National Wildlife Research Centre Carleton University 1125 Colonel By Drive (Raven Road) Ottawa, ON K1A 0H3

NWB Manager of Licensing **Nunavut Water Board** P.O. Box 119 Gjoa 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 in Hudson Strait, Nunavut. This work was previously covered under Nunavut Water Board License 8WLC-ASR1617.

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, Jake Russell-Mercier, jake.russellmercier@canada.ca 613-991-9846.

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,

. Take Russell- Mercier

Jake Russell-Mercier Wildlife Technician **Environment Canada** 



### **Arctic Seabird Research Program:**

Coastal Surveys of Common Eider Nesting Islands

### **Project Description**

#### **Common Eiders**

We are investigating multiple issues of particular management importance. The first issue is outbreaks of avian cholera. Avian cholera is one of the most lethal diseases of birds in North America and it appears to be a new disease for eiders in the North. Mass mortality events have been observed at several locations in Nunavut and Nunavik since 2004. Our objective is to determine the geographic extent of the outbreaks and to collect epidemiological data for laboratory analysis in order to help us to predict the severity and spread of disease.

The second issue that we are examining is predation of common eider nests by polar bears. Reports from multiple Inuit communities in Nunavut and Nunavik indicate that increasing numbers of bears are being seen on bird colonies during the nest incubation period. It has been hypothesized that one consequence of climate change is that polar bears will be forced ashore sooner because of early sea ice melt. Eider eggs are a potential alternative food source that bears can eat when they cannot capture seals. Our objective is to estimate nest predation rates by polar bears, determine the energetic benefits and limitations of this resource for bears, and examine the effects of increased nest predation on eider reproductive rates and population dynamics.

Our research methodology emphasizes close collaboration with local communities. Our common eider surveys are boat-based and we hire local Inuit guides as boat captains and to assist with data collection. We rely extensively on local ecological knowledge for guidance on research protocols – such as where to sample and when. Ultimately, we hope to be able to work together with northern residents to quantify the effects that disease, shipping, and increased predation are having on seabirds, assess the potential for these pressures to intensify with further climatic warming, and identify management interventions to mitigate local and regional population declines.

### Camp

During portions of the surveys we will be camping on islands to facilitate sampling of areas far from town (Cape Dorset). We will camp at established campsites recommended by our local guides to reduce our impacts on the land. There will be between 4-8 Inuit guides and 3-8 others camping at each site. We will only be camping at each site for a few days before moving on. We will be

using canvas tents provided by the guides for sleeping and cooking. We will have a small amount of white gas and fuel for the boats at each campsite. We have a spill response plan and will have a spill kit with us at all times.

Water is used for drinking and washing purposes only and will either be brought from town or obtained from small streams according to our guides. Human waste will be buried in a sump away from all water sources and backfilled before leaving camp. All other waste will be transported back to Cape Dorset and disposed of properly.



Map of visited sites and camping sites used in the region near Cape Dorset in 2016. We plan to survey a similar area in 2017.

National Wildlife Research Centre b QC 「 かトトム & b Carleton University ィ こっつちょ & d 1125 Colonel By Drive (Raven Road) Ottawa, ON K1A 0H3

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Jake Russell-Mercier

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Map of visited sites and camping sites used in the region near Cape Dorset in 2016. We plan to survey a similar area in 2017.



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)						
1125 C Ottawa Phone: Fax:	APPLICANT CONTACT INFORM (name, address) Gilchrist al Wildlife Research Centre olonel By Drive , ON K1A 0H3 (613) 998-7364(613) 998-0458grant.gilchrist@canada.ca	Phone: Fax: e-mail:	APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)  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 4. Qikiqtani Inuit Association						
5.	5. NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies)					
Coastal surveys of Common Eider nesting islands along the South Baffin Coast.						
6.	6. LOCATION OF UNDERTAKING					
Project Extents (decimal degree format)						
NW	64.4630	-75.8085				
NE	64.4630	-73.1474				
SE	63.8119	-73.1474				
SW	63.8119	-75.8085				

Camp Location(s) (decimal degree format)					
	64.33475	-74.67462			
	64.28761	-75.78308			
	64.03466	-73.58418			
		4			
Name the Gu			ing is located. (Please see Appendix D of		
A=====	nadom onak w	atoronou			
7.	CLASSIFICATION OF UNDE	RTAKING - Indicate the cl	assification of undertaking by checking		
	Industrial		☐ Agricultural		
	Mining		Recreational		
	★ Conservation		Power		
			Other: (describe)		
	See Appendix C of the Guide for	or descriptions of classifica	ations of undertakings.		
8.	<b>DESCRIPTION OF UNDERTAKING AND EQUIPMENT USED</b> – Provide a brief description of the undertaking including a description of any equipment that will be used in using water or depositing waste.				
nesting camps less that and clean our guid leaving	g dynamics. During portions of the ites on some islands to facilitate an 1 week each. Drinking water eaning. Freshwater from small s ides. Grey water will disposed of	ne surveys the field crew ( e sampling. These camps we will be brought from town treams or ponds may be u f in a sump away from flow	udy factors influencing Common Eider up to 11 people) will camp at established will be light (canvas tents) and occupied for and ocean water will be used for cooking used if available and obtained according to wing water that will be backfilled before way from flowing water and backfilled before		
9.	SCHEDULE – Applicants are a term.	advised that approvals with	hout a licence are issued for a one year		
	Proposed Start Date:July (Month/Y		ompletion Date:August 2017 (Month/Year)		
10.	to the type of water use propos	sed. If none of the water us ation for a water licence w	ill be required. See the NWB's Guide 4		
		across a watercourse that	nd for a use of water related to the is less than 5 metres wide at the		

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 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 m³ 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 undertaking other than a Power undertaking and for any use of water less than 50 m³ per day.  11. QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 9, provide the source of water, the estimated quantity to be used in cubic metres per day, and the periods during which water will be extracted.  Type of Water Use  Name of water source  Name of water source  Name of water of water to be used in cubic metres per day  Washing / cooking / drinking  Sea water/Streams  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 proposed. If none of the deposits of waste listed below apply to the proposed deposit of waste and pipelines, and for a water licence water ligited. See the NNB's Guide 4 Completing and Submitting a Water Licence Application for a New Licence.  For an Industrial undertaking, for an activity related to hydrostatic testing or cleaning of storage tanks and pipelines, and for any deposit of waste that is not deposited to surface water and that results from quarrying or gravel wa						
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	For a Mining undertaking, for an activity related to exploratory work, any deposit of sewage to a sump.					
22390.100.1	sewaye to a suffip.					
For a Power	For a Power undertaking, any deposit of sewage to a sump.					
For an Agricu	For an Agricultural undertaking, any deposit of sewage to a sump.					
For a Recrea	For a Recreation undertaking, any deposit of sewage to a sump.					
For any Other sewage to a s	r type of undertaking not list sump.	ed above, other than Munic	cipal, any deposit of			
Block 11, descri	D QUALITY OF WASTE IN the the quantity in cubic met priods of deposition.	res/day, measures to avoid	or mitigate adverse			
Type of Waste indicated in Block	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited			
Sewage – Human Waste	<0.05	Sump located > 100m away from water source and buried before leaving camp	July 1 – July 31			
Grey Water – Dish Water	<0.1	Sump located > 100m away from water source and buried before leaving camp	July 1 – July 31			
Solid Waste - Garbage	0	All garbage and other solid waste will be transported back to town (Cape Dorset) for disposal	July 1 – July 31			
		Dorocky for disposal				
14. SIGNATURE						
	st of my knowledge correct		tify that the information			
Grant Gilchrist_ n this form is, to the be	or or my knownedge, comect					
	X Yes	□ No				
		□ No				
n this form is, to the be	× Yes	OR	s an authorized			
n this form is, to the be	× Yes	OR (print name), a	s an authorized , certify that the			

	Yes		☐ No			
	I certify that the Nunavut Planning Commission's land use planning requirements under Article 11 of the Nunavut Land Claims Agreement have been met.					
	× Yes		□No			
I certify that the Nunavut Impact Rev of the NLCA have been met.	riew Board's deve	elopment impact	review requirements	under Article 12		
•	× Yes		□No			
I certify that the proposed water use further specified by column 3, in resp						
	×Yes	□NA	□No			
I certify that the proposed deposit of 2 and 3 of Schedule 3 of the Regular Schedule 3. See list in Block 11.						
	x Yes	□NA	□No			
I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of the watercourse whose waters are used.						
	×Yes		□No			
I certify that the proposed water use flow of waters flowing through Inuit C		te will not substa	antially affect the qua	lity, quantity or		
3	×Yes		□No			
I certify that the proposed water use or deposit of waste will not affect the use of waters by a person who would be entitled to compensation under sections 58 or 60 of the <u>Nunavut Waters Nunavut Surface Rights</u> <u>Tribunal Act</u> (Act) if their use of these waters were to be adversely affected by an applicant for a licence.						
	×Yes		□No			
I certify that a licence is not required for another use of water, or deposit of waste in respect of the proposed undertaking.						
	× Yes		□No			
I have read and agree to comply with the following conditions outlined in sections 4(3), 5(4), 5(5) and 6 of the <i>Nunavut Waters Regulations</i> :						
1. In the case of an applicant who has a mineral right and who intends to use waters or deposit waste in relation to that right, the applicant shall respect the priority conferred on Inuit by section 62 of the <i>Act</i> as if that applicant had a licence for the use or deposit.						
Measures must be taken prior to us are to be used, and the measures s				ourse whose waters		

0	Mariant	le to be	Innelled to surface water as with to 64 to	o of the andinon, blab water and discovery	banks of works
3.	No waste	s is to be c	deposited to surface water or within 31 metre	es of the ordinary high water mark of any	body of water,
4.		e shall no bon sheer	t contain more than 15 milligrams per litre o n.	petroleum or petroleum product and mu	st not have a visible
5.	waste wit	thout a lice	or abandonment of the undertaking or end ence, whichever occurs first, the site shall be eer was used or the waste was deposited.		
6.	An applic		s authorized under the Regulations to use w		hall:
			the quantity of water, in cubic metres, used	l each day,	
		ii.	the quantity, in cubic metres, of waste dep	osited each day,	
			the type of waste deposited each day, where the waste is deposited,		
			the concentration of the substance, or sub making the deposit waste,	stances, in the deposited solid or liquid th	at has the effect of
			the methodology used to calculate or dete		
	b.	keep the	the measures that were taken to avoid or r books and records on the site of the undert during that period to an inspector on reque	aking during the period of its operation ar	
	C.	submit to	the Board a report containing a summary of	escription and supporting photographs of	f the restoration of
	d.	abandon	of the undertaking within 30 days after the ea ed, and (ii) the last day of the period authori books and records for two years after subming.	zed for the use or deposit without a licent	ce; <sup>™</sup> and
		Notes:			×
		without a	need not be restored prior to the end of the licence, as required by Item 5, if the Board prior to the end of that period.		
		approval	plicant need not submit the report referred to for a use of water or deposit of waste witho n the same site within thirty (30) days after t	ut a licence, or a licence for a use of water	er or deposit of
			× Yes	□No	
licence The us	e will be a se or dep	uthorize osit is no	pproval granted by the Board for the ed for a period of one year after the ot authorized until the Board approv diance with the conditions set out in	day on which the Board approve res the Application and it is only v	s the Application.
			× Yes	□No	
			ve answered "No" to any of the abo prior to the use of water or depos		required from the
	3		×Yes	□No	
G	rant Gilc	hrist	Research Scientist	ALLAL.	March 16, 2016
	Name (Pr		Title (Print)	Signature	Date