



March 11, 2011

Our reference  
IQALUIT-#451926

Sent by email: [licensingadmin@nunavutwaterboard.org](mailto:licensingadmin@nunavutwaterboard.org)

Richard Dwyer  
Licensing Administrator  
Nunavut Water Board  
Gjoa Haven, Nunavut  
X0E 1J0

Your reference  
3BC-MCP----

**Re: Type B Water Licence No. 3BM-MCP---- – Metamorphic Geology and  
Tectonics Research on Cumberland Peninsula, Baffin Island –  
University of Calgary – Qikiqtani Region – New Application**

Dear Richard,

Thank you for your February 10, 2011 request for written representations on the  
above referenced submission.

A Technical Review Memorandum is provided for the Board's consideration.

Please do not hesitate to contact me by telephone at 867 975-4555 or email at  
[David.Abernethy@inac-ainc.gc.ca](mailto:David.Abernethy@inac-ainc.gc.ca) to discuss this submission.

Regards,

David W. Abernethy  
Water Resources Regional Coordinator  
Operations Directorate  
Nunavut Regional Office  
Iqaluit, Nunavut  
X0A 0H0

Encl.

c.c.: J. Rogers, Water Resources Manager  
P. Kusugak, Field Operations Manager

## Technical Review Memorandum

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|----------------|--|---|
| <b>TO</b>      | Richard Dwyer<br>Manager of Licensing<br>Nunavut Water Board   | OUR REFERENCE<br>File #9545-2-3.3BC.MCPA<br>IQALUIT-#451926 |
| <b>FROM</b>    | David Abernethy<br>Water Resources Regional Coordinator<br>Indian and Northern Affairs Canada  | YOUR REFERENCE<br>3BC-MCP----<br><br>DATE<br>March 11, 2011 |
| <b>SUBJECT</b> | <b>Type B Water Licence No. 3BM-MCP---- – Metamorphic Geology and Tectonics Research on Cumberland Peninsula, Baffin Island – University of Calgary – Qikiqtani Region – New Application</b> |   |

### **A. PROJECT DESCRIPTION**

On February 11, 2011 the Nunavut Water Board (the Board) distributed the Type B Water Licence application that was submitted by Brett Hamilton on behalf of the University of Calgary's Department of Geoscience. A Water Licence with a one (1) year term is requested to allow for the use of water and disposal of waste associated with the University of Calgary's Metamorphic Geology and Tectonic Research on Cumberland Peninsula, Baffin Island Project (the Project). Project activities will consist of bedrock geological mapping performed by geologists on the ground. Up to 250 rock samples (1 to 2 kg each) will be sent out for laboratory analysis. According to the submitted application, the University of Calgary and the Geological Survey of Canada are collaborating with each other on this research project.

Four (4) temporary two (2) person tent based camps will be established in what are referred to as the Clephane Bay and Mischief Glacier mapping areas during the months of June and July 2011. Approximate coordinates selected from topographic maps and high-resolution satellite imagery have been provided. Water consumption from nearby sources for potable use is anticipated to be less than one (1) cubic metre (i.e., 20 litres per day for up to 44 days). Sumps will be used for the disposal of greywater and sewage. Solid waste materials will be flown to the Hamlet of Pangnirtung for disposal pending necessary approvals. Included in the submitted Water Licence application is a Spill Contingency Plan.

## **B. RESULTS OF REVIEW**

On behalf of the Indian and Northern Affairs Canada (INAC) Water Resources Division I am providing the following comments/ recommendations for the Board's consideration,

### **1. General Observations**

- The INAC Water Resources Division supports the University of Calgary's Water Licence application. Standard terms and conditions applicable to camp operations should be included in a Water Licence for this project.
- The University of Calgary should provide contact details for the Geological Survey of Canada personnel involved with their project.

### **2. Solid Waste Management**

- According to the submitted questionnaire, to date, the University of Calgary has not received a response from the Hamlet of Pangnirtung to allow for the disposal of solid waste materials generated by project activities in their municipal solid waste disposal facility. The University of Calgary should provide a letter from the Hamlet of Pangnirtung confirming that they will accept solid waste materials, or, if necessary, provide alternative waste disposal plans prior to commencing field work.

### **3. Spill Contingency Plan**

- The project's temporary camp locations should be provided to the Board and INAC Water Resource Officer as they are confirmed.
- The project's mobile satellite telephone number should be provided to the Board and INAC Water Resource Officer once it is acquired.

Prepared by David Abernethy

Attached.

c.c.: J. Rogers, Water Resources Manager  
P. Kusugak, Field Operations Manager