

RWC-1005 2023 Inspection

Garnet 5.1km



RWIP Offline v7 TEST 2

Retaining Wall Inventory Data

Existing Data

Updated Data

Structure Number RWC-1005

User km 5.1

Project File # 7558.01

FSR Name Garnet

District Chilliwack

Road Responsibility DCK (Chilliwack)

Design Function Fill Slope

Design Function Other

Structure Type Reinforced Slope

Structure Type Other

Facing Type Metal

Facing Type Other

Year Installed 2017

Last Inspection 2021

Design Info Available Yes

Latitude 49.393222

Longitude -121.6108611

Measurements

Max. Length (m) 14

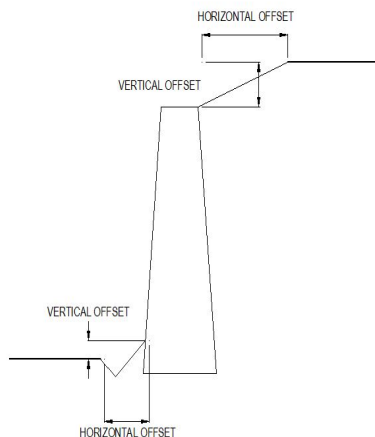
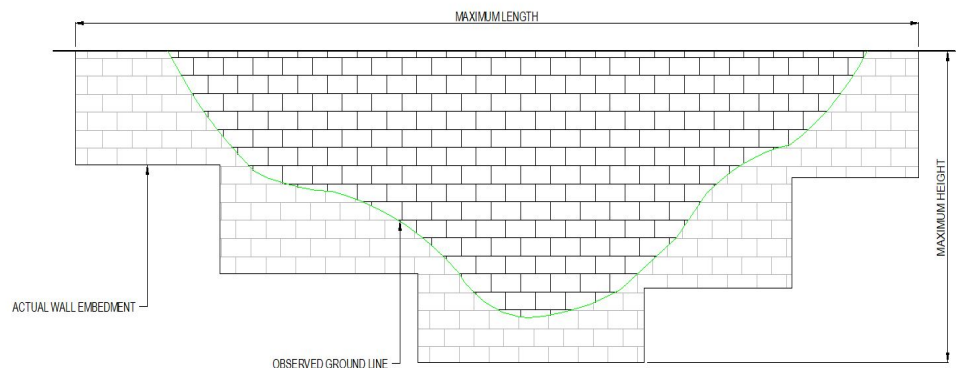
Max. Height (m) 2

Vertical Offset (m)

Horizontal Offset (m) 2

Barrier Length (m)

Road Width (m)



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Primary Elements

	Rating	Comments
Retaining Wall Structure	Good	4 500 mm diameter steel pipes anchored back to bed rock laced together with steal rope.
Drainage System	Good	Wall is made of coarse fill which self drains.
Foundation Material	Good	No erosion in foundation or signs of settling.
Wall Movement Indicators	Excellent	

Secondary Elements

	Rating	Comments
Surface Drainage	Poor	No high side ditch therefor water flowed beside the wall resulting in an erosion channel
Road	Fair	Excellent except where washout between walls.
Lateral Slope	Good	
Upslope	Poor	Evidence of rock fall. No stopping sign in place.
Downslope	Good	
Traffic Barrier	Excellent	Excellent steel traffic barrier welded to pipe.
Signage Delineators	Not applicable	
Vegetation	Yes	But not negatively affecting structure.

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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	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.

A non standard MSE wall with the anchors designed to be fastened into the bedrock below the road prism. Appears to be functioning well with exception of surface drainage. Some rock scaling would be beneficial on upslope if use for this road increases.

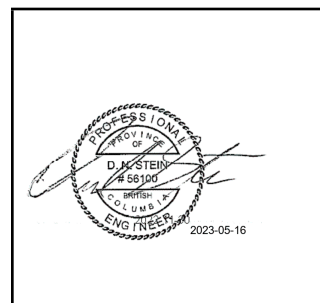
Sketch (Select Signature)

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		Install ditch so water drains under cutslope.	
2	Suggested		Rock scaling	

Monitoring

Item	Frequency	Description	Ministry Engineer Comment
1			
2			

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Ministry Engineer Review

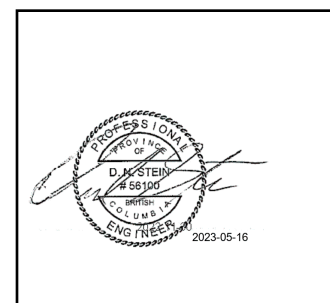
Name of Professional Engineer	<u>Daniel Stein P.Eng.</u>
Recommended inspection frequency	<u>1 year</u>
Recommended year of next inspection	<u>2024</u>

Professional Engineer Comments

Due to non typical design the inspection frequency shall remain at 1 year.

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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Approach from town



Steel pipe and cable leash facing



Approach from woods, erosion washout visible



Competent foundation



Rock fall debris

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