



Water Resources Division  
Nunavut Regional Office  
Iqaluit, NU X0A 0H0

NWB#: 3BC-NTC  
CIDMS#: 414261

July 2, 2010

Richard Dwyer  
Licensing Administrator  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU, X0A 1J0

**Re: New Application, Northeast Thelon Compilation (NWB#: 3BC-NTC),  
Geological Survey of Canada**

Please be advised that Indian and Northern Affairs Canada (INAC) has completed a review of the Geological Survey of Canada's application for a new Type "B" Water License #3BC-NTC, Northeast Thelon Compilation located in the Kivalliq Region of Nunavut. All associated documents related to this license posted on the NWB ftp website under 3BC-NTC were included in my review (please see attached technical memo for recommendations).

Should you have any questions or comments, please do not hesitate to contact me at (867) 975-4738 or by email at [Andrea.Cull@ainc-ianc.gc.ca](mailto:Andrea.Cull@ainc-ianc.gc.ca)

Yours truly,

*Original Signed By*

Andrea Cull  
Water Management Specialist

Cc: Lou-Ann Cornacchio, Water Resources Manager, INAC



## Technical Review Memo

To: Richard Dwyer, Licensing Administrator, NWB

From: Andrea Cull, Water Management Specialist, INAC

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**Re: New Application, Northeast Thelon Compilation (NWB#: 3BC-NTC),  
Geological Survey of Canada**

**BACKGROUND:**

Charles W. Jefferson of Geological Survey of Canada submitted a New Type "B" Water License application to the Nunavut Water Board (NWB) on April 14, 2010. Geological Survey of Canada is applying for a water license for water use and waste disposal associated with activities located in the Kivalliq region of Nunavut.

**INAC HAS REVIEWED THE FOLLOWING DOCUMENTS:**

- Water licence application received April 14, 2010
- Supplemental Questionnaire received April 14, 2010
- Inuktitut & English Summary received April 14, 2010
- Best Practices for Fuel Storage handling received April 14, 2010
- Generalized Fuel Caching received April 14, 2010
- Map fly camps and fuel caches
- Spill Plan received June 1, 2010
- AR Plan received June 1, 2010
- NIRB Screening received June 1, 2010
- NPC Conformity received June 2, 2010

All associated documents related to this license posted on the NWB ftp website under 3BC-NTC were included in my review.

As a result of the review INAC recommends that the Nunavut Water Board impose standard conditions suitable for camp/research projects of this size and magnitude. In addition, the following comments/recommendations are provided for your consideration in the license approval process.



## **COMMENTS/RECOMMENDATIONS:**

### **1. Waste**

#### **a). Camps / Wastewater Disposal**

INAC recommends that all sumps should be treated, backfilled and contoured to match the surrounding landscape prior to the end of the field program.

#### **b). Hazardous Wastes**

INAC recommends that Hazardous waste/ waste oil materials stored on-site should be clearly labelled so they will be visible under all conditions and in all seasons. This recommendation is intended to prevent possible damage to the containers.

INAC recommends that the proponent remove all hazardous materials/ waste oil from the site on a regular basis to prevent the over accumulation of these materials. Hazardous waste/ waste oils must be disposed of at an approved facility outside of the Territory of Nunavut (no known facilities within Nunavut). All transfer of this type of waste must be in accordance with the GN's "Guideline for General Management of Hazardous Waste - January 2002". In addition, hazardous wastes should be stored within a lined secondary containment structure to prevent any off site impacts (other secured structures would also be acceptable).

INAC recommends that the proponent be required to submit copies of all manifest forms related to the transport of hazardous waste/ waste oil as part of the Annual Report for this site (refer to question 25 of the Supplementary Questionnaire).

#### **c). Incineration**

According to EC's Technical Document for Batch Waste Incineration Guidelines, a facility incinerating more than 26 tonnes of waste per year, dual chamber, controlled air incinerators are the recommended configuration. The proponent shall make determined efforts to achieve compliance with the Canada-Wide Standards for Dioxins and Furans and the Canada-Wide Standard for Mercury Emissions. Efforts should include the implementation of a comprehensive waste management strategy (especially waste segregation) that is designed to reduce and control the volumes of wastes produced, transported, and disposed of.



**d). No Open Burning**

According to EC's Technical Document for Batch Waste Incineration Guidelines, there should be no open burning of plastics, wood treated with preservatives, electrical wire, Styrofoam, asbestos or painted wood. This is to prevent the deposition of waste materials from incomplete combustion and/or leachate from contaminated ash residues from affecting any surrounding waters.

**2. Spill Contingency Plan**

The Spill Contingency Plan should make reference to the Nunavut Spill Report Line and include a copy of the Nunavut Spill Report Form. This form can be obtained from the Nunavut Water Board public registry at <http://www.nunavutwaterboard.org>. Please note that the 24-hour Spill Report Line telephone number is (867) 920-8130 and facsimile number is (867) 873-6924. Furthermore, INAC requests the proponent report all spills to Peter Kusugak, INAC Manager of Field Operations, phone: 867-975-4295, fax 867 975-6445 as well as the Nunavut Spill Report Line.

Prepared by: Andrea Cull

Cc: Lou-Ann Cornacchio, Water Resources Manager, INAC