



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 **Metamorphic geology and tectonics of Cumberland Peninsula, Nunavut**

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:

Brett John Hugh McAuley Hamilton
2500 University Drive NW
Calgary AB T2N 1N4

Phone: 403-463-0890
Fax: 403-284-0074
Email: brett.hamilton@ucalgary.ca

3. Field Supervisor's name and mailing address:

Brett John Hugh McAuley Hamilton
2500 University Drive NW
Calgary AB T2N 1N4

Phone: 403-463-0890
Fax: 403-284-0074
Email: brett.hamilton@ucalgary.ca

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

David Pattison, Professor, University of Calgary	Undergraduate field assistant (TBD)
Mary Sanborn-Barrie, Research Scientist, Geological Survey of Canada, Natural Resources Canada	_____
Michael Young, Instructor, Dalhousie University	_____

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

<input checked="" 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)
- ☐ Department of Fisheries and Oceans (DFO) ☐ Hamlet
- ☐ Community Government & Services (CG&S) ☐ Parks Canada (PC)
- ☒ Nunavut Research Institute (NRI/GN) ☐ Canadian Wildlife Service (CWS)
- ☐ Department of Culture, Language, Elders, and Youth (CLEY/GN) ☐ 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 checked="" type="checkbox"/> Incineration of combustible wastes and removal of non-combustible wastes |
| <input type="checkbox"/> Construction of recreational or safety cabin | <input type="checkbox"/> River/ stream/ lake crossing or work/ bridge |
| <input checked="" 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 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 checked="" 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)	2	Total No. of days on-site = (B)	44	Total No. of Person days (A) Ã— (B) =	88
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3. Timing

Period of operation:	June 28, 2011	to	August 10, 2011
Proposed term of authorization:	June 15, 2011	to	August 30, 2011

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

June 30, 2011 - Set-up remote field camp. June 31, 2011 to August 7, 2011 - Operation/geological mapping.

August 8, 2011 - Demobilize remote field camp and return to Pangnirtung.

4. Location(s) of data collection:

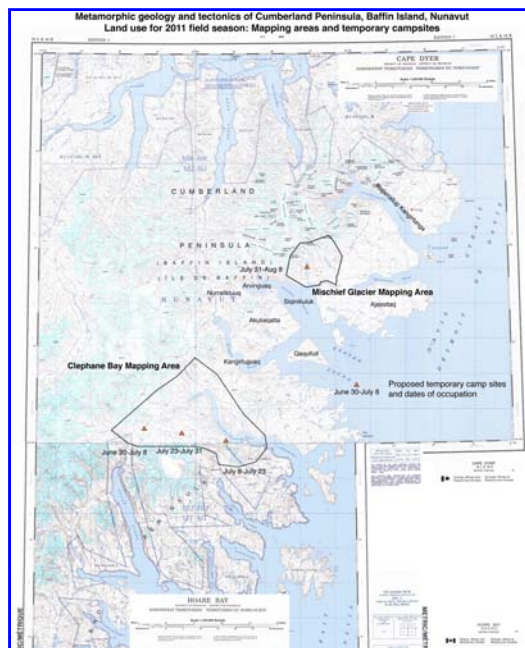
Location Name	Region North Baffin, South Baffin, Kivalliq, Kitikmeot	Co-ordinates Lat (degree / minute), Long (degree / minute)	NTS Map Sheet Nr.	Land Status Crown, Commissionersâ€™, Inuit Owned
Clephane Bay Area	South Baffin	N65/56-66/12, W62/29-62/33	016L & 016E	Crown and Inuit Owned
Mischief Glacier Area	South Baffin	N66/31-66/23, W62/2-62/25	016L	Crown
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

Lat (degree/minute) 66/2, 66/1, 66/2, 66/27 Long (degree/minute) 63/20, 62/48, 63/6, 62/17

NTS Map Sheet Nr. (if different from above) 016L

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



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?

[Frm634328523861877646land-Hamilton-ProjectDescription_Eng.pdf](#)

[Frm634328523862033645land-Hamilton-ProjectDescription_Inuk.pdf](#)

SECTION 5: MATERIAL USE

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

Equipment type and number	Size â€" dimensions	Proposed use
1 - Inflatable boat (Zodiac) with 10 hp motor	3.1 m by 1.6 m	Transport people along Clephane Bay
1 - 1000W gasoline-powered electrical generator	0.5 m by 0.5 m by 0.3 m	Recharge batteries
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

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	_____	4 x 19L	76L	Plastic jerrycans
Aviation fuel	_____	_____	_____	_____
Propane	_____	_____	_____	_____
Other	_____	4 x 5L naphtha	20L	Metal cans in which it is sold
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
10	Scooped from streams and lakes	Stream of lake beside campsite.

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:

Projected

Additional treatment

Type of waste	amount generated	Method of Disposal	procedures
Sewage (human waste)	2 L / day	Buried >30m from surface water.	_____
Greywater	10 L / day	Buried >30m from surface water	_____
Combustible wastes	1 L / day	Stored in sealed plastic pails, flown to Pangnirtung and disposed at the Pangnirtung waste facility.	_____
Non-Combustible wastes	1 L / day	Stored in sealed plastic pails, flown to Pangnirtung and disposed at the Pangnirtung waste facility.	_____
Overburden (organic soil, waste material, tailings)	_____	_____	_____
Hazardous waste	_____	_____	_____
Other:	_____	_____	_____

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

(x) YES

() 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	Name	Organization	Date Contacted
Pangnirtung	Ron Mongeau	Municipality of Pangnirtung	December 14 2010, January 13, 2011
Qikiqtarjuaq	Ron Van Horne	Municipality of Qikiqtarjuaq	December 14, 2010
_____	_____	_____	_____

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

The project requires one employee from Pangnirtung as an expeditor. The research involves primary geological mapping in areas with potential for mineral and gem deposits. Better geological knowledge will encourage mineral exploration.

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

Jet B will be purchased from the Pangnirtung airport. Gasoline, naphtha, and miscellaneous provisions will be purchased in Pangnirtung. Cold storage space will be rented, if available. About 8 person-nights of accommodation will be purchased from the Auyittuq Lodge in Pangnirtung. An Iqaluit translator was hired to translate five documents.

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

Ron Van Horne, Municipality of Qikiqtarjuaq, expressed no immediate concerns and said he would wait for the NIRB screening to review the proposal in more detail.
Ron Mongeau, Municipality of Pangnirtung, has received details of the project. He expressed no immediate concerns, but we will discuss the project further in the immediate future.

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

There is not a traditional knowledge component to this research project.

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:

Brett Hamilton

PhD Student

February 9, 2011

Signature

Title

Date

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