

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*.

For more information about the Nunavut Research Institute (NRI) please visit our web site www.nri.nu.ca

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.

SECTION 1: APPLICANT INFORMATION

1a. Project Title CASE 16 - Alexandra Fiord

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI related to this project proposal? Yes ☒ No ☐

If yes, please indicate the previous NRI licence number: 02 115 11N-A

Please indicate if applicant has submitted any previous application(s) to NIRB related to this project proposal? Yes ☒ No ☐

If yes, please indicate the previous NIRB project number(s): 07YN052, 08YN045, 11YN005

2. **Applicant's full name and mailing address:**

Karsten Piepjohn	Phone: <u>++49 / 511 643 32 36</u>
Federal Institute for Geosciences and Natural Resources (BGR)	Fax: <u>++49 / 511 643 36 63</u>
Stilleweg 2	Email: <u>Karsten.Piepjohn@bgr.de</u>
30655 Hanover	
Germany	

3. **Field Supervisor's name and mailing address:**

Karsten Piepjohn	Phone: <u>++49 / 511 643 32 36</u>
Federal Institute for Geosciences and Natural Resources (BGR)	Fax: <u>++49 / 511 643 36 63</u>
Stilleweg 2	Email: <u>Karsten.Piepjohn@bgr.de</u>
30655 Hanover	
Germany	

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

Dr. Harald Andruleit, geologist, BGR Hannover	Dr. Martina Dolezych, palaeontologist, Geol. Museum Dresden
Prof. Dr. Jane Gilotti, geologist, Univ. Iowa	Kirsten Neuschaefer, cook,
Christoph Kasch, camp-manager, BGR Hannover	Prof. Dr. Bill McClelland, geologist, Univ. Iowa
Dr. Lutz Reinhardt, geologist, BGR Hannover	Carmen Schimpff, public relations, BGR
Prof. Dr. Werner von Gosen, geologist, Univ. Erlangen	Dr. Christoph Gaedicke, geologist, BGR Hannover

Ulf Neumann, Television, ZDF Hannover
Inuk field guide 1 (to be appointed)

Oliver Deuker, Television, ZDF Hannover

Pilot (to be appointed)
Inuk field guide 2 (to be appointed)

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 checked="" 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 checked="" type="checkbox"/> | Hamlet Grise Fiord |
| <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 checked="" 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:

To be submitted soon

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

<input checked="" type="checkbox"/>	Research
<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)	Maximum 14	Total No. of days on-site = (B)	30	Total No. of Person days (A) × (B) = maximum 320 (see attached schedule)
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3. Timing

Period of operation:	2014/06/19	to	2014/07/21
Proposed term of authorization:	2001/06/01	to	2011/08/31

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

2014/06/19	Flights Resolute – Alexandra Fiord: scientific group, logistic staff (see attached schedule) including fly camp Stenkul Fiord
2014/06/19	Set-up of base camp
2014/06/20 – 2014/07/29	Geological field work
2014/07/20	Packing, cleaning-up and putting-down camp
2014/07/21	Flights Alexandra Fiord – Resolute: scientific group, logistic staff

4. Location(s) of data collection:

Location Name	Region	Co-ordinates	NTS Map Sheet #	Land Status
	North Baffin, South Baffin, Kivalliq, Kitikmeot	Lat (degree / minute), Long (degree / minute)		Crown, Commissioners', Inuit Owned
Area between Vendom Fiord and Dobbin Bay	Ellesmere Island (North Baffin)	Between 74° and 84° west and 77° and 80°	39C, 39F, 39G, 39H, 49E, 49D, 49H	Partly Inuit Owned?

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

Lat (degree/minute) 78°52' north Long (degree/minute) 75°55' west
 NTS Map Sheet # (if different from above) 39F

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?

SECTION 5: MATERIAL USE

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

Equipment type and number	Size – dimensions	Proposed use
Twin Otter		Transport of persons, equipment and fuel to Alexandra Fiord and back
206L		transport of geologists in the field and back to the camp

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	2 á 200 ltr	400 ltr	Drums
Gasoline			
Aviation fuel	20 á 200 ltr	4.000 ltr	Drums
Propane	3		Tanks
Other			
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
50 litres	Dipping	sinkhole

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

☐ YES

☒ 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)		Burying	
Greywater		Drainage into sinkholes	
Combustible wastes		Collecting and returning to Resolute Bay	
Non-Combustible wastes		Collecting and returning to Resolute Bay	
Overburden (organic soil, waste material, tailings)	Nothing		
Hazardous waste	Nothing		
Other:	Batteries	Collecting and returning to Resolute Bay	

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

☒ 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:

Community	Name	Organization	Date Contacted
Grise Fiord		Hamlet	To be submitted
Grise Fiord		Iviq Hunters and Trappers Organisation	To be submitted

2. How will the proposed project benefit Nunavut?

As we do not have any licenses for guns, we would like to hire three young Inuit from Grise Fiord and/or Resolute Bay as field guides and Polar Bear monitors.

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. In addition to the application form, applicants are required to submit additional information in an electronic format to the Manager, Research Liaison, jwilman@nac.nu.ca. Please check that the following have been submitted to NRI:

- ☒ **Project Summary** -in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot)
- ☒ **NTS Maps** of the project

Applicant:

Karsten Piepjohn
Signature

DR.
Title

3rd of February 2014
Date