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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)

<p><b>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</b></p> <p><u>Douglas Craig, M.Sc. Environmental Officer</u>  <u>Defence Construction Canada</u>  <u>Constitution Square, Suite 1720</u>  <u>350 Albert Street</u>  <u>Ottawa, ON K1A 0K3</u></p> <p><u>Phone: 613-998-7288</u>  <u>Fax: 613-998-0468</u>  <u>E-mail: Douglas.Craig@dcc-cdc.gc.ca</u></p> <p><u>As administered by:</u>  <u>Eva Schulz, P.Ag., Environmental Scientist</u>  <u>2540 Kensington Road NW</u>  <u>Calgary, AB T2N 3S3</u></p> <p><u>Phone: 403-270-9220</u>  <u>Fax: 403-270-0399</u>  <u>E-Mail: Eva.Schulz@aecom.com</u></p> <p>Phone: _____          Fax: _____          e-mail: _____</p>	<p><b>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</b></p> <p>_____</p> <p>Phone: _____          Fax: _____          e-mail: _____</p>
<p><b>3. LOCATION OF UNDERTAKING</b> (describe and attach a topographical map, indicating the main components of the Undertaking)</p> <p>Latitude: (66° 39'52" N)      Longitude: (61°21'27" W)          NTS Map Sheet No. <u>16L</u> Scale: <u>1:50,000</u></p>	
<p><b>4. DESCRIPTION OF UNDERTAKING</b> (attach plans and drawings)</p> <p>The purpose of the project is to complete the environmental cleanup of the DYE-M site. The main components of the cleanup include the following:</p> <ul style="list-style-type: none"> <li>• Demolition and removal of the existing site facilities;</li> <li>• Closure and remediation of existing landfills;</li> <li>• Construction of two new landfills for the disposal of contaminated soils and non-hazardous debris</li> </ul>	

	<p>generated as a result of the clean up;</p> <ul style="list-style-type: none"> <li>• Excavation and either landfilling or treatment of contaminated soils;</li> <li>• Removal of surface debris; and,</li> <li>• Physical restoration of the site to as natural a state as practical.</li> </ul> <p>A detailed Project Description of the work to be completed at DYE-M was submitted in 2003.</p>		
5.	<p><b>TYPE OF PRIMARY UNDERTAKING</b> (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in “<b>bold</b>”)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> <b>Industrial</b>  <input type="checkbox"/> <b>Mining and Milling</b> (includes exploration/drilling)  <input type="checkbox"/> <b>Municipal</b> (includes camps/lodges)  <input type="checkbox"/> Power </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Agricultural  <input type="checkbox"/> <b>Conservation</b>  <input type="checkbox"/> Recreational  <input checked="" type="checkbox"/> <b>Miscellaneous</b> (describe below):  <div style="text-align: center;">Environmental clean up project.</div> </td> </tr> </table> <p>See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings</p>	<input type="checkbox"/> <b>Industrial</b> <input type="checkbox"/> <b>Mining and Milling</b> (includes exploration/drilling) <input type="checkbox"/> <b>Municipal</b> (includes camps/lodges) <input type="checkbox"/> Power	<input type="checkbox"/> Agricultural <input type="checkbox"/> <b>Conservation</b> <input type="checkbox"/> Recreational <input checked="" type="checkbox"/> <b>Miscellaneous</b> (describe below): <div style="text-align: center;">Environmental clean up project.</div>
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6.	<p><b>WATER USE</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> To obtain water  <input type="checkbox"/> To cross a watercourse  <input checked="" type="checkbox"/> To modify the bed or bank of a watercourse    <input type="checkbox"/> Other (describe): </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Flood control  <input type="checkbox"/> To divert a watercourse  <input type="checkbox"/> To alter the flow of , or store, water </td> </tr> </table>	<input checked="" type="checkbox"/> To obtain water <input type="checkbox"/> To cross a watercourse <input checked="" type="checkbox"/> To modify the bed or bank of a watercourse  <input type="checkbox"/> Other (describe):	<input type="checkbox"/> Flood control <input type="checkbox"/> To divert a watercourse <input type="checkbox"/> To alter the flow of , or store, water
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7.	<p><b>QUANTITY OF WATER INVOLVED</b> (cubic metres per day including both quantity to be used and quality to be returned to source)</p> <p><b>Water use</b>    <input type="checkbox"/> 100m<sup>3</sup>/day or less  <input checked="" type="checkbox"/> Greater than 100m<sup>3</sup>/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)</p> <p>Approximately 52 m<sup>3</sup> for camp use and 50 m<sup>3</sup> for construction purposes.</p> <p><b>Water returned to source</b>  <u>0</u> m<sup>3</sup>/day</p>		
8.	<p><b>WASTE</b> (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Sewage  <input checked="" type="checkbox"/> Solid Waste  <input checked="" type="checkbox"/> Hazardous  <input checked="" type="checkbox"/> Bulky Items/Scrap Metal </td> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Waste oil  <input checked="" type="checkbox"/> Greywater  <input checked="" type="checkbox"/> Sludges  <input checked="" type="checkbox"/> Other describe): The camp sewage is directed to a two-cell lagoon which is sized by the Contractor to provide an individual capacity for 50 days of wastewater storage or one half of the duration of the construction season, whichever is less. The maximum fluid depth is less than one metre. The sewage effluent is tested prior to discharge for the following parameters: Biological Oxygen Demand, Total Suspended Solids, Oil &amp; Grease; Faecal Coliforms and pH. Greywater from camp operations is also discharged into the sewage lagoon. Domestic garbage from the camp is placed in the Lower Site Non-Hazardous Waste Landfill. All excess fuels, camp equipment and facilities will be removed from the site after completion of the clean up activities. Any hazardous wastes encountered during the clean up operations will be packaged and stored according to TDG Regulations prior to shipment to a southern disposal facility. Waste oil is included as hazardous waste. </td> </tr> </table>	<input checked="" type="checkbox"/> Sewage <input checked="" type="checkbox"/> Solid Waste <input checked="" type="checkbox"/> Hazardous <input checked="" type="checkbox"/> Bulky Items/Scrap Metal	<input checked="" type="checkbox"/> Waste oil <input checked="" type="checkbox"/> Greywater <input checked="" type="checkbox"/> Sludges <input checked="" type="checkbox"/> Other describe): The camp sewage is directed to a two-cell lagoon which is sized by the Contractor to provide an individual capacity for 50 days of wastewater storage or one half of the duration of the construction season, whichever is less. The maximum fluid depth is less than one metre. The sewage effluent is tested prior to discharge for the following parameters: Biological Oxygen Demand, Total Suspended Solids, Oil & Grease; Faecal Coliforms and pH. Greywater from camp operations is also discharged into the sewage lagoon. Domestic garbage from the camp is placed in the Lower Site Non-Hazardous Waste Landfill. All excess fuels, camp equipment and facilities will be removed from the site after completion of the clean up activities. Any hazardous wastes encountered during the clean up operations will be packaged and stored according to TDG Regulations prior to shipment to a southern disposal facility. Waste oil is included as hazardous waste.
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9.	<p><b>OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING</b> (give name, mailing address and location; attach if necessary)</p>		

**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.)

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)

SNC-Lavalin Inc.  
2200 Lake Shore Blvd. W  
Toronto, ON M6V 1A4  
Contractor Site Manager: Dave Witty  
Telephone Number: 416-849-3931  
Fax Number: 416-849-3929  
Email: [David.Witty@snclavalin.com](mailto:David.Witty@snclavalin.com)

**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 Section 2.5 in the Project Description for a list of the previous assessments and investigations.

**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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    If no, date expected _____
Application fee of \$30.00 (Payee Receiver General for Canada)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    If no, date expected _____
Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the <i>NWT Waters Regulations</i> ; Payee Receiver General for Canada)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: June 1, 2009 Completion Date: October 31, 2012

<b>Eva Schulz</b> <hr style="border: 0; border-top: 1px solid black;"/> <b>Name (Print)</b>	<b>Senior Environmental Scientist</b> <hr style="border: 0; border-top: 1px solid black;"/> <b>Title (Print)</b>	 <hr style="border: 0; border-top: 1px solid black;"/> <b>Signature</b>	<b>January 8, 2009</b> <hr style="border: 0; border-top: 1px solid black;"/> <b>Date</b>
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**For Nunavut Water Board office use only**

<b>APPLICATION FEE</b>	Amount: \$ _____	Pay ID No.: _____
<b>WATER USE DEPOSIT</b>	Amount: \$ _____	Pay ID No.: _____