



NIRB File No.: 15YN038

July 20, 2015

Alan MacDougall
Queens University
96 Yonge St. Apt. 4
Kingston, ON K7M 1E5

Sent via email: 14am87@queensu.ca

Re: Notice of Part 4 Screening for Queen's University's "Role of algae, sunlight, and humic substances in disinfection in an arctic wastewater stabilization pond" project proposal

Dear Alan MacDougall:

On June 18, 2015 the Nunavut Impact Review Board (NIRB or Board) received Queen's University's "Role of algae, sunlight, and humic substances in disinfection in an arctic wastewater stabilization pond" project proposal from the Nunavut Research Institute (NRI). On July 7, 2015 the NIRB received a notice that a conformity determination from the Nunavut Planning Commission was not required for this file, given that all project activities are to be conducted within the municipal boundaries of the Hamlet of Pond Inlet. NIRB has assigned this project proposal file number **15YN038** - please reference this file number in related future correspondence.

The proposed project is located in the Hamlet of Pond Inlet, in the Qikiqtani region. The field program is proposed to take place during July and August 2015 and intends to measure, better understand, and provide guidance on the disinfection of domestic wastewater in arctic wastewater stabilization ponds.

The proposed project activities and components include:

- Transportation of two personnel to Pond Inlet from Kingston, Ontario via commercial aircraft;
- Logistical support and accommodation of personnel in Pond Inlet;
- Transportation of personnel to and from sampling and monitoring locations at wastewater ponds by car;
- Sample collection and measurements conducted at site and related to municipal wastewater stabilization ponds, including:
 - Use of a spectrophotometre to measure irradiance at and beneath the pond surface;

- Use of a portable spectrophotometre to nitrogen and phosphorus concentrations;
- Use of a hydrolab to measure pH, temperature, and dissolved oxygen content; and
- Measurement of effluent *E. Coli* concentrations and water quality parameters.

All documents received and pertaining to this project proposal can be obtained from the NIRB's online public registry at <http://ftp.nirb.ca/01-SCREENINGS/ACTIVE%20SCREENINGS/15YN038-Queens%20U-Arctic%20Wastewater/> including:

- *Nunavut Research Institute application form in English*
- *Non- technical project proposal summary in English and Inuktitut*
- *NPC conformity determination email*
- *Maps*

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 online public registry 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 **July 31, 2015**.

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 require clarification, feel free to contact the undersigned at (867) 983-4622 or ezell@nirb.ca.

Sincerely,



Erika Zell
Assistant Technical Advisor
Nunavut Impact Review Board

cc: Distribution List
 Mosha Cote, Nunavut Research Institute
 Mike Rudkin, Hamlet of Pond Inlet

Attachment: 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. Queens University (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 NIRB.
4. The Proponent shall operate the site in accordance with all applicable Acts, Regulations and Guidelines.

Wildlife - General

5. The Proponent shall ensure that there is no damage to wildlife habitat in conducting this operation.
6. The Proponent shall ensure all project staff are trained in appropriate bear/carnivore detection and deterrent techniques.

Ground Disturbance

7. The Proponent shall not move any equipment or vehicles unless the ground surface is in a state capable of fully supporting the equipment or vehicles without rutting or gouging. Overland travel of equipment or vehicles must be suspended if rutting occurs.

Restoration of Disturbed Areas

8. The Proponent shall remove all garbage, fuel and equipment upon abandonment.

Other

9. The Proponent should, to the extent possible, hire local people and to consult with local residents regarding their activities in the region.
10. Any activity related to this application, and outside the original scope of the project as described in the application, will be considered a new project and should be submitted to the NIRB for Screening.