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Yellowknife, NT  
X1A 2R3

March 13<sup>th</sup> 2018

INAC – CARD Gordon Lake Remediation Project

**RE: Water Licence MV2016L8-0006 – Gordon Lake Project – Inspection**

Dear Mr. Ogilvie,

An inspection of the CARD Gordon Lake remediation project was completed by Resource Management Officer Tim Morton on March 1<sup>st</sup> 2018. The inspection was conducted to ensure compliance with the terms and conditions of the water licence and approved management plans.

The environmental inspection report is attached along with pictures of the site that were taken during the inspection. If you have any questions or concerns please contact me at (867) 669-2442.

Thank you,

Tim Morton  
Resource Management Officer (Inspector)  
Resource and Lands Division  
Indigenous and Northern Affairs Canada

cc. INAC – CARD  
INAC – Resource and Land Management  
MVLWB  
DNV



## WATER LICENCE ENVIRONMENTAL INSPECTION REPORT

Licensee:	INAC - CARD	Inspection Date – March 1 <sup>st</sup> 2018
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<b>Water Licence No.</b>	MV2016L8-0006	<b>Last Previous Inspection:</b>	February 1 <sup>st</sup> 2018
<b>Quantity of water not to be exceeded:</b>	299 Cubic Meters / Day	<b>Licence Expiry Date:</b>	December 18 <sup>th</sup> 2023
<b>Contractor:</b>	Delta Nahanni JV	<b>Subcontractor:</b>	

Location(s) Inspected:	Gordon Lake Remediation Area
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Current Stage of Operation:	Active Remediation
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Program Modifications Approved:	Excavation Within 100 Meters of the OHWM
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Compliance with Items: “A” - Acceptable “U” - Unacceptable “N/A” - Not Applicable

Part	Licence Items	Compliance with Items	Item # and Comments
A	Scope	A	
B	General Conditions	A	
C	Conditions Applying to Water Use	A	
D	Conditions Applying to Construction	A	
E	Conditions Applying to Modifications	A	
F	Conditions Applying to Water and Waste Management	A	
G	Conditions Applying to Contingency Planning	A	
H	Conditions Applying to Closure	A	



## ENVIRONMENTAL INSPECTION REPORT Pg. 3 (Continued)

Date: March 1 <sup>st</sup> 2018	Licence #: MV2016L8-0006
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Explanatory Remarks	
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An inspection of the INAC CARD Gordon Lake remediation project was completed by Resource Management Officer Tim Morton on March 1<sup>st</sup> 2018. The Inspector was accompanied by representatives from Nahanni Construction, INAC CARD, Stantec, Delta Engineering, and Government of Canada Public Works.

Excavation of waste rock on Zenith Island and Camlaren was being completed at the time of the inspection (Photo #1, #4, and #5). Site representatives inquired into the approval to excavate waste rock from the immediate lake bed around the islands. The Inspector approved the excavation based on the fact that they would not be excavating in the water and only in land fast ice areas. The Inspector also explained that they must stop this excavation if they encounter any water. The Inspector also requested that any sediment on the ice as a result of the excavations is removed prior the spring shutdown.

The Inspector noted no concerns with any of the portages or ice roads built to support the project. All of the portages appeared to have at least 10 cm's of ice/snow pack and there were no signs of rutting at the time of the inspection (Photo #2). There was a large area of tailing covered with sand at Burnt Island (Photo #3). The Inspector explained that this area needs to be recontoured in order to avoid water ponding during snow free conditions.

The Inspector noted that the bermed area for the fuel tank farm was lined and appeared to be well constructed (Photo #7). Site representatives requested that the Inspector approve the practice of creating stockpiles of quarried material that is higher than two meters. The Inspector agreed with this practice as it will minimize the footprint of the project on the Camlaren site.

There were no concerns noted with the quarrying activities at the Westbay site (Photo #9). Onsite representatives explained that the quarrying was easier than expected and that there was plenty of material present within the quarry area. The Inspector explained that care should be taken to not over quarry onto GNWT lands without letting the GNWT Inspector know ahead of time.

There were multiple seacans, trailers, and fuel tanks placed on the ice near Kidney Pond (Photo #10). The Inspector explained that all of this equipment must be removed prior to spring break up and the area be scrapped to ensure there is no deposit of material into Gordon Lake during freshet.

The camp at Zenith Island appeared to be well maintained and operated. The Inspector discovered that plastic was being burnt in a barrel behind the camp (Photo #12). This practice is not acceptable and all plastic must be removed from site and disposed of in accordance with the approved waste management plan.

Overall, the Inspector had no concerns with the operation with the exception of the burning of plastic.

Please feel free to contact the undersigned Inspector at any time if you have any questions or concerns.

Completed off Site  
Representative's Signature

Tim Morton  
Inspector

Original Signed  
Inspector's Signature



**Photo #1: Overview of the excavation of material within 100 meters of the OHWM on Zenith Island.**



**Photo #2: Portage on Burnt Island accessing the tailings cover.**



**Photo #3: Overview of the tailings cover on Burnt Island. Note that this will need to be regraded to ensure that ponding does not occur.**



**Photo #4: Overview of the excavation of waste rock at Camlaren.**





**Photo #5: Overview of the excavation of waste rock at Camlaren.**



**Photo #6: Overview of the tailings cap on Camlaren.**



**Photo #7: Overview of the fuel tank secondary containment constructed on Camlaren.**



**Photo #8: The boundary between Federal and GNWT lands at the Westbay quarry.**





**Photo #9: Overview of quarrying activities at the Westbay quarry.**



**Photo #10: Overview of the equipment staged on the ice near Kidney Pond.**



**Photo #11: Excavated waste rock and contaminated soil area located at Kidney Pond.**



**Photo #12: Burn barrel located behind Zenith Island Camp. Note that there was non-burnable material in the barrel at the time of the inspection.**



**Photo #13: Grey water discharge located south of the Zenith Camp.**