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# 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.

#### **I**MPORTANT

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: APPLICA	NT INFORM	ΛΑΤΙΟ	DN .
1a. Project Title An Analogue Mission to Discover the Gen			
1b. Project Number			
Please indicate if applicant has submitted any previous application related to this project proposal?	Yes ( ) No (o)		
If yes, please indicate the previous NRI licence number:			
Please indicate if applicant has submitted any previous applicatio related to this project proposal?	n(s) to NIRE	3	Yes ( ) No (o)
If yes, please indicate the previous NIRB licence number(s):			
2. Applicant's full name and mailing address:			
Dr. Gordon Osinski, Dept. of Earth Sciences,	Phone:	(51	9) 661-4208
University of Western Ontario, 1151 Richmond Street,	Fax:	(51	9) 661-3198
London, ON, N6A 5B7	Email:	gos	inski@uwo.ca
3. Field Supervisor's name and mailing address:			
Marc Beauchamp, Dept. of Earth Sciences,	Phone:	(51	9) 661-2111 ext.88104
University of Western Ontario, 1151 Richmond Street,	Fax:	(51	9) 661-3198
London, ON, N6A 5B7	Email:	mbe	auch6@uwo.ca
4. Other Personnel list (name, position, affiliation)			
Dr. Michael Daly, Project Lead, York University (with 2 students)			Haltigin, Science Authority, Canadian (with 2 students)
Dr. Tim Barfoot, Rover Engineer, University of Toronto (with 2 students)			
Melissa Battler, student, University of Western Ontario			
CECTION O AUTUON	174710111	IEEDE	
SECTION 2: AUTHOR	IZATION	IEEDE	Ь
1. Indicate all authorizations associated with the project p	roposal:		
[ ] Regional Inuit Association (RIA)		[ ]	Canadian Launch Safety (CLS)
[x] Nunavut Water Board (NWB)		[ ]	Environment Canada (EC)
[ ] Nunavut Planning Commission (NPC)		[ ]	Department of Environment (GN)
[x] Department of Indian And Northern Development (DIAN	D)	[ ]	Department of National Defense (DND)
Department of Fisheries and Oceans (DFO)	•	[ ]	Hamlet
[ ] Community Government & Services (CG&S)		[ ]	Parks Canada (PC)

[ <b>x</b> ]	, ,			N)	[ [	1		n Wildlife Service (CWS) lease specify):
2. List	the activ	e permits, licences, or o	other rights related to th	e pr	ojec	t prop	osal and	I their expiry date:
Permit:			Expiry Date					
3. Have	e you app	olied for all authorization	ons required to conduct t	he p	roje	ect pro	pposal ac	tivities?
		(o) Ye	S					( ) No
		SEC1	TION 3: PROJECT PROPOS	SAL	DES	CRIP	TION	
1. Indi	cate the a	activities related to the	project proposal:					
[ <b>x</b> ]	Tempora	ry camp (to be removed a	at end of field season)	1	1			soil storage
[ ]	Permane	nt camp (to remain for lif	e of authorization)	[ <b>x</b>	1			combustible wastes and n-combustible wastes
[ ]		tion of recreational or saf	•	]				lake crossing or work/ bridge
[x]			noved at end of field season		]		age alter	
[ ]	Placemer		permit (other than camp or		]			ampling by diamond drilling ampling by soil sampling
[ ]	Placemer	<ul> <li>i.e. scientific instrument at of permanent structure cientific instruments)</li> </ul>	s) s (other than camp or cabir	ı [	1	Geos	cientific s	ampling by trenching
[ ]		ys (i.e. geophysical, wildl	ife)	1	1	Geos	cientific s	ampling by borehole core
[ ]	Use of air		nicle for personnel drop-off		1	Blast		3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
[ ]		n-site mechanized vehicle	s (i.e. atv, snowmobile,	I	1	Chan	neling	
[ <b>x</b> ]		or grey water disposal via	sump	Į.	1	Exca	vation	
[ ]	Hazardou	us waste storage or dispos	sal	[	1	Hydr	ological te	esting
[x]	Solid was	ste disposal		[	1			and restoration
[ ]	Chemical	storage		I	1			n (fertilization/ grubbing/ praying/ recontouring)
[ ]	Explosive	es storage		[ <b>x</b>	]	Rese	arch	
[ ]	Soil testi	_		[			gical surv	-
[ ]	Harvestir	ng		[	1	Remo	oval of ve	getation for scientific purposes
[ ] 2. Pers	Other:							
2.1013							T-4-1 N-	- 6
Total N			Total No. of				Total No	
site = (	nel on 12 (A)		days on-site 12 = (B)				(A) ×	(B) 144
3. Timi	ing						_	
Pariod	of operation	an.	July 4,	201	2		to	July 18, 2012
	,	f authorization:	June 15					August 15, 2012
	outline the ling of eacl		oroject (construction/ opera	tion/	dec	commis	ssioning)	including the timing and
then t		all equipment and per						ly 4). A helicopter will a temporary camp will be
Scient helico	ific rese	earch will be conducte	and personnel to the l					be dismantled on July 16. A and Fiord on July 17 for
4. Loca	ation(s) o	f data collection:						
Locatio	on Name	Region North Baffin, South Baffin, Kivalliq, Kitikmeot	Co-ordinates Lat (degree / minute (degree / minute)	e), Lo	ong		NTS Map Sheet Nr.	Land Status Crown, Commissioners', Inuit Owned
Lost H spring		North Baffin	(79/4), (90/12)				059Н03	Crown Commissioners'
If the p	roject prop	posal includes a <b>camp</b> , pl	ease provide the coordinate	s of	the	camp	location	

Long (degree/minute)

(90/12)

(79/4)

Lat (degree/minute)

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.

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 â€" dimensions	Proposed use
Husky A200 Rover	99x67x39 cm, 50 kg	mobility platform for scientific instruments
Honda Generators (4)	50x30x40 cm, 22 kg	powering electronic equipment
Primus stoves (2)	59x12x32 cm, 5.5 kg	cooking
Logan tent	2x2x4 m	toilet tent
Longhouse tent (2)	5x4x3 m	shelter electronic equipment, kitchen

#### 2. Detail fuel and hazardous material use:

		Proposed Storage Methods
1 x 55 gallon drum	208	
4 x 55 gallon drum	832	
3 x 201b. tanks	54	
	Total Amount of Hazardous Materials and Chemicals (in Litres)	
	Containers and Capacity of Containers  1 x 55 gallon drum 4 x 55 gallon drum 3 x 201b. tanks	Containers and Capacity of Containers    X 55

#### 3. Detail daily water consumption rates

Daily amount (in Proposed water retrieval Litres) methods

Proposed water retrieval location

Collect water in jugs at river.

Small creek which flows to the N of camp location or at the larger river to the W of camp location.

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

(0)	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)	12 kg/day	Combustible material will be incinerated in a can; all remaining waste will be transported to PCSP for disposal.	
Greywater	10 L/day	Greywater will be disposed of in a sump.	
Combustible wastes	3 kg/day	Incinerated in a can.	
Non-Combustible wastes	1 kg/day	Collected and transported to PCSP for disposal.	
Overburden (organic soil, waste material, tailings)			
Hazardous waste			
Other:			

2	. Will you be incinerating combustible waste,	removing all solid waste,	and removing the a	sh generated from
in	ncineration?			

(o)	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			
Community	Name	Organization	Date Contacted

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

Axel Heiberg Island is uninhabited, therefore there will be no opportunities for local employment or training.

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

There are no local services on Axel Heiberg Island and all logistical support will be provided by the Polar Continental Shelf Program.

- 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?

(o)YES ( )NO

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

( )YES (o)NO

Applicant:

Signature Title Date

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