



January 20, 2005

Project No.: LFM (1.14)

VIA E-MAIL (LICENSING@NWB.NUNAVUT.CA)

Ms. Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Dear Ms. Beaulieu:

RE: Request for Amendment to Water Use Licence (#NWB5FOX0406) to Include the Landfill Monitoring at the Former FOX-4, Cape Hooper DEW Line Site

UMA Engineering Ltd. is submitting the enclosed water use licence amendment for the landfill monitoring at the former FOX-4, Cape Hooper DEW Line Site. The amendment is being submitted on behalf of Defence Construction Canada and the Department of National Defence.

If you have any questions or comments, please do not hesitate to contact the undersigned at 403-270-9220.

Sincerely,

UMA ENGINEERING LTD.

A handwritten signature in black ink, appearing to read 'Eva Schulz', with a stylized flourish at the end.

Eva Schulz, P.Ag.
Environmental Scientist
eschulz@umagroup.com

Encl. Water Use Licence Amendment
Post - Construction Landfill Monitoring Program

cc: Phil Warren, DCC
Jim Wall, NWB



P.O. Box 119
GJOA HAVEN, NU X0E 1J0
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Νυναωυτ Ωατερ Βοαρδ
NUNAVUT IMALIRIYIN

WATER LICENCE APPLICATION FORM

Application for: (check one)

New ☒ Amendment Renewal Assignment

LICENCE NO:

(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE

Phil Warren, P.Eng
Environmental Officer
Defence Construction Canada Ltd.
Constitution Square, Suite 1720
350 Albert Street
Ottawa, Ontario K1A 0K3

Phone: 613-998-7288
Fax: 613-998-0468
e-mail: Philip.Warren@dcc-cdc.gc.ca

as administered by:
Eva Schulz, P.Ag., Environmental Scientist
2540 Kensington Road NW
UMA Engineering Ltd.
Calgary, Alberta T2N 3S3

Phone: 403-270-9200
Fax: 403-270-0399
e-mail: eschulz@umagroup.com

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

Phone: _____
Fax: _____
e-mail: _____

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

The FOX-4 Cape Hooper site is located on the east coast of central Baffin Island in Nunavut.

Latitude: 68°26'N Longitude: 66°44'W NTS Map No. 27B Scale 1:50,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

The purpose of the project is to collect sufficient information to assess the performance of the landfills from a geotechnical and environmental perspective. The landfill monitoring plan specifies the requirements for visual inspection, and chemical and thermal monitoring of landfills.

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): landfill monitoring, including the collection of soil and groundwater samples. |

6. WATER USE

- | | |
|---|---|
| <input type="checkbox"/> To obtain water | <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 checked="" type="checkbox"/> Other (describe): to obtain groundwater samples |
| <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 quantity to be returned to source)

It is estimated that the quantity of water to be used will be a maximum of 3000 litres/day. Water from the existing water supply lake will be pumped into a portable water tank. No water will be returned to the source.

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

- | | |
|--|---|
| <input checked="" type="checkbox"/> Sewage | Waste oil |
| <input type="checkbox"/> Solid Waste | <input checked="" type="checkbox"/> Greywater |
| <input type="checkbox"/> Hazardous | Sludges |
| <input type="checkbox"/> Bulky Items/Scrap Metal | Other (describe): _____ |

Sewage from the camp will be deposited in a pit-toilet. Once the work at the site is completed, the pits will be backfilled with granular material stockpiles from excavation of the pits. Greywater will be deposited into a sump and buried at the end of the program.

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

Land Use Permit

DIAND ☒ Yes ☐ No If no, date expected _____

The land use permit number is N2004X0016.

Regional Inuit Association ☐ Yes ☐ No If no, date expected _____

Commissioner ☐ Yes ☐ 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.

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?

N/A

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?

N/A

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

The contract for the next phase of this work has not yet been tendered or awarded. Therefore, the names, addresses and functions of the contractors and sub-contractors are not available at this time.

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

A full environmental clean up of the site was completed in 1999. No further studies have been completed.

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. Because the application is being submitted in behalf of a federal proponent, no application fees are required.

15. PROPOSED TIME SCHEDULE

☐ Annual (or) ☒ Multi Year


Start Date: July 2005 Completion Date: October 2020

Eva Schulz

Environmental Scientist

Name (Print)

Title (Print)



Signature

January 20, 2005

Date

For Nunavut Water Board use only

APPLICATION FEE

Amount: \$ _____

Receipt No.:

WATER USE DEPOSIT

Amount: \$ _____ Receipt No.: