

RWC-1003 2023 Inspection

Bench 16km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

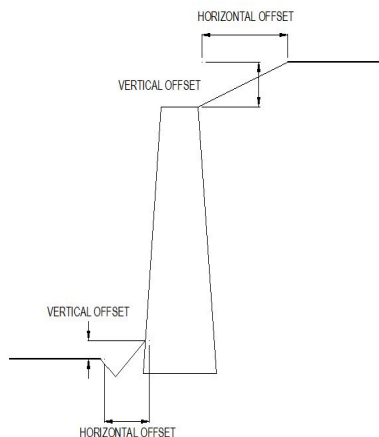
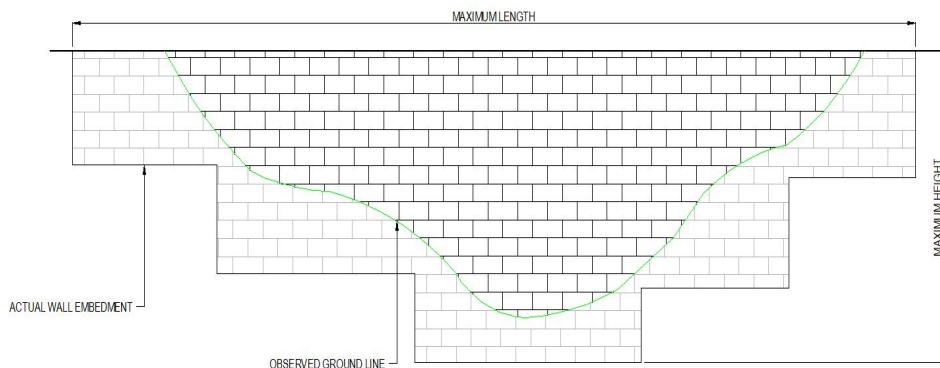
Existing Data

Updated Data

Structure Number	RWC-1003	
User km	16	18
Project File #	5127.1	
FSR Name	Bench	
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	2010	
Last Inspection	2020	
Design Info Available	Yes	
Latitude	49.091310	
Longitude	-121.787305	

Measurements

Max. Length (m)	35	
Max. Height (m)	3	
Vertical Offset (m)		
Horizontal Offset (m)	3	
Barrier Length (m)		
Road Width (m)		



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Poor	Sides of structure are missing wire mesh facing and the Geotextile is allowing the fill to spill out.
Drainage System	Good	Well functioning culvert inlet and outlet.
Foundation Material	Good	No signs of deformation in the wall or indications of sagging however there is much vegetation at base of wall and it can't be fully assessed.
Wall Movement Indicators	Fair	Side of wall on woods end is spilling out fill with failed wire mesh.

Secondary Elements

	Rating	Comments
Surface Drainage	Good	Functioning ditch.
Road	Excellent	
Lateral Slope	Fair	
Upslope	Fair	Trees showing signs that slope is slumping.
Downslope	Fair	Much vegetation but steep gully that appears erodible.
Traffic Barrier	Good	Traffic barriers present for extent of wall.
Signage Delineators	Poor	Not present.
Vegetation	Yes	Heavy vegetation.

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Retaining Wall Inspection Report

Name of Inspector	Daniel Stein
Inspection Company	Ministry of Forests
Date of Inspection	2023-05-03 2:02 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.

Wall given a fair rating because side of wall is compromised with no wire mesh as well as slight bulges in mesh near culvert. Foundation doesn't appear to be failing but vegetation makes it hard to tell.

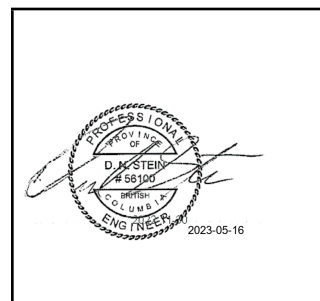
Sketch (Select Signature)

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	2 years	Monitor side where welded wire mesh is not present to hold wall	Daniel Stein

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Ministry Engineer Review

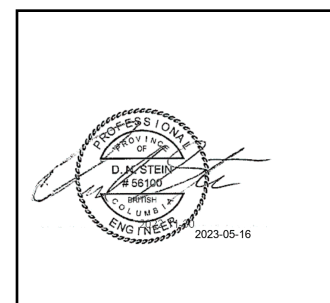
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>2 years</u>
Recommended year of next inspection	<u>2025</u>

Professional Engineer Comments

Recommending 2 year inspection frequency to monitor degradation of failing elements.

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



From town approach



Geofabric at woods side has no wwm re enforcement and is failing.



From woods approach



Foundation looks ok but erodible material. Sagging facing indicates this.



Outlet and some bulging wwm facing

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