



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

April 2010

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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) Hamlet of Repulse Bay P.O. Box 10 Repulse Bay, NU X0C 0H0 Phone: (867) 462 – 9952 Fax: (867) 462 – 4411 e-mail: saorepulse@qiniq.com	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) Nick Lawson Nunami Stantec Ltd. P.O. Box 1680 Yellowknife, NT X1A 2N4 Phone: (867) 920 – 2216 Fax: (867) 920 – 2278 e-mail: nick.lawson@stantec.com (Attach authorization letter.)
3. NAME OF PROJECT (including the name of the project location) Construction and Operation of an Access Road and Borrow Sources at Repulse Bay, NU	
4. LOCATION OF UNDERTAKING Project Extents NW: Latitude: (66° 33' 13" N) Longitude: (86° 25' 34" W) NE: Latitude: (66° 33' 45" N) Longitude: (86° 16' 58" W) SE: Latitude: (66° 33' 03" N) Longitude: (86° 16' 42" W) SW: Latitude: (66° 32' 45" N) Longitude: (86° 25' 08" W)	
Camp Location(s) – N/A Latitude: (° ' " N) Longitude: (° ' " W)	
5. MAP - Attach a topographical map, indicating the main components of the undertaking. NTS Map Sheet No.: <u>46L/09</u> Map Name: <u>Figure 1 – Repulse Bay Final Road Design</u> Map Scale: <u>1:50,000</u> NTS Map Sheet No.: <u>46L/09</u> Map Name: <u>Figure 2 – Repulse Bay Final Road Design and Watercrossings</u> Map Scale: <u>1:30,000</u> Note: Figures contained in Appendix A of the attached Environmental Screening document	

- 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: _____ 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: May 31, 2011 Date of expiry: November 1, 2012.
- Other: GN-CGS Quarry Permit
Date (expected date) of issuance: May 31, 2011 Date of expiry: November 1, 2012.

Name of entity(s) holding authorizations:
Hamlet of Repulse Bay.

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 checked="" type="checkbox"/> Akunniq | <input type="checkbox"/> 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.

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 _____

Submitted NIRB Project Proposal (including Part 1 and 2 forms concurrently with NWB applications; have not received determination yet)

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

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

The Hamlet of Repulse Bay needs to develop granular resource sites to allow for municipal road construction and other community projects. Six granular deposits have been identified northwest of the Hamlet (FSC 2002) and a final design for a road to access these sites was designed by FSC in late 2010. The Project in question involves the construction of an 8.729 km long access road to these granular resource sites and subsequent extraction of granular resources. The access road will be constructed of granular materials and measure a minimum of 11 m wide, with additional shoulder and culvert space in some portions. The access road will also cross seven waterbodies along the Project route including six streams and the tip of the tidal flat of Tariugaq Inlet. The proposed route and potential granular resource sites (borrow sources) are identified on Figure 1 in **Appendix A** of the accompanying Environmental Screening document; photographs of the watercrossings are located in **Appendix E**.

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

Alternatives to the Project, and viable technical and economic alternatives for carrying out the Project, have been considered. The alternative to the Project is to not construct the proposed road and not develop the identified granular resources in the future. This is not considered feasible however as the Hamlet requires these granular resources to support future municipal projects and community economic growth initiatives.

Alternative means of carrying out the Project focused on constructing the proposed road in an alternate location to access the identified granular resources. This option is also not considered feasible as the cost of locating and designing a new route would be prohibitive as the Hamlet and GN-CGS have already completed final road design, environmental survey, HRIA and permit applications for the present routing. The proposed Project routing was finalized by FSC in 2010 based on comprehensive field study considering ease of construction, minimizing construction and maintenance costs, and avoiding environmentally and culturally sensitive areas. An assessment of the environmental effects of project alternatives was not undertaken as there was not considered a practicable alternative to the proposed route.

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 checked="" type="checkbox"/> Municipal (includes camps/lodges) | <input type="checkbox"/> Recreational |
| <input type="checkbox"/> Power | <input type="checkbox"/> Miscellaneous (describe below): |

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.

- | | |
|--|--|
| <input type="checkbox"/> Hydrostatic Testing | |
| <input type="checkbox"/> Tannery | |
| <input type="checkbox"/> Tourist / Remote Camp | |
| <input type="checkbox"/> Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil | |
| <input type="checkbox"/> Onshore Oil and Gas Exploration Drilling | |
| <input type="checkbox"/> Mineral Exploration / Remote Camp | |
| <input type="checkbox"/> Advanced Exploration | |
| <input type="checkbox"/> Mine Development | |
| <input type="checkbox"/> Municipal | |
| <input checked="" type="checkbox"/> General Water Works | |
| <input type="checkbox"/> Power | |

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

- | | |
|---|--|
| <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 checked="" type="checkbox"/> To modify the bed or bank of a watercourse |
| <input checked="" 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):

See Figure 2 in Appendix A of the Environmental Screening document for locations of water bodies. The tip of the tidal flat of Tariugaq Inlet will be crossed; to the knowledge of Nunami Stantec, all streams are unnamed.

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

Overall water quality is presumed to be good. Water will not be withdrawn from any waterbody; capacity is unknown.

Provide the overall estimated quantity of water to be used: 0 m³/day

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

Water will not be withdrawn from any waterbody

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

Water will not be withdrawn from any waterbody

Describe the method of extraction(s):

Water will not be withdrawn from any waterbody

Estimated quantity(s) of water returned to source(s): 0 m³/day

Describe the quality of water(s) returned to source(s):

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

NOT APPLICABLE

- | | |
|--|---|
| <input type="checkbox"/> Sewage | <input type="checkbox"/> Waste oil |
| <input type="checkbox"/> Solid Waste | <input type="checkbox"/> Greywater |
| <input type="checkbox"/> Hazardous | <input type="checkbox"/> Sludges |
| <input type="checkbox"/> Bulky Items/Scrap Metal | <input type="checkbox"/> Contaminated soil and/or water |
| <input type="checkbox"/> Animal Waste | |
| <input type="checkbox"/> Other (describe): | <u> </u> |

- 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.

NOT APPLICABLE

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method

- 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: Request for Review under the *Fisheries Act* .

Administering Agency: Fisheries and Oceans Canada .

Project Activity: Stream crossings by the access road and installation of culverts .

Date (expected date) of issuance: May 2011 Date of expiry: November 1, 2012 .

Authorization: Screening Determination .

Administering Agency: Nunavut Impact Review Board .

Project Activity: Construction and operation of an access road and borrow sources .

Date (expected date) of issuance: June 2011 Date of expiry: November 1, 2012 .

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

Please see Section 5 of the attached Environmental Screening document

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.

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

The Hamlet of Repulse Bay's water license for their municipal water use and waste disposal (NWB3REP0409) expired on May 31, 2009. The proposed Project will not affect municipal water use and waste disposal. No other individuals or holders of water licenses (if any) will be affected by the proposed Project.

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).

The proposed Project will not have any effects on the quality, quantity or flow of waters through IOLs.

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.

Please see Section 2.11 of the attached Environmental Screening document.

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.

NOT APPLICABLE – the proponent is Government and the Project is municipal

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.

NOT APPLICABLE – the proponent is Government and the Project is municipal

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

- Nunami Stantec Environmental Survey – results reported in Section 4 of the attached Environmental Screening document
- FMA Heritage Inc. *Archaeological Investigation, Hamlet of Repulse Bay, NU, Proposed Road to Granular Sites, Final Report* – has been provided to the Government of Nunavut Department of Culture, Language, Elders and Youth for their review and comment.
- FSC Architects and Engineers *Repulse Bay Road Final Design* (signed and stamped) – presented in Appendix B of the attached Environmental Screening document

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: July 2011 (month/year) Proposed Completion Date: October 2012 (month/year)

Operation

Proposed Start Date: July 2011 (month/year) Proposed Completion Date: Indefinitely (month/year)

Closure

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

Post - Closure

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

Winter Spring Summer Fall All season

Post – Closure – N/A

Winter Spring Summer Fall All season

25. PROPOSED TERM OF LICENCE

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

Requested Date of Issuance: June 2011 (month/year) Requested Expiry Date: November 2012 (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.

The NWB's Standardized Form for Annual Reporting will be used.

- 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: March 2011.

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

Yes No If no, date expected: _____ April 2011 _____.

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 _____

Inuktut 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 _____

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: _____ N/A _____.

28. SIGNATURE

Nick Lawson
Name (Print)

Project Manager
Title (Print)

Signature

Date