



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)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE <u>Dr. Pascal Lee</u> <u>Mars Institute</u> <u>NASA Research Park, PO Box 6</u> <u>Moffett Field, CA, 94035-0006, USA</u> Phone: <u>408-687-7103</u> Fax: <u>650-604-6779</u> e-mail: <u>pascal.lee@marsinstitute.info</u>	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) <u>Mars Institute</u> <u>Unit 97, 35287 Old Yale Road</u> <u>Abbotsford BC, V3G 8H5, Canada</u> Phone: <u>604-628-2121</u> Fax: <u>650-604-6779</u> e-mail: <u>marc.k.boucher@marsinstitute.info</u>		
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking) Latitude: (75°25'57" N) Longitude: (89°51'45" W) NTS Map Sheet No. <u>58/H</u> Scale: <u>1/500,000</u> <u>Research Camp: "Haughton-Mars Project Research Station" (HMP RS). Please see attachments for maps.</u>			
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) Please see attachments for plans and drawings. Water for camp use is to be drawn from a local creek informally known as Lowell Creek (see map).			
5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in " bold ") <table style="width: 100%; margin-top: 10px;"> <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): Scientific Research </td> </tr> </table> <p style="margin-top: 20px;">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): Scientific Research
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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):

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
 0 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):

All burnable waste is incinerated at camp (approx. 2 m³/day)

All non-burnable waste is flown out of camp for proper disposal in Resolute Bay municipal landfill (approx. 0.25 m³/day)

All human urine generated at camp is collected in empty fuel drums and flown out of camp for proper disposal in Resolute Bay municipal landfill (approx. 0.4 m³/day)

All greywater is disposed of in a ground sump at camp (water from dishwashing and shower cabin contains biodegradable materials only) (approx. 1 m³/day).

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

No other persons or properties are affected by this undertaking.

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

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

NIRB Screening recently completed (March, 2007).

NIRB Screening ☒ Yes ☐ No If no, date expected

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?

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

N/A.

The Mars Institute has research subcontractors on the project, but there is no specific effect on water use.

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

Please find attached a list of publications (scientific research) resulting from the project.

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, 2007 Completion Date: August 31, 2012

Pascal Lee
Name (Print)

Project Lead, HMP
Title (Print)


Signature

10 May 2007
Date

For Nunavut Water Board office use only

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

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