



SCIENTIFIC RESEARCH LICENCE APPLICATION LAND, FRESHWATER & MARINE BASED RESEARCH

NRI strongly recommends that applicants review the following documents prior to submitting an application: *Scientific Research Licencing Guidelines* and *Negotiating Research Relationships in Inuit Communities: A Guide for Researchers*.

IMPORTANT

This application fulfills the requirements for the NIRB environmental screening. Please be advised that your application will not be processed until the application form, project summary, and maps are received.
All documents should be uploaded in the following formats: MS Word, Adobe PDF or jpeg.

SECTION 1: APPLICANT INFORMATION

1a. Project Title Paleoclimatic reconstruction of the Canadian High Arctic using bio-indicators

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI related to this project proposal?

Yes () No (x)

If yes, please indicate the previous NRI licence number: _____

Please indicate if applicant has submitted any previous application(s) to NIRB related to this project proposal?

Yes () No (x)

If yes, please indicate the previous NIRB licence number(s): _____

2. Applicant's full name and mailing address:

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G1K 9A9

Phone: 418-654-3780
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Email: pierre.francus@ete.inrs.ca

3. Field Supervisor's name and mailing address:

David Fortin, INRS-ETE
490 de la Couronne, Québec, Québec
G1K 9A9

Phone: 418-654-3704
Fax: 418-654-2600
Email: david.fortin@ete.inrs.ca

4. Other Personnel list (name, position, affiliation)

Vicky Tremblay, Ph.D. Student, INRS-ETE
François Lapointe, M.Sc. Student, INRS-ETE

vicky.tremblay@ete.inrs.ca
francois.lapointe@ete.inrs.ca

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

- | | |
|--|---|
| <input type="checkbox"/> Regional Inuit Association (RIA) | <input type="checkbox"/> Canadian Launch Safety (CLS) |
| <input checked="" type="checkbox"/> Nunavut Water Board (NWB) | <input type="checkbox"/> Environment Canada (EC) |
| <input type="checkbox"/> Nunavut Planning Commission (NPC) | <input type="checkbox"/> Department of Environment (GN) |
| <input type="checkbox"/> Department of Indian And Northern Development (DIAND) | <input type="checkbox"/> Department of National Defense (DND) |

- | | |
|---|---|
| <input type="checkbox"/> Department of Fisheries and Oceans (DFO) | <input type="checkbox"/> Hamlet |
| <input type="checkbox"/> Community Government & Services (CG&S) | <input type="checkbox"/> Parks Canada (PC) |
| <input checked="" type="checkbox"/> Nunavut Research Institute (NRI/GN) | <input type="checkbox"/> Canadian Wildlife Service (CWS) |
| <input type="checkbox"/> Department of Culture, Language, Elders, and Youth (CLEY/GN) | <input type="checkbox"/> Other (please specify):
_____ |

2. List the active permits, licences, or other rights related to the project proposal and their expiry date:

Permit:	Expiry Date
_____	_____
_____	_____

3. Have you applied for all authorizations required to conduct the project proposal activities?

☒ Yes ☐ No

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the activities related to the project proposal:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Temporary camp (to be removed at end of field season) | <input type="checkbox"/> Soil disposal/ soil storage |
| <input type="checkbox"/> Permanent camp (to remain for life of authorization) | <input type="checkbox"/> Incineration of combustible wastes and removal of non-combustible wastes |
| <input type="checkbox"/> Construction of recreational or safety cabin | <input checked="" type="checkbox"/> River/ stream/ lake crossing or work/ bridge |
| <input type="checkbox"/> Temporary fuel storage (to be removed at end of field season) | <input type="checkbox"/> Drainage alteration |
| <input type="checkbox"/> Permanent fuel storage (to remain for life of authorization) | <input type="checkbox"/> Geoscientific sampling by diamond drilling |
| <input type="checkbox"/> Placement of structures for life of permit (other than camp or cabin " i.e. scientific instruments) | <input type="checkbox"/> Geoscientific sampling by soil sampling |
| <input type="checkbox"/> Placement of permanent structures (other than camp or cabin " i.e. scientific instruments) | <input type="checkbox"/> Geoscientific sampling by trenching |
| <input type="checkbox"/> Air surveys (i.e. geophysical, wildlife) | <input type="checkbox"/> Geoscientific sampling by borehole core |
| <input checked="" type="checkbox"/> Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location | <input type="checkbox"/> Blasting |
| <input checked="" type="checkbox"/> Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac) | <input type="checkbox"/> Channeling |
| <input type="checkbox"/> Sewage or grey water disposal via sump | <input type="checkbox"/> Excavation |
| <input type="checkbox"/> Hazardous waste storage or disposal | <input type="checkbox"/> Hydrological testing |
| <input type="checkbox"/> Solid waste disposal | <input type="checkbox"/> Abandonment and restoration |
| <input type="checkbox"/> Chemical storage | <input type="checkbox"/> Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring) |
| <input type="checkbox"/> Explosives storage | <input type="checkbox"/> Research |
| <input type="checkbox"/> Soil testing | <input type="checkbox"/> Ecological survey |
| <input type="checkbox"/> Harvesting | <input type="checkbox"/> Removal of vegetation for scientific purposes |
| <input type="checkbox"/> Other: _____ | |

2. Personnel

Total No. of personnel on site = (A)	Total No. of days on-site = (B)	Total No. of Person days (A) Ã— (B) =
3	5	15

3. Timing

Period of operation:	2010-05-29	to 2010-06-02
Proposed term of authorization:	_____	to _____

Please outline the phases of the proposed project (construction/ operation/ decommissioning) including the timing and scheduling of each phase.

South Sawtooth Lake: Arrive on May 29, installation of the weather station on May 29, departure on May 29.

Strathcona Lake: Arrive on May 29, field work from May 30 to June 1, departure on June 2.

4. Location(s) of data collection:

Location Name	Region North Baffin, South Baffin, Kivalliq, Kitikmeot	Co-ordinates Lat (degree / minute), Long (degree / minute)	NTS Map Sheet Nr.	Land Status Crown, Commissionersâ€™, Inuit Owned
South Sawtooth Lake	Ellesmere Island	N 79 21.10, W 83 54.20	049H	_____
Strathcona Lake	Ellesmere Island	N 78 33.45, W 81 55.46	049E	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

If the project proposal includes a **camp**, please provide the coordinates of the camp location

Lat (degree/minute) N 78 33.45 Long (degree/minute) W 81 55.46

NTS Map Sheet Nr. (if different from above) _____

Please attach maps (preferably 1:250,000 scale) which clearly indicate camp sites and research sites. PDF, jpeg or tiff versions are requested.

[Frm634042424305935000land-049E_VT.pdf](#)

[Frm634042424305935000land-049H_V_T.pdf](#)

The Nunavut Impact Review Board may require additional location information in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please attach a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- Project Title
- Researcher's Name and Affiliation
- Project Location
- Timeframe
- Project Description
 - purpose
 - goals & objectives
 - method of transportation
 - any structures that will be erected (permanent / temporary)
 - restoration / abandonment plans
- Methodology
 - collection protocol
 - collection mechanisms
 - indicate why specific communities or individuals were selected for your research
- Data
 - short term & long term use of data
 - other uses of data
- Reporting
 - How will the research results be communicated to the individual participants, communities, regional and Nunavut organizations?
 - Will the research result in a publication?

[Frm634042424306091250land-NRI_V_Tremblay.doc](#)

SECTION 5: MATERIAL USE

1. List equipment (including drills, pumps, aircrafts, vehicles etc.):

Equipment type and number	Size â€" dimensions	Proposed use
Airplane Twin Otter on wheel skis	_____	To go to the field
Snowmobile Bombardier Tundra 280F	_____	To move on the fieldA
Auger, power head, Stihl BT-120C model	18 lbs	To drill small holes through the ice
_____	_____	_____
_____	_____	_____
_____	_____	_____

2. Detail fuel and hazardous material use:

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel	_____	_____	_____
Gasoline	_____	40 Litres	Outside on a tarp
Aviation fuel	_____	_____	_____
Propane	1	20 lbs	Inside the cathering tent
Other	Skidoo oil (1)	1	Outside on a tarp
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location
8	Melting snow	In nearest snowbank

4. Have you applied for a Class A Licence with the Nunavut Water Board?

() YES (x) NO

SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS

1. List the types of waste:

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)	2 kg	Removed	To Resolute Bay
Greywater	3 litres / day	Dispenced in silt bed away from lakes and rivers	_____
Combustible wastes	Removed	_____	To Resolute Bay
Non-Combustible wastes	Removed	_____	_____
Overburden (organic soil, waste material, tailings)	Removed	_____	_____
Hazardous waste	None	_____	_____
Other:	_____	_____	_____

2. Will you be incinerating combustible waste, removing all solid waste, and removing the ash generated from incineration?

() YES (x) NO

SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS

1. List the community representatives that have been contacted and provide the minutes of the meetings if available:

Minute _____

Community	Name	Organization	Date Contacted
Resolute Bay	Saroomie Manik	Mayor of Resolute Bay	February 11, 2010
Resolute Bay	Deborah Tobin	Principal of Qarmartalik Shchool	Februaray 11, 2010

2. How will the proposed project benefit Nunavut? Will your project provide local employment or training opportunities? Please specify.

This will improve the knowledge of the past climatic conditions and the environment in general. That will help people to make better decisions about their concerns about the general warming.

3. Please describe the nature of local services and/or logistic support that will be required from local communities, eg. Equipment, accommodations, outfitting, translations...

N.A.

4. Describe and attach documentation regarding community support or concerns for the proposed project?

5. Is there a traditional knowledge component to this research project? If yes, please explain:

No

SECTION 8: GENERAL QUESTIONS

1. Do you give NRI permission to publish project information in the Nunavut Research Institute Annual Compendium of Research Undertaken in Nunavut?

☒ YES

☐ NO

2. Is the proposed research associated with International Polar Year (IPY)?

☐ YES

☒ NO

Applicant:

Signature

Title

Date

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