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Date
August 8, 2017
Your Reference
60515379 (600/13)

Sean Joseph Senior Technical Advisor Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

Our Reference 60515379 (600)

Dear Mr. Joseph:

Water Board Licence No. 1BR-KEI722 Amendment Request – CAM-E Environmental Site Remediation

On behalf of Indigenous and Northern Affairs Canada (INAC), we would like to request an amendment to the Water License No. 1BR-KEI722 issued for the CAM-E DEW Line Environmental Remediation Project. The request is to amend the water usage quantity, as detailed below:

In **Section D. General Considerations** of the Water License, the volume of water usage is defined as "fourteen (14) cubic metres of water per day" with "five (5) cubic metres per day for domestic camp use and nine (9) cubic metres per day for construction and remediation activities"; however, it was confirmed that there will be periods of time when the construction activities may require more than the 9 m³/day. Moisture conditioning of the granular material is required for the construction of the Non-Hazardous Waste Landfill, as well as the saturated berms of the Tier II Landfill. The current borrow area is sufficiently saturated such that only minimal moisture conditioning is required; however; should this area dry out or should the other borrow sources have much lower moisture content, then additional water will be required. Based on the latter scenario, there could be the requirement for upwards of 35 m³/day assuming current production rates. Should the construction rates be slower, then the daily usage would be less but would be drawn out over a longer period of time. Overall, this translates to an amendment for water quantity usage, for construction purposes, from 9 m³/day to 35 m³/day.

It should be noted that, if required, this additional volume would be used for an approximate two week period this season and potentially a month during the 2018 construction season. Water sourced for construction purposes has been, and will continue to be, sourced from seasonal wet areas local to the borrow sources and landfill sites – not from Freshwater Lake. These water sources were visually inspected, and based on the depth and observations they believed to not be fish bearing.

Should you have questions or comments, please contact the undersigned at your convenience. Sincerely,

Greg Wright, M.Sc. Project Manager AECOM Canada Ltd.

T: 780-486-5922

E: greg.wright@aecom.com

Attachment 1 - Application for Water Licence Amendment



Application for Water Licence Amendment

Existing license 1BR-KEI7722

Application Submission Date: ___08/08/2017_ Month/Day/Year

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

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DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document	June 2010
	from NWB Guide 7	
(2)	Updated NWB logos and reformatted table to allow rows	May 2011
	to break across page	
(3)	New NWB logo; request for background information; and	April 2013
	change to Block 24	
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



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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: _1BR-KEI722
1. LICENSEE CONTACT INFORMATION
Is the licensee the same as that referred to on the existing licence?
✓ Yes
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 <u>name</u> of the licensee has changed, attach a certificate of name change.
Name:
Address:
Phone: Fax: e-mail:
2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.
Name:
Address:
Phone: Fax:
e-mail:
(Attach authorization letter.)

3.	NAME OF PROJECT	
Has the	ne name of the project changed?	
		Yes ✓ No
If Yes,	indicate the name of the project including the	e name of the location:
4.	LOCATION OF UNDERTAKING	
Does	the proposed amendment change the location	on of the amended undertaking?
		Yes ✓ No
Provid	de the project extents and camp locations. Ic	dentify proposed changes.
Projec	ct Extents	
NW: NE: SE: SW:	Latitude: (68° 18' 13.4" N) Local Latitude: (68° 14' 10.8" N) Local Loca	ongitude: (88° 05' 10.7" W) ongitude: (88° 10' 51.39" W) ongitude: (88° 51' 51.39" W) ongitude: (88° 05' 10.7" W)
Camp	Location(s)	
To be Latitud	e determined and provided prior to establishmude: (° ' "N) Lor	nent ngitude: (° ' "W)
5.	MAP	
Does th	the proposed amendment change the locatio	ns of any of the main components of the undertaking?
		Yes ✓ No
Attach	a topographical map, indicating the main co	mponents of the undertaking. Identify proposed changes.
NTS M	Map Sheet No.: Map Name	: Map Scale:

S. NATURE OF INTEREST IN THE LAND	
Does the proposed amendment change the nature of the	interest in the land?
☐ Yes	√ No
If Yes, indicate changes	
Check any of the following that are applicable to the propersurface' header must be checked).	osed undertaking (at least one box under the
Sub-surface	
☐ Mineral Lease from Nunavut Tunngavik Incorpo	
☐ Mineral Lease from Indian and Northern Affairs Date (expected date) of issuance:	
Surface	
Crown Land Use Authorization from Indian and Date (expected date) of issuance:	` ,
☐ Inuit Owned Land (IOL) Authorization from Kitik Date (expected date) of issuance:	
☐ IOL Authorization from Kivalliq Inuit Association Date (expected date) of issuance:	
☐ IOL Authorization from Qikiqtani Inuit Association Date (expected date) of issuance:	
Commissioner's Land Use Authorization Date (expected date) of issuance:	Date of expiry:
Other	
Date (expected date) of issuance:	Date of expiry:
Is the name of the entity(s) holding authorizations the sam licence?	ne as that considered in the existing water
✓ Yes	□No
If No, a licence assignment must be completed and appro	oved by the NWB.
Name of entity(s) holding authorizations:	

7. NUNAVUT PLANNING COMMISSI	ON (NPC) DETERMINATION
Indicate the land use planning area in which	n the existing project is located.
☐ North Baffin☐ South Baffin☐ Akunniq	☐ Keewatin☐ Sanikiluaq✓ West Kitikmeot
Does the proposed amendment change the	e land use planning area?
	☐ Yes ✓ No
If yes, indicate the land use planning area i	n which the amended undertaking is located.
☐ North Baffin☐ South Baffin☐ Akunniq	☐ Keewatin☐ Sanikiluaq☐ West Kitikmeot
Was a land use plan conformity determinat licence?	ion required from NPC prior to the issuance of the existing water
	☐ Yes ✓ No
If Yes, indicate date issued and attach copy	y
Does the proposed amendment change the	e original NPC conformity determination or the need to obtain one?
	☐ Yes ✓ No
If Yes, indicate date issued (or expected) a If No, provide written confirmation from NP	nd attach a copyC confirming that a land use plan conformity review is not required.
8. NUNAVUT IMPACT REVIEW BOA	RD (NIRB) DETERMINATION
Was a screening determination required from	om NIRB prior to the issuance of the existing water licence?
	☐ Yes ✓ No
If Yes, indicate date issued and attach copy	y
Does the proposed amendment change the one?	e original NIRB screening determination or the need to obtain
	☐ Yes ✓ No
If Yes, indicate date issued (or expected) a If No, provide written confirmation from NIF	nd attach a copyRB confirming that a screening determination is not required.

12.	WATER USE	
Indica	cate, using the boxes below, the types of water use(s) appr	oved in the existing licence.
	☐ To cross a watercourse ☐ To	divert a watercourse modify the bed or bank of a watercourse od control
Does	es the proposed amendment change the type(s) of water us	se(s)?
	☐ Yes ✓ N	0
	es, indicate using the boxes below, the proposed change(s) (s) that are to be added, continued, or removed.	to the type(s) of water use(s) noting any water
	To cross a watercourse	divert a watercourse modify the bed or bank of a watercourse od control
13.	QUANTITY OF WATER INVOLVED	
Does t	s the proposed amendment change the source of water?	☐ Yes ✓ No
Indica	cate the water source(s). Identify proposed changes.:	
(show	ow location(s) on map)	
Does	es the proposed amendment change the quality of the wate	r source and/or its available capacity?
	☐ Yes ✓ No	
Descri	cribe the quality of the water source(s) and the available ca	apacity(s). Identify any changes.:
Does	es the proposed amendment change the overall quantity of	water to be used?
	✓ Yes	0
Provide	ide the overall estimated quantity to be used. Identify prop	osed changes. : 40 m³/day
Does	es the proposed amendment change the quantity of water to	o be used from each source?
	✓ Yes	0
source	vide the estimated quantity(s) of water to be used from each red for construction purposes will continue to be sounded borrow sources and/or landfill sites; water from Fred	rced from low lying, seasonal wet areas local

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.: $35~\text{m}^3/\text{day}$ for construction activities $5~\text{m}^3/\text{day}$ for camp use		
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. : m³/day		
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. :		
14. WASTE		
Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.		
Sewage Solid Waste Hazardous Bulky Items/Scrap Metal Animal Waste Other (describe): Waste oil Greywater Sludges Contaminated soil and/or water		
Does the proposed amendment change the type(s) of waste(s) to be generated or deposited?		
☐ Yes ✓ No		
If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of waste(s) to be generated and/or deposited noting the addition, removal or continued generation and/or disposal of waste(s).		
Sewage Waste oil Solid Waste Greywater Hazardous Sludges Bulky Items/Scrap Metal Contaminated soil and/or water Animal Waste Other (describe):		

5. QUANTITY	AND QUALITY OF W	ASTE INVOLVED		
Does the proposed	amendment change tl	ne quantity(s) of the typ	es of wastes involve	d?
		☐ Yes ✓ No		
Does the proposed	amendment change tl	ne composition(s) of the	e types of wastes inv	olved?
		☐ Yes ✓ No		
Does the proposed	amendment change tl	ne method(s) of treatme	ent for the types of w	aste involved?
		☐ Yes ✓ No		
Does the proposed	amendment change tl	ne method(s) of disposa	al for the types of wa	ste involved?
		☐ Yes ✓ No		
If Yes to any of the a	above, describe the pr	oposed changes:		
Type of Waste	Composition	Quantity Generated	Treatment Method	Disposa Method
Type of Waste	Composition	Quantity Generated	Treatment Method	Disposa Method

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 ✓ No
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?
☐ Yes ✓ No If Yes, which DIO(s)
Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)?
☐ Yes ☐ No
If Yes, advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more DIO(s) with respect to the proposed amendment.
20. CONSULTATION - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.
21. SECURITY INFORMATION
Does the proposed amendment change the financial security assessment?
☐ Yes ✓ No
Does the proposed amendment change the estimate of the total financial security for final reclamation?
☐ Yes ✓ No
Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken. Identify any changes in the financial security assessment resulting from the proposed amendment.
Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the <i>Mine Site Reclamation Policy for Nunavut</i> , Indian and Northern Affairs Canada, 2002.

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
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
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.
Attached report for Waste Water Treatment using Bionest Kodiak rather than sewage lagoon.
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.
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.

24. PROPOSED TIME SCHEDU	ULE								
When are proposed amendments scheduled to be undertaken: _June 20, 2017_									
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.									
Construction Proposed Start Date:(r	(month/corr)	Proposed Completion Date:	(month/your)						
<u>Operation</u>			(montr/year)						
Proposed Start Date:(r	P (month/year)	Proposed Completion Date:	(month/year)						
Closure Proposed Start Date:		Proposed Completion Date:	(month/year)						
Post - Closure	(month/year) Proposed Completion Date:		,						
Proposed Start Date(r	r (month/year)	Toposed Completion Date	(month/year)						
For each applicable phase of development indicate which season(s) activities occur.									
Construction ☐ Winter ☐ Spring ☐]Summer	All season							
Operation Winter Spring] Summer	All season							
Closure ☐ Winter ☐ Spring ☐] Summer	All season							
Post - Closure Winter Spring] Summer	All season							

25. PROPOSED TERM OF LICENCE						
On what date does the existing licence expire?July 16, 2021						
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):						
Requested date of renewal issuance: Requested Expiry Date: (month/year) (month/year)						
(The requested date of renewal issuance must be <u>at least</u> three (3) months from the date of application for a type B water licence 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 licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's <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, provide details regarding the content of annual reports and a proposed outline or template of the annual report.						

27.	CHECKLIST							
The fo	ollowing must be includ	led with the applica	tion for Amendment	for the water licensing	process to begin.			
	Completed Application for Water Licence Amendment form.							
	✓ Yes	□No	If no, date expe	ected				
	Information addressing Supplement Information Guideline (SIG), where applicable (see Block 11)							
	Yes	□No	If no, date exp	ected				
	Compliance Assessment / Status Report (see Block 23).							
	☐Yes	□No	If no, date exp	ected				
	Indication of Renewal Requirement (see Block 26)							
	☐Yes	□No	If no, date exp	ected				
	English Summary of Amendment Application.							
	✓ Yes	□No	If no, date expe	ected				
	Inuktitut and/or Inuinnaqtun Summary of Amendment Application.							
	☐ Yes	□No	☐ No If no, date expected					
	Application fee of \$30.00 CDN (Payee Receiver General for Canada).							
	Yes	es No If no, date expected						
	Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.							
	☐ Yes	☐ No	If no, date expe	ected				
28.	SIGNATURE							
	Greg Wright AECC Project M			and C	August 8, 2017			
	Name (Print)	Title	(Print)	Signature	Date			