

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Geological Survey of Canada	Holly Steenkamp/Lorraine Lebeau
Licence No. / Expiry	Representative's Title
8WLC-FHG1819	Geologist
Land / Other Authorizations	Land / Other Authorizations
N2018N0012	
Date of Inspection	Inspector
August 13, 2020	Joseph Monteith
Activities Inspected	
<div><div><input checked="" type="checkbox"/> Camp</div><div><input type="checkbox"/> Drilling</div><div><input type="checkbox"/> Mining</div><div><input type="checkbox"/> Construction</div><div><input checked="" type="checkbox"/> Reclamation</div><div><input checked="" type="checkbox"/> Fuel Storage</div></div> <div><div><input type="checkbox"/> Roads/Hauling</div><div><input type="checkbox"/> Other:</div><div><input type="checkbox"/> Other:</div></div>	

Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:				Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT					
B: GENERAL CONDITIONS				A	
C: CONDITIONS APPLYING TO SECURITY				NI	
D: CONDITIONS APPLYING TO WATER USE				A	1-3
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT				A	4-5
F: CONDITIONS APPLYING TO MODIFICATIONS				NI	
G: CONDITIONS APPLYING TO CONSTRUCTION				NI	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING				A	6-9
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING				A	1-9
J: CONDITIONS APPLYING TO MONITORING				A	
SCHEDULES				A	
*The observation number corresponds with specific comments provided below.					
Samples taken by Inspector:		Location(s):			
<input type="checkbox"/> Yes <input type="checkbox"/> No					

SECTION 1

☐ Comments (s. __)

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

☐ Action Required (s. __)

BACKGROUND

The Fury and Hecla Geoscience Project had planned on a camp based along the Jungerson River. However, because of very wet conditions, there was no area suitable for the Twin Otter to land during the 2019 camp reconnaissance flight. The final location of the 2019 camp was the Gifford River Camp (the same location as the 2018 Fury and Hecla field camp), where there was an already established airstrip. Two fuel caches in total were established off the camp site.

Fresh water was pumped from the Gifford River once or twice daily into the 500 L plastic water reservoir in the shower tent. A water pump (1860 gal/hour) along the river’s edge and a water hose refilled the reservoir. The water pump was equipped with a filter and placed in a submerged plastic bucket to avoid the suction of sediment, debris, bugs, or fish. The amount of water used daily was typically less than 1000 L per day. The amount of water used was recorded daily as shown in the table below (Table 1).

The first day recorded was June 28th; before this date, the Discovery Mining Services building crew (5 people) hauled limited amounts of water by bucket. In total, approximately 21,880 L of water was pumped for drinking, cooking, cleaning, showering, and dishwashing from June 28th to August 2nd. During camp take-down, Discovery Mining Services returned to the campsite and resumed hauling minimal amounts of water by bucket. Greywater from both the shower and kitchen sink was funneled through a grease-trap and then into a hand-dug sand pit. All soaps were biodegradable.

The camp had an outhouse that was placed over a hand-dug sand pit in well-drained sandy-soil. Once the pit was nearly full, the pit was buried and a new one was dug nearby and the outhouse moved to the new pit. In camp only the disposal of human waste was permitted. All other types of waste were collected for incineration. Waste items such as glass, metals, and remaining ash from the incinerator was back-hauled and disposed of in Igloolik’s municipal dump. All waste was incinerated daily to avoid the attraction of wildlife. All electrical waste including batteries and printer cartridges were brought back with the field equipment to the CNGO’s office in Iqaluit.

The water license 8WLC-FHG1819 was issued on April 5, 2018 and expired on April 4, 2019. The GSC was authorized for 1 cubic metre of water per day, and deposit of waste.

Inspector Statement

On August 11, 2020. An Aerial Survey was conducted by Water Resource Officer(WRO) Joseph Monteith at the site of 8WLC-FHG1819 Gifford River Camp, Fury and Hecla Camp, Not Paul’s Fuel Cache, Jame’s Fuel Cache, Helipad/fuel cache, Qikiqtani Region, Nunavut, to verify compliance with the terms and conditions of the Water Licence 8WLC-FHG1819.

Gifford River Camp both camp sites. (photos 1, 2, 3),

Water use

1. Fresh water was pumped from the Gifford River once or twice daily into the 500 L plastic water reservoir in the shower tent. A water pump (1860 gal/hour) along the river’s edge and a water hose refilled the reservoir. The water pump was equipped with a filter and placed in a submerged plastic bucket to avoid the suction of sediment, debris, bugs, or fish. The amount of water used daily was typically less than 1000 L per day. The amount of water used was recorded daily as shown in the table below
2. A total of 21880 Litres was extracted for water use at this camp site.
3. All camp infrastructure in regards to water use was demobilized.

Fury and Hecla Camp (photos 4, 5)

Wastes

4. All solid Waste was brought back to Iqaluit
5. All human waste was deposited in a latrine, and buried when project was completed.

Fuel Caches

6. No signs of fuel cache, or fuel spill at sites for:
7. “Helipad/Fuel Cache”(photo 6)
8. “Not Paul’s Fuel Cache” (photo 7)
9. “James Fuel Cache”(photo 8)

SECTION 2

☒ Comments

☐ Non-Compliance with Act or Licence

☒ Action Required

No Signs of water diversions to water course, no waste was left behind, no signs of spills at both camps.

No Signs of Spills or diversion to water course

The sites was returned back to its natural state

I recommend FINAL CLOSURE of 8WLC-FHG1819


SECTION 3

☐ Comments

☒ Non-Compliance with Act or Licence

☐ Action Required

[Click here to enter text.](#)

Licensee or Representative	Inspector’s Name
	Joseph Monteith
Signature	Signature
	
Date	Date
	August 20, 2020

CC: Licensing Department, NWB
Justin Hack, Manager of Field Operations, CIRNAC

PHOTO LOG

Date	Camera	Inspector
August 11, 2020	Nikon Coolpix	Joseph Monteith
Photo Log #	Location	
Photo 1	Gifford River, Qikiqtani Region, NU	



Description: Airstrip, and Fuel cache foot print. Camp was on opposite site of airstrip,

Photo Log #1	Location
Photo 2	Gifford River, Qikitani Region, NU



Description: water source was the Gifford River

Photo Log #1	Location
Photo 3	Gifford River, Qikiqtani Region, NU



Description: Only footprint is the airstrip and the pad where the fuel cache was located.

Photo Log #1	Location
Photo 4	Fury and Hecla Camp , Qikiqtani Region, NU



Description: Site of Fury and Hecla Camp




Photo Log #1	Location
Photo 5	Fury and Hecla Camp , Qikiqtani Region, NU



Description: Site of Fury and Hecla Camp

Photo Log #1	Location
Photo 6	Helipad Fuel Cache , Qikiqtani Region, NU



Description: Gifford River Helipad/Fuel Cache – no fuel cache



Photo Log #1	Location
Photo 7	Not Paul's Fuel Cache , Qikiqtani Region, NU
<div><div></div><div></div></div>	
Description: "Not Paul's Fuel Cache" – no fuel cache	

Photo Log #1	Location
Photo 8	James Fuel Cache , Qikiqtani Region, NU
<div><div></div><div></div></div>	
Description: Jame's fuel cache – no fuel cache	