



Effective June 16, 2006

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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE SCHEDULE III - APPLICATION FORM

Nunavut Water
Board
June 16, 2006
Public Registry

Application for: (check one)

☐ New ☒ Renewal ☐ Amendment ☐ Assignment ☐ Cancellation

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE

Thomas g. Livingston, P.Eng.
Regional Municipal Engineer
Community & Government Services
Government of Nunavut
Helen Magsagak Building
Cambridge Bay, NU X0B 0C0

Phone: 867-983-4156
Fax: 867-983-4123
e-mail: tlivingston@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: (89° 49' W)
NTS Map Sheet No. 057A10 Scale: 1:50,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

On-going operation of a petroleum hydrocarbon contaminated soil treatment facility (Landfarm) for the remediation of contaminated soils which were excavated from the former community bulk fuel storage tank farm site in 2007.

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

- ☐ Industrial
☐ Mining and Milling (includes exploration/drilling)
☐ Municipal (includes camps/lodges)
☐ Power

- ☐ Agricultural
☐ Conservation
☐ Recreational
☒ Miscellaneous (describe below):
Environmental

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

6. WATER USE

- ☐ To obtain water
 ☐ Flood control
☐ To cross a watercourse
 ☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
 ☐ To alter the flow of, or store, water

X Other (describe): run-off containment

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quantity 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
 _____ m³/day

Containment of approximately 1500 m³ per year. Quality of water to be verified through laboratory analysis for petroleum hydrocarbons prior to discharge.

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

- ☐ Sewage
 ☐ Waste oil
☐ Solid Waste
 ☐ Greywater
☐ Hazardous
 ☐ Sludges

X Other (describe): Precipitation and melt water that has been in contact with petroleum hydrocarbon impacted soil

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

DIAND

☐ Yes X No If no, date expected _____

Regional Inuit Association

☐ Yes X No If no, date expected _____

Commissioner

☐ Yes X 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 a splash pad located downgradient from the Landfarm. 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 with granular activated carbon 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 727, 1519 Federal Road
Iqaluit NU X0A 0H0

Prime contractor responsible for facility maintenance

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

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 Included as Appendix A to original application

Inuktitut and/or Innuinaqtun/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 Year

Start Date: 2007

Completion Date: 2012

David Ediger

Environmental Engineer,
Wardrop

David Ediger

November 18, 2009

Name (Print)

Title (Print)

Signature

Date

On Behalf of the Nunavut Department of Community and Government Services

For Nunavut Water Board office use only

APPLICATION FEE

Amount: \$

Pay ID No.

WATER USE DEPOSIT

Amount: \$

Pay ID No.