

RWC-1020

2023 Inspection



RWIP Offline v7 Coast 1

Retaining Wall Inventory Data

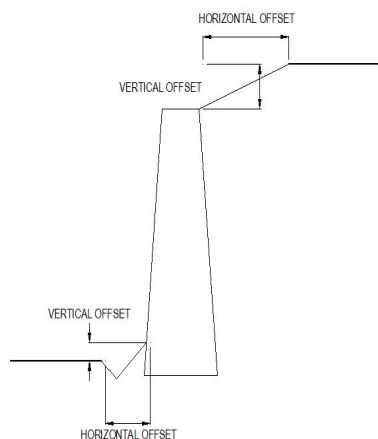
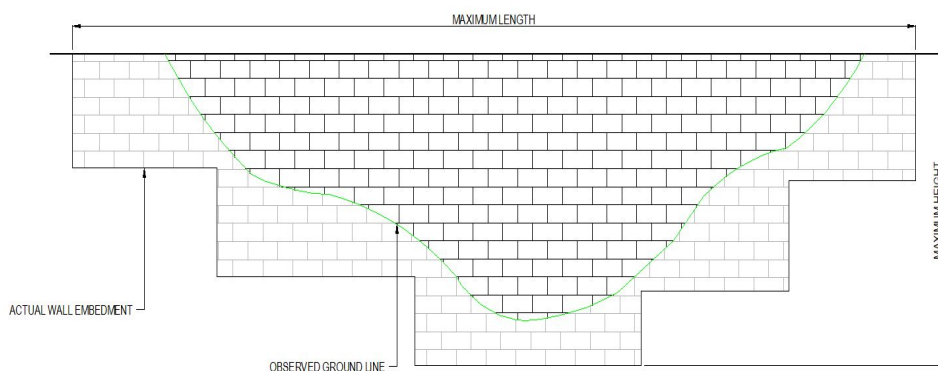
Existing Data

Updated Data

Structure Number	RWC-1020	
User km		1.6
Project File #		
FSR Name		Jones Lake
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		40 cm layers
Year Installed		2022
Last Inspection		
Design Info Available		
Latitude		49.303186
Longitude		-121.622431

Measurements

Max. Length (m)		101
Max. Height (m)		2.7
Vertical Offset (m)		
Horizontal Offset (m)		
Barrier Length (m)		127
Road Width (m)		



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Good	New GRS wall with two 600 mm culverts to drain the ditch with 6" drain holes to drain the wall itself.
Drainage System	Good	Upper culvert inlet starting to be plugged
Foundation Material	Good	Covered with rip rap however on a steep landslide and foundation could shift
Wall Movement Indicators	Fair	Some suspicious bulging observed above loose foundation.

Secondary Elements

	Rating	Comments
Surface Drainage	Good	Culvert inlet should be unplugged.
Road	Good	Some geotextile observed on road surface.
Lateral Slope	Good	
Upslope	Poor	Deforested potential landslide
Downslope	Poor	Trees tilted indicating landslide
Traffic Barrier	Excellent	
Signage Delineators	Not applicable	
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 3:51 PM
Professional Inspection Required	Yes
Overall Wall Condition Rating	Excellent
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 built in late 2021 as a GRS wall with galvanized welded wire mesh and woven geotextile facing. Drainage is done by a combination of 6" performances pvc at the toe and 600mm culverts draining from the road ditch. Only note of concern is some bulging in the mesh at the bottom indicating potentially some early settling or failure.

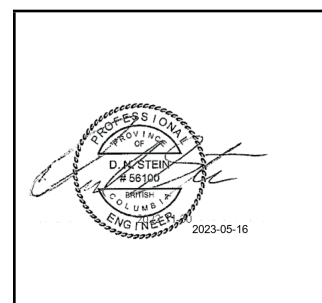
Sketch (Select Signature)

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

Monitoring

Item	Frequency	Description	Ministry Engineer Comment

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Ministry Engineer Review

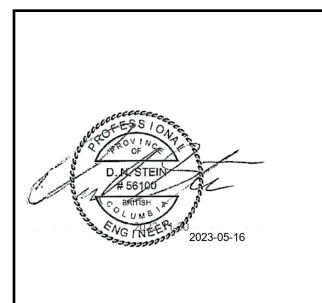
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>3 years</u>
Recommended year of next inspection	<u>2026</u>

Professional Engineer Comments

Wall is performing very well, however next inspection should focus on foundation and how the observed bulging is performing over time.

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



Upper culvert inlet partial plug



From woods approach



Geotextile on road



Lower culvert inlet



Bulging

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