Date Printed: 2016/01/06
User Id: IDIR\TYSMILLE
Database: PROD
Report Id: CBR001A
File:

BC Ministry of Forests and Range

Permanent Bridge Inspection Report

Structure #:	CK-2213	**Site #:**	CK-2213	**Road Name:**	PEERS CREEK	**Inspection Date:**	2015/10/22
KM:	0.20	**User km:**	0.20	**Crossing Name:**	Coquihalla River	**Next Inspection Date:**	2018/10/22
Project File ID #:	8126	**Br.**	01	**Forest District:**	Chilliwack Natural Resource District		

Deck Type:	Concrete	**Running Surface:**	Concrete
Superstructure	Steel I-beam	**Abutments (Left/Right):** *(looking downstream)*	Concrete Cast in Place

Total Length *(metres)*:	100.0	**# Spans:**	3	**Span Length(s)** *(metres)*:	15.4, 38.9, 45.7
UTM Zone:	10	**UTM Easting:**	622149	**UTM Northing:**	5471689
Inspector Name:	T. Miller	**Year Superstructure Installed:**		1988	

Access: Driving East from Hope on Highway #5, turn right on Peers Creek FSR.

ABUTMENTS

Bearings	Good	minor deformation on the woods end with corrsosion noted on plates
Bracing	Not Applicable	
Ballast Wall	Fair	
Concrete Cast in Place	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Unrated	no cap or sill
Fill	Fair	material loss under woods end wall
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

APPROACHES

Alignment	Fair	T jct at camp end and HC on woods end
Bridge Ahead Signs Missing	1	
Brushing Required	Yes	woods end
Delineator Missing Left (*approaching structure*)	0	
Delineator Missing Right (*approaching structure*)	0	
Fender Condition	Fair	missing woods approach fenders
Posted Load Rating	not	not posted
Road Surface	Fair	camp end paved, woods gravel

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DECK

Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	combination of conrete and timber risers
Deck Joints	Fair	water getting through some joints
Grout Pockets	Good	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Good	

Span 2

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Fair	combination of conrete and timber risers - minor deterioration noted on 1 concrete riser
Deck Joints	Fair	water getting through some joints
Grout Pockets	Good	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Good	

Span 3

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	combination of conrete and timber risers
Deck Joints	Fair	water getting through some joints
Grout Pockets	Good	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Good	

PIERS

Pier 1

Bearings	Good	
Bracing or Sheathing	Good	

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Caps	Fair	minor spalling around the corners
Cribs	Not Applicable	
Dolphins	Not Applicable	
Hardware	Not Applicable	
Overall	Fair	
Piles or Posts	Good	
Riprap	Not Applicable	
Wall	Not Applicable	
Pier 2		
Bearings	Fair	bearings appear fair, however the concrete cap is in poor condition
Bracing or Sheathing	Fair	
Caps	Poor	concrete below girder 2 failing
Cribs	Not Applicable	
Dolphins	Not Applicable	
Hardware	Not Applicable	
Overall	Fair	
Piles or Posts	Good	channel degradation has lead to debris accumulations under bottom concrete diaphragm
Riprap	Not Applicable	
Wall	Not Applicable	
SUPERSTRUCTURE		
Span 1		
Bracing	Not Applicable	
Diaphrams	Good	
Girders	Good	painted steel
Hardware	Good	
Under Trussing	Not Applicable	
Span 2		
Bracing	Not Applicable	
Diaphrams	Fair	concrete diaphragm at pier 2 is delaminating on woods end face
Girders	Good	concrete girders
Hardware	Not Applicable	
Under Trussing	Not Applicable	

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Span 3

Bracing	Good	
Diaphrams	Good	
Girders	Good	outsides are painted
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL

Estimated Present Water Level Depth:	1.0	**Estimated Present Water Level Width:**	22.0
Estimated High Water Level Clearance:	3.0		

HAZARDS

High Water:	No	**Scour:**	Yes	**Ice:**	No	**Debris:**	Yes	**Aggradation:**	No

Comment:

REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Medium	$5,000.00	repair the spalling concrete and delamination on the pier 2 cap.
2	Required	Medium	$3,000.00	Repair the concrete delamination on the span 2 end diaphragm at pier 2
3	Required	Medium	$250.00	replace the missing bridge ahead sign
4	Required	Medium	$1,000.00	brush the woods end approach
5	Required	Medium	$3,000.00	add concrete no post barriers to the woods end approach
6	Required	High	$2,000.00	remove the debris accumulation from under the pier 2 cast in place concrete diaphragm

MONITORS

#	Description

GENERAL

Inspector's Comment: There is channel degradation under the pier 2 cast in place concrete diaphragm which has lead to debris accumulations between the H-piles.

GENERAL

PEng's Comment: Repair the spalling and delaminating concrete on the pier 2 cap. Repair the delaminating concrete on the span 2 end diaphragm. Remove the debris accumulations from under the pier 2 concrete diaphragm. Brush the woods end approach and place concrete no post barriers. Replace the missing bridge ahead sign. Present load rating of L60 or 54 tonnes to continue.

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GENERAL

Replacement Date for full log haul traffic *(year)*:	2048	**Replacement Date for light vehicle traffic** *(year)*:	2048		
Current Inspection Load Rating:	54	**Design Load GVW** *(tonnes)*:	54	**Design Vehicle Config.:**	L60
Professional Inspection Required?	No	**Report Status:**	Reviewed By Tyson Miller on 1/6/2016 9:59:32AM		

06/01/2016

Corporate Bridge Register (CBR)

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CK-2213 PEERS CREEK 0.2km 2015 Inspection

Approach from Left Bank when facing downstream

span joints

Guard Rail on span 1

Deck 1

CK-2213 PEERS CREEK 0.2km 2015 Inspection

Deck 2

Deck 3

Guardrail on span 2

Guardrail on span 3

CK-2213 PEERS CREEK 0.2km 2015 Inspection

steel separation on span 3 at road surface

right bank upstream girder flare

Approach from Right Bank when facing downstream

right bank upstream girder flare

CK-2213 PEERS CREEK 0.2km 2015 Inspection

right bank main span girder bearing

right bank downstream girder flare

right bank downstream girder flare

Right Bank Abutment when facing downstream

CK-2213 PEERS CREEK 0.2km 2015 Inspection

span 3 upstream profile

pier 2

span 3 splice plates

log under pier 2

CK-2213 PEERS CREEK 0.2km 2016 Inspection

pier 2 spalling concrete

pier 1 and left abutment

log under pier 2

Upstream Profile of span 2

CK-2213 PEERS CREEK 0.2km 2016 Inspection

pier 1

pier 2

Left Bank Abutment when facing downstream

pier 1

CK-2213 PEERS CREEK 0.2km 2016 Inspection

span 2 superstructure, pier 2