

RWC-1016 2023 Inspection

Tamihi 3.7km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1016

User km 3.7

Project File # 5127.06

FSR Name Tamihi

District Chilliwack

Road Responsibility DCK (Chilliwack)

Design Function Fill Slope

Design Function Other

Structure Type GRS

Structure Type Other

Facing Type Welded Wire Mesh

Facing Type Other

Year Installed 2012

Last Inspection 2021

Design Info Available Yes

Latitude 49.050790

Longitude -121.823146

Measurements

Max. Length (m) 62

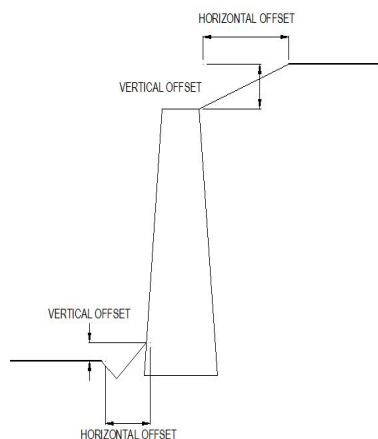
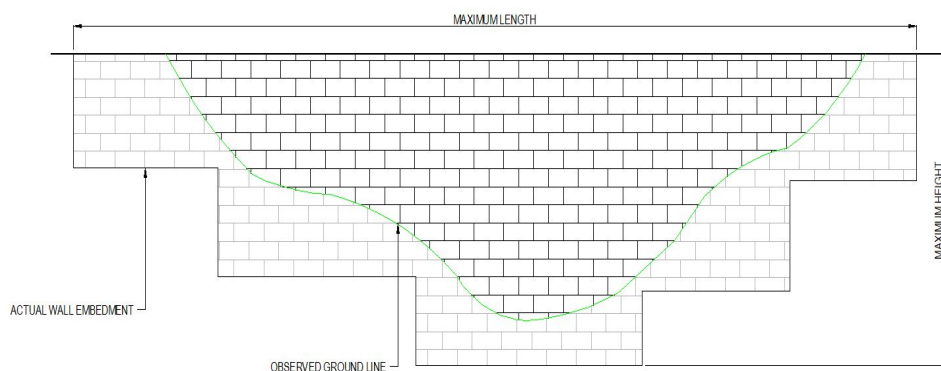
Max. Height (m) 8

Vertical Offset (m)

Horizontal Offset (m) 8

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Good	Welded wire mesh and geotextile are in good shape with some bulging noted in the bottom third of the wall where it appears saturated. Top of wall woods side shows some damage but since it's at top this can be repaired.
Drainage System	Good	Splash pad and drain socks all appear to be functioning well.
Foundation Material	Good	Foundation holding up with splash pad functioning at preventing erosion.
Wall Movement Indicators	Fair	Some bulging observed but no curves indicating foundation settlement observed.

Secondary Elements

	Rating	Comments
Surface Drainage	Good	Ditch established.
Road	Good	
Lateral Slope	Good	
Upslope	Fair	
Downslope	Good	
Traffic Barrier	Poor	Filled up with road fill such that barrier is retaining fill rather than functioning as a barrier.
Signage Delineators	Poor	
Vegetation	Yes	

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Retaining Wall Inspection Report

Name of Inspector	<u>Daniel Stein</u>
Inspection Company	<u>Ministry of Forests</u>
Date of Inspection	<u>2023-05-03 3:50 PM</u>
Professional Inspection Required	<u>Yes</u>
Overall Wall Condition Rating	<u>Fair</u>
Failure Consequence	<u>Moderate: Some loss of road prism intermittent or low exposure of people to constant exposure. May require some wall repair.</u>
Road Status	<u>Active</u>

Inspector Summary Comments

Prior to providing comments review previous inspection reports and design/construction information where available.

Barrier needs to be reestablished and culvert inlet needs to be cleaned out.

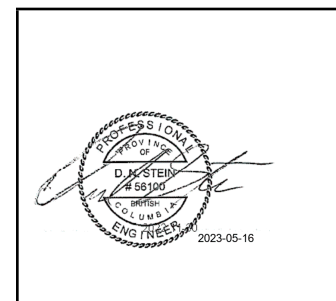
Sketch (Select Signature)

Provide sketch if required.

Inspector's Authentication:

The inspector is responsible for the quality and completeness of the inspection, unless working under direct supervision of a Professional Engineer.

Permit to practice number
(where applicable).



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Monitoring, Maintenance & Repair Recommendations

Monitoring, maintenance and repair recommendations are provided by the inspector and finalized by the reviewing Ministry Engineer.

Monitoring, maintenance and repair items carry forward until completed (refer to previous inspection records).

Maintenance/Repair

Item	Status	Priority	Description	Ministry Engineer Comment
1	Suggested	High	Reestablish traffic barrier.	
2	Suggested	High	Clean culvert inlet.	
3	Suggested	High	Repair top of wall woods side where fill has spilled out of failed wire mesh.	

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1			
2			
3			

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Ministry Engineer Review

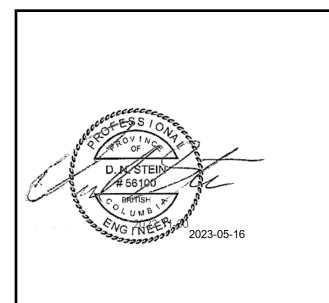
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>1 year</u>
Recommended year of next inspection	<u>2024</u>

Professional Engineer Comments

Repair failed elements of upper wall at woods side, clean culvert inlet, and reestablish traffic barrier.

Professional Engineer's Authentication:

The reviewing Professional Engineer is responsible for the review of the inspection report and any arising recommendations. The undersigned does not warrant or guarantee, nor accept any responsibility for the accuracy or completeness of the inspection or supervision of the inspector. Furthermore, the undersigned does not warrant or guarantee construction record information supplied or created by others not under the undersigned's direct supervision. By authenticating this report, the undersigned accepts responsibility for review of the report and information and recommendations provided by the undersigned.



1003022

Permit to practice number



Town approach



Failed grs wall



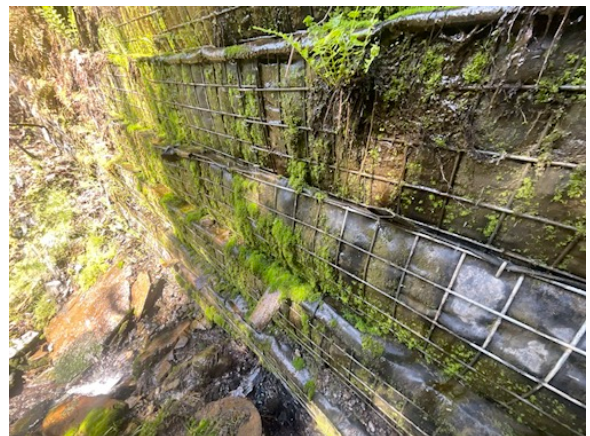
Inlet



Seepage



Woods approach



Bulging deformed wall town side

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