National Wildlife Research Centre b acr 50025 A60 1125 Colonel By Drive (Raven Road)

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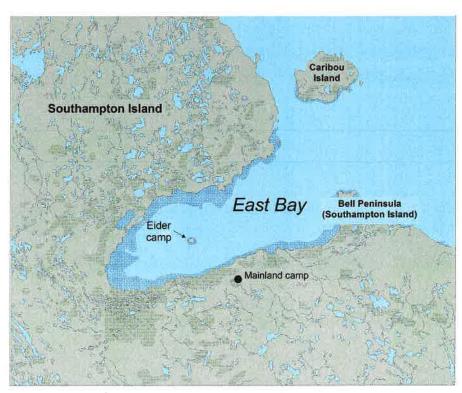
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East Bay, Southampton Island

1125 Colonel By Drive (Raven Road) Ottawa, ON K1A 0H3

NWB Manager of Licensing Nunavut Water Board P.O. Box 119 Gioa Haven, NU X0B 1J0

Dear Manager:

Please find attached an application for water use without a license, as well as project descriptions in both English and Inuktitut for research conducted at East Bay, Nunavut. This work was previously covered under Nunavut Water Board License 8WLC-PCE1617.

Please note the approval can be made out to Dr. Grant Gilchrist, however, because Dr. Gilchrist will be away from email until the end of June, any questions you have regarding this application can be directed to myself, Michael Janssen, Michael.Janssen@canada.ca 613-991-9973.

Thank you very much for your consideration of this application, and please do not hesitate to contact us with any questions or concerns you may have.

Sincerely,

Michael Janssen Wildlife Technician **Environment Canada** 

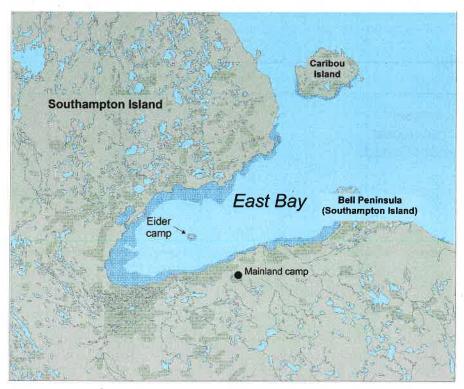


## **Project Description**

The mainland camp is located on a gravel ridge and will be accessed via Twin otter aircraft with Tundra tires which will land on a nearby gravel esker. The crew (up to 7 people) will use an ATV to shuttle gear to the camp which consists of 2 cabins and 2-3 tents. The Island camp is also located on a gravel ridge but accessed by boat/skidoo from the mainland camp, or by helicopter. It consists of 3 cabins and 3 tents and will be occupied by up to 12 people. At both camps, small gas generators will power the laptops and VHF radios and recharge any batteries required.

Water use at both camps is generally restricted to personal/camping use – cooking, drinking and washing; on the mainland it will be hauled to camp using buckets, and on the island it will be collected as needed by melting snow or sea ice and storing the melt water until it is needed. Grey water from washing dishes will be disposed of in gravel sumps >100m from flowing water and buried at the end of the field season. Each camp has a composting toilet for human waste.

The camps are set up to house the researchers who are observing and banding locally nesting birds they are studying, for the duration of the field season. Only a single element of the field work plan will involve working directly with bodies of water and this will involve collecting invertebrate samples by hand from freshwater ponds near the mainland camp to analyze carbon transfer in the food web, in relationship to climate change. Ponds chosen for sampling will contain NO fish, and only negligible amounts of water may be transferred during sampling with a hand held net (<0.5 L per day) via absorption into the net.



East Bay, Southampton Island



P.O. Box 119

GJOA HAVEN, NU XOB 1J0 TEL: (867) 360-6338 FAX: (867) 360-6369 kNK5 wmoEp5 vtmp5 NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYIT OFFICE DES EAUX DU NUNAVUT

## APPLICATION FOR APPROVAL FOR THE USE OF WATER OR DEPOSIT OF WASTE WITHOUT A LICENCE

Refer to the <u>Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence</u> (Guide) in completing this Application,

Company of the last	ICATION NO: WB use only)					
1.	APPLICANT CONTACT INFORM (name, address)	IATION	2.	APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)		
Phone:	613 998-7364		Phone:	613 991-9973		
Fax:	613 998-0458		Fax:	613 998-0458		
e-mail:	Grant.Gilchrist@Canada.ca			michael.janssen@canada.ca		
			(Attach	authorization letter)		
	3. NAME OF THE OWNER OF THE LAND THAT WILL BE USED IN RELATION TO THE WATER TO BE USED OR THE WASTE TO BE DEPOSITED  Kivalliq Inuit Association Inuit owned land parcel CH-13					
NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies)  Population Studies of Shorebirds and Marine Birds at East Bay, Southampton Island, Nunavut						
5.	5. LOCATION OF UNDERTAKING					
Project Extents (decimal degree format)						
NW	64.031	81.795				
NE -	64.00867	81.64				
SE		81.64				
SW	63.974	81.814				
				1		

Camp Location(s) (decimal degree format)				
East Ba	ay Mainland Camp _63.99°N	81.70°W		
East Ba _64.03	ay Island Camp °N	81.79°W		
Name of		nt Area in which the Unde	ertaking is located. (Please see Appendix D of	
Northe	rn Southampton Island W	atershed / NUNAVUT-04		
6.	Previous Approvals or Approval Without a Licer		h Undertaking ("Type A", "Type B" or	
	□ NA or			
	Previous Licence/Approv	val Number:8WLC	-PCE16-17	
	or cancellation of any		d in s. 46 of the NWNSRTA, the expiry of relieve the holder from any nce.	
7.*:	CLASSIFICATION OF L		he classification of undertaking by checking	
	☐ Industrial ☐ Mining X Conservation ☐ Municipal		☐ Agricultural ☐ Recreational ☐ Power ☐ Other: (describe)	
	See Appendix C of the G	uide for descriptions of clas	sifications of undertakings.	
8.			IENT USED – Provide a brief description of ment that will be used in using water or	
which we camp we accessed will be detected.	vill land on a nearby grave hich consists of 2 cabin a ed by boat/skidoo from the	el esker. The crew (up to 7 and 2-3 tents. The Island ca e mainland camp, or by hel ple. At both camps, small	accessed via Twin otter aircraft with Tundra tires 7 people) will use an ATV to shuttle gear to the 1 mp is also located on a gravel ridge but 1 icopter. It consists of 3 cabins and 3 tents and 2 gas generators will power the laptops and VHF	
on the r melting dispose	nainland it will be hauled snow or sea ice and stori	to camp using buckets, and ing the melt water until it is 0m from flowing water and	camping use – cooking, drinking and washing; d on the island it will be collected as needed by needed. Grey water from washing dishes will be buried at the end of the field season.	
The camps are set up to house the researchers who are observing and banding locally nesting birds they are				

working freshwa climate	g, for the duration of the field season. Only a single element of the field work plan will involve g directly with bodies of water and this will involve collecting invertebrate samples by hand from ater ponds near the mainland camp to analyze carbon transfer in the food web, in relationship to change. Ponds chosen for sampling will contain no fish, and only negligible amounts of water may sferred during sampling with a hand held net (<0.5 L per day) via absorption into the net.
9.	SCHEDULE – Applicants are advised that approvals without a licence are issued for a one year term.
	Proposed Start Date:25/May/2017 Proposed Completion Date:5/August/2017 (Day/Month/Year) (Day/Month/Year)
10.	TYPE OF USE OF WATER WITHOUT A LICENCE PROPOSED - Check the box that applies to the type of water use proposed. If none of the water uses listed below applies to the proposed water use, an application for a water licence will be required. See the NWB's <u>Guide 4</u> — <u>Completing and Submitting a Water Licence Application for a New Licence</u> .
ē	For an undertaking other than a Power undertaking and for a use of water related to the construction of a structure across a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of construction.
	For an undertaking other than a Power undertaking and for a use of water related to the training of an intermittent watercourse.
	For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of training.
	For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves the infilling of the watercourse, if the watercourse has no inflow or outflow and a surface area of less than 0.5 hectares.
	For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves removal or placement of less than 100 m <sup>3</sup> of material.
	For an undertaking other than a Power undertaking and for a use of water related to the construction of a temporary structure in a watercourse for the purpose of flood control.
	For an undertaking other than a Power undertaking and for any use of water related to the storage of 2,500 m3 or less.

$\boxtimes$	For an undertaking other than a Pow	er undertaking and for any	use of water less than
	50 m <sup>3</sup> per day.		

11. QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 10, provide the source of water, the estimated quantity to be used in <u>cubic metres per day</u>, and the periods during which water will be extracted.

Type of Water Use indicated in Block 10	Name of water source	Estimated quantity of water to be used in cubic metres per day	Periods during which water will be extracted
Water use for cooking and washing dishes	Water to be collected using hand-carried buckets from a nearby stream	No more than 0.05 m3 per day	During the daytime
Invertebrate sampling from ponds, with net. Water filter – not removed from pond;	Local ponds containing no fish	Less than 0,0005 m3 per day	During the daytime

12.	<b>TYPE OF DEPOSIT OF WASTE PROPOSED -</b> Check the box that applies to the type of deposit of waste proposed. If none of the deposits of waste listed below apply to the proposed deposit of waste, an application for a water licence will be required. See the NWB's <u>Guide 4 – Completing and Submitting a Water Licence Application for a New Licence</u> .
	For an Industrial undertaking, for an activity related to hydrostatic testing or cleaning of storage tanks and pipelines, and for any deposit of waste resulting from hydrostatic testing or cleaning of unused storage tanks or pipelines.
	For an Industrial undertaking, for an activity related to quarrying and gravel washing, and for any deposit of waste that is not deposited to surface water and that results from quarrying or gravel washing above the ordinary high water mark.
	For a Mining undertaking, for an activity related to exploratory work, any deposit of sewage to a sump.
	For a Power undertaking, any deposit of sewage to a sump.
	For an Agricultural undertaking, any deposit of sewage to a sump.
$\boxtimes$	For a Conservation undertaking, any deposit of sewage to a sump.

-		it of sewage to a sump. ed above, other than Munici	pal, any deposit of		
Block 12, describ		<b>/OLVED</b> – For each type of res/day, measures to avoid			
Type of Waste indicated in Block 12	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited		
Conservation: grey water	0.05 m3 / day	To be poured into a shallow sump and buried at end of field season	Daily		
Conservation: Sewage	0.005 m3 / day	Composted in a composting toilet	Daily		
Conservation: Solid Waste	0.05 m3 / day	Incineration of burnable items and remove to Iqaluit for disposal of non- burnables and residues	End of field season		
14. SIGNATURE					
this form is, to the best of	Grant Gilchrist f my knowledge, correct an		hat the information given on		
	x Yes	□No			
		OR			
I, (print name), as an authorized representative of the Applicant.					
representative of the Applicant,, certify that the information given on this form is, to the best of my knowledge, correct and complete.					
	☐Yes	□No	12		
I certify that the Nunavut Nunavut Land Claims Ag		nd use planning requiremen	ts under Article 11 of the		
	X Yes	□No			
I certify that the Nunavut	Impact Review Board's dev	velopment impact review rec	quirements under Article 12		

of the NLCA have been met.					
		X Yes		□No	
I certify that the proposed water use is of a type set out in column 2 of Schedule 2 of the Regulations that is further specified by column 3, in respect of an undertaking set out in column 1. See list in Block 10.					
		☐ Yes	X NA	□No	
2 and 3		f the Regulations, in re			her specified in columns at in column 1 of
		☐ Yes	X NA	□No	
		ed water use or deposi whose waters are use		substantially affect	the quality, quantity or
		X Yes		☐ No	
		ed water use or deposit rough Inuit Owned Lar		substantially affect	the quality, quantity or
		X Yes		☐ No	
would b	be entitled to com	ed water use or deposit opensation under section ouse of these waters waters waters waters	ons 58 or 60 of th	ne <i>Nunavut Waters I</i>	Nunavut Surface Rights
		X Yes		□No	N N 3
l certify underta		not required for anothe	er use of water, o	r deposit of waste in	respect of the proposed
		X Yes		□No	L -
	read and agree to navut Waters Reg		ving conditions o	utlined in sections 4	(3), 5(4), 5(5) and 6 of
1.					waste in relation to that right, licant had a licence for the use
2,	<ol> <li>Measures must be taken prior to using water to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.</li> </ol>				
3.	8. No waste is to be deposited to surface water or within 31 metres of the ordinary high water mark of any body of water.				
4.	4. The waste shall not contain more than 15 milligrams per litre of petroleum or petroleum product and must not have a visible hydrocarbon sheen.				
5.	<ol> <li>Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of water or deposit of waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the water was used or the waste was deposited.<sup>a</sup></li> </ol>				
6.	a. , maintain i. ii.	authorized under the Regula accurate and detailed books the quantity of water, in cub the quantity, in cubic metres the type of waste deposited	and records of: ic metres, used each s, of waste deposited	day,	a licence shall:

Name	(Print)	Title (Print)	Signature	Date
Grant (	Gilchrist	Research Scientist	tel BH	Feb 10, 2017
		X Yes	□No	
		ve answered "No" to any of the ab rior to the use of water or depo		s required from the
		X Yes	□No	
licence will be The use or o	e authorize deposit is no	oproval granted by the Board for t ed for a period of one year after th ot authorized until the Board appro- liance with the conditions set out	e day on which the Board approvoves the Application and it is only	es the Application.
		X Yes	_ No	
	approval	olicant need not submit the report referred for a use of water or deposit of waste with the same site within thirty (30) days after	out a licence, or a licence for a use of wa	ater or deposit of
	without a	need not be restored prior to the end of th licence, as required by Item 5, if the Boar prior to the end of that period.		
	abandon	ed, and (ii) the last day of the period autho books and records for two years after sub	orized for the use or deposit without a lice	ence; <sup>b</sup> and
=	c. submit to	during that period to an inspector on requestee Board a report containing a summary of the undertaking within 30 days after the	description and supporting photographs	of the restoration of
	vii. b. keep the	books and records on the site of the under	r mitigate any adverse impacts of the dep ertaking during the period of its operation	osit of waste.
	iv. v.	where the waste is deposited, the concentration of the substance, or su making the deposit waste,	bstances, in the deposited solid or liquid	that has the effect of