

## **Application for Water Licence Amendment**

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**Application Submission Date:** 

11/30/2016

Month/Day/Year

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NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

## **DOCUMENT MANAGEMENT**

Original Document Date: April 2010

## DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	New NWB logo; request for background information; and change to Block 24	April 2013
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(10)		



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عمه، ۵۲۵ ۱۹۷۹ ۱۹۷۹ GJOA HAVEN, NU X0B IJO NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYIT OFFICE DES EAUX DU NUNAVUT

## APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: <u>Licensee Requirements Following the Issuance</u> of a Water Licence for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: 3AM-IQA1626
1. LICENSEE CONTACT INFORMATION
Is the licensee the same as that referred to on the existing licence?
⊠ Yes □ No
If No, a licence assignment must be completed and approved by the NWB. An amendment will only be issued in the name of the current licensee in the absence of assignment of the licence.
If the licensee is the same, but the name of the licensee has changed, attach a certificate of name change.
Name: City of Iqaluit
Address: PO Box 460 Iqaluit, Nunavut XOA 0H0
Phone: 867 979-5600
Fax: 867 979-5922
Email: info@city.iqaluit.nu.ca  2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1
2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.
Name:
Mr. Greg Johnson, P.Eng., M.Sc.A. Project Director - Qikiqtaaluk Environmental
Address: 2027 Iqaluit Lane, PO Box 1228 Iqaluit, Nunavut XOA 0H0
Phone: 866 634-6367 Email: gjohnson@qenv.ca (See attached letter of authorization from the City of Iqaluit, presented in Appendix A.)

3. NAM	ME OF PROJECT
Has the name	ne of the project changed?
	☐ Yes   ☑ No
If Yes, indica	ate the name of the project including the name of the location:
4. LOC	CATION OF UNDERTAKING
Does the pr	roposed amendment change the location of the amended undertaking?
	☐ Yes      No
Provide the	project extents and camp locations. Identify proposed changes.
Project Exte	ents
NE: Latit SE: Latit	tude: (63° 50′ 56.31″ N)  Longitude: (68° 39′ 49.87″ W)  Longitude: (68° 18′ 12.53″ W)  Longitude: (68° 18′ 18.82″ W)  Longitude: (68° 41′ 46.02″ N)  Longitude: (68° 39′ 43.10″ W)
Camp Locat	tion(s) – Not Applicable
Latitude: (	° ' "N) Longitude: ( ° ' "W)
5. MAP	
Does the pro	oposed amendment change the locations of any of the main components of the undertaking?
	☐ Yes       No
Attach a topo	ographical map, indicating the main components of the undertaking. Identify proposed changes.
NTS Map Sh	neet No.: <u>25N10</u> Map Name: <u>HILL ISLAND</u> Map Scale: <u>1:30,000</u>
Map presente	ed in Appendix B
	is the addition of the bioreactor storage basin for the treatment of the contaminated water and the ater treatment equipment.

6.	NATURE OF INTEREST IN THE LAND	
Does the proposed amendment change the nature of the interest in the land?		
	☐ Yes ⊠ No	
lf Y	es, indicate changes	
	eck any of the following that are applicable to the proposed undertaking (at least one box under the rface' 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: Date of expiry:	
	Other	
	Date (expected date) of issuance: Date of expiry:	
	he name of the entity(s) holding authorizations the same as that considered in the existing water ence?	
If N	lo, a licence assignment must be completed and approved by the NWB.	
	me of entity(s) holding authorizations:	

7.	NUNAVUT PLANNING COMMISSION	(NPC) DETERMINATION	
Indicat	Indicate the land use planning area in which the existing project is located.		
	<ul><li>☐ North Baffin</li><li>☑ South Baffin</li><li>☐ Akunniq</li></ul>	☐ Keewatin ☐ Sanikiluaq ☐ West Kitikmeot	
Does t	he proposed amendment change the lan	d use planning area?	
		☐ Yes   ☑ No	
If yes,	If yes, indicate the land use planning area in which the amended undertaking is located.		
	<ul><li>☐ North Baffin</li><li>☑ South Baffin</li><li>☐ Akunniq</li></ul>	☐ Keewatin ☐ Sanikiluaq ☐ West Kitikmeot	
Was a licenc		required from NPC prior to the issuance of the existing water	
If Yes	, indicate date issued and attach copy	August 28,2015 presented in Appendix C.	
Does	the proposed amendment change the or	iginal NPC conformity determination or the need to obtain one?	
		⊠ Yes □ No	
	, indicate date issued (or expected) and a provide written confirmation from NPC confirm	attach a copy. <u>January 15, 2017</u> onfirming that a land use plan conformity review is not required.	
8.	NUNAVUT IMPACT REVIEW BOARD	(NIRB) DETERMINATION	
Was a	a screening determination required from	NIRB prior to the issuance of the existing water licence?	
		⊠ Yes □ No	
If Yes	, indicate date issued and attach copy	November 3, 2014 presented in Appendix D.	
Does one?	the proposed amendment change the or	iginal NIRB screening determination or the need to obtain	
		⊠ Yes □ No	
	, indicate date issued (or expected) and provide written confirmation from NIRB of	attach a copy. <u>January 15, 2017</u> confirming that a screening determination is not required.	

9.	DESCRIPTION OF UNDERTAKING
Does the	e proposed amendment change the description of the undertaking?
	☐ Yes     No
List and	attach plans and drawings or project proposal. Identify proposed changes.
10.	OPTIONS
Does the to carry	e proposed amendment change any of the alternative methods and locations that were considered out the project?
	☐ Yes   ☑ No
	a brief explanation of the alternative methods or locations that were considered to carry out the Identify proposed changes.
11.	CLASSIFICATION OF PRIMARY UNDERTAKING
Indicate boxes:	te the primary classification of undertaking for the existing licence by checking one of the following
	☐ Industrial       ☐ Agricultural         ☐ Mining and Milling (includes exploration/drilling/exploration camps)         ☐ Conservation         ☑ Municipal (includes camps/lodges)       ☐ Recreational         ☐ Power       ☐ Miscellaneous (describe below):
Does th	he proposed amendment change the classification of primary undertaking?
	☐ Yes    No
If Yes,	indicate the primary undertaking of the amendment:
	ation in accordance with applicable Supplemental Information Guidelines (SIG) must be updated and ted with an Application for Amendment. Indicate which SIG(s) are applicable to your application.
	Hydrostatic Testing Tannery Tourist / Remote Camp Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil Onshore Oil and Gas Exploration Drilling Mineral Exploration / Remote Camp Advanced Exploration Mine Development Municipal General Water Works Power

12. WATER USE			
Indicate, using the boxes below, the types of water use(s) approved in the existing licence.			
<ul> <li>☑ To obtain water for camp/municipal purposes</li> <li>☐ To obtain water for industrial purposes</li> <li>☐ To divert a watercourse</li> <li>☐ To cross a watercourse</li> <li>☐ To alter the flow of, or store water</li> <li>☐ Other:</li> </ul>			
Does the proposed amendment change the type(s) of water use(s)?			
☐ Yes     No			
If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of water use(s) noting any water use(s) that are to be added, continued, or removed.			
<ul> <li>To obtain water for camp/ municipal purposes</li> <li>To obtain water for industrial purposes</li> <li>To divert a watercourse</li> <li>To cross a watercourse</li> <li>To modify the bed or bank of a watercourse</li> <li>To alter the flow of, or store water</li> <li>Flood control</li> <li>Other: To store and treat landfill leachate and contact run-off water.</li> </ul>			
13. QUANTITY OF WATER INVOLVED	_		
Does the proposed amendment change the source of water? ☐ Yes ☐ No			
Indicate the water source(s). Identify proposed changes.:			
The water to be used that applies to this amendment is from the Leachate Containment Pond at the Landfill Facility	/.		
(show location(s) on map) – presented in Appendix B.	•		
Does the proposed amendment change the quality of the water source and/or its available capacity?			
☐ Yes   ☑ No			
Describe the quality of the water source(s) and the available capacity(s). Identify any changes.:			
Does the proposed amendment change the overall quantity of water to be used?			
☐ Yes   No			
Provide the overall estimated quantity to be used. Identify proposed changes.:			
Does the proposed amendment change the quantity of water to be used from each source? $\Box$ Yes $\Box$ No			
Provide the estimated quantity(s) of water to be used from each source. Identify proposed changes.:  Contact water from the City of Iquilit Landfill will be treated prior to discharge to reduce contaminants.			

Does the proposed amendment change the quantity of water to be used for each purpose?
☐ Yes  ⊠ No
Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes.:
Does the proposed amendment change the method(s) of extraction? ☐ Yes ☒ No
Describe the method(s) of extraction. Identify proposed changes. :
Does the proposed amendment change the quantity(s) of water returned to source(s)?
☐ Yes   ☑ No
Estimated quantity(s) of water returned to source(s). Identify proposed changes:
Does the proposed amendment change the quality(s) of water returned to source(s)?
☐ Yes  ☒ No
Describe the quality(s) of water(s) returned to source(s). Identify any changes.:
Water will not be returned to source; it will be discharged into Koojesse Inlet. It will be treated to remove metals, suspended solids, BOD¹ and Nitrogen contamination to meet target levels set by Environment and Climate Change Canada, and to pass toxicity testing with Rainbow Trout.
1 Biochemical oxygen demand
14. WASTE
14. WASTE  Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.
Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.
Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.  Sewage Waste oil Greywater Hazardous Sludges
Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.   ☐ Waste oil ☐ Greywater
Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.  Sewage
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15. QUANTITY	AND QUALITY OF W	ASTE INVOLVED		
Does the proposed amendment change the quantity(s) of the types of wastes involved?				
		⊠ Yes □ No		
Does the proposed	amendment change	the composition(s) of th	e types of wastes invo	lved?
		⊠ Yes □ No		
Does the proposed	amendment change	the method(s) of treatm	ent for the types of wa	ste involved?
		⊠Yes □ No		
Does the proposed	amendment change	the method(s) of dispos	al for the types of was	te involved?
If Yes to any of the	above, describe the p	oroposed changes:		
thought pH adjustment, flocculation of suspended solids, biological treatment of BOD and ammonia Nitrogen, pH adjustment and filtration (refer to process flowcharts in Appendix B). Treated water that meets discharge targets will be discharged into Frobisher Bay; waste filter media will be disposed of at an authorized facility in Southern Canada.  For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.				
Southern Canada.  For each type of wa	aste indicated in Block	x 14, describe its compo		
For each type of warmethod of treatmen	aste indicated in Block nt and method of dispo	x 14, describe its compo osal.	osition, quantity in cubic	c meters/day,
Southern Canada.  For each type of wa	aste indicated in Block	x 14, describe its compo		
For each type of warmethod of treatmen	aste indicated in Block at and method of dispo Composition	Quantity Generated  1,000 kg of activated charcoal and 120 kg of ULTRASORPTION Page 1	Treatment Method  Package according to regulations and transport south for	Disposal Method Disposal at an authorized facility in
For each type of warmethod of treatmen  Type of Waste  Solid Waste	Composition  Waste filter media  Sludges from precipitation of metals	Quantity Generated  1,000 kg of activated charcoal and 120 kg of ULTRASORPTION To per year	Treatment Method  Package according to regulations and transport south for disposal	Disposal Method  Disposal at an authorized facility in Southern Canada  In the City of Iqaluit

16. OTHER AUTHORIZATIONS
Does the proposed amendment change the need for other authorizations in addition to the sub-surface and surface land use authorizations provided in Block 6?
☐ Yes ⊠ No
If Yes, indicate any additional authorizations required, which authorizations are no longer required, and which authorizations continue to be required.
For each provide the following:
Authorization:
Administering Agency:
Project Activity:
Date (expected date) of issuance: Date of expiry:
17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES
Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures?
☐ Yes      No
Describe direct, indirect, and cumulative impacts related to water and waste. Identify any changes.
18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS
Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence?
☐ Yes
If Yes, provide the names, addresses and the nature of water use by those persons or properties.
Does the proposed amendment adversely affect any known persons or property including those that hold licences for water use in precedence 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?
☐ Yes   ☑ No
If Yes, provide the names, addresses and the nature of water use of those persons or properties.
Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been reached with any existing or other water users with respect to the proposed amendment.

19.	INUIT WATER RIGHTS	
Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence?		
If Yes	es, which DIO(s)	☑ No
Does Inuit C	s the proposed amendment substantially affect the qua	ality, quantity or flow of waters flowing through
	☐ Yes ②	⊠ No
If Yes loss o	es, advise the Board if negotiations have commenced of or damage has been reached with one or more DIO(s	or an agreement to pay compensation for any ) with respect to the proposed amendment.
20.	CONSULTATION - Provide a summary of any cons held, where and with whom. Include a list of concer	cultation meetings including when the meetings were ms expressed and measures to address concerns.
No con:	nsultations were held related to this project	
21.	SECURITY INFORMATION	
Does	s the proposed amendment change the financial secur	rity assessment?
	☐ Yes ②	⊠ No
Does	s the proposed amendment change the estimate of the	e total financial security for final reclamation?
	☐ Yes 〔	⊠ No
liability Estima third p to the	ide an estimate of the total financial security for final reity for land and water combined sufficient to cover total security for land and water combined sufficient to cover total security for land the cost party contractor if the operator defaults. The estimate particular work to be undertaken. Identify any charten proposed amendment.	the highest liability over the life of the undertaking.  of having the necessary reclamation work done by a te must also include contingency factors appropriate
princip	re applicable, the financial security assessment shoripals respecting mine site reclamation and implement avut, Indian and Northern Affairs Canada, 2002.	ould be prepared in a manner consistent with the tation found in the Mine Site Reclamation Policy for
Not ap	pplicable	

22. FINANCIAL INFORMATION
Is the statement of financial security the same as that considered in the existing water licence?
⊠ Yes □ No
Provide an updated statement of financial security.
If the applicant is a business entity please answer the questions below:
Is the list of the officers of the company the same as those considered in the existing water licence?
☐ Yes ☐ No – N/A
Provide a list of the officers of the company.
Is the Certificate of Incorporation or evidence of registration of the company name the same?
Yes No-N/A
Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.
23. STUDIES UNDERTAKEN TO DATE
List and attach updated studies, reports, research etc.
No studies have been undertaken
Provide a compliance assessment and status report including a response to any inspector's reports. The licensee must contact the NWB for licence specific direction in completing the assessment and report.
One inspection report is attached in Appendix E.
If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-compliance exist.
This amendment application is in response to the observations made during the April 2016 INAC Inspection regarding the West 40 Landfill Post Fire Restorative Work.

24.	PROPOSED TIME SCHEDULE									
When	When are proposed amendments scheduled to be undertaken: <u>June 2017</u>									
Does develo	Does the proposed amendment change the time schedule considered in the existing licence for any phase of development?									
	☐ Yes    No									
Indicate the start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Identify proposed changes.										
	•		06/2016 (month/year		oposed Completion Date:_	06/2016 (month/year)				
	Operation Proposed Sta	Proposed Completion Da (month/year)			ate: <i>Unknown</i>					
	Closure				(month/year)					
		art Date:	Unknown Proposed Completion Date:							
	Post - Closus		(month/year)			(month/year)				
	Proposed St	art Date:	Proposed Completion Date: (month/year)		Unknown (month/year)					
For eac	ch applicable p	phase of dev		,	season(s) activities occur.	(				
	Construction Winter	Spring	⊠ Summer	☐ Fall	☐ All season					
	Operation     Winter	Spring	⊠ Summer	⊠ Fall	☐ All season					
	Closure Winter	Spring	Summer	☐ Fall	☐ All season – N/A					
	Post - Closui Winter	<u>re</u> ☐ Spring	Summer	☐ Fall	☐ All season – N/A					
				***						

25.	PROPOSED TERM OF LICENCE								
On wh	On what date does the existing licence expire?								
Is the Licensee applying for a combined renewal and amendment of the existing licence?									
	☐ Yes      No								
If Yes,	indicate the proposed term of the renewal (maximum of 25 years):								
Reque	sted date of renewal issuance: Requested Expiry Date: (month/year) (month/year)								
licence a licence a use plan accordar	uested date of renewal issuance must be <u>at least</u> three (3) months from the date of application for a Type B water and <u>at least</u> one (1) year from the date of application for a type A water licence, to allow for processing of the water application. These timeframes are approximate and do not account for the time to complete any pre-licensing land ning or development impact requirements, time for the applicant to prepare and submit a water licence application in nince with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for all information. See the NWB's <i>Guide 5: Processing Water Licence Applications</i> for more information)								
26.	ANNUAL REPORTING								
Will the	proposed amendment change the content of annual reports or the annual report template?								
	⊠ Yes □ No								
If Yes, preport.	provide details regarding the content of annual reports and a proposed outline or template of the annual								
Laboratory analytical reports from the treatment will be included with the annual reports.									

27.	CHECKLIST								
The foll	The following must be included with the application for Amendment for the water licensing process to begin.								
	Completed Application for Water Licence Amendment form.								
	⊠ Yes	□No	If no, date expected						
	Information addressing Supplement Information Guideline (SIG), where applicable (see Block 11)								
	Yes	□No	If no, date expected	Not applicable					
	Compliance Assessment / Status Report (see Block 23).								
	Yes	□No	If no, date expected	Not applicable					
	Indication of Renewal Requirement (see Block 26)								
	Yes	□No	If no, date expected	Not applicable					
	English Summary of Amendment Application.								
	⊠ Yes	□No	If no, date expected	Appendix F					
	Inuktitut and/or Inuinnaqtun Summary of Amendment Application:								
	⊠ Yes	Appendix G							
	Application fee of \$30.00 CDN (Payee Receiver General for Canada).								
	Yes	If no, date expected	lanuary 15, 2017						
	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	Not applicable					
28.	SIGNATURE		-						
Greg Johnson, P.Eng., M.Sc.A.  Name (Print)		Project Director, 2016-1: Qikiqtaaluk Environmental Title (Print) Signature Date							
		(1 11	,						