



General Water Licence Application
(Application for a new Water Licence)

April 2010

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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
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GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: Guide to Completing and Submitting a Water Licence Application for a New Licence for more information about this application form.

LICENCE NO: (for NWB use only)	
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address) Natalie Plato Director, Contaminated Sites Indian and Northern Affairs Canada PO Box 2200 Iqaluit NU X0A 0H0 Phone: 867-975-4730 Fax: 867-975-4736 e-mail: natalie.plato@aandc-aadnc.gc.ca	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) N/A Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter.)
3. NAME OF PROJECT (including the name of the project location) Hope Lake Remediation Project – 2012 Field Program	
4. LOCATION OF UNDERTAKING Project Extents NW: Latitude: (67°26'22" N) Longitude: (116°28'16" W) NE: Latitude: (67°32'34" N) Longitude: (116°11'26" W) SE: Latitude: (67°20'11" N) Longitude: (115°58'25" W) SW: Latitude: (67°18'42" N) Longitude: (116°04'48" W) Camp Location(s) Not Applicable. There will be no camp constructed during the 2012 Field Program. An emergency shelter will be available.	
5. MAP - Attach a topographical map, indicating the main components of the undertaking. NTS Map Sheet No.: 086N08 Map Name: Tuktuvak Lake Map Scale: 1/50,000 Maps of the Hope Lake Project Area are in Appendix 5.	

6. NATURE OF INTEREST IN THE LAND - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

Sub-surface

☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Mineral Lease from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: _____ Date of expiry: _____

Surface

☒ Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)
Date (expected date) of issuance: July 1, 2012 Date of expiry: 1 year after issuance

☒ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
Date (expected date) of issuance: July 1, 2012 Date of expiry: 1 year after issuance

☐ IOL Authorization from Kivalliq Inuit Association (KivIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ IOL Authorization from Qikiqtani Inuit Association (QIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Commissioner's Land Use Authorization
Date (expected date) of issuance: _____ Date of expiry: _____

☐ Other: _____
Date (expected date) of issuance: _____ Date of expiry: _____

Name of entity(s) holding authorizations:

Aboriginal Affairs and Northern Development Canada – Contaminated Sites

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

Indicate the land use planning area in which the project is located.

<input type="checkbox"/> North Baffin	<input type="checkbox"/> Keewatin
<input type="checkbox"/> South Baffin	<input type="checkbox"/> Sanikiluaq
<input type="checkbox"/> Akunnig	<input checked="" type="checkbox"/> West Kitikmeot

Is a land use plan conformity determination required?

☐ Yes ☒ No

If Yes, indicate date issued and attach copy N/A.

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

Confirmation from the NPC confirming that a land use plan conformity review is not required is pending.

8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION

Is an Article 12 Part 4 screening determination required?

☐ Yes

☐ No

If Yes, indicate date issued and attach copy _____

If No, provide written confirmation from NIRB confirming that a screening determination is not required.

The Nunavut Impact Review Board (NIRB) Part 1 and Part 2 Forms are being submitted concurrently with this application. Copies of the forms can be found in Appendices 1 & 2.

9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.

Project work is scheduled to start in the summer 2012 with a limited field season of approximately 20 days in July. The site will be accessed with daily flights from Kugluktuk. These flights will bring a crew of up to 10 people to the sites and return them to Kugluktuk each evening. The planned work includes:

- Drum sampling and consolidation**
- Debris collection and incineration of untreated/unpainted wood**
- Excavation and containerization of contaminated soil at Husky Creek and Willow Creek**
- Transportation of consolidated materials from Husky Creek & Willow Creek to the Hope Lake site via helicopter**

The main portion of the remediation project will begin with the mobilization of the camp and equipment to Kugluktuk via barge in the fall of 2012. The camp and equipment will then be transported to Hope Lake via CAT-Train in March/April 2013. Remedial activities will be completed during the summer of 2013 and demobilization from Hope Lake to Kugluktuk will take place in March/April 2014 via CAT-Train. This will be followed by the final demobilization from Kugluktuk via barge in the summer/fall of 2014.

Permit applications for the main portion of the project will be submitted in the summer/fall of 2012.

10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.

The Remedial Action Plan (RAP) provided in Appendix 4 considers alternative remedial methods for handling the environmental issues at the site.

11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.

- | | |
|---|---|
| <input type="checkbox"/> Industrial | <input type="checkbox"/> Agricultural |
| <input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps) | |
| <input type="checkbox"/> Conservation | |
| <input type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Recreational |
| <input type="checkbox"/> Power | <input checked="" type="checkbox"/> Miscellaneous (describe below): |
- Preparation for Remediation Project (scheduled to be started in 2013)**

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

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.

- ☐ Hydrostatic Testing
- ☐ Tannery
- ☐ Tourist / Remote Camp
- ☐ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil
- ☐ Onshore Oil and Gas Exploration Drilling
- ☐ Mineral Exploration / Remote Camp
- ☐ Advanced Exploration
- ☐ Mine Development
- ☐ Municipal
- ☐ General Water Works
- ☐ Power

12. WATER USE - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

Not applicable. No water will be used during the 2012 field program. The work crew will be flown into site from Kugluktuk each day and return to Kugluktuk at the end of the day.

- | | |
|---|---|
| <input type="checkbox"/> To obtain water for camp/ municipal purposes | <input type="checkbox"/> To divert a watercourse |
| <input type="checkbox"/> To obtain water for industrial purposes | <input type="checkbox"/> To modify the bed or bank of a watercourse |
| <input type="checkbox"/> To cross a watercourse | <input type="checkbox"/> Flood control |
| <input type="checkbox"/> To alter the flow of, or store water | |
| <input type="checkbox"/> Other: _____ | |

- 13. QUANTITY AND QUALITY OF WATER INVOLVED** - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.

Name of water source(s) (show location(s) on map):

None

Describe the quality of the water source(s) and the available capacity:

Not applicable.

Provide the overall estimated quantity of water to be used: 0.0 m³/day

Provide the estimated quantity(s) of water to be used from each source:

Not applicable.

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)

Not applicable.

Describe the method of extraction(s):

Not applicable.

Estimated quantity(s) of water returned to source(s) 0.0 m³/day

Describe the quality of water(s) returned to source(s): Not applicable

- 14. WASTE** – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

☒ Sewage

☒ Solid Waste

☐ Hazardous

☐ Bulky Items/Scrap Metal

☐ Animal Waste

☐ Other (describe): _____

☐ Waste oil

☐ Greywater

☐ Sludges

☐ Contaminated soil and/or water

- 15. QUANTITY AND QUALITY OF WASTE INVOLVED** – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Black Water	2 litres/day x 10 people (max) = 20 litres/day	Sewage sump/pit	Sewage sump/pit
Solid Waste	Miscellaneous waste (Paper, packaging, food, etc.)	0.25 cubic metres per day	None	Packaged and transported to Kugluktuk for disposal

- 16. OTHER AUTHORIZATIONS** – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization:

None

Administering Agency:

Not applicable

Project Activity:

Not applicable

Date (expected date) of issuance: _____ Date of expiry: _____

- 17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** - Describe direct, indirect, and cumulative impacts related to water and waste.

An Environmental Screening Assessment Report was completed in March 2011. A copy of the report "Environmental Screening Assessment of the Proposed Remediation of the Hope Lake Sites Under the Nunavut Impact Review Process: Hope Lake, Nunavut" is provided in Appendix 6.

- 18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER**

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

None

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

N/A

- 19. INUIT WATER RIGHTS**

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

None

20. CONSULTATION – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.
<p>A community meeting to review and discuss the draft Remedial Action Plan (RAP) was held in Kugluktuk in February 2011. The results of this meeting were used to finalize the RAP.</p> <p>- No concerns were raised during this meeting.</p> <p>Additional community meetings will be held throughout the project to keep community members up to date on project activities and employment/contracting opportunities.</p>
21. SECURITY INFORMATION Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. <u>Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults.</u> The estimate must also include contingency factors appropriate to the particular work to be undertaken. Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the <i>Mine Site Reclamation Policy for Nunavut</i> , Indian and Northern Affairs Canada, 2002. N/A
22. FINANCIAL INFORMATION Provide a statement of financial responsibility. If the applicant is a business entity, provide a list of the officers of the company. If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name. N/A

23. STUDIES UNDERTAKEN TO DATE - List and attach copies of studies, reports, research, etc.

A list of studies, reports, etc. are provided in the table below:

DATE	TITLE	AUTHOR
2009	Integrated Phase I and Phase II Environmental Site Assessment WK027 – Hope Lake	Water and Earth Sciences Associates Limited
2009	Integrated Phase I and Phase II Environmental Site Assessment WK197 – Husky Creek	Water and Earth Sciences Associates Limited
2009	Integrated Phase I and Phase II Environmental Site Assessment WK172 – Willow Creek and Nearby Sites WKB01 Cabins South of WK172, WKB02 Cabin Southwest of WK172	Water and Earth Sciences Associates Limited
2010	Archaeological Impact Assessment (AIA) of the Hope Lake Mining Exploration Camps, Dismal Lakes, Nunavut	Golder Associates Limited
2010	Phase III Environmental Site Assessment, Hazardous and Non-Hazardous Materials Audit, Geotechnical Evaluation, and Archaeological Investigation – Hope Lake, Nunavut	EBA Engineering Consultants Limited
2011	Remedial Action Plan – Hope Lake, Nunavut	EBA Engineering Consultants Limited
2011	Environmental Screening Assessment of the Proposed Remediation of the Hope Lake Sites Under the Nunavut Impact Review Board Process – Hope Lake, Nunavut	EBA Engineering Consultants Limited

Copies of some of these reports have been provided in the Appendices. Copies of the reports not included will be provided upon request.

24. PROPOSED TIME SCHEDULE – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: N/A Proposed Completion Date: N/A
(month/year) (month/year)

Operation

Proposed Start Date: July 2012 Proposed Completion Date: August 2012
(month/year) (month/year)

Closure

Proposed Start Date: N/A Proposed Completion Date: N/A
(month/year) (month/year)

Post - Closure

Proposed Start Date: N/A Proposed Completion Date: N/A
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Construction

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Operation

☐ Winter ☐ Spring ☒ Summer ☐ Fall ☐ All season

Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

Post - Closure

☐ Winter ☐ Spring ☐ Summer ☐ Fall ☐ All season

25. PROPOSED TERM OF LICENCE

Number of years (maximum of 25 years): 2 months years

Requested Date of Issuance: July 2012 Requested Expiry Date: August 2012
(month/year) (month/year)

This application is for the 2012 Field Program only. We will be applying for another licence for the work scheduled to take place in 2013 and 2014.

(The requested date of issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

26. ANNUAL REPORTING – If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

Will use the NWB Standardized Form for Annual Reporting.

27. CHECKLIST – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

☐ Yes ☐ No If no, date expected May 2012

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

☐ Yes ☒ No If no, date expected May 2012

Completed General Water Licence Application form.

☒ Yes ☐ No If no, date expected _____

Information addressing Supplemental Information Guideline (SIG) , where applicable (see Block 11)

☒ Yes ☐ No If no, date expected _____

English Summary of Application.

☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun Summary of Application.

☐ Yes ☒ No If no, date expected April 5, 2012

Application Fee of \$30.00 CDN (Payee Receiver General for Canada).

☐ Yes ☒ No If no, date expected _____

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

☐ Yes ☒ No If no, date expected _____

28. SIGNATURE

Natalie Plato

Director,
Contaminated Sites

Name (Print)

Title (Print)

Signature

Date

Natalie Plato 3/29/12