



NIRB File No. 12YN016

April 10, 2012

Shawn Marshall
Department of Geography, University of Calgary
2500 University Dr. NW
Calgary, AB T2N 1N4

Via email: shawn.marshall@ucalgary.ca

Re: Notice of Part 4 Screening for the University of Calgary's "Glacier-Climate Studies" project proposal

Dear Shawn Marshall:

On March 26, 2012 the Nunavut Impact Review Board (NIRB or Board) received the University of Calgary's (the Proponent) "Glacier-Climate Studies" project proposal from the Nunavut Research Institute (NRI). On March 28, 2012 the NIRB received a positive conformity determination (North Baffin Regional Land Use Plan) from the Nunavut Planning Commission for this file. The NIRB has assigned this project proposal file number **12YN016** - please reference this file number in related future correspondence.

The project is located on Ellesmere Island, approximately 240 kilometres north of Grise Fiord. The program is proposed to deploy temporary weather stations with the intent of gathering data on the melting glaciers and is proposed to take place for two weeks in May 2012 to set up the monitoring stations, and for an additional two weeks in July-August 2012 to remove them.

The proposed project activities and components include:

- Transportation of four person crew and equipment to and from site by Twin Otter (from PCSP-Resolute);
- On-site personnel to travel by foot and ski for two, two-week visits (during May and July-August 2012);
- Temporary camp for the four person team on Inuit Owned Land of four sleeping tents, one (1) gear tent, and (1) kitchen tent for use during the total four week project duration;
- Fuel use of 10 litres gasoline and (6) propane cylinders of 120 lbs (pounds);
- Greywater deposited at site, combustible wastes burned, and human sewage and non-combustible solid wastes packed out;
- Deploy temporary weather stations on a vertical transect on the Prince of Wales Icefield in May and removal of same in August; weather stations to include weather balloon

anchored to the ground, up to eight (8) sets of instruments to measure wind, temperature, pressure, and humidity at different atmospheric heights;

- Measurement of meltwater runoff from the icefield.

All documents received and pertaining to this project proposal can be obtained from the NIRB's ftp site at <http://ftp.nirb.ca/01-SCREENINGS/ACTIVE%20SCREENINGS/12YN016-University%20of%20Calgary%20Ellesmere%20Glacier%20Climate%20Studies/> including:

- *Nunavut Research Institute Application in English*
- *Map*
- *Non technical Project Proposal summary in English and Inuktitut*
- *NPC Conformity Determination with Application*

Pursuant to Part 4, Article 12 of the Nunavut Land Claims Agreement (NLCA), the NIRB shall proceed to screen this project proposal. The NIRB may request additional information at any time during the process. The NIRB will copy you on screening process related correspondence and upload related documents to the above ftp site for public access.

Be advised that the NIRB is copying parties and municipalities potentially affected by this project proposal. Interested parties are encouraged to comment directly to the NIRB by **April 20, 2012**.

The NIRB would like parties to provide comments regarding:

- Whether the project proposal is likely to arouse significant public concern; and if so, why;
- Whether the project proposal is likely to cause significant adverse eco-systemic and socio-economic effects; and if so, why;
- Whether the project is of a type where the potential adverse effects are highly predictable and mitigable with known technology, (please provide any recommended mitigation measures); and
- Any matter of importance to the Party related to the project proposal.

Please note that *proposed* project-specific terms and conditions, should the project proceed, have been attached for consideration and comment (**Appendix A**).

Please send your comments to the NIRB at info@nirb.ca or via fax at **(867) 983-2594**.

If you have any questions or concerns, feel free to contact me directly at 867-983-4611 or tarko@nirb.ca.

Sincerely,



Tara Arko
Technical Advisor
Nunavut Impact Review Board

cc: Distribution List
 Mosha Cote, Nunavut Research Institute
 Robert St. Eloi, Qikiqtani Inuit Association
 Tracey McCaie, Aboriginal Affairs and Northern Development Canada
 Phyllis Beaulieu, Nunavut Water Board

Attachments: Appendix A – *Proposed* Project Specific Terms and Conditions

Enclosures (2): Comment Forms (English and Inuktitut)

Appendix A
Proposed Project Specific Terms and Conditions

The following is a list of project-specific terms and conditions which, should the project proceed, may be recommended to be attached to any approval.

General

1. The University of Calgary – Shawn Marshall (the Proponent) shall maintain a copy of the Project Terms and Conditions at the site of operation at all times.
2. The Proponent shall forward copies of all permits obtained and required for this project to the Nunavut Impact Review Board (NIRB) prior to the commencement of the project.
3. The Proponent shall operate in accordance with all commitments stated in correspondence provided to the NIRB (Nunavut Research Institute Application, March 26, 2012) and relating to this proposal (Nunavut Planning Commission Questionnaire, March 28, 2012)
4. The Proponent shall operate the site in accordance with all applicable Acts, Regulations and Guidelines.

Water

5. The Proponent shall not use water, including constructing or disturbing any stream, lakebed or the banks of any definable water course unless approved by the Nunavut Water Board.

Waste

6. The Proponent shall keep all garbage, ashes, or debris in bags placed in a covered metal container or equivalent until disposed of. All wastes shall be kept inaccessible to wildlife at all times.

Fuel and Chemical Storage

7. The Proponent shall locate all fuel and other hazardous materials a minimum of thirty-one (31) metres away from the high water mark of any water body and in such a manner as to prevent their release into the environment.
8. The Proponent shall store all chemicals in such a manner that they are inaccessible to wildlife.
9. The Proponent shall report all spills of fuel, or other deleterious materials immediately to the 24 hour Spill Line at (867) 920-8130.

Wildlife

10. The Proponent shall ensure that there is no damage to wildlife habitat in conducting this operation.
11. The Proponent shall restrict aircraft/helicopter activity related to the project to a minimum altitude of 610 metres above ground level unless there is a specific requirement for low-level flying, which does not disturb wildlife and migratory birds.
12. The Proponent shall ensure that aircraft maintain a vertical distance of 1000 metres and a horizontal distance of 1500 metres from any observed groups (colonies) of migratory birds.

13. The Proponent shall ensure that aircraft/helicopter do not, unless for emergency, touch-down in areas where wildlife are present.
14. The Proponent shall ensure all project staff are trained in appropriate bear/carnivore detection and deterrent techniques.

Physical Environment

15. The Proponent shall ensure that the land use area is kept clean and tidy at all times.

Camp

16. The Proponent shall ensure that all camps are located on gravel, sand or other durable land.

Restoration

17. The Proponent shall remove all garbage, fuel and equipment upon abandonment.
18. The Proponent shall complete all clean-up and restoration of the lands used prior to the expiry date of the permit.

Other

19. The Proponent should, to the extent possible, hire local people and consult with local residents regarding their activities in the region.