



ENVIRONMENTAL INSPECTION FORM

☐ Original
☒ Follow-Up Report

Licensee		Licensee Representative	
Hamlet of Sanikiluaq		Kenny Pearce (Hamlet) & Bhabesh Roy (CGS)	
Licence No. / Expiry		Representative's Title	
3BM-SAN1214 (Expired)		Assistant Foreman & Municipal Planning Engineer	
Land / Other Authorizations		Land / Other Authorizations	
N/A		N/A	
Date of Inspection		Inspector	
02/09/2014		Erik Allain	
Activities Inspected			
<input type="checkbox"/> Camp <input type="checkbox"/> Drilling <input type="checkbox"/> Mining <input type="checkbox"/> Construction <input type="checkbox"/> Reclamation <input type="checkbox"/> Fuel Storage			
<input type="checkbox"/> Roads/Hauling <input checked="" type="checkbox"/> Other: Water Discharge <input checked="" type="checkbox"/> Other:			

Conditions: **A - Acceptable** **C - Concern** **U - Unacceptable** **NA – Not Applicable** **NI – Not Inspected**

Water Use			Site Conditions			Haz/Mat Management		
	Condition	Comment		Condition	Comment		Condition	Comment
Intake/Screen	A		Water Management Structures	A		Storage	U	
Flow Measure. Device	C	1	Culverts / Bridges		NA	Spills	C	
Source:	A		Drainage		NI	Spill Plan		
Water Use:	A		Erosion / Sediment	A				
Recirculation (y /n)			Mitigation Measures		NA	Administrative		
			Reclamation Activities		NA	Records	A	
			Materials Storage	C		Reports		
Waste Disposal			Signage			Plans		
Waste Water	C	3				Notifications		
Solid Waste			Monitoring			Other		
Hazardous Waste	U	2	Sample Collection / Analysis	A				

**The number in the comments field will correspond with specific comments provided below.*

Samples taken by Inspector:	Location(s):
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none">Sanikiluaq Lake water intakeSewage lagoonLandfill runoff

SECTION 1	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
-----------	--	---	--

Background

On September 2nd, 2014, an inspection was conducted in the Hamlet of Sanikiluaq for the Municipal Water License 3BM-SAN1214 (Expired). The inspection was conducted in collaboration with Bhabesh Roy, Municipal Planning Engineer and Kenny Pearce, Hamlet Assistant Foreman. The inspection was focused on determining compliance with the conditions of the water license related to water use, waste disposal and general waste management. Water samples were taken at the Sanikiluaq Lake water intake, the community sewage lagoon and from runoff at the landfill.

Inspectors Observations

Water Use

Since the last inspection in 2012, several upgrades and non compliance issues have been addressed at the pumphouse:

- Electronic chlorine pumps have been installed
- Chlorine readings are available onsite
- Water treatment filters have been replaced
- A fish screen has been installed at the water intake

1) The Hamlet currently records water drawn from the lake with meters installed on the water trucks. This method does not capture all water used as water used for activities such as dust suppression is not reported and recorded. It is recommended that a water meter be installed at the water intake to ensure compliance with Part B item 1(b) of the Water License that states that water from all sources must be recorded and reported.

Waste Disposal



Some waste segregation has started since the last inspection as wood, metal, hazardous materials and household waste is being separated. However, all household waste is indiscriminately burned in an open burn box. Measures should be taken to ensure materials such as plastics, treated wood, Styrofoam and other materials described in Part D item 11 of the Water License are not burned inadvertently.

- 2) The hazardous waste storage area is inadequate. The area is not lined and no secondary containment is in place to capture any spills. Waste such as glycol and waste oil are stored in barrels with no plan of removing them from site and sent to a licensed waste disposal facility as per Part D item 9 of the Water License. During the inspection, spills were observed onsite which is an area of concern that required attention. Several barrels are significantly rusted suggesting that leaks will continue occur.
- 3) The un-engineered sewage disposal lagoon had 1 meter of freeboard as required in the Water License. There is no way of controlling the discharge of the lagoon when it is full. The effluent simply overtops the natural lagoon contour; therefore the effluent may not meet discharge criteria when entering the environment. M. Roy indicated during the course of this inspection that plans were being drawn for a new sewage lagoon for the community. Sewage effluent samples were taken as sampling point SAN-4.

The lagoon effluent sample results indicate that all parameters were well within the requirements of the Water License:

Parameter	SAN-4 result	Maximum Concentration of any Grab Sample
Faecal Coliforms	2 /100ml	1x10 ⁶ CFU/dl
BOD5	1.3 mg/L	120 mg/L
Total Suspended Solids	< 5 mg/L	180 mg/L
Oil and Grease	No visible sheen observed	No visible sheen
pH	7.96	Between 6 and 9

SECTION 2



Comments



Non-Compliance with Act or Licence



Action Required

General:

Much has been done since the last inspection to address the non-compliance issues identified in the previous inspection report. Current Hamlet staff work in collaboration with CGS Municipal Planning Engineers to ensure the terms and conditions of the Water License are met. Notable examples of progress made since last inspection are improved record keeping and regular sampling. Also on a positive note, at the time of inspection, a copy of the draft Operation and Maintenance Manual, along with the associated plans was presented to the inspector. The inspector looks forward to reviewing the final version of the Manual. In closing, it is recognised that significant of time and effort has been deployed by Hamlet staff and CGS Municipal Planning Engineers to ensure compliance with the terms and conditions of the Water License. Moving forward, attention should be focused on improving waste management practices, especially related to Hazardous Waste Management.

SECTION 3



Comments



Non-Compliance with Act or Licence



Action Required

Inspector's Name

Erik Allain

Inspector's Name

Signature

Signature

Date

October 10th, 2014

Date

Office Use Only: Follow-up report to be issued by Inspector



Yes



No



Photo Appendix



Photo 1: Hazardous Waste improperly stored, spill stains visible on the ground.



Photo 2: Hazardous waste storage area.