



P.O. Box 119
GJOA HAVEN, NU XOB 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ **New** ☐ **Renewal** ☐ **Amendment** ☐ **Assignment** ☐ **Cancellation**

LICENCE NO:

(for NWB use only)

<p>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</p> <p><u>Dr. Gordon Osinski, Department of Earth Sciences,</u> <u>University of Western Ontario, 1151 Richmond St.</u> <u>London, ON, Canada, N6A 5B7</u></p> <p>Phone: <u>519 661-3187</u> Fax: <u>519 661-3198</u> e-mail: <u>gosinski@uwo.ca</u></p>	<p>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</p> <p><u>N/A</u></p> <p>Phone: _____ Fax: _____ e-mail: _____</p>		
<p>3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)</p> <p>Latitude: (75°23'59" N) Longitude: (89°31'11" W) NTS Map Sheet No. <u>058H07</u> Scale: <u>1:50,000</u></p>			
<p>4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)</p> <p>See attached project description and map.</p>			
<p>5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold")</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Industrial <input type="checkbox"/> Mining and Milling (includes exploration/drilling) <input type="checkbox"/> Municipal (includes camps/lodges) <input type="checkbox"/> Power </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Miscellaneous (describe below): <div style="text-align: center;">Research (geology)</div> </td> </tr> </table> <p>See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings</p>		<input type="checkbox"/> Industrial <input type="checkbox"/> Mining and Milling (includes exploration/drilling) <input type="checkbox"/> Municipal (includes camps/lodges) <input type="checkbox"/> Power	<input type="checkbox"/> Agricultural <input type="checkbox"/> Conservation <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> Miscellaneous (describe below): <div style="text-align: center;">Research (geology)</div>
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6. WATER USE

- ☐ To obtain water
 ☐ Flood control
☐ To cross a watercourse
 ☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
 ☐ To alter the flow of, or store, water
☒ Other (describe): Water will be used solely for consumption, cooking, and cleaning.

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quantity to be returned to source)

Water use ☒ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

Water returned to source
None m³/day

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- ☒ Sewage
 ☐ Waste oil
☒ Solid Waste
 ☒ Greywater
☐ Hazardous
 ☐ Sludges
☐ Bulky Items/Scrap Metal
 ☐ Other describe):

Approx. 5Kg/day sewage will be produced and flown out to Polar Continental Shelf, Resolute Bay; solid waste will be burned in a can or flown out, and approx. 10L of greywater will be produced and disposed in a sump.

9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)

Nunavut Research Institute (NRI), Scientific Research Licence. NRI, Box 1720 Iqaluit, NU XOA OHO.

Application submitted. Expected May 2010.

DIAND, Class B Land Use Permit. Application submitted. Expected May 2010.

Regional Inuit Association. Inuit Owned Land Exemption Permit application submitted. Expected May 2010

Land Use Permit

DIAND ☒ Yes ☐ No If no, date expected _____

Regional Inuit Association ☒ Yes ☐ No If no, date expected _____

Commissioner ☐ Yes ☒ No If no, date expected N/A

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

No environmental impacts are envisaged due to this research. Everything possible will be done to ensure that this is the case. Much of the research will be on foot with minimal disturbance to the local environment. All waste will be either flown out or burned onsite in a safe, clean manner.

NIRB Screening ☒ Yes ☐ No If no, date expected Expected May 2010

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

No.

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?_n/a

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

N/A

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

The Houghton impact structure has been the focus of investigation for several decades. Dr. Osinski has conducted 11 field seasons of research at this site, first as a graduate student and then in collaboration with other projects. This research has been reported in numerous publications.

Please see attached list for key publications.

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee of \$30.00 (Payee Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

☒ Yes ☐ No If no, date expected _____

15. PROPOSED TIME SCHEDULE (unless otherwise indicated, the NWB will consider the application for a five (5) year term)

☒ one year or less (or) ☐ Multi Year

Start Date: July 1, 2010 Completion Date: August 30, 2010

Gordon Osinski
Name (Print)

Assistant Professor
Title (Print)

Signature

Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$_____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$_____ Pay ID No.: _____