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## 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)  Anissa Merzouk Amundsen Science, Université Laval, 1045 av. de la Médecine, room 3432, Quebec City, QC, G1V0A6, Canada  Phone:581-994-6356	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)  Phone: Fax: e-mail:				
Fax:418-656-2334_ e-mail:anissa.merzouk@as.ulaval.ca	(Attach authorization letter)				
	WATER TO BE USED OR THE WASTE TO BE DEPOSITED				
4. NAME OF PROJECT (consistent with the name agencies)	e of the project issued by other regulatory				
Amundsen Science annual expedition onboard the Can-	adian research icebreaker CCGS Amundsen				
5. LOCATION OF UNDERTAKING					
Project Extents (decimal degree format)					
The CCGS <i>Amundsen</i> research icebreaker will be conducting scientific operations in Labrador Sea, Baffin Bay, Lancaster Sound, in the Queen Elizabeth Islands and in Foxe Basin during its 2025 scientific expedition. If time and weather constraints allow, a helicopter will be used to access remote glacial rivers and glaciers. Sampling for river water, glacier ice and melt water will help research teams understand the contaminant levels in the water and their provenance. A maximum of 5 L of water will be collected at each station. Time on site will be kept to a minimum. See next page for a list of stations that could be accessed during the 2025 Expedition. A maximum of 5 glaciers and 10 rivers should be sampled in total.					

Station / River name	Degree North	Degree West	Island
Highest Priority (high c	hance of sampling if goo	d weather)	
Otto Fiord	81° 12.366'N	085° 37.216'W	Ellesmere (glacier)
Antoinette Fiord	80° 51.877'N	076° 53.818'W	Ellesmere (glacier)
D'Iberville Fiord	80° 35.218'N	078° 15.350'W	Ellesmere (glacier)
Cannon Fiord	79° 36.832'N	080° 41.513'W	Ellesmere (glacier)
Good Friday Fiord	78° 44.756'N	091° 02.155'W	Ellesmere (glacier)
EB04	65° 43.560'N	064° 48.300'W	Baffin
EB05	63° 00.420'N	065° 15.180'W	Baffin
EB06	63° 36.180'N	068° 49.380'W	Baffin
Soper River	62° 58.050'N	069° 44.633'W	Baffin
River29	72° 24.660'N	089° 49.320'W	Baffin
River31	70° 02.880'N	092° 28.140'W	Mainland Canada
River21	70° 27.485'N	079° 28.920'W	Baffin
River25	69° 59.024'N	076° 59.458'W	Baffin
River04	68° 24.794'N	082° 31.527'W	Mainland Canada
River26	62° 58.050'N	069° 44.633'W	Baffin
Medium/low priority (ba	ack up locations, if high p	oriority locations are r	not accessible) Baffin
EB02	66° 24.780'N	066° 25.140'W	Baffin
EB03	66° 20.820'N	062° 52.560'W	Baffin
Cantley River	63° 39.360'N	067° 37.740'W	Baffin
River30	71° 55.740'N	090° 01.020'W	Baffin
River03	70° 18.581'N	082° 59.580'W	Baffin
River02	70° 09.061'N	081° 40.686'W	Baffin
River22	70° 24.330'N	078° 41.645'W	Baffin
River23	70° 24.336 N	077° 46.285'W	Baffin
River24	69° 22.877'N	075° 57.360'W	Baffin
River18	68° 57.815'N	075° 00.617'W	Baffin
River17	68° 43.613'N	074° 03.704'W	Baffin
River19	68° 30.316'N	073° 45.615'W	Baffin
River16	68° 02.356'N	073° 43.013 W	Baffin
River15	67° 32.778'N	072° 23.670'W	Baffin
River27	66° 40.200'N	072° 23.070 W	Baffin
River14	66° 38.937'N	072 01.000 W	Baffin
River13	66° 21.281'N	073° 10.920 W	Baffin
River09	65° 55.405'N	073 33.039 W	Baffin
River20	65° 43.214'N	074 04.020 W	Baffin
River10	65° 36.713'N	073° 34.618'W	Baffin
River11	65° 31.369'N	073° 56.100'W	Baffin
River08	65° 16.265'N	075° 50.048'W	Baffin
River12	65° 25.488'N	075 50.046 W	Baffin
River05	68° 53.375'N	076 45.976 W 081° 58.025'W	Mainland Canada
River07	67° 19.807'N	081° 18.508'W	Mainland Canada  Mainland Canada
River06	67° 00.488'N	081° 50.011'W 070° 46.209'W	Baffin
River00	63° 10.019'N	070 40.209 W	Baffin

River01	62° 54.511'N	070° 30.024'W	Baffin
River28	62° 38.580'N	069° 14.760'W	Baffin

Cam	p Location(s) (decimal degree format)			
	No camp.			
	e of the Water Management Area in which the Undertaking is located. (Please see Appendix D of Guide):			
Gree Sverd North Frobi Huds Kingd Giffo Macl Gulf	the highest priority sampling site:  ally Fiord Watershed drup Islands Watershed mern Cumberland Sound Watershed isher Bay Watershed son Strait Watershed ora Watershed rd Watershed Donald Watershed of Boothia Watershed tern Brodeur Peninsula Watershed			
6.	Previous Approvals or Licences Associated with Undertaking ("Type A", "Type B" or Approval Without a Licence)			
	□ NA or			
	Previous Licence/Approval Number:Approval without license # 8WLC-NWP2425			
	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.	<b>CLASSIFICATION OF UNDERTAKING</b> - Indicate the classification of undertaking by checking one of the following boxes.			
	☐ Industrial ☐ Agricultural   ☐ Mining ☐ Recreational   ☐ Conservation ☐ Power   ☐ Municipal ☒ Other: (describe)			
	Research project about glaciers, meltwater and Arctic rivers.			
	See Appendix C of the Guide for descriptions of classifications 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.			
take	r sampling: The sampling sites will be accessed using the ship's helicopter. Sampling at each river will approximately one hour. One scientist will wade into the river and collect water sample with a syringe or all pump (total volume: 5L max). All samples will be brought back on the ship, refrigerated or frozen, and			

analyzed in laboratories after the expedition. No chemicals will be used on the field, and no waste will be produced. Glacier sampling: The ship's helicopter will be used to conduct aerial surveys of the outlet glaciers and adjacent ice cap regions. On-ice operations on the glaciers could include ice and melt water sampling. Ice would be collected with an ice corer, and meltwater would be collected with a syringe, a water bottle or a 9. SCHEDULE - Applicants are advised that approvals without a licence are issued for a one year term. Proposed Start Date: \_7 August 2025\_ Proposed Completion Date: \_20 October 2025 (Day/Month/Year) (Day/Month/Year) The period proposed here covers Leg 3 to 5 of the 2025 Amundsen Expedition. Glacier sampling would only take place during Leg 4 (4 September to 2 October). 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 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 day</u>, and the periods during which water will be extracted.

For highest priority sampling sites.

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
other than power undertaking, less than 50 m³ per day	EB04, EB05, EB06	0,005 m <sup>3</sup> (5L)	Once between 7 August and 4 September 2025
other than power undertaking, less than 50 m³ per day	Otto Fiord, Antoinette Fiord, D'Iberville Fiord, Cannon Fiord, Good Friday Fiord	0,005 m <sup>3</sup> (5L)	Once between 4 September and 2 October 2025
other than power undertaking, less than 50 m³ per day	River29, River31, River21, River25, River04, River26 and Soper River	0,005 m <sup>3</sup> (5L)	Once between 2 and 20 October 2025

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.
	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 type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.							
	the quantity in cubic metro	OLVED – For each type of es/day, measures to avoid o					
Type of Waste indicated in Block 12	indicated in Block deposited in cubic or mitigate any which waste will						
No deposit of waste							
14. SIGNATURE							
I,Anissa Merzouk the best of my knowledge,		e), certify that the information	on given on this form is, to				
	⊠ Yes	□No					
		OR					
I, (print name the information given on the		sentative of the Applicant, _ y knowledge, correct and c					
	☐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 Review Board's development impact review requirements under Article 12 of the NLCA have been met.							
	⊠ 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	
		osed water use or deposit o se whose waters are used.	f waste will not su	bstantially affect the o	quality, quantity or
		⊠ Yes		□No	
		osed water use or deposit o through Inuit Owned Lands		bstantially affect the o	quality, quantity or
		⊠Yes		□No	
would	be entitled to c	osed water use or deposit or ompensation under sections neir use of these waters wer	s 58 or 60 of the <u>/</u>	Nunavut Waters Nuna	vut Surface Rights
		⊠Yes		□No	
I certify undert		is not required for another	use of water, or d	eposit of waste in res	pect of the proposed
		⊠Yes		☐ No	
	read and agree navut Waters F	e to comply with the followir Regulations:	g conditions outli	ned in sections 4(3),	5(4), 5(5) and 6 of
1.	In the case of an the applicant sha or deposit.	n applicant who has a mineral righ all respect the priority conferred on	t and who intends to u Inuit by section 62 of	se waters or deposit waste the <i>Act</i> as if that applicant	e in relation to that right, had a licence for the use
2.		oe taken prior to using water to min and the measures shall be maintain			tercourse whose waters
3.	No waste is to be	e deposited to surface water or wit	hin 31 metres of the o	rdinary high water mark of	any body of water.
4.	The waste shall hydrocarbon she	not contain more than 15 milligram een.	s per litre of petroleur	n or petroleum product and	d must not have a visible
5.	waste without a	re or abandonment of the underta licence, whichever occurs first, the vater was used or the waste was d	site shall be restored		
6.	a. maint ii ii v v vi b. keep t availal c. submit the sit aband d. keep t undert	•	nd records of: metres, used each day of waste deposited each ance, or substances, in allate or determine the to avoid or mitigate ar of the undertaking duri or on request; a summary description after the earliest of (i eriod authorized for the	or the deposited solid or liquinformation referred to in it may adverse impacts of the cong the period of its operation and supporting photograp the day on which the under use or deposit without a light condition.	uid that has the effect of ems (i) to (iv), and deposit of waste. on and make them hs of the restoration of lertaking is closed or icence; <sup>b</sup> and
	Notes:				

Name (Pri	nt)	Title (Print)	Signature	Date
Anissa Merzou	k Ma	arine Research Coordinator	Arisa Mergub	2 avril 2025
		⊠Yes	□ No	
		d "No" to any of the abov se of water or deposit of	re statements a water licence is re waste.	equired from the
		⊠ Yes	□No	
licence will be a The use or depo	uthorized for a perionsit is not authorized	od of one year after the	use of water or deposit of waste day on which the Board approves es the Application and it is only va the declaration above.	the Application.
		⊠Yes	☐ No	
	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.			
	,	quired by Item 5, if the Board is	eriod authorized for the water use or depossues a licence for the use of water or dep	