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MOS SDS

Catherine Geoffroy トイヴ やみといい マペハニヘント d c b o C 「

Catherin Colls



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East Bay, Southampton Island

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 at East Bay, Nunavut. This work was previously covered under Nunavut Water Board License 8WLC-PCE1718.

Please note the approval can be made out to Dr. Grant Gilchrist, however, any questions you have regarding this application can be directed to myself, Catherine Geoffroy, catherine.geoffroy@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,

Catherine Geoffroy Wildlife Technician Environment Canada

Catherin Coulls



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.





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)	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)			
Phone:	613 998-7364	Phone:613 991-9846			
	613 998-0458	Fax:613 998-0458			
		e-mail: catherine.geoffroy@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					
4.	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.	LOCATION OF UNDERTAKING				
Project Extents (decimal degree format)					
NW	64.031 81.795				
NE	64.00867 81.64				
SE	63.95 81.64				
SW	63.974 81.814				

	p Location(s) (decim	al degree format)			
East	Bay Mainland Camp 63.99°N	81.70°W			
East	Bay Island Camp				
)3°N	_81.79°W	<u></u>		
	e of the Water Manaç Guide)։	gement Area in which the U	ndertaking is located. (Please see Appendix D of		
North	nern Southampton Isla	nd Watershed / NUNAVUT-0	4		
6.		Previous Approvals or Licences Associated with Undertaking ("Type A", "Type B" or Approval Without a Licence)			
	□ NA or				
	Previous Licence/A	pproval Number:8W	/LC-PCE1718		
	or cancellation of	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.			
7.		CLASSIFICATION OF UNDERTAKING - Indicate the classification of undertaking by checking one of the following boxes.			
	☐ Industrial ☐ Mining		☐ Agricultural ☐ Recreational		
	X Conservation Municipal		☐ Power ☐ Other: (describe)		
	See Appendix C of	the Guide for descriptions of	classifications of undertakings.		
8.			IPMENT USED – Provide a brief description of quipment that will be used in using water or		
which camp acces will b	n will land on a nearby which consists of 2 cossed by boat/skidoo fro	gravel esker. The crew (up abin and 2-3 tents. The Islan om the mainland camp, or by 2 people. At both camps, sm	be accessed via Twin otter aircraft with Tundra tires to 7 people) will use an ATV to shuttle gear to the d camp is also located on a gravel ridge but helicopter. It consists of 3 cabins and 3 tents and hall gas generators will power the laptops and VHF		
on th meltion dispo	e mainland it will be hang ng snow or sea ice and sed of in gravel sump	auled to camp using buckets, d storing the melt water until	nal/camping use – cooking, drinking and washing; and on the island it will be collected as needed by it is needed. Grey water from washing dishes will be and buried at the end of the field season.		
The o	camps are set up to ho	ouse 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. 9. SCHEDULE - Applicants are advised that approvals without a licence are issued for a one year term. 25/May/2018 Proposed Completion Date: 15/August/2018 Proposed Start Date: (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 Guide 4 Completing and Submitting a Water Licence Application for a New Licence. 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 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. X 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 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. 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 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 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. \Box For an Agricultural undertaking, any deposit of sewage to a sump. \boxtimes For a Conservation undertaking, any deposit of sewage to a sump. For a Recreation undertaking, any deposit of sewage to a sump.

For any Other sewage to a su		ed above, other than Municip	oal, any deposit of		
Block 12, describ		/OLVED – For each type of res/day, measures to avoid o			
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 I,	Grant Gilchristmy knowledge, correct and	(print name), certify th	at the information given on		
x Yes [No		
		OR			
I, (print name), as an authorized representative of the Applicant,, certify that the information given on this form is, to the best of my knowledge, correct and complete.					
	☐Yes	□No			
I certify that the Nunavut Nunavut Land Claims Ag		nd use planning requirements	s under Article 11 of the		
I certify that the Nunavut of the NLCA have been n		elopment impact review req	uirements under Article 12		
	X Yes	□No			

					of Schedule 2 of the F n column 1. See list in	
			☐Yes	X NA	□No	
2 and		f the Regulation			out and then further sp king that is set out in co	
			☐ Yes	X NA	□No	
	y that the propose the watercourse			e will not sub	ostantially affect the qu	ality, quantity or
			X Yes		□No	
	y that the propose waters flowing th			e will not sub	ostantially affect the qu	ality, quantity or
			X Yes		□No	
would	be entitled to com	pensation und	der sections 58 o	r 60 of the <u>/</u>	ect the use of waters b Iunavut Waters Nunav affected by an applicar	ut Surface Rights
			X Yes		□No	
I certify undert		not required for	or another use of	water, or de	eposit of waste in respe	ect of the proposed
			X Yes		□No	
	read and agree to unavut Waters Re		the following con	ditions outlir	ned in sections 4(3), 5(4), 5(5) and 6 of
1.	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.					
2.	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.					
3.	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.	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.	5. 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. ^a					
6.	a. maintain i. ii. iii. iv.	accurate and det the quantity of w the quantity, in c the type of waste where the waste	ailed books and reco ater, in cubic metres, ubic metres, of waste deposited each day is deposited, n of the substance, or	rds of: used each day deposited eac		
	vi.			determine the i	nformation referred to in iten	ns (i) to (iv), and

the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste. keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request: submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within 30 days after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the use or deposit without a licence; and keep the books and records for two years after submitting the report describing the restoration of the site of the undertaking. Notes: a) A site need not be restored prior to the end of the period authorized for the water use or deposit of waste without a licence, as required by Item 5, if the Board issues a licence for the use of water or deposit of waste on that site prior to the end of that period. b) An applicant need not submit the report referred to in Item 6 (c), to the Board if the applicant obtains the Board's approval for a use of water or deposit of waste without a licence, or a licence for a use of water or deposit of waste, on the same site within thirty (30) days after the last day of the period authorized for the use or deposit. X Yes □No I understand that any approval granted by the Board for the use of water or deposit of waste without a licence will be authorized for a period of one year after the day on which the Board approves the Application. The use or deposit is not authorized until the Board approves the Application and it is only valid as long as the applicant is in compliance with the conditions set out in the declaration above. X Yes □No I understand that if I have answered "No" to any of the above statements a water licence is required from the Nunavut Water Board prior to the use of water or deposit of waste. X Yes ∏No **Grant Gilchrist Research Scientist** Jan 25, 2018 Name (Print) Title (Print) Signature Date