

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

Document Date: November 2013

Application Submission Date:	
	Month/Day/Year

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

Tel: (867)360-6338 Fax: (867)360-6369 kNK5 wmoEp5 vtmpq NUNAVUT IMALIRIYIN KATIMAYIT NUNAVUT WATER BOARD OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

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



P.O. Box 119

TEL: (867) 360-6338

FAX: (867) 360-6369

kNK5 wmoEp5 vtmp5 GJOA HAVEN, NU X0B 1J0 NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYIT OFFICE DES EAUX DU NUNAVUT

GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: Guide to Completing and Submitting a Water Licence Application for a New Licence for more information about this application form.

LICENCE NO: (for NWB use only)		
1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION (name, address) Natalie Plato Director, Contaminated Sites Aboriginal Affairs and Northern Development Canada PO Box 2200 Iqaluit NU X0A 0H0 Phone: 867-975-4730 Fax: : 867-975-4736 e-mail: natalie.plato@aandc-aadnc.gc.ca 2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address) N/A Phone: Fax:		
3. NAME OF PROJECT (including the name of the	e project location)	
Contwoyto Lake, Former Weather Station Remediati	ion Project – 2014-2016 Field Program	
4. LOCATION OF UNDERTAKING		
Project Extents		
NW: Latitude: (65°29'21.13" N) Longitude: (110°23' NE: Latitude: (65°29'21.13" N) Longitude: (110°21' SE: Latitude: (65°28'51.84" N) Longitude: (110°21' SW: Latitude: (65°28'51.84" N) Longitude: (110°23' Comp. Longitude: (110°23' NE) Longitude: (110°21' NE) Longitude: ('8.18" W) '14.60" W)	
Camp Location(s)		
Latitude: (65°28'58.34" N) Longitude: (110°22	'5.25" W)	
5. MAP - Attach a topographical map, indicating the	ne main components of the undertaking.	
Maps of the Contwoyto Lake Project Area are in App	pendix 5.	

NTS N	Map Sheet No.: 076E08	Map Name: Contwoyto Lake	Map Scale: <u>1/50,000</u>
6.		IN THE LAND - Check any of t least one box under the 'Surfac	he following that are applicable to the ce' header must be checked).
	Sub-surface		
		ınavut Tunngavik Incorporated ssuance: Dat	(NTI) e of expiry:
		dian and Northern Affairs Canad ssuance: Dat	da (INAC) e of expiry:
	Surface		
		norization from Indian and Northssuance:March 2014_ Da	nern Affairs Canada (INAC) ite of expiry: <mark>March 31, 2016</mark>
		.) Authorization from Kitikmeot ssuance: <mark>April 2014</mark> Da	
	☐ IOL Authorization from Date (expected date) of is	Kivalliq Inuit Association (KivIAssuance: D	A) ate of expiry:
		Qikiqtani Inuit Association (QIAssuance: Dat	A) e of expiry:
	Commissioner's Land Date (expected date) of is		e of expiry:
	Other:	ssuance: Dat	e of expiry:
Name	e of entity(s) holding authoriz	ations:	
Abori	ginal Affairs and Northern	Development Canada – Con	taminated Sites
7.	NUNAVUT PLANNING C	OMMISSION (NPC) DETERMI	INATION
	Indicate the land use plar	nning area in which the project i	s located.
	☐ North Baffin ☐ South Baffin ☐ Akunniq	 Keewatin Sanikiluaq West Kitikme	eot
	Is a land use plan conform	nity determination required?	
	Yes	✓No	
		ed and attach copy Applying s firmation from NPC confirming t	imultaneously . that a land use plan conformity review

	irmation from the NPC ial notice is pending.	confirming that a land use plan conformit	y review is not required,
8.	NUNAVUT IMPACT	REVIEW BOARD (NIRB) DETERMINATION	
	Is an Article 12 Part	4 screening determination required?	
	☐Yes	✓ No	
		ssued and attach copy confirmation from NIRB confirming that a scr	eening determination is not
		v Board (NIRB) Part 1 and Part 2 Forms are cation. Copies of the forms can be found	
9.	DESCRIPTION OF U	INDERTAKING – List and attach plans and d	rawings or project proposal.
deter acco mob Delta	rmined by Delta Enginerding to the weather in ilization and demobiliza/Carter will be respon	ite will be accessed with an ice airstrip or leering Ltd and Carter Industries Ltd in Joir the area in the winter of 2014. They will all ation permits. AANDC will be responsible sible for all associated Mobilization and Decompleted during the summer of 2014, the	nt Venture (Delta/Carter) Iso apply for their own for on-site permitting only and emobilization permitting.
	regulatory app	to be determined by weather conditions a	nd submitted under separate
	c. Existing site in	of a camp to support site operations. Ifrastructure will be demolished and demonstrates and disposes and non-hazardous materials and disposes.	
	d. All hazardous	materials will be disposed of, at an off-site s wastes will be disposed of, at an off-site	e licensed disposal facility.
	f. Existing debri g. A Contaminar	s areas at this site will be remediated as de t Treatment Area (CTA) will be constructed contaminated soil.	
		nated Soil will be disposed of at an off-site	e appropriately licensed
	j. Barrels with li will either be i transported o	soils will be handled as described in the Fixe contents will be consolidated, depending noinerated on-site or shipped off site for difficity for an appropriately licensed disposance debris and partially buried debris (nor	ng on test results the contents isposal. Empty barrels will be all facility.
		of off-site in an appropriately licensed dis	

Site remediation activities will take place on both Crown Land and Inuit Owned Land (IOL).

remediation work.

I. Roads and the airstrip will be re-constructed and repaired as required

The final site demobilization for this site is planned for March of 2015. All site closure reports and project closure will be done by March 2016. All project, supplies, and contaminated material will be

m. Several borrow sources will be developed and the material will be used during the

shippe	ed off-site to an appropriately licensed disposal facility.
10.	OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.
	emedial Action Plan (RAP) provided in Appendix 4 considers alternative remedial methods ndling the environmental issues at the site.
11.	CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.
	☐ Industrial ☐ Agricultural ☐ Mining and Milling (includes exploration/drilling/exploration camps) ☐ Conservation ☐ Municipal (includes camps/lodges) ☐ Recreational
	☐ Power
	Preparation for Remediation Project (scheduled to be started in 2014)
	See Schedule II of Northwest Territories Waters Regulations for Description of Undertakings.
	Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.
	 Hydrostatic Testing ☐ Tannery ☑ Tourist / Remote Camp ☑ Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil ☐ Onshore Oil and Gas Exploration Drilling ☐ Mineral Exploration / Remote Camp ☐ Advanced Exploration ☐ Mine Development ☐ Municipal ☐ General Water Works ☐ Power
12.	WATER USE - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.
	 ✓ To obtain water for camp/ municipal purposes ✓ To obtain water for industrial purposes ☐ To divert a watercourse ☐ To modify the bed or bank of a watercourse ☐ To alter the flow of, or store water ☐ Other:
13.	QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.
	Name of water source(s) (show location(s) on map):

Contwoyto Lake (See Appendix	(5)
Contwoyto Lake will be sample meets Canadian Drinking Wate potable water source (the lake project). If it requires treatment applicable guidelines.	source(s) and the available capacity: _ ed prior to using the lake as drinking water. If the sample or Quality Guidelines (CDWQG) then it will be used as a has sufficient capacity to meet water needs for the t, bottled water will be used until treatment reaches antity of water to be used:~_1.5 m³/day
	of water to be used from each source: ke: ~1.5 cubic metres per day
	to be used for each purpose (camp, drilling, etc.) etres per day
Describe the method of extraction	n(s):Submersible Pump
	2
Estimated quantity(s) of water ret	rurned to source(s)0 m³/day
Estimated quantity(s) of water ret Describe the quality of water(s) re	
Describe the quality of water(s) re	
Describe the quality of water(s) re WASTE – Check the appropriate	eturned to source(s):N/A
Describe the quality of water(s) re WASTE – Check the appropriate deposited.	eturned to source(s):N/A e box(s) to indicate the types of waste(s) generated and
Describe the quality of water(s) re WASTE – Check the appropriate deposited. Sewage	eturned to source(s):N/A e box(s) to indicate the types of waste(s) generated and W Waste oil

15. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Black Water	7.5 litres of ash/day for 15 people (max)	Pacto Toilets - Dual chambered incineration	Consolidate ashes and ship to dispose of ashes off-site
Waste Oil	Oil	< 300 L	Collected in drums	Shipped south for recycling and/or disposal
Solid Waste	Camp waste (Paper, packaging, food, etc.)	15 L of ash daily	Incineration (combustible s only)	Packaged and shipped off-site for disposal
Greywater	Grey Water	1500 litres/day	Bio-Barrier	Treat, Test

16.

		for 15 people (max)	membrane	and release
Hazardous Waste – PCBs, Heavy Metals	Items contaminated with PCBs and Heavy Metals	~14 m³	Material will be packaged as per the requirements of the Transportatio n of Dangerous Goods Regulations	Shipped south for treatment and/or disposal at Licensed Hazardous Waste Facilities
Non - hazardous waste	Scrap metal	~125 m³	Material will be collected, consolidated and transported off-site	Shipped to an appropriately licensed disposal facility
Contaminated Soil – Tier II	Soil lightly contaminated with metals	Total = ~50 m ³	Packaged and shipped south for disposal	Packaged and shipped south for disposal
Untreated Clean Wood	Untreated Clean Wood	15 m ³	Open burn clean wood	Open burn clean wood.

provided in Block 6, indicate any other auth undertaking. For each provide the following	orizations required in relation to the proposed g:
Authorization:	
Administering Agency:	
Project Activity:	
Date (expected date) of issuance:	Date of expiry:

OTHER AUTHORIZATIONS – In addition to the sub-surface and surface land use authorizations

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

"Environmental Screening Assessment of the Proposed Remediation of the Contwoyto Former Weather Station Contwoyto Lake, Nunavut" Prepared by SENES in October 2013. This report can be found in Appendix 6.

18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline

holders, and holders of other rights of a similar nature.

NONE

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

N/A

19. INUIT WATER RIGHTS

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

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.

A community meeting to review and discuss the draft Remedial Action Plan (RAP) was held in Kugluktuk in Jan of 2013. The results of this meeting were used to finalize the RAP. Comments were recorded during the community consultation (Many personal stories dating back to the 60s-80s during the active weather station times). The traditional knowledge provided has allowed a better remediation plan to be developed. An Archaeological Impact Assessment of the Contwoyto Lake site was completed and can be found in Appendix 8.

No concerns were raised with regards to the proposed remediation work during this meeting. Additional community meetings will be held throughout the project to keep community members up to date on project activities and employment/contracting opportunities.

21. SECURITY INFORMATION

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

N/A

22. FINANCIAL INFORMATION

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

N/A

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

A list of stu	dies, reports, etc. are provided in the table below:		
Date	Title	Author	Location
2008	Arctic King Operations (Fuel Bladder) Operations Manual	SEI Industries (Provided by Delta/Carter)	Available Upon Request
2009	Abandoned Military Sites Remediation Protocol (AMSRP)	INAC	Available Upon Request
2011	Integrated Phase I and Phase II Environmental Site Assessment WK117 – Contwoyto Lake	WESA	Available Upon Request
2013	Contwoyto Lake Weather Station Final Phase III ESA	SENES	Available Upon Request
2013	Delta /Carter Ltd Joint Venture Mobilization / Demobilization Options Plan & Supplemental Information	Delta/Carter	Appendix 10
applicable phase of development (construction, operation, closure, and post closure). Construction Proposed Start Date:February 2014 (month/year)			
For each applicable phase of development indicate which season(s) activities occur.			
	struction /inter ☐ Spring ☑Summer ☑ Fall ☐ All season		
	<u>ration</u> /inter ☐ Spring ☑Summer ☑ Fall ☐ All season		
Post	ure /inter ☐ Spring ☐ Summer ☒ Fall ☐ All season - Closure /inter ☐ Spring ☐ Summer ☒ Fall ☐ All season		

25.	PROPOSED TERM OF LICENCE
	Number of years (maximum of 25 years):Five_(5) years
	Requested Date of Issuance:February 2014 Requested Expiry Date:January_2019 (month/year) (month/year)
licence water licensing licence a respond	quested date of 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 cence application. These timeframes are approximate and do not account for the time to complete any pregland use planning or development impact requirements, time for the applicant to prepare and submit a water application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to to requests for additional information. See the NWB's <i>Guide 5: Processing Water Licence Applications</i> for formation)
26.	ANNUAL REPORTING – If not using the NWB's <u>Standardized Form for Annual Reporting</u> , provide details regarding the content of annual reports and a proposed outline or template of the annual report.
Will us	e the NWB Standardized Form for Annual Reporting.

27.	CHECKLIST – The following must be included with the application for the water licensing process to begin.			
	Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.			
	☐ Yes Licence (August 20	⊠ No 013)	If no, date expected Submitted same time as Wa	ater
	Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.			
	Yes	⊠ No	If no, date expectedDecember 2013	
	Completed General Water Licence Application form.			
	ĭ Yes	☐ No	If no, date expected	
	Information addressing Supplemental Information Guideline (SIG), where applicable (see Block 11)			
	ĭ Yes	□No	If no, date expected	
	English Summary of Application.			
		□No	If no, date expected	
	Inuktitut and/or Inuinnaqtun Summary of Application.			
	ĭ Yes	□No	If no, date expected	
	Application Fee of \$30.00 CDN (Payee Receiver General for Canada).			
	☐ Yes	⊠ No	If no, date expected	
	Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.			
	☐ Yes	☐ No	If no, date expected	_
28.	SIGNATURE			
Natalie Plato		Director, La Contamina Title (P	ed Sites //WAULU NA	118/