



Emily Finstad
Regulatory Specialist
Wek'èezhìi Land and Water Board
#1-4905 48th St
Yellowknife, NT X1A 3S3

Dear Ms. Finstad:

Water Licence W2020L8-0002 Annual Report: NWT Highway 3 – km 240-243

The Government of the Northwest Territories' Department of Infrastructure (GNWT-INF) is pleased to submit the Annual Report for water licence on Highway 3 (W2020L8-0002).

The project scope included:

- a) Supply, load, haul, place and compact 300 mm minus blast rock for embankment construction
- b) Load, haul, place and compact 50mm Subbase Coarse Aggregate
- c) Load, haul, place and compact 20mm Base Coarse Aggregate
- d) Supply and Installation of an 800 mm diameter culvert at km 242.2
- e) Supply and application of single asphaltic surface treatment

If you have any questions please contact Alexis Campbell via email at alexis_campbell@gov.nt.ca or by phone at 867-767-9083 ext 31055.

Sincerely,

Alexis Campbell
Environmental Analyst
Design and Technical Services
Department of Infrastructure



**ANNUAL WATER
LICENCE REPORT FOR
YEAR 2021**

The Wek'èezhii Land and Water Board (hereinafter referred to as “the Board”) issued a Type B water license W2020L8-0002 on January 25, 2021, to Government of the Northwest Territories Department of Infrastructure to undertake maintenance of the NWT Highway 3, including construction of an embankment, replacement of a culvert at km 242.2, and placement of fill into ponded wet areas from Km 240-243 (selected sections) to bring the road grade to the design height.

This report was prepared and is being submitted to the Board to fulfil the requirement of the water license mentioned in Part B: General Conditions, Condition 17.

Here is the information required under this report:

a. **A brief summary of completed Project Activities**

A construction contract was awarded to Tlicho Engineering & Environmental Services Ltd. on May 31, 2021, to rehabilitate two sections from Km 240.31 to Km 240.75 and from Km 241.75 to Km 242.75, replacement of a culvert at km 242.2, and placement of fill into ponded wet areas from Km 240-243 (certain selected sections). All these works are part of the ongoing maintenance activities and to improve safety and riding comfort of the Highway 3. The project scope included to:

- a) Supply, load, haul, place and compact 300 mm minus blast rock for embankment construction
- b) Load, haul, place and compact 50mm Subbase Coarse Aggregate
- c) Load, haul, place and compact 20mm Base Coarse Aggregate
- d) Supply and Installation of a 800 mm diameter culvert at km 242.2
- e) Supply and Application of Single Asphaltic Surface Treatment

b. **An updated Project schedule**

All project work for the rehabilitation of roadway from Km 240.31 to Km 242.75 (Two Locations) – Highway 3 was completed August 31, 2021, and contractor was demobilized from the construction site. All the work was done as per the project specifications and water licence.

c. **A summary of engagement activities conducted in accordance with the approved Engagement Plan, Part B, Condition 18**

Regarding the progress of this construction project following parties were informed via emails in summer 2021:



- The Wek'èezhii Land and Water Board
- Fisheries and Oceans Canada

d. **A summary of Construction activities conducted in accordance with Part C of the Licence**

There was no discharge associated with the Project Construction activities entering to any water body.

- **A summary of major maintenance activities conducted in accordance with this Licence**

- a) Supply, load, haul, place and compact 300 mm minus blast rock for embankment construction
- b) Load, haul, place and compact 50mm Subbase Course Aggregate
- c) Load, haul, place and compact 20mm Base Course Aggregate
- d) Supply and Installation of a 800 mm diameter culvert at km 242.2
- e) Supply and Application of Single Asphaltic Surface Treatment

- **The monthly and annual quantities, in cubic metres, of each and all Waste Discharges, and deposits to Waste Disposal Facilities, identified by location;**

There was no monthly or annual discharge associated with the Project construction activities under this license.

Old culverts removed from the existing location were deposited to Waste Disposal facility in Behchokq.

- **A description of any erosion susceptible areas encountered and a summary of activities to prevent or mitigate erosion**

There are no erosion susceptible areas encountered along the project location from km 240.31 to km 242.75 (two locations). As a preventive measure at certain locations, silt fences and silt curtains were installed to mitigate any potential sediment occurrence. They performed well and did not release any sediment to the adjoining wetlands.

Following are the locations where silt fences or silt curtains were installed:

| Schedule of areas requiring silt curtain and/or silt fence (approx. limits) | | | | |
|---|--|---------|------------|--------------|
| Serial No. | Approx. locations for the installation of silt fence and silt curtain (km) | | Length (m) | |
| | From | To | Silt fence | Silt curtain |
| 1 | 240+370 | 240+400 | 20 | 30 |
| 2 | 240+470 | 240+490 | | 20 |
| 3 | 240+590 | 240+635 | 25 | 50 |
| 4 | 240+650 | 240+750 | 25 | 100 |



| | | | | |
|---|---------|---------|----|-----|
| 5 | 241+790 | 241+850 | 20 | 60 |
| 6 | 241+870 | 241+910 | 30 | 40 |
| 7 | 242+240 | 242+280 | 40 | |
| 8 | 242+350 | 242+450 | 40 | 100 |

e. **A report of the performance of erosion mitigations applied in previous years**

As a precautionary measure silt fences and silt curtains were installed at a certain locations (see item “g”) to mitigate any potential sediment incident. They remain intact throughout the project duration.

f. **A summary of activities conducted in accordance with the approved Spill Contingency Plan, referred to in Part E, Condition 2:**

The contractor was provided all management plans associated with the water licence.

- i. There was no Unauthorized Discharge during construction season in summer 2021.
- ii. There was no specific spill training carried out for this project. Our contractor, Tlich Engineering & Environmental Services Ltd. and their subcontractor, have a strong Corporate Environmental Policy and Spill Contingency Plan. Their crews are very much aware of potential spills and how to deal with them based on years of working experience in sensitive areas like the Winter Road Project, where equipment is always working on ice and near frozen waterways.

These practices were carried over to this construction project with the presence of spill kits during quarrying operations like the work performed at the km 246.2 – Highway 3 quarry. Service vehicles also carried spill kits on the ready when dealing with heavy equipment. Parked equipment utilized drip pans. Camp facilities are posted with all emergency contact info including the spill hotline. Weekly safety meetings were a platform for revisiting these items and the new hire orientations touch on the subject.

g. **A summary of any Closure and Reclamation work completed:**

No reclamation work was undertaken as all project activities happened within the road Right of Way and there was no additional disturbance to the natural land. All work being done was to repair the existing roadway.

h. **A list of any non-compliance(s) with the conditions of this Licence or any directive from the Board pursuant to the conditions of this Licence:**

There is not any “non-compliance” with the conditions of this Licence to be reported.

i. **A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an Inspector:**



There is not any “concern, non-conformance, or deficiency report” filed by the Inspector with the conditions of this Licence to be reported.

j. **Any other details requested by the Board by November 1 of the year being reported:**

Nothing to be reported

k. **A summary of how Traditional Knowledge was incorporated into decision making:**

No Traditional Knowledge was incorporated into the decision making