



8 Wing Environmental Management
8 Wing Trenton
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18 Apr 2013

Phyllis Beaulieu
Manager of Licensing,
Nunavut Water Board
P.O. Box 119
Gjoa Haven, Nunavut X0B 1J0

NOTIFICATION OF PROPOSED MODIFICATIONS AND CONSTRUCTION AT
THE CANADIAN FORCES STATION (CFS) ALERT

- References A. CFS Alert's Nunavut Water Board Licence# 3BC-ALT1015
B. Proposed Engineered Landfarm Facility Plans – CFS Alert Drawings
C. Replace Fuel Piping System POL Compound in Alert – CFS Alert Drawings

Dear Ms. Beaulieu,

The Department of National Defence (DND) - 8 Wing Trenton Environmental Management Office is submitting this notification of proposed modifications and construction for CFS Alert's Fuel System and Waste Disposal Facility. This notification is being provided sixty (60) days prior to commencing any work in conformance with Part F of Reference A.

The proposed modification to CFS Alert's Fuel System involves the complete replacement of the existing Fuel Day Tank Compound and connecting fuel pipelines with a new Fuel Day Tank Compound. The secondary containment of the existing Compound is the Water Licence Surveillance Network Program – Monitoring Station #ALT-10 "Day Fuel Tank Farm Secondary Containment" (Lat: N 82°29'58.0"; Long: W 62°21'16.0"). The new Compound will be situated in the same location as the existing Compound, and it will include a new fuel storage tank and secondary containment berm.

The proposed modification to CFS Alert's Waste Disposal Facility involves constructing a new engineered landfarm facility adjacent to the ALT-10 location. The ALT-10 location is situated within a known historical Federal Contaminated Site. As site excavation is required, the excavated contaminated material will be placed into this new landfarm facility for remediation, treatment and management.

The proposed modifications and construction are detailed in Table 1.

Table 1 - List of Modifications & Construction to CFS Alert Fuel & Waste Disposal Facilities (ALT-10)

Modifications & Construction:	Description:	Project Start Date (estimate):	Comments:
Construction of a new engineered Landfarm adjacent to ALT-10 area.	New engineered landfarm facility will have a capacity of 500 cubic meters.	Mid-June 2013	For location, see Ref. B: Drawings #110; for design plan, see Ref. B Drawing #112.
Removal of the existing Fuel Day Tank Compound and excavation of the ALT-10 berm area (footprint).	The fuel storage tank will be decommissioned, as per Federal Regulations, and excavated ground material will be placed in the new engineered landfarm.	Late-June 2013	For Compound decommissioning, see Ref. C: Drawing #101.
Construction of the new Fuel Day Tank Compound including new ALT-10 secondary containment berm.	A 30,000L fuel tank will be installed, and the secondary containment berm will have at least 110% capacity.	July 2013	For build design, see Ref. C Drawing #402
Replace all underground fuel piping with aboveground piping.	Excavation of underground piping and installation of new aboveground fuel pipes near ALT-10 location.	July 2013	For piping work around ALT-10, see Ref. C: Drawings #102-109.
Construction of the overhead fuel pipe road bridge.	Construction of an overhead fuel pipeline bridge above the existing road.	July 2013	For pipe bridge design, see Ref. C: Drawings #203.
Replacement of fuel piping around CFS Alert	Various upgrades and modifications to fuel pipes around the main station buildings.	July 2013	For piping work around the station, see Ref. C: Drawings #102-109; 201-203.

Project Timeline

As projects in the High Arctic are impacted by many factors (logistics, transportation, supply, weather, etc.), the project start dates are best estimates. Unforeseen circumstances may cause delays ranging from weeks to entire seasons. Given this factor, I have included the best estimated project start dates (Table 1).

Relations to Water

The proposed modification and construction work site is located adjacent to the main station compound, and the work location is well away (greater than 31 metres) from the ordinary high water mark or any water bodies. There will be no work in any active water ways or bodies.

Should you have any further questions or comments, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Andrew Tam', with a long horizontal flourish extending to the right.

Andrew Tam, MSc, PhD (Candidate)
Assistant Environment Officer
8 Wing Trenton Environmental Management Office

Distribution List

Ms. P. Beaulieu / NWB Licence Manager
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