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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

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

Phone: 613-998-7288
Fax: 613-998-1061
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 CAM-4, Pelly Bay DEW Line site is located on the west side of the Simpson Peninsula in the Nunavut Territory. The upper site is situated on a hill about 320 m above sea level. The lower site is located on the western shore of Barrow Lake, approximately 5 km from the upper site.

Latitude: 68°27'N Longitude: 89°45'W NTS Map No. 57A Scale 1:250,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

The purpose of the project is to complete the environmental cleanup of the CAM-4 site, which started in 2001. The components of the cleanup which remain to be completed are:

- Complete the demolition and removal of the remaining facilities;
- Continue the removal of contaminated soils;
- Complete the remediation and leachate containment of the Upper Site Landfill;

- Continue the removal and disposal of surface debris; and,
- Demobilize the camp and equipment from the site.

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

___ Industrial
___ **Mine Development**
___ **Advanced Exploration**
___ **Exploratory Drilling**
___**Remote/Tourism Camps**
___ **Municipal**
___ Power
✓ Other (describe): Environmental clean up.

6. WATER USE

✓ To obtain water
___ To modify the bed or bank of a watercourse
To alter the flow of, or store, water
___ To cross a watercourse
___To divert a watercourse
___ Flood control
___ Other (describe)

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 50,000 litres/day. The camp requirements are approximately 15,000 litres/day, and construction use is estimated at 35,000 litres/day. Currently, the contractor is obtaining water from the Hamlet of Kugaruuk. Construction use will vary depending on daily activities, but typically includes dust suppression and granular material wetting. No water will be returned to the source.

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

✓ Sewage
✓ Solid Waste
Hazardous
✓ Bulky Items/Scrap Metal
Waste oil
✓ Greywater
✓ Sludges
Other (describe):_____

Camp sewage is collected and disposed of by the Hamlet of Kugaaruk. Greywater from camp operations is discharged to a pit and buried a minimum of 30 metres from the camp, or any natural drainage course or water body. Domestic garbage is incinerated in an enclosed container and the residual waste buried in an on-site landfill. All excess fuels, camp equipment and facilities will be removed from the site after completion of the clean up activities. The clean up activities do not generate any hazardous wastes.

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 _____

Land Use Permit #N2004X0012, expires April 28, 2006.

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.

The Project Description was submitted to and approved by the NIRB in 2001. Amendments to the original application were submitted and approved by the NIRB in July 2003. These documents provided a summary of the potential environmental impacts and proposed mitigation measures. An updated project status is being provided for the work completed to date.

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?

N/A

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

The contractors for the work at CAM-4 are:
Kudlik Construction Ltd.
1519 Federal Road
P.O. Box 727
Iqaluit, NU X0A 0H0

The subcontractors are:
Nunatta Environmental Services Inc.
Building 1052, Unit 3
P.O. Box 267
Iqaluit, NU X0A 0H0

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.

The Project Description, dated October 2000, provided a summary of the previous environmental studies. Amendments to the original application were submitted and approved by the NIRB in July 2003.

14. THE FOLLOWING DOCUMENTS <u>MUST</u> 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: August 2001 Completion Date: October 2007

Eva Schulz	**Environmental Scientist**		
Name (Print)	**Title (Print)**	**Signature**	**Date**

For Nunavut Water Board use only

APPLICATION FEE **Amount: $_____** **Receipt No.:**

WATER USE DEPOSIT **Amount: $_____** **Receipt No.:**