



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

NWB#: 3BC-PRH  
CIDMS#: 409416

June 10, 2010

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

**Re: New Application, Paleoenvironmental Reconstruction of the Haughton impact structure and surrounding terrains over the past 39 Million years (PRH) Project (NWB#: 3BC-PRH), University of Western Ontario**

Please be advised that Indian and Northern Affairs Canada (INAC) has completed a review of the University of Western Ontario's application for a new Type "B" Water License #3BC-PRH, Paleoenvironmental Reconstruction of the Haughton impact structure and surrounding terrains over the past 39 Million years (PRH) Project located in the Qikiqtani Region of Nunavut. All associated documents related to this license posted on the NWB ftp website under 3BC-PRH 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, Paleoenvironmental Reconstruction of the Houghton impact structure and surrounding terrains over the past 39 Million years (PRH) Project (NWB#: 3BC-PRH), University of Western Ontario**

### **BACKGROUND:**

Dr. Gordon Osinski of the University of Western Ontario submitted a New Type "B" Water License application to the Nunavut Water Board (NWB) on May 3, 2010. The University of Western Ontario is applying for a water license for water use and waste disposal associated with activities located on Devon Island in the Qikiqtani region of Nunavut.

The University of Western Ontario will set up a temporary camp along the Houghton River Valley, between July 1, 2010 and August 31, 2010. The water source will be Houghton River, which is located approximately 500m from the temporary camp. There will be a maximum of twelve (12) people at the camp at any given time.

### **INAC HAS REVIEWED THE FOLLOWING DOCUMENTS:**

- Water Licence Application received May 3, 2010
- Supplemental Questionnaire received May 3, 2010
- Inuktitut & English Summary received May 3, 2010
- Project Location map received May 3, 2010
- Spill Plan received May 18, 2010
- NPC Conformity Review received May 13, 2010
- NIRB Screening Decision received May 13, 2010

All associated documents related to this license posted on the NWB ftp website under 3BC-PRH 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 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). 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.

Prepared by: Andrea Cull

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