

P.O. Box 119

GJOA HAVEN, NU X0B 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.

APPLICATION NO: (for NWB use only)				
1. APPLICANT CONTACT INFORMATION (name, address) Dr. Paul Smith National Wildlife Research Center 1125 Colonel By Drive Ottawa, Ontario, K1A 0H3 Phone:613 998-7362 Fax:613 998-0458 e-mail:paulallen.smith@ec.gc.ca	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Christine Eberl Same address as Paul Phone:613 998-8282 Fax:613 998-0458 e-mail:christine.eberl@ec.gc.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 Inuit owned land – CH-02				
4. NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies) Population Studies of Avian Species at Coats Island, Nunavut (including Environment Canada's study; Demographic Studies of Shorebirds at East Bay, Southampton Island, and Coats Island, Nunavut, and McGill University's study: Adaptation of Seabirds to an Ice-free Summer')				
5. LOCATION OF UNDERTAKING Project Extents (decimal degree format)				
Shorebird Camp NW 62.92001 82.5065	5			
NE 62.91804 82.4635				
SE 62.8619 82.4623				
SW 62.86263 82.5084	46			
Seabird 62.94132N 82.0172 camp	22W 			

Camp Location(s) (decimal degree format)					
Shoreb	ird Camp	00.404014			
	_62.8518N	82.4849W			
Seabiro	62.94132N	82.01722W			
Name of the Guid		in which the Undertaking	g is located. (Please see Appendix D of		
16	Hudson Bay Island Watersheds				
	Previous Approvals or Licences Associated with Undertaking ("Type A", "Type B" or Approval Without a Licence)				
	□ NA or				
	Previous Licence/Approval Num	ber:8WLC-PCO1516_			
	The Board reminds the Applicant that as stated in s. 46 of the NWNSRTA, the expiry or cancellation of any previous licence does not relieve the holder from any outstanding obligations imposed under the licence.				
	CLASSIFICATION OF UNDERTAKING - Indicate the classification of undertaking by checking one of the following boxes.				
	☐ Industrial ☐ Mining X Conservation ☐ Municipal		Agricultural Recreational Power Other: (describe)		
See Appendix C of the Guide for descriptions of classifications of undertakings.					
			SED – Provide a brief description of hat will be used in using water or		
Seabird us deter including the birds seabird period in adapting for physic	s in the arctic to monitor any decrmine if shorebird declines are dog migration stopovers and winters, and time-lapse cameras and camp will involve monitoring of the northern Hudson Bay has expand to a longer ice-free summer. We tiological and genomic measurer	elines and examine causes ue to changes on the north ring sites. We will use a cobservations from a distant hick-billed murres and glau anded by several weeks and e will be attaching biologginents over two weeks June	,		
Tundra Akpa ne each, in small ca	tires which will land on a nearby esting cliff and the landing strip is cluding one local from Coral Harabin and 2-3 tents at the shorebir	gravel esker. The seabird on the beach to the west bour) will use ATVs to shu d camp, and 2 cabins at the	accessed via Twin otter aircraft with camp is near the western part of the of this. Crews at both camps (4-5 people the gear to the camps which consists of a ne seabird camp. A small gas generator or d recharge batteries as required. Water		

use is restricted to personal/camping use – cooking, drinking and washing - and will be hauled from nearby meltwater ponds and streams to the camps using buckets. Grey water will be poured into sumps, and human waste composted in the composting toilets at both camps. Garbage is burned in a high temperature incinerator. Non-combustible garbage (e.g. glass) is backhauled to Iqaluit.

The infrastructure at the seabird camp will be upgraded in August 2016 due to safety concerns as the frequency of polar bear encounters has increased over recent years. The team, which would include community members from Coral Harbour, would make the improvements to the Seabird Research Station during late July and early August 2016. The proposed changes to the Station include:

- Replacing the existing cabin with a new 12x24' cabin.
- Building a new 12x24' sleeping cabin on the beach near the airstrip. The main camp requires time
 to close-up at the end of each fieldwork season and is located some distance away from the airstrip.
 Therefore, the proposed cabin near the airstrip would provide crews with a safe place to sleep while
 they wait to be picked-up at the end of the season, which would be especially helpful in the event
 that pick-ups are delayed due to poor weather conditions.
- Placing an electric fence around the perimeter of the main camp to reduce the risk of encounters with polar bears. The fence wires would be taken down at the end of each field season to avoid interference with wildlife when not in use.

In addition to the equipment generally used at the camp and described above, the infrastructure upgrade will use 2 generators and a variety of hand tools and a helicopter will be on site for 2 days.				
9.	SCHEDULE – Applicants are advised that approvals without a licence are issued for a one year term.			
	Proposed Start Date:1 June 2016 Proposed Completion Date:31 August 2016 (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 – Completing and Submitting a Water Licence Application for a New Licence</u> .			
	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 ³ 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.			
	For an undertaki 50 m³ per day.	ng other than a Power und	ertaking and for any use of	water less than
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 <50m3/day: use for cooking and washing dishes		Water to be collected using hand-carried buckets from nearby streams and meltwater ponds	No more than 0.05 m3 per day	During the daytime.
12. TYPE OF DEPOSIT OF WASTE PROPOSED - 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.			
	For a Conservation undertaking, any deposit of sewage to a sump.			
\boxtimes	For a Recreation undertaking, any deposit of sewage to a sump.			
	For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.			
13.		the quantity in cubic met	VOLVED – For each type of res/day, measures to avoid c	
	e of Waste ated 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
Recre water	ational: grey	0.1 m3 / day	To be poured into a shallow sump and buried at end of field season	Daily
Recre Sewa	ational: ge	0.01 m3 / day	Composted in a composting toilet	Daily
Recre Waste	ational: Solid	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			
l,				rtify that the information
given o	n this form is, to the	e best of my knowledge, c	correct and complete.	
☐ Yes ☐ No				
OR				
Smith a	and Dr. Kyle Elliott and complete.	(Christine Eberl), as an a, certify that the informa	uthorized representative of the tion given on this form is, to	ne Applicant, Dr. Paul the best of my knowledge,
		X Yes	□No	

	that the Nunavut Planning Cout Land Claims Agreement ha		use planning requ	uirements under Article 11 of the
		X Yes		□No
	that the Nunavut Impact Rev NLCA have been met.	iew Board's devel	opment impact re	eview requirements under Article 12
		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
I certify that the proposed deposit of waste is an activity that is set out and then further specified in columns 2 and 3 of Schedule 3 of the Regulations, in respect of an undertaking that is set out in column 1 of Schedule 3. See list in Block 12.				
		Yes	X NA	□No
	that the proposed water use the watercourse whose water		e will not substan	tially affect the quality, quantity or
		X Yes		□No
	that the proposed water use waters flowing through Inuit C		e will not substan	tially affect the quality, quantity or
		X Yes		□No
would b	pe entitled to compensation ur	nder sections 58 o	r 60 of the Nuna	ne use of waters by a person who vut Waters Nunavut Surface Rights ted by an applicant for a licence.
		X Yes		□No
I certify underta	•	for another use of	water, or deposit	t of waste in respect of the proposed
		X Yes		□No
	read and agree to comply with navut Waters Regulations:	the following con	ditions outlined ir	n sections 4(3), 5(4), 5(5) and 6 of
1.				ers or deposit waste in relation to that right, et as if that applicant had a licence for the use
2.		res must be taken prior to using water to minimize any alteration to the bed or banks of a watercourse whose waters be used, and the measures shall be maintained during the operation of the undertaking.		
3.	No waste is to be deposited to surfa	ice water or within 31 n	metres of the ordinary	high water mark of any body of water.
4.	The waste shall not contain more th hydrocarbon sheen.	an 15 milligrams per lit	tre of petroleum or pe	stroleum product and must not have a visible

Name (Print)	Title (Print)	Signature	Date
Christine Eber	Technician	Clearle Cell	8 March 2016
	X Yes	□No	
	at if I have answered "No" to a Board prior to the use of wa	ny of the above statements a water lice ter or deposit of waste.	ence is required from the
	X Yes	□No	
licence will be a The use or dep	uthorized for a period of one yosit is not authorized until the	Board for the use of water or deposit of year after the day on which the Board a Board approves the Application and it is ons set out in the declaration above.	pproves the Application.
	X Yes	□No	
	approval for a use of water or depos	report referred to in Item 6 (c), to the Board if the it of waste without a licence, or a licence for a us (30) days after the last day of the period authoriz	e of water or deposit of
		o the end of the period authorized for the water on 5, if the Board issues a licence for the use of w.d.	
c. d.	the site of the undertaking within 30 abandoned, and (ii) the last day of the	pector on request; ing a summary description and supporting photogodays after the earliest of (i) the day on which the ine period authorized for the use or deposit without years after submitting the report describing the re	undertaking is closed or it a licence; ^b and
b.	iv. where the waste is deposi v. the concentration of the su making the deposit waste, vi. the methodology used to o vii. the measures that were ta	ted, ubstance, or substances, in the deposited solid o	in items (i) to (iv), and he deposit of waste.
6. An applic a.	maintain accurate and detailed bool i. the quantity of water, in cu	ibic metres, used each day, es, of waste deposited each day,	licence shall:
waste wit		tertaking or end of the period authorized for the to the site shall be restored — to the extent praction as deposited.	