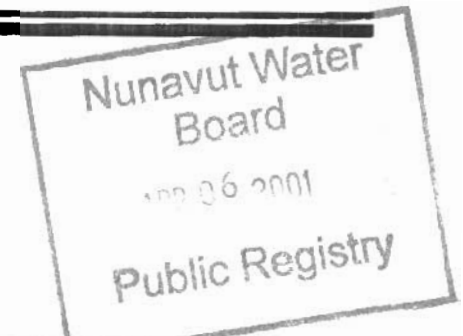




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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN

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 Pete Quinn, M.Eng., P.Eng., DLCU Project Manager Defense Construction Canada Ltd. Place de Ville, Tower B 112 Kent Street, 17 th Floor Ottawa, Ontario K1A 0K3 Phone: 613-998-9523 Fax: 613-998-1061 e-mail: quinnpe@dcc-cdc.gc.ca as administered by: Eva Schulz, P.Ag., Environmental Scientist 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) FOX-5, Broughton Island is one of the 21 DND Distant Early Warning (DEW) Line sites to be cleaned up under the DEW Line Clean Up Project. FOX-5 is located in the Baffin District of Nunavut. The site is near the eastern edge of Broughton Island, a small island off the east coast of the Cumberland Peninsula area of northeastern Baffin Island. The upper site is situated on a high point overlooking Davis Strait and is connected by a 9 km road to the community of Qitiktarjuaq (formerly Broughton Island), which is on the western shore of the island. The lower site is located at a beaching area southwest of the community. Refer to Figure 1 and 2 in Appendix A for the site location. Latitude: <u>67°33'N</u> Longitude: <u>63°49'W</u> NTS Map No. <u>26P/9</u> Scale <u>1:50,000</u>	
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) The purpose of the project is to complete the environmental cleanup of the former FOX-5, Broughton Island DEW Line site. The main components of the undertaking include the following: <ul style="list-style-type: none">• Demolition and disposal of infrastructure no longer required for the operation of the North Warning System Short Range Radar site;	

- Excavation and disposal of contaminated soils;
- Closure of one existing landfill;
- Excavation of one existing landfill;
- Development of two new landfills for the disposal of non-hazardous site and demolition wastes from the cleanup of FOX-5;
- Development and operation of a treatment area for hydrocarbon contaminated soil; and
- Development of a new landfill for the disposal of all Tier II contaminated soils.

The Project Description for the Clean Up of the FOX-5, Broughton Island DEW Line site is in Appendix B.

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

- | | |
|---|---|
| <input type="checkbox"/> Industrial | <input checked="" 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 type="checkbox"/> Other (describe): please see attached. |

6. WATER USE

- | | |
|---|--|
| <input checked="" 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 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)

It is estimated that the quantity of water to be used for running the camp, including contractor use, will be 30,000 litres/day. The camp requirements are approximately 12,000 litres/day, and contractor use is estimated at 18,000 litres/day (contractor use will vary depending on daily activities). Water from the existing water supply lake will likely be pumped into a water tank on a truck using a portable pump and then transferred to a water storage tank at the Camp. As the contract for the work has not yet been awarded, the size of the tank is not available. 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 | <input type="checkbox"/> Waste oil |
| <input checked="" type="checkbox"/> Solid Waste | <input checked="" type="checkbox"/> Greywater |
| <input type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input checked="" type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Other (describe): _____ |

Camp sewage will be buried on site a minimum of 100 metres from the camp, any natural drainage course or water body, and 450 m away from any water body which supports aquatic life. Greywater from camp operations will be discharged to a pit and buried a minimum of 30 metres from the camp, or any natural drainage course or water body. Domestic garbage will be either landfilled on site, or incinerated, with the residual waste buried in an on-site landfill, located within the DND boundary. All excess fuels, camp equipment and facilities will be removed from the site after completion of the clean up activities. It is not anticipated that the clean up activities will generate any hazardous wastes. Hazardous wastes already

existing at the site will be dealt with according to Section 5.15 of the Environmental Protection Plan in Annex A of the Project Description in Appendix B. Empty barrels and fuel drums will be disposed of according to the DEW Line Clean Up – Barrel Protocol, a copy of which has been included in Appendix C.

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 _____

A Land Use Permit Application has been submitted, but has not yet been approved.

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 _____

A project description and environmental screening report have been submitted to NIRB. NIRB has stated the screening is to be completed April 2, 2001.

The Environmental Screening Report in Appendix D provides a list of the predicted environmental impacts of the undertaking and the proposed mitigation measures.

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?

No.

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)

The names, addresses and functions of the contractors and sub-contractors involved in the clean up of the FOX-5 DEW Line site are not available at this time. A list containing this information will be provided following award of the clean up contract.

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

During the radar upgrade program in the early 1990's, prior to the start of the DEW Line Clean Up, a number of environmental and engineering investigations were conducted at the DEW Line sites. The objectives of these studies were as follows:

- To identify the nature and extent of chemical contamination at the sites;
- To determine the possible impact of these contaminants on the Arctic ecosystem in general and the food chain in particular; and
- To develop practical environmental clean up strategies appropriate for the Arctic.

See pages 3 and 9 of the Project Description in Appendix B for the previous investigations and pages 44-45 for the complete list of information sources.

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 2001 Completion Date: October 2003

Eva Schulz

Environmental Scientist

Name (Print)

Title (Print)

Signature

Date

April 2/01

For Nunavut Water Board use only

APPLICATION FEE

Amount: \$

Receipt No.:

WATER USE DEPOSIT

Amount: \$

Receipt No.: