



NIRB File No. 10YN030

April 12, 2010

Gordon Osinski
University of Western Ontario
1151 Richmond Street
London, Ontario
N6A 3K7

Via email: gosinski@uwo.ca

Re: Notice of Part 4 Screening for Gordon Osinski's "Paleoenvironmental Reconstruction of the Haughton Impact Structure and Surrounding Terrains over the Past 39 Ma" project proposal

Dear Gordon Osinski:

On March 15, 2010 the Nunavut Impact Review Board (NIRB or Board) received Gordon Osinski's "Paleoenvironmental Reconstruction of the Haughton Impact Structure and Surrounding Terrains over the Past 39 Ma" project proposal from the Nunavut Research Institute. On March 31, 2010 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 **10YN030** - please reference this file number in related future correspondence.

This research project is proposed to take place at three sites on Devon Island in the North Baffin Region. The nearest communities are Grise Fiord and Resolute Bay. The program is proposed to take place from July 16, 2010 to August 20, 2010.

The project activities include:

- Use of a helicopter, Twin Otter aircraft and All Terrain Vehicle for the transport of personnel to sample sites;
- Storage and use of fuel (diesel, gasoline, aviation fuel and propane);
- Set up of temporary camp (longhouse and Polar Storm tents) to accommodate 13 personnel for a total of 27 days on site;
- Production of wastes (sewage, grey water, combustible and non-combustible);
- Geologic mapping and sampling of various sites;
- Detailed outcrop-scale mapping with subsequent follow up laboratory work;
- Collection of samples of impact-shocked gneiss from the Haughton Impact Structure (HIS) for analysis of microorganisms; and,
- Ground penetrating radar to delineate massive ice deposits.

All documents received and pertaining to this project proposal can be obtained from the NIRB's ftp site at <http://ftp.nirb.ca/SCREENINGS/ACTIVE%20SCREENINGS/10YN030-U%20Western%20Ontario%20-%20Gordon%20Osinski/1-SCREENING/01-APPLICATION/> including:

- *Nunavut Research Institute Scientific Research License Application*
- *Maps*
- *Non technical Project Proposal summary in English*
- *Non technical Project Proposal summary in Inuktitut*
- *NPC Conformity Determination*

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 your project proposal. Interested parties are encouraged to comment directly to the NIRB by **April 22, 2010**.

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) 983-4610 or gtaptuna@nirb.ca.

Sincerely,



George Taptuna
Assistant Technical Advisor
Nunavut Impact Review Board

cc: Distribution List
Phyllis Beaulieu, NWB
Mosha Cote, NRI
Jeff Mercer, INAC

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

Enclosures (2): NIRB Comment Form (English)
NIRB Comment Form (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. Gordon Osinski (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 (*Scientific Research Licence Application*, March 15, 2010).
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 incinerate all combustible wastes daily, and remove the ash from incineration activities and non-combustible wastes from the project site to an approved facility for disposal.
7. The Proponent shall keep all garbage and 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

8. 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.
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/helicopter do not, unless for emergency, touch-down in areas where wildlife are present.
13. The Proponent shall ensure all project staff are trained in appropriate bear/carnivore detection and deterrent techniques.

Physical Environment

14. 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. The Proponent shall suspend overland travel of equipment or vehicles if rutting occurs.
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.