

UMA Engineering Ltd.
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February 5, 2007

File Name: FOX-5 (3.6)

Richard Dwyer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Dear Richard:

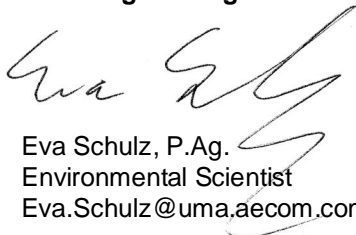
Re: Water Use License Application for the Completion of the Landfill Monitoring Program at the former FOX-5, Broughton Island DEW Line Site

UMA Engineering Ltd. is submitting the enclosed water use license application for the landfill monitoring program at the former FOX-5, Broughton Island DEW Line Site. The project was previously screened and approved by the NWB (1BR-QIK0207). The application 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.



Eva Schulz, P.Ag.
Environmental Scientist
Eva.Schulz@uma.aecom.com

EMS

Encl.

cc: Nahed Farah, DCC



P.O. Box 119
GJOA HAVEN, NU X0B 1J0
TEL: (867) 360-6338
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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE APPLICATION FORM

Application for: (check one)

☐ New ☒ **Renewal** ☐ Amendment ☐ Assignment ☐ Cancellation

LICENCE NO:

(for NWB use only)

<p>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</p> <p>Nahed Farah, P.Eng Associate Project Manager Defence Construction Canada Ltd. Constitution Square, Suite 1720 350 Albert Street Ottawa, Ontario K1A 0K3</p> <p>Phone: 613-998-7917 Fax: 613-998-0468 e-mail: Nahed.Farah@dcc-cdc.gc.ca</p> <p>as administered by: Eva Schulz, P.Ag., Environmental Scientist 2540 Kensington Road NW UMA Engineering Ltd. Calgary, Alberta T2N 3S3</p> <p>Phone: 403-270-9220 Fax: 403-270-0399 e-mail: Eva.Schulz@uma.aecom.com</p>	<p>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</p> <p>_____</p> <p>Phone: _____ Fax: _____ e-mail: _____</p>
<p>3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)</p> <p>Latitude: (67°33' " N) Longitude: (63°49' " W) NTS Map Sheet No. <u>16M</u> Scale: <u>1:50,000</u></p>	
<p>4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)</p> <p>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.</p>	
<p>5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold")</p>	

- | | |
|--|--|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling) | <input type="checkbox"/> Conservation |
| <input type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Recreational |
| <input type="checkbox"/> Power | <input checked="" type="checkbox"/> Miscellaneous (describe below): |

Landfill monitoring, including the collection of soil and groundwater samples.

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings

6. WATER USE

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

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

Water use ☒ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

Water returned to source
0 m³/day

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

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

There are community services available in Qikiqtarjuaq that will be utilized by the landfill monitoring staff. There is no waste expected from the landfill monitoring program.

9. OTHER 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 _____
Regional Inuit Association	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If no, date expected _____
Commissioner	<input type="checkbox"/> Yes	<input checked="" 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 _____**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

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 BEGINSupplementary Questionnaire (where applicable: see section 5) ☐ Yes ☒ No If no, date expected _____Inuktitut and/or Inuinnaqtun/English Summary of Project ☒ Yes ☐ No If no, date expected _____Application fee of \$30.00 (Payee Receiver General for Canada) ☐ Yes ☒ No If no, date expected _____Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)☐ Yes ☒ No If no, date expected _____**15. PROPOSED TIME SCHEDULE** (unless otherwise indicated, the NWB will consider the application for a five (5) year term)☐ one year or less (or) ☒ Multi YearStart Date: July 1, 2007 Completion Date: September 30, 2031Eva Schulz
Name (Print)Environmental Scientist
Title (Print)

Signature

February 5, 2007
Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____