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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)

<b>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</b>  <u>Wolfden Resources Inc.</u> <u>401-1113 Jade Court</u> <u>Thunder Bay, Ontario, P7B 6M7</u>  Phone: <u>807-346-1668</u> Fax: <u>807-345-0284</u> e-mail: <u>andrew.mitchell@wolfdenresources.com</u>	<b>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</b>  <u>Wolfden Resources Inc.</u> <u>401-1113 Jade Court</u> <u>Thuner Bay, Ontario, P8B 6M7</u>  Phone: <u>807-346-1668</u> Fax: <u>807-345-0284</u> e-mail: <u>andrew.mitchell@wolfdenresources.com</u>
<b>3. LOCATION OF UNDERTAKING</b> (describe and attach a topographical map, indicating the main components of the Undertaking)  Latitude: (67°22'42" N)      Longitude: (110°50'30" W) NTS Map Sheet No. <u>76M/7</u> Scale: <u>1:50,000</u>	
<b>4. DESCRIPTION OF UNDERTAKING</b> (attach plans and drawings)  The main water using components of the undertaking include the operation of a 35 man camp and the supply of water to 3 diamond drill units. The attached map shows the location of the existing camp and the approximate locations of the proposed regions for surface drilling. Proposed drilling will total about 20,000 m. Surface geophysics will also be conducted in the region. Personnel for both of these undertakings as well as appropriate support staff will be based from the camp at High Lake.  Other planned activities for the coming field season include: Transport to site and storage of fuel for operations Transport of drill core to camp for logging, sampling, and storage Inspection and reclamation of drill set-ups upon drill hole completion Camp clean up and reclamation including some construction of temporary structures	
<b>5. TYPE OF PRIMARY UNDERTAKING</b> (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in " <b>bold</b> ")  <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input checked="" type="checkbox"/> <b>Mining and Milling</b> (includes exploration/drilling)         </div> <div> <input type="checkbox"/> Agricultural  <input type="checkbox"/> <b>Conservation</b> </div> </div>	

☐ **Municipal** (includes camps/lodges)  
☐ Power

☐ Recreational  
☐ **Miscellaneous** (describe below):

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

**6. WATER USE**

- |   |  |
|---|--|
| <input checked="" 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 checked="" type="checkbox"/> To alter the flow of , or store, water |
| <input type="checkbox"/> Other (describe):                          |  |

Water will be used to supply the drills and camp (showers, kitchen, laundry, rock saw). This will necessitate the temporary storage of water in large tanks located at the drills and at the camp and core shack.

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

**Water use** ☒ 100m<sup>3</sup>/day or less  
☐ Greater than 100m<sup>3</sup>/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

**Water returned to source**

90 m<sup>3</sup>/day

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

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

Sewage - Pacto toilets are used containing all human waste in doubled plastic bags which are collected daily and incinerated along with other burnable solid and semi solid wastes.

Greywater – approx. 5m<sup>3</sup> per day. Grey water is settled in tanks and then pumped to a natural sump behind camp and approximately 100 m. from the nearest water body. This water is from the kitchen sink, dry sinks, and showers and will contain at times small food particles, animal fats, and soap/shampoo residues.

Sludges – approx 75m<sup>3</sup> of water is circulated through the closed systems of the 3 drills during a day of drilling. Cuttings and sludges are settled in tanks and then sludge is bagged for disposal and disposed of in natural sumps located at least 50m. from any water bodies. A long drill hole may produce up to 1m<sup>3</sup> of this material for disposal. Salt used occasionally down the hole to prevent freezing is sufficiently diluted by water to be insignificant as a constituent of these sludges.

Waste oil - waste oil is collected and stored in sealed 45 gallon drums clearly marked as to their contents and removed from site by aircraft to be disposed of in Yellowknife at the incineration facility.

Bulky Items/Scrap Metal - All scrap metal is collected and stored in 45 gallon drums which are wired shut and then removed from the site by aircraft to be disposed of in Yellowknife at the refuse facility.

Solid Waste – All burnable solid waste is incinerated in a diesel fired forced air furnace located onsite and capable of disposing 64 Kg of waste/hour. (rating as listed on furnace supplied from Westland Incinerators) This waste includes kitchen wastes, sewage, paper and cardboard, any fuel or oil soaked materials and plastics. An estimated 6 large garbage bags of waste are incinerated on a daily basis. Ashes and any un-burned material are removed on a daily basis and added to the 45 gallon drums that contain scrap metal for removal from site.

Hazardous Materials – No hazardous materials are stored or made use of onsite with the exception of lead-acid batteries and petroleum products. Lead-Acid batteries are removed from the site for disposal in Yellowknife.

**9. OTHER 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 \_\_\_\_\_

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.)

The region in question does not fall along migration routes and therefore does not directly impact the wildlife that make use of these routes. High Lake itself has shown to be void of fish by independent environmental studies conducted by Gartner Lee limited in 2004. This corresponds to historical records of the property dating back to the initial occupation of the present camp location in the 1950's. Nonetheless, water intakes are equipped with screens. Large mammals and other species of birds are rarely seen in the vicinity of the camp. Geophysics will occur predominantly during the winter months and so will have a minimal impact on local vegetation. Apart from the localized activity surrounding the immediate area of the camp and drill sites, vegetation will not be greatly impacted. Direct impacts on the environment would therefore be fairly limited.

Removal of water volume from proposed water bodies would of course be one direct impact. Some local noise around the camp (from generator), around the proposed drill sites, and from the helicopter and occasional aircraft is to be expected.

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?

No.

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)

Major Drilling  
337 Old Airport Rd.  
PO Box 1377  
Yellowknife, NT  
X1A 2P1

- contracted to provide all diamond drilling  
Phone 867 873 3358

Gartner Lee Limited  
840 7th Ave. SW suite 1605  
Calgary, Alta.

- contracted to perform environmental base line studies  
Phone 403 262 4299

T2P 3G2

Great Slave Helicopters  
Bag 7500  
Yellowknife, NT  
X1A 2R3

- contracted to provide helicopter transportation on site  
Phone 867 873 2081

1984 Enterprises  
201 – 750 Denman St.  
Vancouver, BC  
V6G 2L5

- contracted to provide cooking staff and first aid  
Phone 604 736 8142

Discovery Mining Services  
101 – 487 Range Lake Rd.  
PO Box 2248  
Yellowknife, NT  
X1A 3R9

- contracted to provide expediting services  
Phone 867 920 4600

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

The reader is referred to the Project Proposal submitted to the Nunavut Impact Review Board and all involved parties, including the Nunavut Water Board for the High Lake mine development project for a comprehensive listing of the environmental baseline studies, impact assessments and monitoring and mitigation plans for the site. A CD copy of this document is attached to this application.

**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 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 Year

Start Date: April 1, 2007 Completion Date: April 1, 2012

Andrew Mitchell  
Name (Print)

Project Manager  
Title (Print)

Andrew Mitchell  
Signature

January 31, 2006  
Date

For Nunavut Water Board office use only

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

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