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NUNAVUT WATER BOARD
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WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ New ☐ Amendment ☐ Renewal ☐ Assignment

LICENCE NO:

(for NWB use only) NWB2DAR

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE

Dr. Hamish A. Sandeman
626 Tumiit Building, P.O. Box 2319
Iqaluit, Nu X0A 0H0

Phone: (867) 979-3539

Fax: (867) 979-0708

e-mail: hsandema@nrcan.gc.ca

2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)

Same as left

Phone:

Fax:

e-mail:

Nunavut Water
Board

APR 14 2004

Public Registry

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)

Camp location: Southeastern side of Lake 899 in NTS 56N (see Appendix 1)

Latitude: 67°33.08'N Longitude: 92°40.40' W

NTS Map No.: NTS 56N

Scale: 1:250,000

Study Area includes NTS 56N, 56O(N).

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

Purpose: This is the first year of a proposed 3-year project in the Boothia Mainland region south of Taloyoak. The project will focus on documenting the bedrock geology and will upgrade the knowledge base for surficial materials (i.e. including those deposited by glaciers during the last ice age) and will provide baseline geological maps for the region. These investigations represent the first modern studies of their kind and the data obtained will be instrumental in helping to reduce the risk for mineral exploration. We are optimistic that this research will stimulate the mineral exploration industry and improve the job potential and socio-economic conditions in nearby communities.

Proposed duration of field work: The 2004 field season will begin on July 1st and end on August 25th.

Study area: The entire study area encompasses NTS 56N, 56O(N) and parts of 57A, B, C, D. During the 2004 field season, work will focus on the NTS 56N and NTS 56O(N) map sheets.

Activities: The work will be accomplished by ground traverses (on foot) from helicopter drop-off zones. Approximately 8 field researchers will set out in a helicopter from the base camp to their drop-off zones each morning; they will be picked up and returned to the base camp by helicopter in the evenings.

Base Camp: The base camp will consist only of canvas tents and light equipment (stove, refrigerator, generator etc.). There will be a total of 15 people stationed at the camp throughout the 2004 field season.

Transportation: Camp mobilization and demobilization will be accomplished through Twin Otter support. Movement of

people to and from their ground traverses will be accomplished through the use of a Bell 206L helicopter.

Fuel: The oven/stove, refrigerator and freezer will be powered by propane. The generator will be powered by gasoline and will serve only as a backup to the solar panels recharging batteries that will run the office equipment. Heaters and the helicopter will utilize Jet B fuel. Portable stoves and lanterns will use white gas.

Remediation: Sewage and grey water will be buried. Flammable garbage (organics) will be burned. Any non-flammable garbage such as metal cans and glass will be crushed and shipped at the cost of the project, to appropriate community-based, waste-storage facilities.

5. TYPE OF UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")

- | | |
|--|--|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Remote/Tourism Camps |
| <input type="checkbox"/> Mine Development | <input type="checkbox"/> Municipal |
| <input type="checkbox"/> Advanced Exploration | <input type="checkbox"/> Power |
| <input type="checkbox"/> Exploratory Drilling | <input checked="" type="checkbox"/> Other (describe): <u>Base camps for geological mapping</u> |

6. WATER USE

- | | |
|---|--|
| <input checked="" type="checkbox"/> To obtain water for camp use | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To modify the bed or bank of a watercourse | <input type="checkbox"/> Flood control |
| <input type="checkbox"/> To alter the flow of, or store, water | <input type="checkbox"/> Other (describe): _____ |
| <input type="checkbox"/> To cross a watercourse | |

7. QUANTITY OF WATER INVOLVED (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)

300 litres per day for domestic use.

8. WASTE (for each type of waste describe: composition, quantity, methods of treatment and disposal, etc.)

- | | |
|--|---|
| <input checked="" type="checkbox"/> Sewage Burial | <input type="checkbox"/> Waste oil |
| <input checked="" type="checkbox"/> Solid Waste Back Haul to | <input checked="" type="checkbox"/> Greywater Burial |
| <input type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input type="checkbox"/> Bulky Items/Scrap Metal | <input checked="" type="checkbox"/> Other (describe): <u>Organic wastes (e.g. food-scrap) will be burned.</u> |

9. PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)

Land Use Permit

- | | | | |
|-----------------------------|---|-----------------------------|-----------------------------|
| DIAND | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If no, date expected: |
| Kitikmeot Inuit Association | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | If no, date expected: |
| Commissioner | <input type="checkbox"/> Yes | <input type="checkbox"/> No | If no, date expected: _____ |

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

NIRB Screening ☐ Yes ☐ No If no, date expected _____

Minimal Impact

11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

Minimal Impact, if any at all.

11. (Continued)

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

N/A

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

N/A

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee \$30.00 (c/o of Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

15. PROPOSED TIME SCHEDULE

☐ Annual (or) ☒ Multi Year

Start Date: July 1st, 2004 Completion Date: August, 2006 (approx.)

Office Manager

Name (Print) Hamish A. Sandeman Title (Print) Research Scientist Signature Hamish Sandeman
Date March 30, 2004

For Nunavut Water Board use only

APPLICATION FEE

Amount: \$ _____

Receipt No.:

WATER USE DEPOSIT

Amount: \$ _____

Receipt No.:

[illegible][illegible]

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2004Г. 56N 44L 56O 24Q 9Г

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BOOTHIA MAINLAND INTEGRATED GEOSCIENCE PROJECT: ECONOMIC POTENTIAL THROUGH NEW BEDROCK MAPPING AND SURFICIAL GEOSCIENCE UPGRADING

This is a 3-year geological mapping project on the Boothia Mainland area immediately south of Taloyoak that is designed to evaluate the economic potential of the region through framework bedrock geological mapping and upgrading of the surficial geoscience information in the following NTS 1:250,000-scale map areas.

56N (Darby Lake): 56O north (Arrowsmith River): and parts of 57A, B, C, D.

2004 study area: 56N and 56O north

Field Work: July 1 to August 25, 2004. Move-in: July 1-4. Field work: July 4-August 20. Restoration and Clean-up: August 21-25. Move-out: August 25.

Staging area: Gjoa Haven

Base Camp: 13 sleeping tents, two kitchen tents, a storage tent and an office tent would be established on a gravel terrace on an unnamed lake 180 km southeast of Gjoa Haven (see attached map). Machinery is limited to: a helicopter (stationed well away from the lake); and Honda generators to power computers. The camp would be completely assembled and disassembled at the start and end of the field season. Refuse (fuel drums, propane cylinders, solid garbage) will be removed to the Gjoa Haven municipal garbage disposal facility.

Daily activities: Foot traverses with helicopter drop-offs and pick-ups; bedrock sampling (fist-sized pieces); compilation of data with computers; no chemicals required.

Helicopter usage: Drop-offs and pick-ups of traverse teams; sample collection; equipment and supplies movement; personnel moves to/from main camp.

Fuel: 140 sealed 205 litre drums of helicopter fuel would be moved by Twin Otter from the airstrip at Gjoa Haven (sealift drop-off point 2003) to the main camp before the start of the season. Fuel drums would be stored away from any surface drainage on a gravel pad. All drums (empty and full) will be removed by Twin otter at the end of the field season and transported to Gjoa Haven for re-use or disposal.



