



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

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**Secteur de l'Arctique de l'est**

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Your file / Votre référence  
**100408 3BC-CBA**

Our file / Notre référence  
**NU-10-0025**

April 22, 2010

Phyllis Beaulieu  
Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, Nunavut  
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via e-mail: [licensing@nunavutwaterboard.org](mailto:licensing@nunavutwaterboard.org)

Dear P. Beaulieu:

**Subject: Proposal not likely to result in impacts to fish and fish habitat.**

Fisheries and Oceans Canada (DFO), Fish Habitat Management Program, would like to thank the Nunavut Water Board for the opportunity to provide input into the Type "B" Water Licence Application for Scott Lamoureux's "Cape Bounty Arctic Watershed Observatory" project proposal. DFO received the proposal on April 8, 2010. Please refer to the file number and title below:

DFO File No.: **NU-10-0025**

Title: **Scientific Research, Cape Bounty, Melville Island, Nunavut**

The proposal has been reviewed to determine whether it is likely to result in impacts to fish and fish habitat which are prohibited by the habitat protection provision of the *Fisheries Act*.

Our review consisted of the following documents:

- "Water Licence Application Form" submitted by Dr. S. Lamoureux of Queen's University.
- "Exploration/Remote Camp Supplementary Questionnaire" submitted by Dr. S. Lamoureux of Queen's University.

It is our understanding that the proposal consists of the following key elements:

- Conduct scientific research to seasonally measure watercourse discharge, turbidity, and electrical conductivity in Cape Bounty, Melville Island, Nunavut from May 25 to August 20, 2010 and is expected to continue seasonally until 2013.
- Land use activities include the establishment of a temporary camp, water measurements and sampling, soil sampling, sediment sampling and on-ice drilling.
- Daily water consumption for domestic purposes of less than 1 cubic meter withdrawn by hand from nearby water sources.

Following our review of the above provided information, to reduce potential impacts to fish and fish habitat, we are recommending the following mitigation measures related to our

regulatory mandate under the federal *Fisheries Act* and in context of our national Policy for the Management of Fish Habitat be included into the plans:

- No material should be left on the ice when there is potential for that material to enter the water (i.e. spring break-up).
- Only clean material free of fine particulate matter shall be placed in the water.
- Sediment and erosion control measures shall be implemented prior to work, and maintained during the work phases, including decommissioning and restoration phases, to prevent entry of sediment into the water or the movement of re-suspended sediment.
- Small diameter/low density on-ice drilling may be undertaken, except in known fish spawning habitat. Avoid drilling in gravel or rock rubble substrates in water depths less than four (4) metres within water bodies where fall-spawning fish species (e.g., trout, whitefish) are likely to be present.

Provided that the plans are implemented as described, DFO has concluded that the proposal is not likely to result in impacts to fish and fish habitat.

The proponent will not need to obtain a formal approval from DFO in order to proceed with the proposal.

Please be advised that any impacts to fish and fish habitat which result from a failure to implement this proposal as described could lead to corrective action such as enforcement.

I trust the information provided will be of assistance in the Nunavut Water Board's review for the Type "B" Water Licence Application for Scott Lamoureux's "Cape Bounty Arctic Watershed Observatory" project proposal. If you or the proponent have any questions concerning the above, or if my understanding of the proposal is either incorrect, incomplete, or if there are changes to the proposed work, please contact me directly by telephone at (204) 983-2632, by fax (204) 983-7983, or by e-mail at [Loriena.Melnick@dfo-mpo.gc.ca](mailto:Loriena.Melnick@dfo-mpo.gc.ca).

Yours sincerely,



Loriena Melnick  
Habitat Management Biologist  
Fisheries and Oceans Canada – Eastern Arctic Area

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