the Landfarm where treatment options will be assessed during summer of 2011.

The sampling requirements for the 2010 CFS Alert Monitoring Program could not be fully implemented as the date of issuance of the NWB Licence conflicted with the seasonal environmental conditions and timings. By the date of issuance, Alert no longer produced any runoff or ground seepage, and the short summer seasonality was quickly returning to winter conditions. The conditions hampered the collection of any practical samples for laboratory analysis. Effort in timing and planning is being made to ensure a successful 2011 CFS Alert Monitoring Program to reflect DND's positive commitment to demonstrating compliance to the NWB Licence.