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

Oct 10, 2022

Dear Manager,

On behalf of the Principal Investigators of the project titled "Community-Driven Monitoring of Sea Ice and Eider Duck Populations around Belcher Islands, Nunavut", please find attached an application for water use without a license, project descriptions in both English and Inuktitut as well as the this year's NPC letter of approval. This is a long-term ongoing project with Environment and Climate Change Canada; however, please note that the Arctic Eider Society took over permit applications from 2018 forward. This work was currently covered under Nunavut Water Board License 8WLC-GBI2022 and is related to NPC file number 149411 which is approved and expires December 31, 2025.

Please note the approval can be made out to Dr. Joel Heath. Any questions you have regarding this application can be directed to him, joelheath@arcticeider.com, 604-813-5635 or myself, Billy Nicoll, billynicoll@arcticeider.com, 519-502-1745.

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,

**Billy Nicoll** 

Stewardship Coordinator

**Arctic Eider Society** 

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σας ΡΑ το Υσρασό, Αιλα ΔαΔ΄ ΓΠς-ΓΡ΄ ΕΣΥΡΌΠΛος ΝΑ Δς ΕΛΙΡΟΝΕΥΙΕΝ ΕΧΡ΄ αΣΓια Δ΄ ΛΙΑΡΝΌΓΟ ΚΟΘΕΝΤΑΓΑ Α΄ ΛΙΑΝΑΙ ΑΘΕ ΑΙΚΟΝΑΙ, ΑΑΦΟΓία Δ΄ ΛΙΑΡΝΌΓΟ ΚΟΡΑΝΑΘΕ ΑΙΚΑΙ ΕΘΕΝΑΙΑ ΑΚΕΙΑΙΚΟΝΑΙ, ΑΑΦΟΓία Α΄ ΣΑΘΕΘΕΝΑΙ ΚΑΡΑΝΑΘΕ ΑΙΚΑΙ ΕΘΕΝΑΙΑ ΚΑΡΑΘΕ ΑΙΚΑΙ ΕΘΕΝΑΙΑ ΚΑΡΑΘΕ ΑΙΚΑΙ ΑΚΕΙΑΙΑ ΑΙΚΑΙΑ ΑΙΚΑΙΑ

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# Community-Driven Monitoring of Sea Ice and Eider Duck Populations around the Belcher Islands, Nunavut

#### **Project Description**

This long-term ongoing research and monitoring project was initiated by the community of Sanikiluaq in 1998 in partnership with Environment Canada, and has been administered through the Arctic Eider Society, a Sanikiluaq-based charity, in partnership with the Sanikiluaq Hunters and Trappers Association, Municipality of Sanikiluaq, Environment and Climate Change Canada and other collaborators since 2011. It focuses on the Hudson Bay Common Eider as a key resource for the community and indicator species of environmental change in the region, while also working to more holistically and systematically document key indicators of environmental change and cumulative impacts identified by Inuit, including changing sea ice and oceanographic conditions.

The Hudson Bay eider (*Somateria mollissima sedentaria*) breeds on the east and west coasts of Hudson and James Bay, and on the Belcher, Sleeper, and Ottawa Islands. The harvest of adult Hudson Bay eiders occurs in all months by residents of the Belcher Islands, with an annual harvest of approximately 2000-5000 birds. Eiders are most important to residents during freeze-up in the fall when other bird and mammal species are often inaccessible to hunters. The Municipality of Sanikiluaq is also establishing a commercial eider down harvest. These factors make the eider one of the most economically important species to the community of Sanikiluaq and a key indicator species for the local ecosystem.

Eiders breeding within Hudson Bay spend the winter in open water leads and polynyas near the Belcher Islands and off the west coast of Quebec. In doing so, the Hudson Bay eider is vulnerable to mass die-offs in winter when eiders are concentrated in open-water leads that freeze. In the 1990's the eider population was 70% lower than surveys from the 1980's, due to extreme sea ice conditions that caused a large starvation event. In recent years Inuit have reported changing sea ice and oceanographic conditions, including rapid freeze-ups at polynyas and floe edges that are important habitat for eider ducks and other wildlife including seals and beluga. These factors emphasize the need for sound information on the possible changes occurring in the sea ice habitats and how they influence populations of eider ducks and other wildlife. Our objective is to understand how changing sea ice and oceanographic conditions influence the marine food web as a key resource for the community of Sanikiluaq. This work is now documenting these indicators and wildlife distribution/abundance through more holistic year-round monitoring as a part of regular harvesting activities, and will contribute to baseline data for the proposed Qikiqtait protected areas project that will provide long term stewardship for the region and its wildlife including eiders as priority species.

#### Methods

The community of Sanikiluaq has driven this program since its inception in 1998. This long-term effort was formalized through creation of the Arctic Eider Society as a Sanikiluaq-based community-driven charity in 2011. The program is based on priorities identified as outcomes of ongoing joint meetings with the Sanikiluaq Hunters and Trappers Association and Municipal Council of Sanikiluaq, held multiple times

each year. All work is conducted independently by, or in direct collaboration with, experienced Inuit hunters and in close consultation with the local Hunters and Trappers Association, whom also rely on project outcomes for local co-management efforts. All results are made accessible to the community in near-real time through our SIKU online interactive platform which also provides long-term ownership, access and control of data stewardship for the community and regional Inuit organizations.

All research is non-invasive and observational. Inuit monitoring teams work independently or in partnership with researchers to document observations including the abundance and distribution of eider populations, other wildlife species and their sea ice habitats (e.g. size and dynamics of polynyas and floe edges) using a variety of photography, video and timelapse monitoring techniques and take additional observational notes using field notebooks or mobile devices (i.e. SIKU app). Observations take place at key habitats around the Belcher Islands identified as priority sites for monitoring by the community. Oceanographic indicators are measured using CTD casts (salinity, temperature depth profilers) and moorings (salinity/temperature probes) and aquadopp current meters to track changes over the winter and open water seasons. Ice core samples and water samples are also taken to document water characteristics over time. Salinity profiling and water sampling is conducted by local hunters deploying a CTD or water sampler (kemmerer) through a small hole in the ice, letting it sink, then immediately pulling it up.

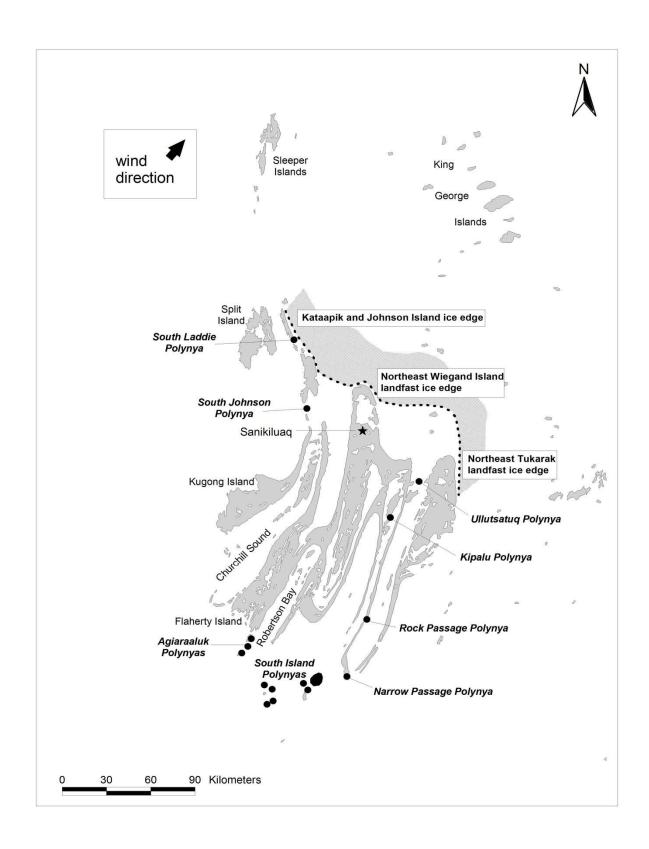
The community of Sanikiluaq, and the Arctic Eider Society recognize the need for vigilance regarding the COVID-19 pandemic, particularly as it relates to research practices and Arctic travel. This project will at all times adhere to the public health directives provided by all responsible Municipal, Territorial and Federal health authorities and will continue to follow the guidelines and recommendations of the relevant Inuit Organizations as the pandemic evolves. As the project is driven and led by the community and is primarily based around documenting observations as a part of regular subsistence activities, it has supported food security and monitoring during the pandemic even while researchers were not visiting the community. The project will continue to draw on these strengths in 2022, and researchers will only visit the community if travel restrictions and health guidelines allow.

#### Camp

Most work will take place as a part of day trips from the community. Infrequent overnight trips may be made to the Environment Canada research camp (55° 49.361 N, 79° 53.925 W) to facilitate travel to nearby polynyas and floe edge by snowmachine. We will have a small amount of white gas for cooking and gasoline for the snow machines. We have a spill response plan and will have a spill kit with us at all times.

Melted snow is used for drinking and washing purposes only. 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 Sanikiluaq and disposed of properly.

Outings will only take place if COVID-19 related health directives allow. In the case that outings are permitted, all relevant health and safety protocols will be strictly adhered to by outing participants.



This study will take place near winter open water leads and polynyas in the southern Belcher Island Archipelago.



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.

	ICATION NO: WB use only)			
1.	APPLICANT CONTACT INFORMA (name, address)	ATION	2.	APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)
Joel He	eath			( , ,
	Eider Society			
House				
Sanikilı	uaq, NU, X0A 0W0		Phone: Fax:	
Phone:	(613) 416-9607		e-mail:	
	613-701-0326		(Attach	authorization letter)
e-mail:	heath.joel@gmail.com			
3.	NAME OF THE OWNER OF THE WATER TO BE USED OR THE W			
Qikiqta	ni Inuit Association			
4.	NAME OF PROJECT (consistent vagencies)	with the name	of the p	roject issued by other regulatory
Commu Nunavu	unity-Driven Monitoring of Sea Ice a ut	and Eider Duc	k Popula	tions around the Belcher Islands,
5.	LOCATION OF UNDERTAKING			
Project	t Extents (decimal degree format)	)		
NW	56.92775	-79.91355		
NE		-78.63441		
SE	56.63619	-79.27949		
SW	55.73674	-79.99615		

Camp	Location(s) (decimal degree f	ormat)			
	55.82784	-79.89205			
<b>Name</b> the Gu	of the Water Management Are	ea in which the l	Jndertakin	g is located. (Ple	ase see Appendix D of
Hudso	n Bay Islands Watershed				
6.	Previous Approvals or Licer Approval Without a Licence)	ices Associated	with Unde	rtaking ("Type A",	, "Type B" or
	□ NA or				
	Previous Licence/Approval Nu	mber: 8WLC-GB	12021		
	The Board reminds the App or cancellation of any previoustanding obligations imp	ous licence doe	s not relie		
7.	CLASSIFICATION OF UNDE one of the following boxes.	RTAKING - Indic	ate the clas	sification of under	taking by checking
	☐ Industrial ☐ Mining ☐ Conservation ☐ Municipal			Agricultural Recreational Power Other: (describe)	)
	See Appendix C of the Guide for	or descriptions of	classification	ons of undertaking	S.
8.	DESCRIPTION OF UNDERTA the undertaking including a de depositing waste.				
to the l	ork will take place as a part of one control of the	camp (55° 49.361 ne. We will have	N, 79° 53. a small am	925 W) to facilitate ount of white gas f	travel to nearby or cooking and gasoline
all wate	ice is used for drinking and was er sources and backfilled before sposed of properly.				
9.	SCHEDULE – Applicants are term.	advised that appr	rovals witho	ut a licence are iss	sued for a one year
	Proposed Start Date: 04/02/20 (Day/Mo	023 nth/Year)	Propose	d Completion Date	e: 03/02/2024 (Day/Month/Year)

10.	to the type of water proposed water use	ruse proposed. If none of t e, an application for a wate	ENCE PROPOSED - Check he water uses listed below a r licence will be required. Se Application for a New Lice	applies to the see the NWB's <u>Guide 4</u>		
	construction of a	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.					
		ercourse that is less than 5	ertaking and for a use of wa metres wide at the ordinary			
	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.					
	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</u> <u>day</u> , and the periods during which water will be extracted.						
	of Water Use ated 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		
Drinki	ng/Washing	Melted ice	<3	Feb 4, 2023 to Feb 3, 2024		

(	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.
	For a Recreation undertaking, any deposit of sewage to a sump.
$\boxtimes$	For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.

**QUANTITY AND QUALITY OF WASTE INVOLVED** – For each type of waste indicated in Block 12, describe the quantity in cubic metres/day, measures to avoid or mitigate adverse impacts, and periods of deposition.

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
Sewage – Human Waste	<0.02	Sump located >100m away from water source and buried before leaving camp	Feb 4, 2023 to Feb 3, 2024
Grey Water – Dish Water	<0.1	Sump located >100m away from water source and buried before leaving camp	Feb 4, 2023 to Feb 3, 2024

Solid Waste –	0	All garbage and	Feb 4, 2023 to		
Garbage		other solid waste	Feb 3, 2024		
		will be transported back to town			
		(Sanikiluaq) for			
		disposal			
14. SIGNATURE					
I,Joel Heath given on this form is, to the		(print name), certification (print name), certificati	ify that the information		
	× Yes	□No			
		OR			
I,representative of the Applic		(print name), as a			
representative of the Applic information given on this fo	rm is, to the best of my kno	wledge, correct and comple	, certify that the ete.		
	☐Yes	□No			
I certify that the Nunavut Pl Nunavut Land Claims Agre-		use planning requirements	under Article 11 of the		
	× Yes	□No			
I certify that the Nunavut Impact Review Board's development impact review requirements 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	□ 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	□ 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 or deposit of waste will not substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Lands.					

		× 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 <i>Nunavut Waters Nunavut Surface Rights Tribunal Act</i> (Act) if their use of these waters were to be adversely affected by an applicant for a licence.					
		× Yes	□No		
I certify undert		d for another use of	water, or deposit of waste in respect of the proposed		
		× Yes	□ No		
	read and agree to comply wit Inavut Waters Regulations:	th the following cond	litions outlined in sections 4(3), 5(4), 5(5) and 6 of		
1.	In the case of an applicant who hathe applicant shall respect the prio or deposit.	as a mineral right and wh rity conferred on Inuit by	o intends to use waters or deposit waste in relation to that right, section 62 of the <i>Act</i> as if that applicant had a licence for the use		
2.			ny alteration to the bed or banks of a watercourse whose waters ig the operation of the undertaking.		
3.	No waste is to be deposited to sur	face water or within 31 m	etres 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.	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>				
6.	<ul> <li>6. An applicant who is authorized under the Regulations to use waters or deposit waste without a licence shall: <ul> <li>a. maintain accurate and detailed books and records of: <ul> <li>i. the quantity of water, in cubic metres, used each day,</li> <li>ii. the quantity, in cubic metres, of waste deposited each day,</li> <li>iii. the type of waste deposited each day,</li> <li>iv. where the waste is deposited,</li> <li>v. the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,</li> <li>vi. the methodology used to calculate or determine the information referred to in items (i) to (iv), and</li> <li>vii. the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.</li> </ul> </li> <li>b. 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;</li> <li>c. 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;<sup>b</sup> and</li> <li>d. keep the books and records for two years after submitting the report describing the restoration of the site of the undertaking.</li> </ul> </li> <li>Notes:  <ul> <li>a) A site need not be restored prior to the end of the period authorized for the 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</li> </ul> </li> </ul>				
	approval for a use of wa	t submit the report referre ter or deposit of waste w	ed to in Item 6 (c), to the Board if the applicant obtains the Board's thout a licence, or a licence for a use of water or deposit of er the last day of the period authorized for the use or deposit.		
		× Yes	□No		
			the use of water or deposit of waste without a he day on which the Board approves the Application.		

	Ph.D. Executive		
<u> </u>			
	<b>x</b> Yes	□No	
	answered "No" to any of the above or to the use of water or deposit of		is required from the
	<b>x</b> Yes	□No	
•	authorized until the Board approves nce with the conditions set out in the	• •	ly valid as long as