Transport Canada LTU Annual Report 2007 Iqaluit Airport, Nunavut Water License No. 1BR-LTU0608

To:

Nunavut Water Board P.O. Box 119 Gjoa Haven, Nunavut X0B 1J0

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Introduction

Transport Canada (TC) received a water license from the Nunavut Water Board to operate a landfarm in order to treat petroleum hydrocarbon (PHC) contaminated soil at the Iqaluit airport. The water license No. 1BR-LTU0608 was issued on August 21, 2007 which outlines the terms and conditions for the operations and maintenance of the facility. TC anticipated constructing one large LTU cell on site, however the topographic conditions and airport operations made this difficult due to restriction related to the runway, adjacent taxiway and apron. Therefore, TC constructed two smaller LTU cells (C & D) adjacent to the previously constructed LTU cells (A & B) which will be decommissioned in the near future (see site plan drawing). The following report will outline the activities for the LTU as described in Part B Item 2 in the water license.

History

Prior to July 1, 1995 Iqaluit Airport was owned by the Government of Canada and operated by the Quebec Region of the Department of Transport. From July 1, 1995 until April 1, 1999 the airport was owned by the Government of Northwest Territories and operated by the Arctic Airports Division of the Department of Transportation. Since April 1, 1999 the airport has been owned by the Government of Nunavut and operated by the Nunavut Airports Division of the Nunavut Department of Community Government, Housing and Transportation.

As a condition of the Arctic A Airport transfer agreement (July 1995) between GNWT and Transport Canada, the environmental issues, which existed prior to the airport transfer, are to be remediated as well as any items identified by the GN within six years of the transfer date. Works identified under this document address some of the issues identified in the transfer agreement as well as post transfer issues. Types of PHC contaminated soils encountered for disposal in the LTU are gasoline, diesel, and jet fuel (A,B) which are the main sources of fuel spills and leaks over the past 60 years at this location. The depth of contaminated soil in the LTU will not be greater then 1m and will be constructed based on the parameters outlined in the water licence application (also see attached engineered drawing).

Transport Canada is obligated to remediate all hazardous substances that are the department's responsibility that do not comply with the applicable environmental laws.

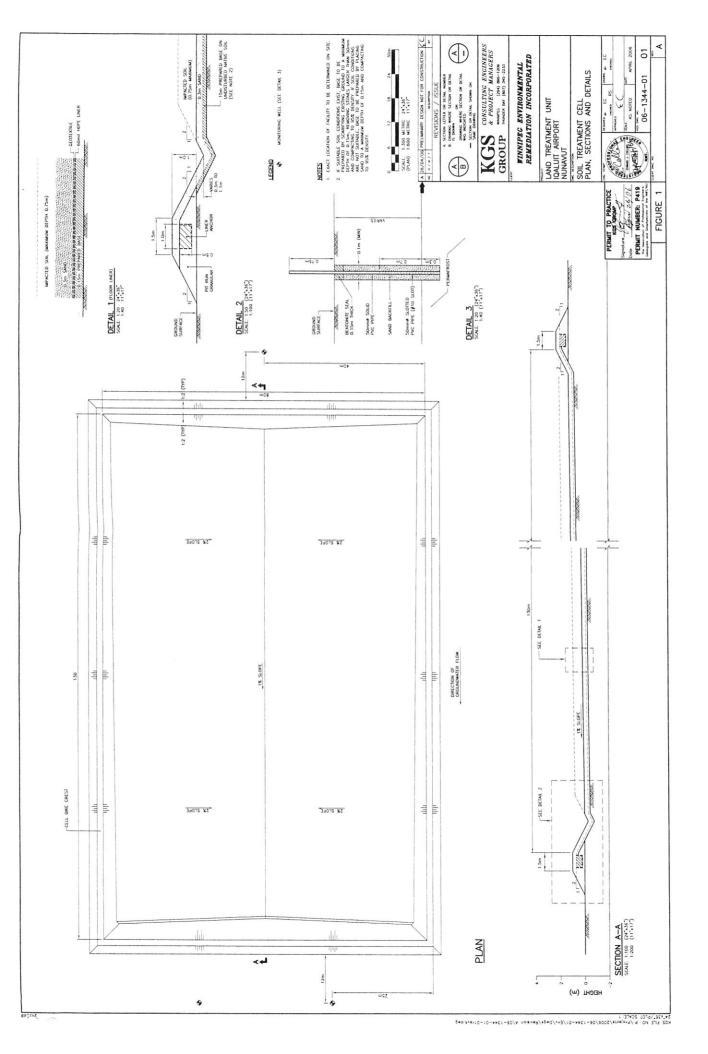
Part B Item 2

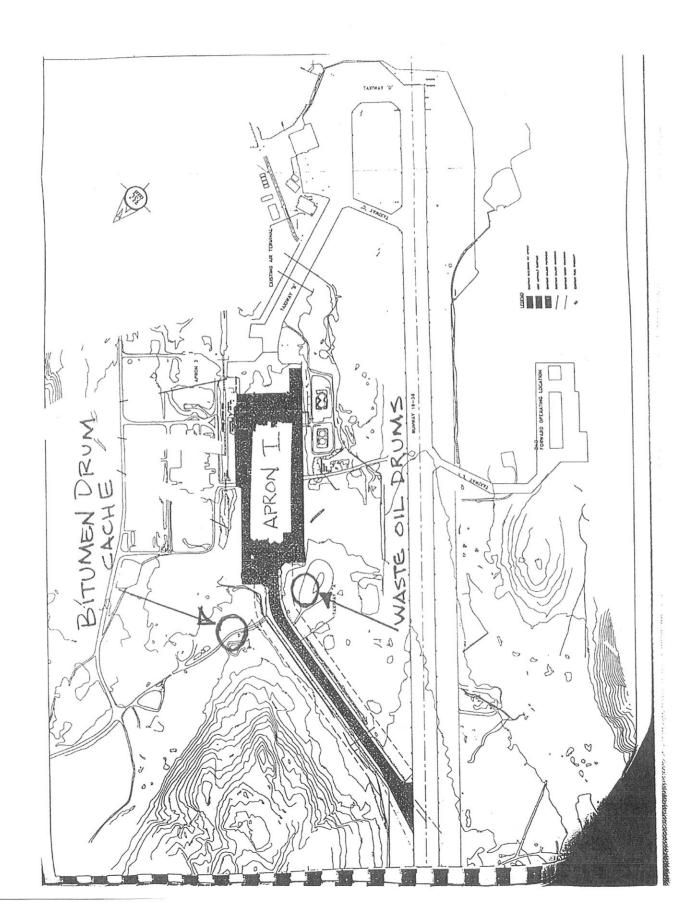
i. TC completed the remediation of Apron I during the summer of 2007. The Apron was configured to refuel B-52 bombers when the USAF owned and operated this airport between 1955 through the 1970's. As such, the Apron has an underground refueling piped system with 10 fuel hydrant boxes. TC conducted an environmental phase I & II investigation which indicated several areas of contamination at or near the fuel hydrant boxes. The contaminated soil consisted of jet fuel that was likely due to refueling spills and possibly leaking underground pipes. The underground hydrant boxes were removed and all associated contaminated soil was removed and placed in the LTU cell D. Approximately 150 –200 m3 of contaminated soil was placed in the LTU. Additional test pits were conducted in order to determine the site was clear of any additional contamination.

TC also completed the remediation of an abandoned sea can with associated 205L – used oil storage drums. The site is located adjacent to LTU cell B on the northeast corner. There were approximately 100 drums that were stored on site with several that appeared to be leaking. TC removed all drums and the sea can and proceeded to remediate the contaminated soil. TC removed approximately 270 m3 of contaminated soil and placed it in the LTU cell D.

- ii. No discharges to report;
- iii. There is no storage of any petroleum hydrocarbons at this site. The only concern for the Spill Contingency Plan is for heavy equipment working at the site for delivering contaminated soil to the facility or equipment used during tilling/fertilizing and maintaining the site. Heavy equipment operators are required to have their equipment properly maintained without any leaks. Operators are required to have a small spill kit with them at all times while on site. Operators are also required to have a spill plan containing contacts and procedures for emergencies such as hospitals, fire department, police and territorial governmental department environmental spills;
- iv. No additional works completed. See attachments for photos, site plan, engineered drawing:
- v. No monitoring/sampling required. The contaminated soil was placed in the LTU cell D during the summer and late fall.

vi. No additional details, no water use at this site





PRALUIT, AIRPORT LTU

