

RWC-1019 2023 Inspection

Tamihi 4.2km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1019

User km 4.2

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 2020

Design Info Available Yes

Latitude 49.047686

Longitude -121.820407

Measurements

Max. Length (m) 17

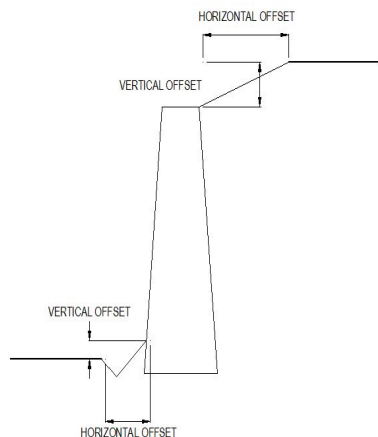
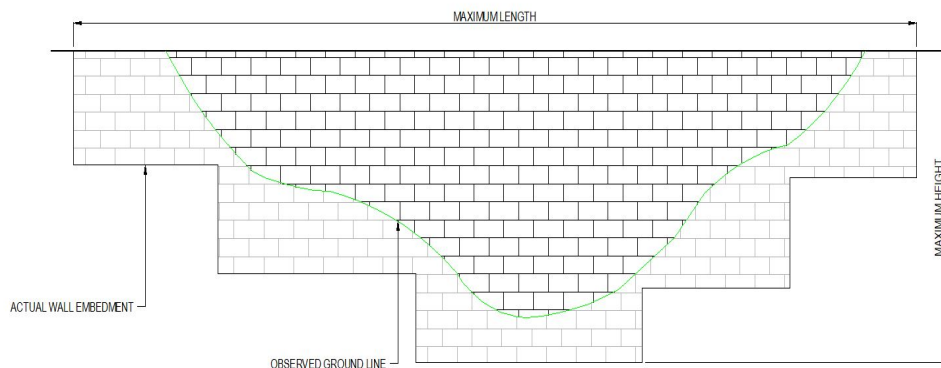
Max. Height (m) 4

Vertical Offset (m)

Horizontal Offset (m) 4

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Poor	Still functioning but very apparent bulging and signs of stress indicating the wall is yielding.
Drainage System	Fair	Drain socks apparent however ditch is completely filled with unravelled material.
Foundation Material	Good	Stacked rocks appear to be holding up well. Failing wall appears to be located in wall rather than foundation.
Wall Movement Indicators	Poor	

Secondary Elements

	Rating	Comments
Surface Drainage	Poor	
Road	Fair	
Lateral Slope	Good	
Upslope	Poor	
Downslope	Good	
Traffic Barrier	Fair	
Signage Delineators	Poor	
Vegetation	Yes	

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Retaining Wall Inspection Report

Name of Inspector	Daniel Stein
Inspection Company	Ministry of Forests
Date of Inspection	2023-05-03 4:43 PM
Professional Inspection Required	Yes
Overall Wall Condition Rating	Fair
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	Active

Inspector Summary Comments

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

Elements of the wall are yielding and are under stress but it's still functioning as a retain wall with a good foundation and drain system.

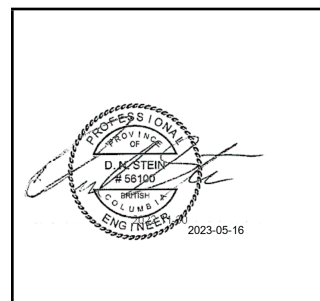
Sketch (Select Signature)

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				

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1	1 year	Monitor annually	

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Ministry Engineer Review

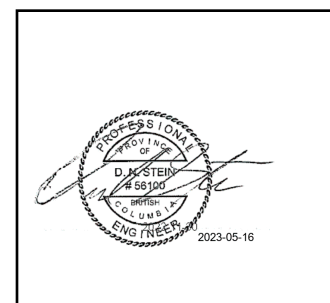
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>1 year</u>
Recommended year of next inspection	<u>2024</u>

Professional Engineer Comments

GRS elements indicating signs of high stress. Monitor annually to assess progress of bulging.

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, unstable upslope.



Grs wall on mse stacked rocks.



Big rock rolled into barrier.



Facing



Woods approach no ditch.



Failing layer in bottom grs system.

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