



Effective January 1, 2004

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NUNAVUT WATER BOARD  
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### WATER LICENCE APPLICATION FORM

Nunavut Water  
Board

MAY 25 2005

Public Registry

ED  
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BRD  
EXT.

Application for: (check one)

☒ New ☐ Amendment ☐ Renewal ☐ Assignment

LICENCE NO:

(for NWB use only) NWB4KRR

**1. NAME AND MAILING ADDRESS OF  
APPLICANT/LICENSEE**

Mr. Guntis Rozitis  
Project Officer  
Government of Nunavut  
Department of Public Works and Services  
Bag 200  
Cambridge Bay NU X0B 0C0

Phone: 867-983-4144

Fax:

e-mail: Grozitis@gov.nu.ca

**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)

Approximately 1.5 km south of the Hamlet of Kugaaruk (Pelly Bay), Nunavut. Please refer to Figure 1, attached

Latitude: 68.23° N Longitude: 80.49° W NTS Map No: 057A10 Scale: 1:50,000

**4. DESCRIPTION OF UNDERTAKING** (attach plans and drawings)

Development of a petroleum hydrocarbon contaminated soil treatment facility (Landfarm) for the remediation of contaminated soils to be excavated from the former community bulk fuel storage tank farm site in 2005/2006.

Construction of the landfarm is scheduled to be completed during the summer of 2005.

This facility is located adjacent to the proposed new community sewage lagoon and proposed sanitary landfill.

See Appendix A for further detail

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

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

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings**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): <u>run-off containment</u> |
| <input type="checkbox"/> To cross a watercourse                     |  |

**7. QUANTITY OF WATER INVOLVED** (cubic metres per day including both quantity to be used and quantity to be returned to source)Containment of approximately 1500 m<sup>3</sup> per year. Quality of water to be verified through laboratory analysis for petroleum hydrocarbons prior to discharge.

See Appendix A for further detail

**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 checked="" type="checkbox"/> Other (describe): <u>Precipitation &amp; melt water that has been in contact with petroleum hydrocarbon impacted soil.</u> |                                    |

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

Hamlet of Kugaaruk

Land Use Permit

DIAND ☐ Yes ☒ No If no, date expected \_\_\_\_\_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.)

No significant environmental impact is anticipated. Water from the containment area will be held until lab tests confirm that the quality is acceptable for release. Applicable CCME criteria for the protection of aquatic organisms will be used unless otherwise specified by the regulator. Discharge from the landfarm would be accomplished by pumping the water over the containment berm at a controlled rate. The discharge method will be designed to minimize the potential for erosion by employing rip rap, spray irrigation or other equivalent features. The location of the discharge point will take into consideration the siting of the proposed wastewater lagoon and landfill facilities and any ancillary works such as access roads. Local drainage patterns from the landfarm area lead to St. Peter Bay, although the nature of the local terrain is expected to dissipate the discharge to non-detectable levels before it reaches the bay. The landfarm is located approximately 1.2 kilometers upstream of the bay.

In the event that the containment water does not meet criteria for discharge, it will either be re-circulated onto the soil treatment area or treated through another process prior to re-testing.

See Appendix A for further detail

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?

Due to limited size of the capture area and pre-discharge testing procedures, no substantial impacts on quantity or quality of water are anticipated. In effect, the impounded water will be returned to the same drainage patterns that would have received this water if the landfarm had not been developed.

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)

Kudlik Construction Ltd.  
P.O. Box 121, 1519 Federal Road  
Iqaluit NU X0A 0H0

Prime contractor responsible for facility construction (earthworks)

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

Drawings showing the location of the landfarm and design details are attached.

See Appendix A for further detail

**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 (Payee Receiver General for Canada) ☒ Yes ☐ No If no, date expected \_\_\_\_\_Water Use fee (see Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada) ☐ Yes ☐ No If no, date expected \_\_\_\_\_**15. PROPOSED TIME SCHEDULE**☐ Annual (or) ☒ Multi YearStart Date: August 2004 (construction), August 2005 (operation)Completion Date: Landfarm will be de-commissioned when testing confirms that impacted soil has been remediated to acceptable criteria.David Ediger  
Name (Print)Senior Env. Engineer,  
Title (Print)  
Wardrop Engineering  
SignatureMay 24, 2005  
Date

For Nunavut Water Board use only

**APPLICATION FEE**

Amount: \$ \_\_\_\_\_

Pay ID No.: \_\_\_\_\_

**WATER USE DEPOSIT**

Amount: \$ \_\_\_\_\_

Pay ID No.: \_\_\_\_\_