



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee		Licensee Representative	
Scott Lamoureux, Dr. Department of Geography Queen’s University Kingston, ON K7L 3N6		Sean Arruda	
Licence No. / Expiry		Representative’s Title	
3BC-CBA1015 Exp. September 30, 2015		Project co-lead / camp leader	
Land / Other Authorizations		Land / Other Authorizations	
Date of Inspection		Inspector	
11/07/2016		A.Keim	
Activities Inspected			
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other: Water Discharge	<input type="checkbox"/> Other: Municipal	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Fuel Storage			

Conditions:		A - Acceptable	C - Concern	U - Unacceptable	NA – Not Applicable	NI – Not Inspected					
Water Use		Condition	Comment	Site Conditions		Condition	Comment	Haz/Mat Management		Condition	Comment
Intake/Screen	NA			Water Management Structures				Storage		A	
Flow Measure. Device	NA			Culverts / Bridges		NA		Spills		NA	
Source: see figure 2	A			Drainage		NA		Spill Plan		A	
Water Use:	A			Erosion / Sediment		NA					
Recirculation (y /n)	NA			Mitigation Measures		NA		Administrative			
				Reclamation Activities		NA		Records		C	
				Materials Storage		NA		Reports		A	
Waste Disposal				Signage		NA		Plans		NI	
Waste Water	C							Notifications		NA	
Solid Waste	NI			Monitoring				Other			
Hazardous Waste	A			Sample Collection / Analysis		NA					
*The number in the comments field will correspond with specific comments provided below.											
Samples taken by Inspector:				Location(s):							
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											

SECTION 1	<input checked="" type="checkbox"/> Comments (s.__)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.__)	<input type="checkbox"/> Action Required (s.__)
Cape Bounty Arctic Watershed Observatory Melville Island: The purpose of the Research camp on Melville island is to investigate past climate changes and river fluctuations using sediment cores, flow rates, water sampling and soil samples from Pelly Bay. The camp is in water management area “NUNAVUT 4” and was approved for 5 cubic meters per annum, while in camp the licensee representative estimated roughly .02 cubic meters a day. The camp is located at Latitude: 74° 54’ N Longitude: 109° 35’ W and at the time of the inspections consisted of; <ul style="list-style-type: none">• 9 people• 10 two person tents surrounded by a bear fence• 1 kitchen tent• 1 lab tent• 1 latrine tent• 1 storage tent• 1 snowmobile• 1 Kawasaki ATV• 9 100lb cylinders of propane and 2.5 drums of gasoline on secondary containment Observations: a) Fuel storage: While on site the camp contained; 2.5 drums of Jet fuel, Nine (9) 100lbs propane tanks and six (6) 20lbs propane tanks. All fuel on site was stored properly with easy access to spill kits. b) Water Usage: The camp consumes roughly 20L of water, during the inspection the water was collected from an ephemeral stream to the north of the camp.			



- c) **Waste Disposal:** The only waste being deposited on site is grey water discharged to a sump near the camp. All other waste produced on site is shipped out including; old batteries, ash from human waste and all other garbage.

Issues identified during the period of the Inspection:

- a) **Records:** During the inspection the Licensee was unaware of the obligation to record the following;
- i. The quantity of water, in cubic meters, used each day
 - ii. the quantity of waste, in cubic meters, deposited each day,
 - iii. All waste backhauled off site,
 - iv. GPS co-ordinates of waste related to the camp site.
- b) **Licence:** During the inspection the Licensee was unable to produce a copy of the Licence to the inspector. (the last camp manager had left with the folder containing records and copies of the required paperwork)
- c) **Location of Grey water sump:** During the inspection it was noticed that the grey water sump is located uphill of, and very close to, your camp; we advise moving the sump some distance from the camp..

SECTION 2

☐ Comments (s.__)

☒ Non-Compliance with Act or Licence (s.__)

☐ Action Required (s.__)

Non-Compliance with Act or Licence:

We advise the Licensee to comply with all terms and conditions related to the Licence.

Nunavut Water Regulations, Section 14,(a); A Licensee must maintain accurate and detailed books and records of

(i)the quantity of water, in cubic meters, used each day

(ii) the quantity of waste, in cubic meters, deposited each day

(iii) the type of waste deposited each day,

Nunavut Water Board License 3BC-CBA1015, Part B, Section 9; “The Licensee shall ensure a copy of this Licence is maintained at the site of operations at all times.”

Nunavut Water Board License 3BC-CBA1015, Part D, Section 7;

“The Licensee shall maintain records of all waste backhauled and records of confirmation of proper disposal of backhauled waste. These records shall be made available to an Inspector upon request.”

SECTION 3

☐ Comments (s.__)

☐ Non-Compliance with Act or Licence, (s.__)

☒ Action Required (s.__)

Recommendation:

Following the inspection and in consultation with the licensee the Inspector recommends closure of license 3BC-CBA1015 in favour of the recently issued authority without a license 8WLC-CBA1617.

The Licensee is reminded to review the Authority without a license as there are reporting and other requirement that must be met annually and are subject to inspection.

Photo Log			
Date	Authorization	Camera	Inspector
11/07/2016	3BC-CBA	Sony Cyber shot	A. Keim



Figure 1View of entire camp



Figure 2Water source



Figure 3 Grey water sump

Licensee or Representative	Inspector's Name
	A. Keim
Signature	Signature
	Sent by Email. Original on file
Date	Date
	July 23,2016

Office Use Only:	Follow-up report to be issued by Inspector	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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