



WATER LICENCE INSPECTION FORM

☒ Original  
☐ Follow-Up Report

Licensee	Licensee Representative
DeBeers Canada Inc.	David Willis
Licence No. / Expiry	Representative's Title
2BE-CHI1823	Environmental and Community Coordinator
Land / Other Authorizations	Land / Other Authorizations
N2018C0002	
Date of Inspection	Inspector
August 18, 2021	Joseph Monteith
Activities Inspected	
<input checked="" type="checkbox"/> Camp <input type="checkbox"/> Roads/Hauling	<input checked="" type="checkbox"/> Drilling <input checked="" type="checkbox"/> Other: Tailings (CH-07), Drill site CH-06
<input type="checkbox"/> Mining	<input type="checkbox"/> Construction <input type="checkbox"/> Other:
<input type="checkbox"/> Reclamation	<input checked="" type="checkbox"/> Fuel Storage

Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:				Condition	Observation No.*
A: SCOPE, DEFINITIONS AND ENFORCEMENT				NI	
B: GENERAL CONDITIONS				A	
C: CONDITIONS APPLYING TO SECURITY				NI	
D: CONDITIONS APPLYING TO WATER USE				A	2, 3, 13, 14, 23
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT				A	10, 15, 16, 28
F: CONDITIONS APPLYING TO MODIFICATIONS				NI	
G: CONDITIONS APPLYING TO CONSTRUCTION				A	
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING				A	6-9,11,12, 21, 27
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING				A	
J: CONDITIONS APPLYING TO MONITORING				A	
SCHEDULES				A	
*The observation number corresponds with specific comments provided below.					
Samples taken by Inspector:	Location(s): Discovery: Lat/Long; N64° 14.424' , W66° 20.757' CH-06: Lat/Long; N64° 19.410'N , W66° 31.506'W CH-07 Tailings: Lat/Long ; N64.25707 W66.3450				
<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. __)
<b>BACKGROUND</b> Nunavut Water Licence 2BE-CHI1823 is issued to Peregrine Diamonds Ltd for the use of 246 cubic metres of water per day and the disposal of waste for camp operations and activities related to exploration including diamond drilling, large diameter reverse-circulation drilling, and other associated activities.  Land Use Permit #N2018C0002 issued to Peregrine Diamonds Ltd May 25th, 2017 for the use of land for Mining exploration and associated activities.  Water Use and Waste Disposal is authorized through this licence at the Chidliak Project, supported from the Discovery, Sunrise, Aurora, and CH-6 Camps located on the Hall Peninsula.  On April 30, 2018 a renewal license extending the water license 2BE-CHI1823 to May 31, 2023. <b>Inspector Statement</b>  On August 18, 2021, a water licence inspection was conducted Peregrine Diamond's Chidliak sites, Qikiqtani Region, Nunavut, for water licence2BE-CHI1823. The inspection was conducted at Peregrine Diamond's Chidliak sites Discovery Camp, CH-06 Drill site, Water Withdrawal Site(spill report 2017-320), and CH-07 Tailings. During the inspection the Chidliak sites were active. <b>General Condition</b>  On January 6, 2021. Kayla Carter, Nunavut Water Board emailed a copy of the 2019 Annual Report. <b>Inspection</b>  Discovery camp  1. Active Discovery Camp – Chidliak, DeBeers (photo 1). 2. 13 weather havens, 1 garage weather haven, 9 wooden buildings, 6 heavy equipment, 2 x mobile fuel			



tanks(photo 12,13) in secondary containment, 2x water storage tanks with housing, wood piles, approximately 10-15 sea cans, numerous drill core boxes.

- 3. Water withdrawal location. Water pump (photo 2) No hose in water, no fish mesh screen observed. Stream hasn't been drawn down. But is a very low flow. Signs of algae growth, site was in a state of seasonal closure due to COVID (photo 3).
- 4. Fuel Cache 1 - 26 barrels of fuel in secondary containment. Signage observed, spill kit observed (photo 3).
- 5. Fuel Cache 2 –approximately 60 barrels of diesel in secondary containment. Signage observed (photo 4).
- 6. Fuel Cache 2 – Carbon Filter was disconnected, and the berm was not sealed (photo 5 ).
- 7. Spill Kit, and Fuel Transfer Station box (photo 6).
- 8. Fuel Cache 3 – Approximately 60 drums of Jet-A fuel. Berm contained liquid, but a leak was observed (photo 22, 23)
- 9. Refuelling station – covered (photo 7 & 8).
- 10. Empty Fuel Drums being flown to Iqaluit (photo 9).
- 11. Fuel barrel for weather haven heater – liquid in secondary containment (photo 10).
- 12. Fuel barrel for weather haven heater -liquid in secondary containment (photo 11).
- 13. Mobile Water Storage Tanks (photo 12).
- 14. Mobile Water Storage Tank pumps and hoses (photo 13).
- 15. Sump Pit (Photo 26).
- 16. Latrine (Photo 27).

Spill Report 2017-230

- 17. Site of Spill 2017-230. Sign of grey water (photo 14).
- 18. Site of Spill Report 2017-320 (photo 15).
- 19. Site of Spill Report 2017-320 – sign of grey water. No samples taken.
- 20. A few spill reports should have been submitted for the leak on Fuel cache 3, the discharge of berm water due to disconnected carbon filter, and sheening next to the helicopter refuelling cache(photos 5, 7, 23).

CH-06 Drill site (photo 16)

- 21. 2 x drill rigs 1 x fuel cache with secondary containment, drill recycle sump pit, emergency campsite (photo 16).
- 22. Water pump for sump pit for recycling drill water (photo 17).
- 23. The natural Sump, for recycled drill water (photo 18).
- 24. Drill water storage tanks, water pumps, and fuel tanks for water pumps. Secondary containment for fuel storage (photo 18).
- 25. Drill shack – Drilling in active and damaged shack, drill motor exposed to the external elements. Shut down due to COVID (photo 19 & 20).
- 26. Drill motor base, has hydrocarbon absorbent pads to mitigate the impact of a hydrocarbon spill. Battery uninstalled (photo19 & 20 ).
- 27. fuel cache. With spill kit next to storage tank 9 drums observed in secondary containment, and a few pails of hazardous material (photo 21).
- 28. CH-07 Tailings – No issues (photo24).

Sunrise Camp

- 29. Sunrise Camp. No concerns (photo 25)


SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
<div>-Submit 2020 inspection report, and ensure in future that you submit annual report as per Part B: Item 2.</div> <div>-follow up with Spill Repot 2017-230 to verify if the spill has been cleaned up.</div> <div>-verify that 3 spill reports were submitted that were observed on the day of the inspection.</div>			
SECTION 3	<input checked="" type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
<div>Part B: General Condition, Item 2.</div> <div>The Licensee shall file an Annual Report on the Appurtenant Undertaking with the Board no later than March 31<sup>st</sup> of the year following the calendar year being reported, containing the following information:</div> <div>a. A summary report of Water use and Waste disposal activities;</div> <div>b. Quantity of Water (in cubic metres/day) obtained for domestic and other purposes from sources on, in or flowing through Inuit-owned lands for the reporting period;</div> <div>c. Quantity of Water (in cubic metres/day) obtained for domestic and other purposes from sources on, in or flowing through Crown Lands reporting period;</div> <div>d. Quantity of Waste disposed of on on-site Waste disposal facility;</div> <div>e. Quantity of Waste backhauled to approved facility for disposal;</div> <div>f. A list of unauthorized discharges and a summary of follow-up actions taken;</div> <div>g. Any revisions to the Spill Contingency Plan and Closure and Reclamation Plan,</div>			



- as required by Part B, Item 7, submitted in the form of an Addendum;
- h. A description of all progressive and or final reclamation work undertaken, including photographic records of site conditions before, during and after completion of operations;
  - i. Report all artesian flow occurrences as required under Part F, Item 3;
  - j. A summary of all information requested and results of the Monitoring Program;
  - k. Details pertaining to locations of sump(s) and drill holes;
  - l. GPS co-ordinates (in degrees, minutes and seconds of latitude and longitude) for the locations of all temporary camps established in support of the project if the actual coordinates differ from that provided in the application;
  - m. A summary, including photographic records before, during and after any relevant construction activities or Modifications and/or major maintenance work carried out on facilities under this Licence and an outline of any work anticipated for the next year;
  - n. Detailed discussion on the performance, installation, and evaluation, including the use of photographic record, of the primary and secondary containment functions used in fuel storage to safeguard impacts to freshwaters;
  - o. A summary of public consultation/participation, describing consultation with local organizations and residents of the nearby communities, if any were conducted;
  - p. Any other details on Water use or Waste disposal requested by the Board by the 1<sup>st</sup> November of the year being reported.

Part H: Item 5

- If during the term of this Licence, an unauthorized discharge of Waste occurs, or if such a discharge is foreseeable, the Licensee shall:
- a. Employ the approved Spill Contingency Plan;
  - b. Report the spill immediately to the 24-Hour Spill Line at (867) 920-8130 and to the Inspector at (867) 975-4295; and
  - c. For each spill occurrence, submit to the Inspector and the NWB, no later than thirty (30) days after initially reporting the event, a detailed report that will include the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.

Licensee or Representative	Inspector's Name
	Joseph Monteith
Signature	Signature
	
Date	Date
	November 30, 2021

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



PHOTO LOG

Date	Camera	Inspector
July 25, 2019	Nikon Cool Pix	Joseph Monteith
Photo Log #	Location	
Photo 1	Chidliak –Discovery Camp	



Description: Discovery Camp – Active site

Photo Log #	Location
Photo 2	Chidliak – Discover Camp Water Source



Description: Site of water withdraw





Photo Log #

Location

Photo 3

Chidliak – Discovery Camp



Description: Discovery Camp - Fuel Cache 1 – 26 barrels of Jet-A fuel in secondary containment

Photo Log #

Location

Photo 4

Chidliak – Discovery



Description: Fuel Cache – Approximately 60 drums of fuel in secondary containment, spill kit observed.





Photo Log #	Location
Photo 5	Chidliak – Discovery



Description: Fuel cache 2 at discovery camp was found with detached carbon hose filter.

Photo Log #	Location
Photo 6	Chidliak – Discovery



Description: Helicopter Fuel Transfer Station, and Spill Kit Box





Photo Log #

Location

Photo 7

Chidliak – Discovery



Description: Fuel Transfer Station for helicopter refuelling. Signs of spills. Fuel Cache 3 in the background

Photo Log #

Location

Photo 8

Chidliak – Discovery



Description: Spill Kit at the Helicopter Transfer Station.





Photo Log #

Location

Photo 9

Chidliak – Discovery



Description: Empty fuel drums ready for departure.

Photo Log #

Location

Photo 10

Chidliak – Discovery



Description: Incinerator, fuel cache in secondary containment, spill kit





Photo Log #

Location

Photo 11

Chidliak – Discovery



Description: Secondary containment on storage tank for heating full.

Photo Log #

Location

Photo 12

Chidliak – Discovery



Description: Mobile Water Storage tanks





Photo Log #

Location

Photo 13

Chidliak – Discovery



Description: Mobile Water Storage Tank

Photo Log #

Location

Photo 14

Chidliak – Site of Spill Report 2017-320



Description: Site of Spill Report 2017-320. No signs of spill or spill migration. Drum observed along the coasts of the river.





Photo Log #

Location

Photo 15

Chidliak – Site of Spill Report 2017-320



Description: Site of Spill Report 2017-320 – No sign of spill, or spill migration

Photo Log #

Location

Photo 16

Chidliak – CH-06



Description: CH-06 Campsite





Photo Log #

Location

Photo 17

Chidliak – CH-06



Description: Drill water sump pit.

Photo Log #

Location

Photo 18

Chidliak – CH-06



Description: Drill water storage tanks, water pumps, and fuel tanks for water pumps. Secondary containment for fuel storage.





Photo Log #

Photo 19

Location

Chidliak – CH-06



Description: Drill shack – Drilling inactive. Shut down due to COVID.

Photo Log #

Photo 20

Location

Chidliak – CH-06



Description: Drill Shack, motor exposed to the outside elements due to damage to the shack.



Photo Log #	Location
Photo 21	Chidliak – CH-06



Description: fuel cache in secondary containment. Spill Kit Observed in close proximity. Walls compromised. Secondary containment did not contain any liquid.

Photo Log #	Location
Photo 22	Chidliak – Discovery Camp



Description: fuel cache 3 in secondary containment. Liquid contained in berm. Leak on the carbon filter observed.





Photo Log #

Location

Photo 23

Chidliak – Discovery Camp



Description: fuel cache in secondary containment. Carbon filter “rain drain” sprung a leak at the connection point.

Photo Log #

Location

Photo 24

Chidliak – CH-07 Tailings



Description: CH-07 Tailings





Photo Log #	Location
Photo 25	Chidliak – Sunrise Camp
	
Description: Sunrise Camp: wind blown debris, no fuel in fuel cache. Site is for emergency use.	

Photo Log #	Location
Photo 26	Chidliak – Sunrise Camp
	
Description: Discovery Camp, Sump Pit for grey water waste	





Photo Log #

Photo 27

Location

Chidliak – Discovery Camp



Description: Latrine for brown water waste