

RWC-1012 2023 Inspection

American 2.01km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1012

User km 2.01

Project File # 8123.01

FSR Name American

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 2008

Last Inspection 2021

Design Info Available No

Latitude 49.426111

Longitude -121.453333

Measurements

Max. Length (m) 15

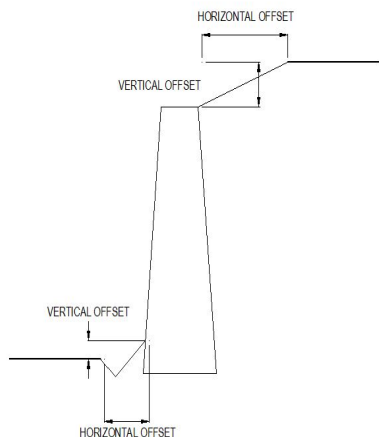
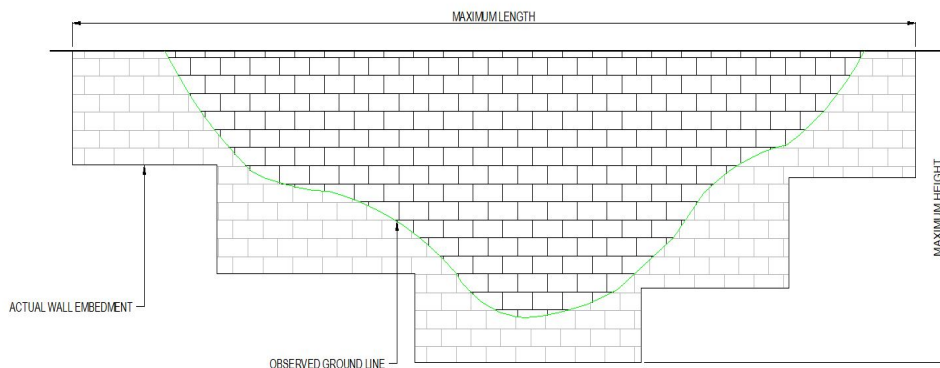
Max. Height (m) 5

Vertical Offset (m)

Horizontal Offset (m) 2

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Poor	Wall has essentially failed at the foundation.
Drainage System	Poor	Although water is coming out of the CMP, inlet is plugged. Water could be flowing through failed road prism. Outlet water is diverted down slope to slow the inevitable erosion.
Foundation Material	Poor	Wall appears to be placed on cast over fill and is eroding and failing.
Wall Movement Indicators	Poor	Wall is completely deformed with maximum sag in the Center.

Secondary Elements

	Rating	Comments
Surface Drainage	Fair	There is a surface ditch but CMP inlet is plugged.
Road	Good	
Lateral Slope	Good	
Upslope	Good	
Downslope	Fair	
Traffic Barrier	Poor	Ends before wall
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	2023-05-02
Professional Inspection Required	Yes
Overall Wall Condition Rating	Poor
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.

Wall was recommended to be replaced in 2021 and has still not been replaced. Continue annual inspections until this is complete.

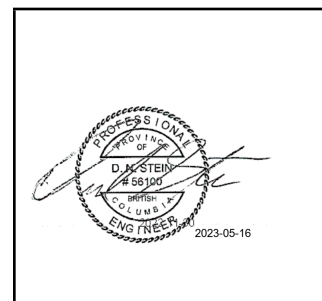
Sketch (Select Signature)

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	Required	High	Replace wall	
1				

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1			
1	1 year	Monitor annually until replaced.	

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Ministry Engineer Review

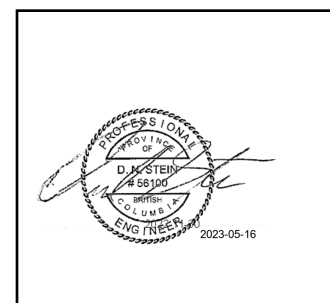
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>1 year</u>
Recommended year of next inspection	<u>2024</u>

Professional Engineer Comments

Facing and foundation have failed. Recommend a new wall be designed and installed.

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

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From Town approach



CMP Inlet plugged



From Woods approach



CMP outlet making water, but all elements of wall have failed. Each layer of mesh has failed as well as the whole foundation causing significant sagging in the middle



Functioning ditch



Foundation appears to be cast over fill which is eroding.

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