Aboriginal Affairs and Northern Development Canada | Affaires autochtones et Développement du Nord Canada

February 17, 2017

Nunavut Water Board
P.O. BOX 119
GJOA HAVEN, NUNAVUT
XOB 1J0

RE: NUNAVUT WATER LICENCE APPLICATION- BATHURST/HIGH ARCTIC REMEDIATION AND RISK MANAGEMENT PROJECT

Please find enclosed a water licence application from Indigenous Affairs and Northern Development Canada (INAC) for the Bathurst/High Arctic Remediation.

In addition to this application, INAC is also applying for a Land Use Permit from INAC, as well as associated approval from Nunavut Impact Review Board. This application package includes:

APPENDIX	TITLE
1	Executive Summary Inuktitut
2	Executive Summary English
3	Bathurst Remediation and Risk Management Plan
4	High Arctic Remediation and Risk Management Plan
5	Bathurst/High Arctic Sites Map
6	Camp and Proposed Water Source Map
7	High Arctic Environmental Screening Report
8	Bathurst/High Arctic Interm Fuel Spill Contingency Plan

If you have any further questions or require additional information please contact myself at 819-934-1188 or via e-mail at mark.yetman@aandc.gc.ca.

Sincerely,

Mark Yetman
Senior Project Advisor

Michael Westlake
on behalf of
Mark Yetman

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

Document Date: April 2013

Application Submission Date: _____
Month/Day/Year

P.O. BOX 119
GJOA HAVEN, NUNAVUT
XOB 1J0
TEL: (867) 360-6338
FAX: (867) 360-6369

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NUNAVUT IMALIRIYIN KATIMAYIT
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	Update NWB logo	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		

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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)

Mark Yetman
Senior Project Advisor
Indigenous and Northern Affairs Canada

Phone: ___819-934-1188_____
Fax: _____
e-mail: __mark.yetman@aandc.gc.ca _____

2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)

Phone: _____
Fax: _____
e-mail: _____
(Attach authorization letter.)

3. NAME OF PROJECT (including the name of the project location)

Bathurst/High Arctic Remediation and Risk Management Project

4. LOCATION OF UNDERTAKING

Project Extents

NW:	Latitude: (80°28'6.12"N)	Longitude: (94°44'9.93"W)
NE:	Latitude: (79°46'1.37"N)	Longitude: (80°59'22.79"W)
SE:	Latitude: (75°25'49.02"N)	Longitude: (99° 3'48.58"W)
SW:	Latitude: (75°17'18.38"N)	Longitude: (112°30'17.55"W)

Camp Location(s)

Latitude: (76° 9'0.46"N) Longitude: (104° 3'15.98"W)

5. MAP - Attach a topographical map, indicating the main components of the undertaking.

Rea Point:78H7; Drake Point: 79B8; Lougheed Island: 79D8; Dale Payne:79D7; Thor Island:69F3; 69F4;

Romulus: 340B2; Ile Vanier: 69B; Bent Horn: 69B; Young Inlet: 69A; Bathurst Island: 69A

NTS Map Sheet No.: _____ Map Name: _____ Map Scale: _____

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: ___June 2017___ Date of expiry: _____

☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)
Date (expected date) of issuance: _____ Date of expiry: _____

☐ 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: _____Nunavut Water Board_____
Date (expected date) of issuance: ___June 2017__ Date of expiry: _____

Name of entity(s) holding authorizations:
_____

7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION

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

✔ North Baffin
☐ South Baffin
☐ Akunniq
☐ Keewatin
☐ Sanikiluaq
☐ West Kitikmeot

Is a land use plan conformity determination required?

✔ Yes ☐ No

If Yes, indicate date issued and attach copy _____
If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

This project is being submitted to the NPC for conformity review.

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 NIRB application will be submitted online once NPC conformity is given.

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

This project combines the activities outlined in both the Bathurst and High Arctic Remediation and Risk Management Plans (RRMPs). Please refer to these in Appendix 3 and 4 for a detailed description of undertakings. Contained within these documents, as well as in appendix 5 are site maps and drawings.

Summary of activities:

- temporary camp set-up and operation
- posting of warning signs at 6 High Arctic and 9 Bathurst sites
- asbestos abatement
- off-site hazmat disposal
- small engineered cap of metals and PHC soils
- collection and off-site disposal of PCB, metals and PHC soils
- incineration of organic liquids

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

Appendix 3 and 4 contain the RRMPs for both High Arctic and Bathurst. These documents include an assessment of how the final approaches were chosen.

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

☐ Industrial ☐ Agricultural
☐ Mining and Milling (includes exploration/drilling/exploration camps)
☐ Conservation
☐ Municipal (includes camps/lodges) ☐ Recreational
☐ Power ✔ Miscellaneous (describe below):
_____Remote camp for remediation activities_____

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.

✔ To obtain water for camp/ municipal purposes
☐ To obtain water for industrial purposes
☐ To cross a watercourse
☐ To alter the flow of, or store water
☐ Other: _____
☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
☐ Flood control

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):

See attached map (appendix 6) Note: The actual location of water source cannot be determined until arrival on site as it is dependent on seasonal factors.

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

The water source will be tested before the camp is set-up to ensure that it meets all applicable regulations for camp operations. If the water does not meet applicable guidelines, bottled water will be flown in.

Provide the overall estimated quantity of water to be used: 3.5 m^3/day

115 Litres/day/person x 20 people (max) = 2300 Litres/day
1200 Litres/day for miscellaneous activities

Provide the estimated quantity(s) of water to be used from each source:
Fresh water lake 3.5 m^3/day

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)
Camp operations: 2.3 m^3/day
Miscellaneous activities: 1.2 m^3/day

Describe the method of extraction(s):

Water will be extracted using an intake hose with a screen to ensure that no fish become trapped. Water will be pumped from the lake into a holding tank to be used for camp

operations.

Estimated quantity(s) of water returned to source(s) 0 m^3/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
Hazardous materials	Asbestos Floor tiles, mercury containing materials, refrigerator containing halocarbons	Asbestos = 70m2 Mercury = 3 thermostats, 30 fluorescent light tubes Halocarbons = 1 fridge	Double bagged in yellow bags, placed in a shipping container, shipped south to an accredited disposal facility	shipped south to an accredited disposal facility
Contaminated soils	PCB, metals and PHC	PCB= 33m3 Metals and PHC= 2m3	Excavated, containerized, and labelled in accordance with the Transportation of Dangerous Goods Act.	shipped south to an accredited disposal facility
Contaminated Soils	Metals and PHC	100m3	Installation of an engineered cap which will isolate the soils from the environment	Installation of an engineered cap which will isolate the soils from the environment
Hazardous Waste	Organic liquids	5m3	Onsite incineration using an incinerator that meets all relevant air quality regulations.	Onsite incineration using an incinerator that meets all relevant air quality regulations.

sewage	Black water		Blackwater will not be deposited onsite as Storburn/Pacto toilets will be used	Blackwater will not be deposited onsite as Storburn/Pacto toilets will be used
grewater	greywater	80 litres/day x 20 people = 1600 L/day	-Pit backfilled with lime added at end of camp operation. -greasetraps installed on kitchen sinks	-Pit backfilled with lime at end of camp operation. -greasetraps installed on kitchen sinks
Combustible camp garbage	Combustible camp garbage	1m3/day	incineration	incineration

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: _____N/A_____

Project Activity: _____N/A_____

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.

See appendix 7 for the Environmental Screening Report for High Arctic, and Appendix 3 for the RRMP which contains an Environmental Impact Assessment section for Bathurst.

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.

Two separate community consultations took place in Resolute on this project. The presentation and meeting notes for these can be found in the RRMP's in Appendix 3 and 4.

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. 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. 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 *Mine Site Reclamation Policy for Nunavut,* 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.

DATE	TITLE	AUTHOR
2015	Remediation and Risk Management Plan for Bathurst Island Nunavut	Stantec
2016	Remediation and Risk Management Plan for six High Arctic Oil and Gas Sites	BluMetric
2016	Environmental Screening Report: Impacts of Implementing The Remediation and Risk Management Plan at Six High Arctic Oil and Gas Sites	ECOFOR

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: _____ (month/year) Proposed Completion Date: _____ (month/year)

Operation
Proposed Start Date: _____July 2017___ (month/year) Proposed Completion Date: _____September 2017__ (month/year)

Closure
Proposed Start Date: _____ (month/year) Proposed Completion Date: _____ (month/year)

Post - Closure
Proposed Start Date: _____ (month/year) Proposed Completion Date: _____ (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): _____1_____ years

Requested Date of Issuance: _____06/2017___ (month/year) Requested Expiry Date: _____10/2017____ (month/year)

(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 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 _____Feb/2017_____

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

☐ Yes ✔ No If no, date expected _____April/2017_____

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 _____

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

☐ Yes ✔ No If no, date expected _____N/A_____

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

Name (Print)	Title (Print)	Signature	Date
Michael Westlake	Project Advisor		Feb. 16/17

(on Behalf of Mark Yetman)