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NUNAVUT IMALIRIYIN KATIMAYINGI
OFFICE DES EAUX DU NUNAVUT

Draft

Miscellaneous
Supplemental Information Guideline (SIG)
for
General Water Works (including crossings,
trainings, flood control, diversions, and flow
alterations) (M1)

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1.0 Introduction

This Supplemental Information Guideline (SIG) is for applicants seeking a water licence for water use, waste disposal, works and associated activities for General Water Work Development (including water crossings, trainings, flood control, diversions, and flow alterations) which is an undertaking classified as Miscellaneous in accordance with the *Northwest Territories Water Regulations* (NTWR or Regulations).

Supplemental information is required as part of the water licence application in accordance with section 48(2) of the Nunavut Waters Nunavut Surface Rights Tribunal Act (NWNSRTA or Act) which states:

“An application, except in relation to a cancellation, shall be accompanied by the information and studies concerning the use of waters or the deposit of waste that are required for the Board to evaluate the qualitative and quantitative effects of the use or the deposit on waters.”

Also, in accordance with section 48(3) of the Act, on the filing of an application, the Board may provide guidelines to the applicant respecting the information to be provided by the applicant in respect of any matter that the Board considers relevant, including the following:

- a) the description of the use of waters, deposit of waste or appurtenant undertaking, as the case may be;
- b) the qualitative and quantitative effects of the use of waters or the deposit of waste on the drainage basin where the use is to be undertaken or the deposit is to be made, and the anticipated impact of the use or deposit on other users;
- c) the measures the applicant proposes to take to avoid or mitigate any adverse impact of the use of waters or the deposit of waste;
- d) the measures the applicant proposes to take to compensate persons, including the designated Inuit organization, who are adversely affected by the use of waters or the deposit of waste;
- e) the program the applicant proposes to undertake to monitor the impact of the use of waters or the deposit of waste;
- f) The interests in and rights to lands and waters that the applicant has obtained or seeks to obtain; and

g) the options available for the use of waters or the deposit of waste.

To provide further guidance for these requirements, as well as the requirements of section 6(2) of the Regulations which outlines more specific information requirements for proposed undertakings, the NWB has developed Supplemental Information Guidelines (SIGs or Guidelines).

The SIGs are designed in spreadsheet format to facilitate the development of a concordance table that cross references the requirements of the SIG with the documents that make up the water licence application. The tables in the following five (5) worksheets include columns for the applicant to enter information regarding the applicability of the requirement to the proposed undertaking; the title, author, and date of the document where information to address the requirement can be found; the electronic file name of the document; as well as the section of the document where the information can be found. Specific information about the proposed undertaking should not be inserted into these spreadsheets.

The applicant must complete the yellow sections of the SIG and submit the completed SIG along with the documents that address the requirements of the SIG to the NWB.

Further to this SIG, the applicant is referred to the NWB's *Guide 4 - Completing and Submitting a Water Licence Application for a New Licence*. This Guide provides more details regarding completion of the NWB's minimum information requirements, information required to complete plans including designs and reports, executive summaries and translations, as well as how, when and who to contact when submitting a water licence application.

Following submission of a water licence application, the NWB will determine whether the application is complete. If the NWB determines that an application is materially incomplete, meaning that items included in Section 2: Minimum Application Requirements are missing, the applicant will be informed by the NWB that their application has been rejected. In other cases, NWB staff will correspond with the applicant to resolve deficiencies before proceeding.

The NWB cannot issue, amend, or renew a licence where there is an applicable, approved land use plan until the NPC's requirements under the NLCA have been addressed regarding land use planning (Article 11). In addition, the NWB cannot issue, amend, or renew a licence where the appurtenant undertaking requires screening by NIRB in accordance with Part 4 of Article 12 of the NLCA until NIRB has completed its screening. Furthermore, notwithstanding sections 13.5.5 or 12.10.2 of the NLCA, where the appurtenant undertaking requires a review under Part 5 or Part 6 of Article 12 of the NLCA, the Board may not issue, amend, or renew a licence until NIRB has issued a project certificate. For this reason, the applicant must provide the NWB with written confirmation that both NPC's and NIRB's requirements under the NLCA have been addressed.

Following completion of development impact assessment in accordance with Article 12 of the NLCA, the NWB may issue additional Project Specific Information Requirements (PSIR) to the applicant.

The applicant is referred to Appendix A of these Guidelines for a list of additional documents, guidelines, legislation and standards that may be of use to the applicant in preparing the information to address this SIG.

Submission of the information required by this SIG does not relieve the applicant from confirming and following up on other information requirements which may be required during the regulatory process.

2.0 Minimum Application Requirements (Application Checklist)

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting ' Y ' or ' NA '	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	NWB Concordance Assessment
Minimum Application Requirements	1	General Water Licence Application Form (see the NWB's <i>Guide 4: Completing and Submitting a Water Licence Application for a New Licence</i>) or Application for Water Licence Amendment Form, if appropriate (see NWB's <i>Guide 7: Licensee Requirements Following the Issuance of a Water Licence</i>).	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Sections 1 to 28	
	2	Information required to satisfy the requirements of the SIG including plans, reports and designs.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 1 to 6	
	3	Executive summary in english.	Y	-	Repulse Bay Access Road & Borrow Source Application Summary (English) Nunami Stantec March 2011	RepulseBay_GenWLApp_Summ_Eng_8Mar11.pdf	Entire document	
	4	Translated executive summary in appropriate language and dialect.	Y	-	Repulse Bay Access Road & Borrow Source Application Summary (Inuktitut) Nunami Stantec March 2011	RepulseBay_GenWLApp_Summ_Inuk_8Mar11.pdf	Entire document	
	5	Application fee.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 27 and attached money order	
	6	Water use fee.	N/A	Water will not be used	-	-	-	
	7	A table indicating concordance of the application and supporting documents to the Guidelines. These generic Guidelines are provided in excel as a tool for applicants to provide the necessary concordance table.	Y	-	Miscellaneous Supplemental Information Guidelines for General Water Works Nunami Stantec March 2011	RepulseBay_NWBSIG_WaterWorks_FINAL_8Mar11.pdf	Entire document	

Qualifications:

- 1 Applications that do not include all of the items listed above will be returned to the applicant as incomplete with a request for the deficient information.
- 2 If more than one licensable activity or facility is proposed that requires a water licence (eg. multiple water sources, waste deposits, structures, crossings, etc.) the required information must be provided for each activity or facility.
- 3 Information between all documents that make up the application package must be consistent and must be accurately cross referenced.
- 4 The application must distinguish between recommendations or options and actual commitments to chosen alternatives.
- 5 For additional guidance regarding the submission of electronic documentation, see the NWB's *Guide 6: Electronic Documentation: Submissions and Registry*.
- 6 The applicant, where practical, may combine components of the information requested in the SIG into more concise plans to provide clarity and eliminate duplication. If this practice is considered, then the applicant must clearly outline, through proper referencing and clearly detailed statements, how the NWB should consider the documents that have combined elements of information. Information management is the responsibility of the applicant.
- 7 The applicant must submit a concise executive summary of the application package. In addition, the Applicant shall submit an executive summary for each separate supporting document, report or study. All executive summaries shall be provided in English, Inuktitut and/or Inuinnaqtun (where applicable).

The applicant must complete the yellow columns of the worksheet(s). Blue columns are for NWB use only.

3.0 General Water Licence Application

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document, where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Applicant	1	Provide the full name of the applicant and contact person including contact information (position, phone number, address, fax number and email address).	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 1		
Applicant Representative	2	Provide the name and contact information of any party submitting the application on behalf of the applicant (including position, phone number, address, fax number and email address).	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 2		
	3	Provide a signed letter authorizing a party to be the applicant's representative in the licensing process.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Attachment		
Project Name	4	Provide the name of the project.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 3		
Location of Undertaking	5	Provide coordinates of the project extents.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 4		
	a	Provide location by Latitude and Longitude.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 4		
	b	Provide location by UTM coordinates, if available.	N/A	Provided location by latitude & longitude	-	-	-		
	6	Indicate whether the drainage basin, in which the project is located, is shared with any other jurisdiction. If applicable, indicate which jurisdiction.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreen_FINAL_8Mar11_entire.pdf	Section 4.1.2		
Map	7	Provide a map at a 1:50,000 scale based on the National Topographic Series indicating the location of the undertaking, watercourses and the location of waste deposits. Additional maps at various scales may be provided if those maps will provide additional information or clarification. All maps must indicate the scale, map sheet number, and the location of north.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreen_FINAL_8Mar11_entire.pdf	Appendix A		

3.0 General Water Licence Application

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document, where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Nature of Interest in the Land	8	Provide the nature of the interest in the land associated with the proposed undertaking, including:	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 6		
	a	Sub-surface leases from Nunavut Tunngavik Incorporated (NTI) and/or Indian and Northern Affairs Canada (INAC) as well as surface authorizations from INAC for crown land use, a Designated Inuit Organization (DIO) for Inuit Owned Land (IOL) use, or the Government of Nunavut for Commissioner's land use. Provide the permit or licence numbers.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 6		
	b	The date or expected date of issuance of any authorization and the date of expiry.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 6		
	9	Indicate whether the applicant is the name of the entity holding the authorization for the interest in the land and if not, provide the name of the entity holding the authorization.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 6		
NPC Determination	10	Provide written confirmation from the NPC confirming that NPC's requirements under the NLCA regarding land use plan conformity (Article 11 of the NLCA) have been addressed.	N/A	Submitted concurrently with NWB documents; will be forthcoming	-	-	-		
NIRB Determination	11	Provide written confirmation from the NIRB confirming that NIRB's requirements under the NLCA regarding development impact assessment (Article 12 of the NLCA) have been or are in the process of being addressed. Documentation may include:	N/A	Submitted concurrently with NWB documents; will be forthcoming	-	-	-		
	a	Written confirmation from NIRB that the project proposal does not require screening;	-	-	-	-	-		
	b	NIRB's screening determination;	-	-	-	-	-		
	c	If a review is required, NIRB's recommendation to the Minister regarding the type of review;	-	-	-	-	-		
	d	If a review is required, the Minister's written decision regarding the review of the development proposal;	-	-	-	-	-		
	e	If a review is required, NIRB's project certificate;	-	-	-	-	-		
	12	Provide a list of activities requested for exception in accordance with NLCA s. 12.10.2;	N/A	No activities requested for exemption	-	-	-		
Description of Undertaking	13	Indicate whether any Type B water licence application is for an activity to be considered for interim, short term approval in accordance with NLCA s. 13.5.5.	N/A	No interim or short-term approval required	-	-	-		
	14	Provide a complete description of the undertaking with detailed site plan(s) of all infrastructure. Differentiate any temporary components from permanent components. Consider the following in providing the description:	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2 Section 3		
	a	Camp (see the NWB's SIG for Tourist / Remote Camps (R1));	N/A	A camp will not be established	-	-	-		
	b	Transportation access routes;	Y	-	"	"	Section 2.3		

3.0 General Water Licence Application

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	c	Fuel and chemical storage;	Y	-	"	"	Section 2.8 Section 2.9		
	d	Quarries / borrow pits;	Y	-	"	"	Section 3.2		
	e	Existing on site infrastructure;	Y		"	"	Section 1		
	f	Water intake	N/A	Water will not be withdrawn	-	-	-		
	g	Water storage	N/A	Water will not be stored	-	-	-		
	h	Water distribution	N/A	Water will not be distributed	-	-	-		
	i	Bridges	N/A	Bridges will not be used	-	-	-		
	j	Culverts	Y	-	"	"	Section 3.1.2.2		
	k	Pipelines	N/A	No pipelines present			-		
	l	Channel / bank alterations	Y	-	"	"	Section 3.1.2.2		
	m	Spurs	N/A	No spurs					
	n	Erosion control	Y	-	"	"	Section 3.1.2.2 Section 5.2.3 Section 5.3.3		
	o	Artificial accretion	N/A	No artificial accretion	-	-	-		
	p	Ditches	N/A	No ditches	-	-	-		
	q	Dikes	N/A	Dikes will not be used	-	-	-		
	r	Dams	N/A	Dams will not be used	-	-	-		
	s	Spillways	N/A	Spillways will not be used	-	-	-		
	t	Berms	N/A	No berms	-	-	-		
	u	Coffer dams	Y	-	"	"	Section 3.1.2.2		
Other Applicable Supplemental Information Guidelines	15	Indicate whether any other Supplemental Information Guidelines apply to the undertaking including the following:	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 11		
	a	Hydrostatic testing	N/A	Does not apply	-	-	-		
	b	Tannery	N/A	Does not apply	-	-	-		
	c	Tourist / remote camp	N/A	Does not apply	-	-	-		
	d	Landfarm and on-site storage of hydrocarbon contaminated soil	N/A	Does not apply	-	-	-		
	e	Onshore oil and gas exploration drilling	N/A	Does not apply	-	-	-		
	f	Mineral exploration/ remote camp	N/A	Does not apply	-	-	-		
	g	Advanced exploration	N/A	Does not apply	-	-	-		
	h	Mine development	N/A	Does not apply	-	-	-		
	i	Municipal	N/A	Does not apply	-	-	-		
	j	General Water Works	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreen_FINAL_8Mar11_entire.pdf	Entire document		
Options	16	Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.	Y	Does not apply	-	-	-		
Water Use	17	See section 5 of this SIG for specific requirements			Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 10		

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Water Use: Quality and Quantity	18	See section 5 of this SIG for specific requirements							
Waste Disposal	19	Provide a detailed description of all types of waste and all forms of waste disposal including: (see the NWB Guide 2: Terminology and Definitions)	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreen_FINAL_8Mar11_entire.pdf	Section 2.7		
	a	Dredged material	Y	-	"	"	Section 2.7 Section 3.1.2.2		
	b	Hazardous waste including waste oil	Y	-	"	"	Section 2.7 Appendix D (Spill Plan)		
	c	Discharge from dewatered areas	N/A	No areas will be dewatered	-	-	-		
Waste Disposal: Quality and Quantity	20	For each type of waste, provide the composition, chemical characteristics and quantity generated. Also provide the location, rate, timing, frequency and duration of the deposit.	Y	-	"	"	Section 2.7		
	21	For each type of waste, provide the proposed methods and processes for collecting, storing, treating and discharging the waste. Indicate the capacity of these facilities.	Y	-	"	"	Section 2.7		
	22	Provide a description of any measures to minimize the production of wastes.	Y	-	"	"	Section 2.7		
Other Authorizations	23	Provide a list of any authorizations required in relation to the project in addition to the water licence. For each additional authorization required for the project, provide the name of the authorization, the administering agency, the project activity requiring the authorization, the date of expected date of issuance and the date of expiry. Provide a description of how those authorizations may affect the NWB's water licensing process.	Y		Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 16		
	24	Provide formal applications to the Navigable Waters Protection Program (NWPP) for any works if applicable.	N/A	Does not apply	-	-	-		
	25	Provide a timetable for filing the appropriate plans and procedures required by government parties.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 6 Section 16		
	26	Indicate whether the applicant / licensee holds any existing water licences. If applicable, provide the licence number and expiry date of any existing water licences.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 18		
Predicted Environmental Effect and Proposed mitigation measures	27	Identify the potential effect of water use and waste disposal on the following components:	Y	However water will not be withdrawn. No effects due to water use or waste disposal; only effects due to watercrossings	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreen_FINAL_8Mar11_entire.pdf	Section 5		
	a	Groundwater and Surface Water including: changes in flow (including seasonal rate of flow)	Y	-	"	"	Section 5.1.2		

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		quantity	-	-	-	-	-	-	
		quality	-	-	-	-	-	-	
b		Land including:	Y	-	"	"	Section 5.1.1		
		geologic structure change	-	-	-	-	-	-	
		soil contamination	-	-	-	-	-	-	
		compaction, settling and erosion	-	-	-	-	-	-	
		alteration of the permafrost regime	-	-	-	-	-	-	
		riparian zone loss	-	-	-	-	-	-	
c		Vegetation including:	Y	-	"	"	Section 5.2.1		
		species composition and abundance	-	-	-	-	-	-	
		non-native species introduction	-	-	-	-	-	-	
		accumulation of toxins and heavy metals (in relation to remediation objectives for closure)	-	-	-	-	-	-	
d		Aquatic Ecosystems including:	Y	-	"	"	Section 5.1.2 Section 5.2.3		
		fish	-	-	-	-	-	-	
		benthic invertebrates	-	-	-	-	-	-	
		plankton	-	-	-	-	-	-	
28		Identify effects separately for each project phase.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 5		
29		Provide a description of the methods used to predict effects.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2012	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 5.1		
30		Provide a cumulative effects assessment of the project's water use and waste disposal activities in combination with other past, present and reasonably foreseeable projects in the same drainage basin.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 6		
31		Identify effects that may arise from accidental events or malfunctions.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2012	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 5		

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	32	Provide a description of all proposed mitigation, management and monitoring programs to mitigate adverse impacts.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 5		
	33	Provide a description of the measures to be taken to mitigate impacts on historical resources or traditional uses of water and procedures to be followed should artifacts be discovered.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 5.3.2		
	34	If applicable, provide a description of any potential transboundary effects.	N/A	No transboundary effects	-	-	-		
	35	See sections 4, 5 and 6 of this SIG for additional information requirements							
Existing and Other User Water Rights	36	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.	N/A	No other persons or properties affected	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 18		
	37	Provide a description of any potential effects of the project on the persons or properties identified in item 36 of this section.	N/A	No other persons or properties affected	-	-	-		
	38	Provide a description of the measures incorporated into the project design to mitigate effects of the project on the persons or properties identified in item 36 of this section.	N/A	No other persons or properties affected	-	-	-		
	39	Indicate whether compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.	N/A	No other persons or properties affected	-	-	-		
Inuit Water Rights	40	Provide a description of any potential effects of the project on the quality, quantity, or flow of waters flowing through Inuit Owned Land (IOL).	N/A	No effect of the Project on waters flowing through IOL	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 19		
	41	Provide a description of the measures incorporated into the project design to mitigate effects of the project on the quality, quantity, or flow of waters flowing through IOL.	N/A	No effect of the Project on waters flowing through IOL	-	-	-		
	42	Indicate whether an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO); or if the parties have been unable to reach an agreement on compensation	N/A	No effect of the Project on waters flowing through IOL	-	-	-		

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Consultation	43	Provide a summary of any consultation meetings including when the meetings were held, where and with whom.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2.11		
	44	Provide a summary of the results of consultation meetings including a list of concerns expressed and measures proposed to address concerns.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2.11		
Security	45	Provide a financial security assessment that includes the following:	N/A	Proponent is Government	-	-	-		
	a	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;	"	"	-	-	-		
	b	The cost of having the necessary reclamation work done by a third-party contractor if the operator defaults;	"	"	-	-	-		
	c	Contingency factors appropriate to the particular work to be undertaken.	"	"	-	-	-		
Abandonment and Restoration	46	Provide plans for the abandonment and restoration of facilities.	N/A	A&R plan not required	-	-	-		
	47	Provide a list and description of any existing abandoned or restored site facilities.	N/A	A&R plan not required	-	-	-		
Financial Information	48	Provide a statement of financial responsibility.	N/A	Proponent is Government	-	-	-		
	49	If the applicant is an entity for which audited financial statements are issued, a copy of the most recent audited financial statements must be attached to the statement of financial responsibility.	N/A	Proponent is Government	-	-	-		
	50	Provide the name of the corporation, limited company or other business entity, with a list of the officers of the company and a copy of the Certificate of Incorporation or evidence of registration of the company name.	N/A	Proponent is Government	-	-	-		
Studies and Designs	51	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date including:	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 23		
	a	Design rational, design requirements, design criteria, design parameters, design standards/analysis/method;	-	-	-	-	-		
	b	Design assumptions and the limitations associated with such design assumptions;	-	-	-	-	-		
	c	The inclusion of clear, definable engineering qualifiers with all design drawings and reports;	-	-	-	-	-		
	d	Site specific data and analysis to support the design and management decisions made;	-	-	-	-	-		
	e	Materials that appropriately delineate the particulars of a design or plan.	-	-	-	-	-		

3.0 General Water Licence Application

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document, where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	52	Provide construction methods and procedures regarding how infrastructure will be put in place on-site.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1		
	53	Provide a timetable for submission of preliminary and final-for-construction engineered designs (note: for construction designs are required for NWB approvals).	Y (provided)	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Appendix B		
	54	See sections 4 and 5 of this SIG for additional information requirements.							
Proposed Time Schedule	55	Provide the proposed start and completion dates for each phase of development (construction, operation, closure) and any anticipated periods of seasonal shut down.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 24		
Proposed Term of Licence	56	Provide a proposed term of licence including the expected date of licence issuance and the expected date of licence expiry.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 25		
Annual Reporting	57	Provide detailed information regarding the content of annual reports and a proposed outline or template of the annual report. The annual report should include the following:	N/A	Will use the NWB's Standardized Form for Annual Reporting	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 26		
	a	Water related monitoring results;	-	-	-	-	-		
	b	Comparison of water quality and quantity monitoring data with the water quality and quantity predictions presented in the application;	-	-	-	-	-		
	c	A description of how any conditions in the NIRB screening decision related to the NWB mandate have been implemented;	-	-	-	-	-		
	d	Project changes under adaptive management;	-	-	-	-	-		
	e	Any actions taken in response to direction provided by the Inspector.	-	-	-	-	-		
Renewals and Amendments	58	If the application is for a renewal or amendment of an existing licence provide the water licence number and the date of water licence expiry.	N/A	New water license, not renewal or amendment	-	-	-		

3.0 General Water Licence Application

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document, where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	59	If the application is for a renewal or amendment of an existing licence, provide a compliance assessment/status report. This report must document the status of compliance for each condition of the existing water licence taking into consideration inspector dialogues and inspector directions, responses to inspector dialogues and inspector directions, spills that may have occurred, and any reporting requirements. The report must indicate when facilities were inspected by regulatory agencies and list any spills that may have occurred including a description, location shown on a map, and the action taken to address the affected area.	N/A	New water license, not renewal or amendment	-	-	-	-	

4.0 Baseline Information

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Environmental Setting	1	Provide a description of the site using current detailed topographic survey maps and/or aerial photos where applicable. Maps, diagrams, and aerial photos must include accurate scales that allow the determination of distances between the objects depicted.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Appendix A		
	2	Provide a description of the site history if it has been used in the past.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4		
	3	Provide a description of the site conditions, including:	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4		
	a	location	"	-	"	"	"		
	b	topography	"	-	"	"	"		
	c	geologic conditions	"	-	"	"	"		
	d	hydrologic characteristics	"	-	"	"	"		
	e	climate conditions and trends	"	-	"	"	"		
	f	seismicity	"	-	"	"	"		
	g	permafrost conditions	"	-	"	"	"		
4	Provide a description of the surface water regime and drainage area. Outline the drainage basin on an attached map.		Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.1.2 Section 4.2.3 Appendix A		
	5	Provide a description of the usual break-up and freeze-up periods.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.1.2		
6	Provide a description of streambed material, streambank material, and streambank vegetation.		Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3.1		

4.0 Baseline Information

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	7	Indicate the slope of the banks of any water course affected by the application	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3.1		
	8	Provide a description of the meander pattern for any channel affected by the application	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3.1		
	9	Provide the following streamflow data in cubic metres per second for each watercourse included in the application:	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3.1		
	a	mean annual flow;	-	-	-	-	-		
	b	mean summer flow;	-	-	-	-	-		
	c	minimum summer flow;	-	-	-	-	-		
	d	minimum annual flow;	-	-	-	-	-		
	e	mean annual flood;	-	-	-	-	-		
	f	maximum summer flood;	-	-	-	-	-		
	g	mean summer flood;	-	-	-	-	-		
	10	Provide bathymetric information for water bodies affected by the application.	N/A	Only streams affected; bathymetric data not required	-	-	-		
	11	Provide a description of the ground condition for design and engineering of earthwork infrastructure (if applicable, provide test pit/ drill hole logs and laboratory test results).	N/A	Not completed	-	-	-		
	12	Provide a description of the historical uses of the waters affected by the project.	Y	Document has not been provided; is presently being reviewed by Government of Nunavut Department of Culture, Language, Elders and Youth					
	13	Provide a description of any traditional uses of water in the project area.	Y	Document has not been provided; is presently being reviewed by Government of Nunavut Department of Culture, Language, Elders and Youth					
	14	Indicate whether fish, shellfish, or other wildlife are present and harvested in or near the project area and, if applicable, indicate the species harvested and the level of harvest.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.3.1		

4.0 Baseline Information

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	15	Provide a description of the results of any consultation with Elders regarding the collection of baseline data.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2.11 Section 4		
	16	Provide a description of the geochemical tests which have been (or will be) performed on quarry or borrow material to determine the relative acid generation and contaminant leaching potential. Outline methods used (or to be used) and provide test results in an attached report (ie. static test, kinetic tests).	N/A	Not completed	-	-	-		
Fisheries	17	The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm . Indicate whether the applicant has consulted with DFO and provide the results of any consultation.	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_DRAFT_11Feb11.pdf	Section 16		
	18	If applicable, provide baseline data and an evaluation of baseline data describing fish and fish habitat in the project area	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3.1		
	19	If applicable, provide a fisheries assessment including:	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3		
	a	Detailed area description (including photographic record);	Y	-	"	"	"		
	b	Description of fish habitat (including river or lake bottom substrates such as silt, sand, or cobble);	Y	-	"	"	"		
	c	Presence of sensitive habitats (spawning, migration corridors etc.);	Y	-	"	"	"		
	d	Description of aquatic and riparian vegetation;	Y	-	"	"	"		
	e	Fish community and life stage present;	Y	-	"	"	"		
	f	Depth and width of watercourse;	Y	-	"	"	"		
	g	Max/min water flows, currents, tides;	Y	-	"	"	"		
	h	Turbidity and sediment loads (total suspended solids);	Y	-	"	"	"		
	i	Sport, commercial, subsistence fishery present.	Y	-	"	"	"		
Studies	20	Provide a list of baseline studies, reports and plans relevant to the application that have been undertaken to date or are being planned including:	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 23		
	a	Geotechnical studies;	N/A	Not completed	-	-	-		
	b	Geochemical studies;	N/A	Not completed	-	-	-		
	c	Water quality studies;	N/A	Not required	-	-	-		
	d	Hydrological and hydrogeological studies;	N/A	Not required	-	-	-		

4.0 Baseline Information

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	e	Traditional use studies;	Y	Document has not been provided; is presently being reviewed by Government of Nunavut Department of Culture, Language, Elders and Youth					
	f	Aquatic studies;	N/A	Not required	-	-	-		
	g	Meteorological studies;	N/A	Not required	-	-	-		

5.0 Water Use: Quality, Quantity, Predicted Environmental Impact and Proposed Mitigation Measures

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Water Use	1	Provide a detailed description of all types of water uses including: (See the NWB definition of "use" in the NWB Guide 2: Terminology and Definitions)	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2.6		
	a	Obtain water for domestic purposes	N/A	Water will not be used for domestic purposes	-	-	-		
	b	Obtain water for industrial purposes	N/A	Water will not be used for industrial purposes	-	-	-		
	c	To cross a water course	Y	-	"	"	Section 2.6 Section 3.1.2.2		
	d	To alter the flow of water, or store water	N/A	Water will not stored or flow altered	-	-	-		
	e	Flood control	N/A	Flood control will not occur	-	-	-		
	f	To divert a watercourse	N/A	No watercourses will be diverted	-	-	-		
	g	To modify the bed or bank of a watercourse	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2 Section 4.2.3.1		
	h	Others:	-	-	-	-	-		
Water Use: <i>Quality and Quantity</i> Water Intake **Identify uses as either domestic or industrial**	2	Provide the name of the primary water source(s) as well as the name of any alternative water source(s).	N/A	Water will not be withdrawn	-	-	-		
	3	Provide a description of the source(s) of water and the location of the water source(s) as shown on a map.	N/A	Water will not be withdrawn	-	-	-		
	4	Indicate the type of water source(s) as lake, river, well, or other type.	N/A	Water will not be withdrawn	-	-	-		
	5	Provide a description of the quality of the water from the source(s) for each season (summer, fall, winter, spring).	N/A	Water will not be withdrawn	-	-	-		
	6	Provide the capacity of the water source(s).	N/A	Water will not be withdrawn	-	-	-		
	7	Provide the acquisition rate in cubic metres per day and cubic metres per year from each water source.	N/A	Water will not be withdrawn	-	-	-		
	8	Provide a description of the water intake method(s) including the intake facility, the operating capacity of the pump used, the details of any screening to exclude fish, and the distance the pump will be placed from the ordinary high water mark of the watercourse.	N/A	Water will not be withdrawn	-	-	-		
	9	Provide a description of the general condition of any existing water intake facility. Rate the condition of the facility as satisfactory or unsatisfactory and explain the rating.	N/A	Water will not be withdrawn	-	-	-		
	10	Indicate whether water is drawn from the source(s) intermittently or continuously and if intermittently indicate during what months it is drawn and for what period it is drawn (days/weeks/months).	N/A	Water will not be withdrawn	-	-	-		
	11	Indicate the amount of water to be returned to the source(s).	N/A	Water will not be withdrawn or returned to source	-	-	-		
	12	Provide a description of the methods to ensure water returned to any source is of an acceptable quality.	N/A	Water will not be withdrawn or returned to source	-	-	-		

5.0 Water Use: Quality, Quantity, Predicted Environmental Impact and Proposed Mitigation Measures

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	13	Provide a description of any hydrostatic testing programs, including water sources, and treatment/disposal requirements. If applicable, refer to the NWB's SIG for Hydrostatic Testing.	N/A	Water will not be withdrawn; no hydrostatic testing required	-	-	-		
	14	Provide a description of any measures to reduce water consumption.		Water will not be withdrawn	-	-	-		
Water Storage	15	Provide a description of any water storage facilities including the type (reservoir/pond, storage tank), location, design, and the water storage volume in cubic meters.	N/A	Water will not be stored	-	-	-		
	16	If the water storage facility is a reservoir, indicate whether the reservoir is lined, the type of liner and when it was or will be installed.		Water will not be stored	-	-	-		
	17	Indicate whether a storage reservoir is created in a natural channel. If applicable, provide plan and profile drawings of the reservoir including the size of the drainage basin upstream of the reservoir, topographical plan showing the drainage area boundary, number of hectares flooded, surface area of the reservoir at full capacity, storage capacity, and details of shoreline protection.		Water will not be stored	-	-	-		
	18	Provide a plan showing representative cross sections of the reservoir.		Water will not be stored	-	-	-		
	19	Provide a description of the general condition of any existing water storage facility and provide an explanation if it is unsatisfactory.		Water will not be stored	-	-	-		
	20	Provide a description of water distribution systems (ie. piped water, trucked) including the number of people on each system.		Water will not be distributed	-	-	-		
	21	For each phase of development, calculate the total water consumed per day (L/day) by multiplying the estimated number of persons on the system by the estimated average water consumption (Litres/ capita/day). Calculate the total water consumed for each individual distribution system if more than one is used (ie. piped water, trucked water).		Water will not be distributed	-	-	-		
Watercourse Crossings	22	Provide a description of the general condition of any existing water distribution system and provide an explanation if it is unsatisfactory.	N/A	Water will not be distributed	-	-	-		
	23	Provide a description of any watercourse crossings including pipelines, bridges, culverts or roads and its purpose.		Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2	
	24	Indicate whether a temporary detour road is required to construct the watercourse crossing. If applicable, provide a schematic drawing that shows the location of the proposed detour road, any watercourse crossings to be constructed to facilitate the detour road, and the type of crossing.		Temporary detour roads not required	-	-	-		
	25	Provide a plan of any watercourse crossing showing cross section and elevations		Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Appendix A	

5.0 Water Use: Quality, Quantity, Predicted Environmental Impact and Proposed Mitigation Measures

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Watercourse Trainings	26	Provide a description of any watercourse trainings including channel and bank alterations, culverts, spurs, erosion control, and artificial accretion, and its purpose.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2		
Flood Control	27	Provide a description of any flood control structures and its purpose.	N/A	Flood control structures will not be installed	-	-	-		
Diversions	28	Provide a description of any diversions including ditches and dikes, and its purpose.	N/A	Water will not be diverted	-	-	-		
Alterations in flow	29	Provide a description of any activities or structures that could alter the flow of a watercourse including dams, spillways, berms, cofferdams, and dikes, and its purpose.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2		
	30	Indicate whether the natural storage capacity or water level of any lake or pond will be altered.	N/A	No lakes or ponds will be altered by the Project	-	-	-		
	31	If the alteration involves a dam, provide a plan showing the length, height, cross section and elevations of the dam and the location and preliminary designs of spillways, canals, sluice pipes, and any other outlet work.	N/A	A dam will not be installed	-	-	-		
Dewatering	32	Provide a description of dewatering programs, if planned, including estimated quantities, qualities, dewatering flow rates, methods and schedule of withdrawal, end use or discharge location.	N/A	No waterbodies will be dewatered	-	-	-		
Identification	33	Indicate whether there are any signs identifying past or present water intake, storage, distribution systems and/or waterwork structures presently in the project area.	N/A	No waterwork structures in the area	-	-	-		
Modifications	34	Indicate whether any changes are planned for the water intake, storage, distribution systems and/or waterwork structures. If applicable, see item 35 of this section.	N/A	No waterwork structures in the area	-	-	-		
Proposed Water works	35	For each proposed water work component provide design plans. Design plans shall consider the following:	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	See below		
	a	Name of the water body(s) affected.	Y	-	"	"	Section 4.2.3.1		
	b	Site photos, site map, or air photos of the location.	Y	-	"	"	Appendix A		
	c	Description of the existing condition of the site (see section 4)	Y	-	"	"	Section 4.2.3.1		
	d	Indicate whether any structures will be placed in water on a temporary, seasonal or permanent basis and provide a description of when and how the structure will be removed.	Y	-	"	"	Section 3.1.2.2		
	e	The design flood flow in cubic metres per second and its return period for the type of structure proposed.	Y	-	"	"	Section 3.1.2.2		
	f	An explanation of the rationale for the selected design flow flood and its return period.	Y	-	"	"	Appendix B		
	g	Design drawings in plan and profile, drawn to scale, including all relevant dimensions.	Y	-	"	"	Appendix B		

5.0 Water Use: Quality, Quantity, Predicted Environmental Impact and Proposed Mitigation Measures

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	h	Details of design parameters including seismic design criteria if applicable.	N/A	Seismic design not applicable	-	-	-		
	i	In water work timing restriction for fisheries.	Y	-	"	"	Section 5.2.3		
	j	Start and completion dates for construction.	Y	-	"	"	Section 2.1		
	k	Construction schedule and sequence taking into account any timing restrictions.	Y	-	"	"	Section 2.1		
	l	Construction methods.	Y	-	"	"	Section 3.1		
	m	Equipment to be used.	Y	-	"	"	Section 2.5		
	n	A description of the source, type, and composition of material used in construction.	Y	-	"	"	Section 3.1.1 Section 3.2		
	o	The quantity of material to be either placed into or removed from the watercourse.	Y	-	"	"	Section 3.1.2.2		
	p	Sedimentation and erosion control measures.	Y	-	"	"	Section 5.2.3		
	q	Construction monitoring plans.	N/A	To be developed by Qualified Professional retained for construction management	-	-	-		
	r	Construction quality assurance and quality control measures.	N/A	To be developed by Qualified Professional retained for construction management	-	-	-		
	s	Assessment of impacts to fish and fish habitat (see item 46 of this Section).	Y	-	"	"	Section 5.2.3		
	t	Bank stabilization measures (including the size range of material if applicable).	Y	-	"	"	Section 3.1.2.2		
	u	Operation and maintenance plans including instrumentation, monitoring and inspection requirements	N/A	O&M plan not required	-	-	-		
	v	Contingency plans	N/A	Contingency plan not required	-	-	-		
	w	Re-vegetation plans	Y	-	"	"			
	x	Proposed post construction monitoring (photos taken of the site before construction, during construction, and after construction; photos should be taken from the same reference point for easy comparison)	N/A	Post-construction monitoring not required	-	-	-		
	y	Abandonment and restoration plans (see items 46 and 47 of Section 3).	N/A	A&R plan not required	-	-	-		
	36	Final plans and drawings for construction must be stamped by a Professional Engineer licensed to practice in Nunavut. (See Section 7 of the NWB's Guide 4: Completing and Submitting a Water Licence Application for more information regarding design drawings).	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Appendix E		
	37	If geotextile is used or a similar material to prevent the transport of sediment into a watercourse, provide the technical specifications for the proposed material as well as the location, extent and placement method for the material.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2012	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2 Appendix B		

5.0 Water Use: Quality, Quantity, Predicted Environmental Impact and Proposed Mitigation Measures

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	38	If rip rap is used or a similar material for erosion protection, provide information regarding the minimum and maximum sizes of the material and the gradation between those limits. Indicate the quantity to be used and its source.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2		
Predicted Environmental Effects and Proposed mitigation measures	39	Provide a description of the effects of water usage on the river or lake from which water will be drawn, including potential for drawdown.	N/A	Water will not be withdrawn	-	-	-		
	40	Provide a description of any expected changes in surface water flow or storage including changes downstream of the project.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 5.1.2		
	41	If the cross-section of any watercourse is changed, provide a description of the change and its effect on the flow capacity of the channel.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2012	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2.2		
	42	If the course of any channel is changed, provide a description of measures to maintain stream bed and bank stability.	N/A	The course of any channel will not be changed	-	-	-		
	43	Provide a description of measures of preventing surface water from coming into contact with waste and measures of managing surface water that does come into contact with waste (surface water management plan).	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2.6 Appendix D		
	44	Provide a description of measures of preventing groundwater from coming into contact with waste and measures of managing groundwater that does come into contact with waste (groundwater management plan).	N/A	Groundwater management not required	-	-	-		
Fisheries	45	If applicable, provide a description of any potential impacts to fish and/or fish habitat. (Indirect effects may include project effects, water quality, or aquatic organisms. Direct effects may include degradation or alteration of fish habitat). The applicant is advised to consult with DFO regarding fish and fish habitat related issues and to visit DFO's website at http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm .	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	See below		
	a	Potential effects on fish or fish habitat;	Y	-	"	"	Section 5.2.3		
	b	The area in square metres to be impacted;	Y	-	"	"	Section 3.1.2.2		
	c	Measures to avoid sensitive periods and habitat areas (i.e., spawning beds, migration corridors);	Y	-	"	"	Section 5.2.3		
	d	Measures to avoid physical impacts on habitat;	Y	-	"	"	Section 5.2.3		
	e	Measures to maintain flows and fish passage;	Y	-	"	"	Section 5.2.3		
	f	Measures to avoid sedimentation;	Y	-	"	"	Section 5.2.3		

5.0 Water Use: Quality, Quantity, Predicted Environmental Impact and Proposed Mitigation Measures

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert Title, Author and Date of Document where information is provided	Insert electronic file name of document where information is provided	Insert Section of document where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
	g	Measures to avoid spills;	Y	-	"	"	Section 5.2.3		
	h	Detailed habitat no-net-loss plan and site restoration plan;	N/A	No-Net-Loss plan or site restoration not required	-	-	-		
Studies	46	Provide a list of studies, reports and plans relevant to the application that have been undertaken to date, or are being planned including:	Y	-	Repulse Bay Access Road & Borrow Source General Water License Application Nunami Stantec March 2011	RepulseBay_GenWLApp_FINAL_8Mar11.pdf	Section 23		
	a	Options analysis;	N/A	Not required	-	-	-		
	b	Water management plan including water balance analysis;	N/A	Not required	-	-	-		
	c	Fisheries assessment;	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 4.2.3		
	d	Construction plan and construction schedule for water works;	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 3.1.2 Section 5.2.3		
	e	Implementation schedule for construction of works.	Y	-	Construction & Operation of an Access Road and Borrow Sources at Repulse Bay, NU Environmental Screening Nunami Stantec March 2011	RepulseBay_EnviroScreening_FINAL_8Mar11_entire.pdf	Section 2.1		
	f	Construction quality assurance and quality control plans;	N/A	To be developed by Qualified Professional retained for construction management	-	-	-		
	g	Operation and maintenance plan;	N/A	Not required	-	-	-		
	h	Preliminary abandonment and reclamation plans for existing and proposed facilities;	N/A	Not required	-	-	-		
	i	Final abandonment and reclamation plans for facilities to be closed;	N/A	Not required	-	-	-		
	j	Monitoring plans (See Section 8).	N/A	Not required	-	-	-		

6.0 Monitoring

Section Title	Section No.	Information Requirement	Indicate whether Information Requirement is applicable by inserting 'Y' or 'NA'	If 'NA' provide justification	Insert <u>Title, Author and Date of Document</u> where information is provided	Insert <u>electronic file name of document</u> where information is provided	Insert <u>Section of document</u> where information is provided	If information is not available at the time of application, indicate when the information will be made available	NWB Concordance Assessment
Monitoring	1	Provide a Monitoring Plan including a description of the methods, procedures, standards, and schedules proposed. Monitoring may be required for water use, effluent, surface and/or groundwater water quality, quantity, or flow; ground temperature; ground settlement; etc.	N/A	Monitoring plan not required	-	-	-		
	2	Indicate who is responsible for sampling including that person's position, contact information and level of training.	N/A	Monitoring plan not required	-	-	-		
	3	Indicate the name and contact information of the certified laboratory performing the analysis of samples.	N/A	Monitoring plan not required	-	-	-		
	4	Provide an Inspection Plan including a description of the methods, procedures, standards, and schedules proposed. Inspections may be required for engineered facilities related to the management of water and waste as well as spills.	N/A	Monitoring plan not required	-	-	-		
	5	Provide a Quality Assurance/ Quality Control (QA/QC) Plan that addresses both field sampling and laboratory analyses.	N/A	QA/QC plan not required	-	-	-		
	6	Provide a summary table that details the monitoring plan. The table should include stations numbers, location, parameter(s) and frequency. Provide a map detailing the location of monitoring sites.	N/A	Monitoring plan not required	-	-	-		

APPENDIX A: ADDITIONAL SOURCE DOCUMENTS TO ASSIST THE APPLICANT

This appendix provides a list of reference documents including legislation, guidelines and standards that may be of use to the applicant in preparing the supplemental information.

Federal Legislation

Canadian Environmental Protection Act, [1999, c.33]

Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations, [SOR/2008-197]

Environmental Emergency Regulations, [SOR/2003-307]

Fisheries Act, [R.S.C. c. F-14]

Navigable Waters Protection Act, [R.S. 1985, c. N-22]

Navigable Waters Bridges Regulations, [C.R.C., c. 1231]

Navigable Waters Works Regulations, [C.R.C., c. 1232]

Nunavut Land Claims Agreement

Nunavut Waters and Nunavut Surface Rights Tribunal Act, [2002, c.10]

Northwest Territories Waters Regulations, [SOR/93/303]

Territorial Lands Act, [R.S. 1985, c. T-7]

Territorial Land Use Regulations, [C.R.C., c. 1524]

Territorial Quarrying Operations, [C.R.C., c. 1527]

Transportation of Dangerous Goods Act, [1992, c.34]

Transportation of Dangerous Goods Regulations, [SOR/2001-286]

Territorial Legislation

Environmental Protection Act (Nunavut), [R.S.N.W.T. 1988, c. E-7]

Used Oil and Waste Fuel Management Regulations, [N.W.T. Reg. 064-2003]

Safety Act, [R.S.N.W.T. 1988, c. S-1]

Work Site Hazardous Materials Information System Regulations, [R.R.N.W.T. 1990 c. S-2]

Transportation of Dangerous Goods Act, [R.S.N.W.T. 1988, c. 81 (Supp.)]

Transportation of Dangerous Goods Regulations, [1991, N.W.T. Reg. 095-91]

Public Health Act, [R.S.N.W.T. (Nu.) 1988 c. P.12]

Guidelines and Policies

CCME – *Environmental Code of Practice for Aboveground and Underground Storage Tank Systems containing Petroleum and Allied Petroleum Products* (2003);

CCME – *Canadian Environmental Quality Guidelines Guidelines (CEQG) and Canadian Water Quality Guidelines for the Protection of Aquatic Life*;

CCME – *Canada-Wide Standards for Dioxins and Furans* (2001);

CCME – *Canada-Wide Standards for Mercury Emissions* (2000);

DFO – *Freshwater Intake End-of-Pipe Fish Screen Guideline* (1995);

DFO – *Guidelines for the Use of Explosives In or Near Canadian Fisheries Waters* (1998);

DFO – *Policy for the Management of Fish Habitat* (2001);

DFO – *Operational Statements*;

DFO - *Other documents are available from DFO's website at <http://www.dfo-mpo.gc.ca/habitat/habitat-eng.htm>*;

EC – *Guidelines for the Preparation of Hazardous Material Spill Contingency Plans* (1990);

GN – *Spill Contingency Planning and Spill Reporting in Nunavut. A Guide to the New Regulations.*

GN – *Environmental Guideline for Contaminated Site Remediation (2002);*

GN – *Environmental Guideline for General Management of Hazardous Waste in Nunavut (2002);*

GN - *Environmental Guideline for Ozone Depleting Substances (2002);*

GN - *Environmental Guideline for Waste Antifreeze (2002);*

GN - *Environmental Guideline for Waste Asbestos (2002);*

GN - *Environmental Guideline for Waste Batteries (2002);*

GN - *Environmental Guideline for Waste Paint (2002);*

GN - *Environmental Guideline for Waste Solvent (2002);*

GN - *Guideline for the Management of Waste Lead and Lead Paint (2001);*

GN - *Municipal Solid Wastes Suitable for Open Burning;*

GN - *Disposal Guidelines for Fluorescent Lamp Tubes;*

GN – *Occupational Health &Safety Guidelines (2006);*

GNWT - *Guidelines for the Discharge of Treated Municipal Wastewater in the Northwest Territories, (1992)*

GNWT – *A Field Guide to Ice Construction Safety (2007);*

Guidelines for the Preparation of an Operations and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories, Duong and Kent, 1996

INAC - *Mine Site Reclamation Policy for Nunavut (2002);*

INAC – *Guidelines for Spill Contingency Planning (2007);*

INAC - Quality Assurance (QA), Quality Control (QC) Guidelines for Use by Class "B" Licensees in Collecting Representative Water Samples in the Field and for Submission of a QA/QC Plan (1996);

INAC – A Policy Respecting the Prohibition of Bulk Water Removal from Major River Basins in Nunavut (2003);

The proponent where applicable should consider the application of the Canadian Dam Association “*Dam Safety Guidelines*” (January 1999) in the design, construction, operation, monitoring, decommission and closure of dam infrastructure. (Referenced within the guidelines as CDA);

Workplace Hazardous Materials Information System (WHMIS);

The NWB maintains a folder on its FTP site containing electronic copies of reference documents. Federal legislation may be found on the Department of Justice Canada website at <http://laws.justice.gc.ca/>. Territorial Legislation may be found on the Canadian Legal Information Institute's website at <http://www.canlii.org/>. The applicant is encouraged to consult with government agencies on technical issues and to obtain the most up to date copy of reference documents.

It is the applicant's responsibility to ensure that all relevant standards and guidelines are considered in the water licence application and to incorporate proper footnotes and references.

APPENDIX B: COMMONLY USED ACRONYMS

AA	Authorizing Agency
ABA	Acid Base Accounting
AMD	Acid Mine Drainage
AP	Acid Potential
A&R	Abandonment and Restoration
ARD	Acid Rock Drainage
ANFO	Ammonium Nitrate and Fuel Oil
BOD	Biological Oxygen Demand
BTEX	Benzene, Toluene, Ethyl-benzene and Xylene
CBOD	Carbonaceous Biological Oxygen Demand
CEA	Cumulative Environmental Assessment
CCME	Canadian Council Ministry of the Environment
CFU	Colony Forming Units
COD	Chemical Oxygen Demand
CWQS	Canadian Water Quality Standards
DFO	Department of Fisheries and Oceans
DIO	Designated Inuit Organization
DO	Dissolved Oxygen
DSG	Dam Safety Guidelines
DSI	Dam Safety Inspection
DSR	Dam Safety Review
EC	Environment Canada
EA	Environmental Assessment
EIS	Environmental Impact Statement
EPA	Environmental Protection Agency
EPP	Emergency Preparedness Plan
ERSCP	Emergency Response Spill Contingency Plan
GN-DoE	Government Nunavut – Department of Environment
GN-CGS	Government Nunavut – Department of Community Government Service
GN-CLEY	Government of Nunavut - Department of Culture, Language, Elders and Youth
HDPE	High Density Polyethylene
FTP	File Transfer Protocol
IIBA	Inuit Impact Benefit Agreement
INAC	Indian and Northern Affairs Canada <small>(also known as DIAND)</small>
IOL	Inuit Owned Lands
IQ	Inuit Qaujimajatuqangit
IR	Information Request
LPA	Local Project Area
MSDS	Material Safety Data Sheet
MAC	Maximum Acceptable Concentration
MCE	Maximum Credible Earthquake
MDE	Maximum Design Earthquake
MMER	Metal Mining Effluent Regulations
NLCA	Nunavut Land Claims Agreement

NP	Neutralization Potential
NNP	Net Neutralization Potential
NPR	Neutralization Potential Ratio
NIRB	Nunavut Impact Review Board
NLCA	Nunavut Land Claims Agreement
NPC	Nunavut Planning Commission
NSA	Nunavut Settlement Area
NTI	Nunavut Tunngavik Incorporated
NTU	Nephelometric Turbidity Unit
NTWR	Northwest Territories Waters Regulations
NWB	Nunavut Water Board
NWNSRTA	Nunavut Waters Nunavut Surface Rights Tribunal Act
NWPP	Navigable Waters Protection Program
O&M	Operations and Maintenance
PAH	Polycyclic Aromatic Hydrocarbons
PC	Project Certificate
PCB	Poly-Chlorinated Biphenyl
PMF	Probable Maximum Flood
PMP	Probable Maximum Precipitation
POP	Persistent Organic Pollutant
PSIR	Project Specific Information Requirement
PVC	Polyvinyl Chloride
QA	Quality Assurance
QC	Quality Control
RBC	Rotating Biological Contactor
RPA	Regional Project Area
SIG	Supplemental Information Guidelines
SS	Suspended Solids
TDS	Total Dissolved Solids
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
TOD	Total Oxygen Demand
TS	Total Solids
TSP	Total Suspended Particulates
TSS	Total Suspended Solids
TK	Traditional Knowledge
UTM	Universal Transverse Mercator
UV	Ultraviolet Light
VOC	Volatile Organic Compound
VEC	Valued Ecosystem Component
WHMIS	Workplace Hazardous Material Information System