



P.O. Box 119

GJOA HAVEN, NU X0B 1J0

TEL: (867) 360-6338

FAX: (867) 360-6369

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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 Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence  
(Guide) in completing this Application.

<b>APPLICATION NO:</b> (for NWB use only)	
<b>1. APPLICANT CONTACT INFORMATION</b> (name, address)  Mary Sanborn-Barrie Research Scientist Natural Resources Canada Geological Survey of Canada  Phone: (613) 995-4793 Fax: (613) 995-4793 e-mail: mary.sanborn-barrie@canada.ca	<b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)  Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter)
<b>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</b> Crown Land located 75 km north of the community of Taloyoak, and located 4 km west of south end of Sanagak Lake	
<b>4. NAME OF PROJECT</b> (consistent with the name of the project issued by other regulatory agencies) GEM-2 Boothia-Somerset: Integrated Geoscience Along the Northwest Passage	
<b>5. LOCATION OF UNDERTAKING</b>  <b>Project Extents (decimal degree format)</b> Single basecamp location, co-ordinates below NW _____ NE _____ SE _____ SW _____	

**Camp Location(s) (decimal degree format)**

70° 11.293' N

93° 45.896' W

**Name of the Water Management Area in which the Undertaking is located.** (Please see Appendix D of the Guide):

watershed 34 – Gulf of Boothia watershed

**6. Previous Approvals or Licences Associated with Undertaking** ("Type A", "Type B" or Approval Without a Licence)

NA

Previous Licence/Approval Number: \_\_\_\_\_

*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  
☐ Conservation  
☐ Municipal

- ☐ Agricultural  
☐ Recreational  
☐ Power

X Other: **Geoscience Research project**

See Appendix C of the Guide for descriptions of classifications of undertakings.

**8. DESCRIPTION OF UNDERTAKING AND EQUIPMENT USED** – Provide a brief description of the undertaking including a description of any equipment that will be used in using water or depositing waste.

This research involves bedrock mapping by foot traverse of a 17,500 km<sup>2</sup> region for which knowledge stems from 1962 in order to significantly upgrade the outdated geoscience framework of this area, and provide relevant data and knowledge to this remote region of Nunavut. Operations will take place from a low-impact, temporary, tent camp to be constructed with material brought in and flown out when completed. Water is required for personal washing and consumption only and is to be pumped by a gasoline-powered, small, Honda water pump with flexible hose equipped with screen, once daily.

**9. 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 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 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 m<sup>3</sup> or less.
- ☒ For an undertaking other than a Power undertaking and for any use of water less than 50 m<sup>3</sup> per day.

**10. 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 indicated in Block 9	Name of water source	Estimated quantity of water to be used in cubic metres per day	Periods during which water will be extracted
Domestic		Less than 5 cubic metres per day	July 5 – August 18, 2017

**11. 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.
- ☐

For an Agricultural undertaking, any deposit of sewage to a sump.

☐ For a Recreation undertaking, any deposit of sewage to a sump.

X For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump. In this application water is for domestic personal use only.

**12. QUANTITY AND QUALITY OF WASTE INVOLVED** – For each type of waste indicated in Block 11, describe the quantity in cubic metres/day, measures to avoid or mitigate adverse impacts, and periods of deposition.

Type of Waste indicated in Block 11	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited
Domestic (grey water)	<2 m <sup>3</sup> per day	Filter through active soil horizon via contained pit	July 5, 2017 – August 18, 2017
Sewage (human waste)	30 litres per day (1.35 cubic metres total for project)	Decay naturally in pit (outhouse type)	July 5, 2017 – August 18, 2017
Combustible wastes	1 utility garbage can per day	Air-tight burning; fly burn barrel out of site to municipal dump	July 5, 2017 – August 18, 2017
Non-combustible wastes	3 10-gallon metal pails of glass and metal total for project	Flatten cans and crush glass; pack into metal sample pails with lids; fly out to municipal recycling facility	July 5, 2017 – August 18, 2017
Hazardous waste	AA batteries	Fly out to facility in Ottawa	July 5, 2017 – August 18, 2017

**13. SIGNATURE**

I, **Mary Sanborn-Barrie**, certify that the information given on this form is, to the best of my knowledge, correct and complete.

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 Planning Commission's land use planning requirements under Article 11 of the Nunavut Land Claims Agreement have been met.

☒ Yes, NPC file #148402

☐ No

I certify that the Nunavut Impact Review Board's development impact review requirements under Article 12 of the NLCA have been met.

☒ Yes, NIRB has recommended that a review of Geological Survey of Canada's (GSC) **GEM-2 Boothia-Somerset: Integrated Geosciences along the Northwest Passage** (NIRB file 17YN008) is not required pursuant to paragraph 92(1)(a) of the *Nunavut Planning and Project Assessment Act* (NuPPAA).

Subject to the Proponent's compliance with the terms and conditions as set out in the screening decision, the NIRB is of the view that the project proposal is not likely to cause significant public concerns, and it is unlikely to result in significant adverse environmental and social impacts

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 9.

☒ 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 11.

☒ 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 *Nunavut Waters Nunavut Surface Rights Tribunal Act* (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 *Nunavut Waters Regulations*:

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 *Act* 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.