

RWC-1001 2023 Inspection

Army 0.5km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1001

User km 0.5

Project File # 5127.11

FSR Name Army

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 2017

Last Inspection 2019

Design Info Available Yes

Latitude 49.082160

Longitude -121.821925

Measurements

Max. Length (m) 48

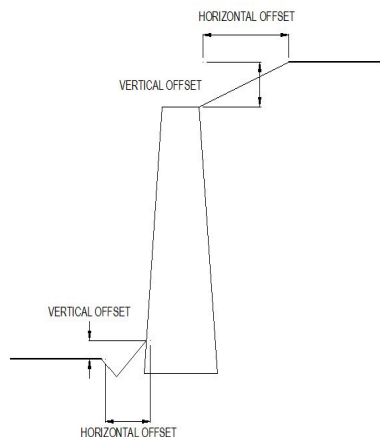
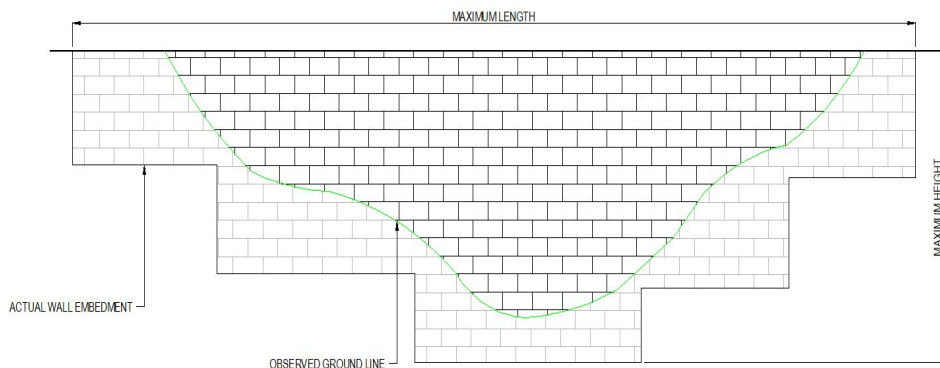
Max. Height (m) 4

Vertical Offset (m)

Horizontal Offset (m) 4

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Good	Well founded GRS wall utilizing galvanized welded wire mesh and geotextile facing. No failed elements observed however there are lots of ferns growing from the wall.
Drainage System	Good	Drainage ditch on road is well established. 150 mm long pvc drainage pipe was covered by garbage but based on performance of wall it appears to still be functioning.
Foundation Material	Good	No sign of settling or failure in the 25 mm minus crushed rock wrapped in geotextile.
Wall Movement Indicators	Excellent	No signs of wall movement.

Secondary Elements

	Rating	Comments
Surface Drainage	Good	Ditch is established on road, no ponding.
Road	Excellent	
Lateral Slope	Good	
Upslope	Good	Design shows upslope with factor of safety of 1.14 but it's performing well over time and no instability observed.
Downslope	Good	No signs of instability however popular location for garbage.
Traffic Barrier	Good	Precast concrete barriers
Signage Delineators	Not applicable	
Vegetation	Yes	Ferns.

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Retaining Wall Inspection Report

Name of Inspector	Daniel Stein
Inspection Company	Ministry of Forests
Date of Inspection	2023-05-03 2:09 PM
Professional Inspection Required	Yes
Overall Wall Condition Rating	Good
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.

This is a well functioning wall. Cleaning of ferns and significant garbage at toe of wall would increase the visibility of specific elements for future inspections.

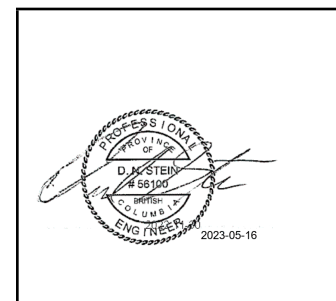
Sketch (Select Signature)

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	Medium	Clean garbage and remove ferns.	

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1			

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Ministry Engineer Review

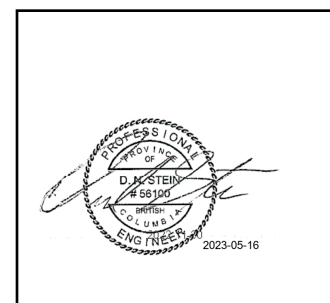
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>3 years</u>
Recommended year of next inspection	<u>2026</u>

Professional Engineer Comments

Well functioning wall with a stable foundation. RV park located 300 m below wall.

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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Town approach



Face if and ferns. Well founded.



Woods approach



Down slope garbage. Competent material below.



Geotextile and wwm in good shape. Minor bulging but not severe.
Bulging exists where wwm not tied back because cut.

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