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Nunavut Water Board
NUNAVUT IMALIRIYIN KATIMAYINGI

WATER LICENCE APPLICATION FORM



Application for: (check one)

☐ **New** ☐ **Amendment** ☒ **Renewal** ☐ **Assignment**

Current Project Water Licence Permit No. **NWB5RES9803**

LICENCE NO:

(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE

Indian and Northern Affairs Canada
 Nunavut Regional Office
 P.O. Box 100
 Iqaluit, NU
 X0A 0H0

Phone: 867-975-4556

Fax: 867-975-4585

e-mail: platon@inac-ainc.gc.ca

2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)

Indian and Northern Affairs Canada
 Nunavut Regional Office
 P.O. Box 100
 Iqaluit, NU
 X0A 0H0

Phone: 867-975-4556

Fax: 867-975-4585

e-mail: platon@inac-ainc.gc.ca

INTERNAL	
PC	<i>JP</i>
LA	
OM	
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CEO	
BRD	
EXT.	

3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)

Cape Warwick, Resolution Island (BAF-5), southeastern tip of Baffin Island, 310 km southeast of Iqaluit, Nunavut, outside of Frobisher Bay

Latitude: 61° 35' N Longitude: 64° 40' W NTS Map No. 025H10 Scale: 1/50,000

4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)

Clean up and remediation of abandoned USAF military radar station (BAF-5)

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

- | | |
|---|---|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Remote/Tourism Camps |
| <input type="checkbox"/> Mine Development | <input type="checkbox"/> Municipal |
| <input type="checkbox"/> Advanced Exploration | <input type="checkbox"/> Power |
| <input type="checkbox"/> Exploratory Drilling | <input checked="" type="checkbox"/> Other (describe) <u>Environmental site clean up</u> |

6. WATER USE

- | | |
|---|--|
| <input checked="" 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 type="checkbox"/> Other (describe): _____ |
| <input checked="" type="checkbox"/> To cross a watercourse | |

7. **QUANTITY OF WATER INVOLVED** (litres per second, litres per day or cubic metres per year, including both quantity to be used and quantity to be returned to source)

20,000 litres/day to be used; no water returned to source

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

Sewage

Composition: waste water from camp sanitary facilities and kitchen.

Quantity: 400 m³/month. Treatment: discharged to non-aerated lagoon.

Solid Waste

Composition: waste from camp operations and maintenance, discarded packaging.

Quantity: 3 metric tonnes/month.

Treatment: combustible material incinerated, ashes and non-combustible material disposed in engineered landfill.

Hazardous

Composition: batteries, antifreeze, oil and gas filters, from vehicle and heavy equipment maintenance.

Quantity: 400 kg/year

Treatment: off-site shipment and disposal in authorized facility in Southern Canada.

Waste Oil

Composition: lubricating oil from maintenance of gensets, heavy equipment and vehicle engines.

Quantity: 350 litres/year. Treatment: on-site incineration.

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

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

None

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.)

Refer to enclosed Environmental Screening Report, 1998, revision 1, 2003

NIRB Screening ☒ Yes ☐ No If no, date expected _____

(Note: the transport and off-site disposal of PCB contaminated soils from Resolution Island was also screened by NIRB)

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)

Contractor: 1)Qikiqtaaluk Corporation
P.O Box 1228,
Iqaluit, NU, X0A 0H0
Tel.: 867-979-8400
Fax.: 867-979-8433

Contact: Harry Flaherty
Functions: Earth works, Clean up, Camp Operation and Maintenance, Catering.

Contractor: 2)Queen's University
School of Environmental Studies
Biosciences complex
Kingston, On, K7L 3N6
Tel.: 613-533-2642
Fax.: 613-533-2897

Contact: Dr. John Poland
Functions: Environmental testing, scientific advisor

Sub-Contractor: Sinanni Inc.
3333 Queen Mary, suite 580
Montréal, QC, H3V 1A2
Tel.: 514-940-3332
Fax.: 514-940-3435

Contact: Philippe Simon
Functions: Engineering, planning, and site supervision

Sub-Contractor: Stabilis Environment Inc.
3333 Queen Mary, suite 580
Montréal, QC, H3V 1A2
Tel.: 514-940-1230
Fax.: 514-940-3435

Contact: Jacques Dion
Functions: Technical adviser, waste management

Sub-Contractor: Others, determined on a yearly basis by tendering process
Functions: Marine shipping, charter helicopter, health and safety officer, medic, geotechnical engineering consultant

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

The number of studies conducted on environmental issues at Resolution Island is fairly large. Therefore, these reports are not provided with this permit application, however, copies could be provided on request. A list of available documents is presented below:

Baffin Region Ocean Disposal Investigation: Seabed Debris and Contaminant Inputs near Iqaluit, Resolution Island, Cape Dyer and Kivitoo, Department of National Defence, April 1995.

Clean Up Options for Resolution Island, prepared by Qikiqtaaluk Corporation and LDS Consultants Inc. for the Department of Indian Affairs and Northern Development (DIAND), December 1997.

Engineering Study - BAF-5 Clean-up, Resolution Island, N.W.T., Construction Engineering Unit, 90-CEU-57, November 1990.

Environmental Study of a Military Installation at Resolution Island, BAF-5-Volume Four, prepared by Queen's University Analytical Services Unit (ASU) for DIAND, March 1997.

Environmental Study of a Military Installation at Resolution Island, BAF-5-Volume Three, prepared by Royal Military College's Environmental Sciences Group (ESG) for DIAND, March 1996.

Environmental Study of a Military Installation at Resolution Island, BAF-5-Volume Two, prepared by Queen's University ASU for DIAND, March 1995.

Environmental Study of a Military Installation at Resolution Island, BAF-5, prepared by Royal Roads Military College's ESG for DIAND, March 1994.

Environmental Risk Assessment for Resolution Island, Northwest Territories, prepared by Golder Associates Ltd and Royal Roads University for DIAND, May 1997.

PCB Testing Program: BAF-5 - Resolution Island, prepared by Bond Architects & Engineers Ltd. for DIAND, September 1988.

Resolution Island 2001 Scientific Investigations, prepared by Queen's University ASU for DIAND, March 2002.

Resolution Island 2000 Scientific Investigations, prepared by Queen's University ASU for DIAND, November 2000.

Resolution Island 1999 Scientific Investigations, prepared by Queen's University ASU for DIAND, March 2000.

Resolution Island 1998 Scientific Investigations, prepared by Queen's University ASU for DIAND, January 1999.

Resolution Island 1997 Scientific Investigations, prepared by Queen's University ASU for DIAND, March 1998.

Summary of 2002 Activities Resolution Island Project, prepared by Sinanni Inc. and Qikiqtaaluk Corporation for Indian and Northern Affairs Canada (INAC), November 2002.

Summary of 2001 Activities Resolution Island Project, prepared by Sinanni Inc. and Qikiqtaaluk Corporation for INAC, December 2001.

Summary of 2000 Activities Resolution Island Project, prepared by LDS Consultants Inc. and Qikiqtaaluk Corporation for DIAND, November 2000.

Summary of 1999 Activities Resolution Island Project, prepared by LDS Consultants Inc. and Qikiqtaaluk Corporation for DIAND, December 1999.

Summary of 1998 Activities Clean up of Resolution Island, prepared by LDS Consultants Inc. and Qikiqtaaluk Corporation for DIAND, November 1998.

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 N/A

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 _____

15. PROPOSED TIME SCHEDULE

☐ Annual (or) ☒ Multi Year

Start Date: 2003-06-15 Completion Date: 2008-09-15

Natalie Plato
Name (Print)

Contaminants Specialist
Title (Print)


Signature

3/28/03
Date

For Nunavut Water Board use only

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

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