



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 1 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K421	Site #:	K421	Road Name:	SKUHUN	Inspection Date:	2014/08/27
KM:	12.80	User km:	13.00	Crossing Name:	Skuhost Cr	Next Inspection Date:	2017/08/27
Project File ID #:	0814	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	6.5	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	640141	UTM Northing:	5576212		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1987		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	left approach has tight horizontal corner
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	LT: brushing required.
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	None
Posted Load Rating	41	see pic
Road Surface	Fair	Good at site, road to site is washed out LT: Fair - Grown in vegetation

### Corporate Bridge Register (CBR)

#### Disclaimer:

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Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K421	Site #:	K421	Road Name:	SKUHUN	Inspection Date:	2014/08/27
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	none
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Diaphragms	Good	at ends
Girders	Good	LT: some gravel on flanges visible on photo.
Hardware	Good	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	2.5
Estimated High Water Level Clearance:	1.5		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description

#### MONITORS

#	Description

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Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K421	Site #:	K421	Road Name:	SKUHUN	Inspection Date:	2014/08/27
GENERAL	Inspector's Comment:	All signs in place. Road is badly washed out on the way there  LT (2014/12/17): Light brushing required.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2032	Replacement Date for light vehicle traffic (year):		2037
	Current Inspection Load Rating:		41	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 8:57:53AM	

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Date Printed: 2017/02/16  
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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K423	Site #:	K423	Road Name:	SKUHUN-PIMAINUS	Inspection Date:	2016/06/26
KM:	10.56	User km:	10.50	Crossing Name:	Chataway Cr	Next Inspection Date:	2019/06/26
Project File ID #:	0814	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	7.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	647258	UTM Northing:	5576442		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1987		
Access:	Bridge km. 17.5 by markers, 0 km. at Craigmont km. 10.5 from begining FSR at Aberdeen Road (POT 03 Branch on Ex. A) Km. 43.9 By exhibit A dated march 21/88.						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	Rip rap has been placed in the channel restricting the flow on the upstream side
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	None
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

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Date Printed: 2017/02/16  
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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K423	Site #:	K423	Road Name:	SKUHUN-PIMAINUS	Inspection Date:	2016/06/26
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Good	
Running Planks	Good	Some wear at bridge ends and along line of traffic travel
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.4	Estimated Present Water Level Width:	1.7
	Estimated High Water Level Clearance:	0.9		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K423	Site #:	K423	Road Name:	SKUHUN-PIMAINUS	Inspection Date:	2016/06/26	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2037		Replacement Date for light vehicle traffic (year):		2042	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/10/2017 3:30:52PM		

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1401	Site #:	K1401	Road Name:	SKUHUN-PIMAINUS	Inspection Date:	2016/06/26
KM:	25.40	User km:	33.00	Crossing Name:	Skuhost Cr	Next Inspection Date:	2019/06/26
Project File ID #:	0814	Br.	03	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	1,300			Outlet Cover (mm):	1,000		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	23.5	Opening Height (mm):	1,400	Opening Width (mm):	2,300		
UTM Zone:	10	UTM Easting:	639906	UTM Northing:	5586896		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2006		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	No access into culvert
Coating	Good	
Embedment Materials	Good	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Good	
Outlet	Good	

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 8 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1401	Site #:	K1401	Road Name:	SKUHUN-PIMAINUS	Inspection Date:	2016/06/26				
Overall	Good										
Riprap	Fair										
Roof	Fair										
Side Walls	Fair										
Trash Rack	Not Applicable										
Wiers/Backwater Structures	Not Applicable										
Wing Wall	Good										
CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:		0.9						
	Estimated High Water Level Clearance:	0.5									
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No	
	Comment:										
REPAIRS	#	Status	Priority	Estimate	Description						
MONITORS	#	Description									
GENERAL	Inspector's Comment:	The culvert length is 23.5 m. and the fill depth is 1.0 m. at the outlet and 1.3 m. at the inlet.									
GENERAL	PEng's Comment:										
GENERAL	Replacement Date for full log haul traffic (year):		2050		Replacement Date for light vehicle traffic (year):		2055				
	Current Inspection Load Rating:		64		Design Load GVW (tonnes):		63		Design Vehicle Config.:		BCL625
	Professional Inspection Required?		No		Report Status:		Reviewed By Drew Alway on 12/6/2016 2:36:13PM				

Corporate Bridge Register (CBR)

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Date Printed: 2017/02/16  
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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K484	Site #:	K484	Road Name:	SKUHUN-SPAIST WEST	Inspection Date:	2016/06/26
KM:	0.21	User km:	40.10	Crossing Name:	Pimainus Cr	Next Inspection Date:	2019/06/26
Project File ID #:	0814	Br.	08	Forest District:	Cascades Natural Resource District		
Deck Type:	Gravel			Running Surface:	Concrete		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	7.6	# Spans:	1	Span Length(s) (metres):	7		
UTM Zone:	10	UTM Easting:	633883	UTM Northing:	5584728		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1990		
Access:	Bridge is at 40 .1 km. by km markers.						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	1	The #2 sign is missing
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K484	Site #:	K484	Road Name:	SKUHUN-SPAIST WEST	Inspection Date:	2016/06/26
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### DECK

#### Span 1

Concrete Deck	Not Applicable	Covered in gravel
Curb Rail/Blocks/Posts	Good	
Deck Joints	Not Applicable	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	Covered in gravel

#### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.0
Estimated High Water Level Clearance:	1.5		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$300.00	Install bridge ahead sign at #2 approach
2	Required	Medium	\$150.00	Brush out bridge

#### MONITORS

#	Description

#### GENERAL

Inspector's Comment:	
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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K484	Site #:	K484	Road Name:	SKUHUN-SPAIST WEST	Inspection Date:	2016/06/26	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2045	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 4:07:43PM		

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1117	Site #:	K1117	Road Name:	-SKUHOST BRANCH 15	Inspection Date:	2015/06/23
KM:	2.01	User km:	29.00	Crossing Name:	Skuhost #2	Next Inspection Date:	2018/06/23
Project File ID #:	0814	Br.	15	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	639525	UTM Northing:	5578612		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Poor	No rubber bearing pads
Bracing	Not Applicable	
Ballast Wall	Fair	Do not extend the full depth of the girder, allowing fill through ont the lock blocks
Concrete Precast	Fair	Three blocks\abutment, each bearing rests only on a single indipendant lock block and appear to be uneven.
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	No sill, see above
Fill	Fair	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Poor	Not much in place
Wing Wall	Fair	

### APPROACHES

Alignment	Fair	6% grade down onto the bridge from the #1 approach
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Brush out around the bridge
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Settled at #2

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Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1117	Site #:	K1117	Road Name:	-SKUHOST BRANCH 15	Inspection Date:	2015/06/23
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	
Running Planks	Fair	Some of the planks have high rot values, may need repair for industrial haul
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	4.8
	Estimated High Water Level Clearance:	1.6		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$300.00	Brush out bridge

MONITORS	#	Description

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Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:		K1117		Site #:	K1117		Road Name:	-SKUHOST BRANCH 15		Inspection Date:	2015/06/23	
GENERAL	Inspector's Comment:	None of the monitor or repair items have been addressed. The deck now has some planks that will not take industrial haul.										
	PEng's Comment:	Replacement of deck planks is required prior to industrial haul. This is a temporary installation and as mentioned in the last inspection should be rebuild with permanent abutment installation if long term industrial access is required. Monitor abutments for scour and differential settlement.										
GENERAL	Replacement Date for full log haul traffic (year):				2017		Replacement Date for light vehicle traffic (year):				2019	
	Current Inspection Load Rating:			68		Design Load GVW (tonnes):			0		Design Vehicle Config.:	
	Professional Inspection Required?			No	Report Status:		Reviewed By Drew Alway on 2/11/2016 12:21:44PM					

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Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K888	<b>Site #:</b>	K888	<b>Road Name:</b>	SKUHUN-INKIKUN 32	<b>Inspection Date:</b>	2016/06/26
<b>KM:</b>	0.81	<b>User km:</b>	12.00	<b>Crossing Name:</b>	Inkukuh Cr	<b>Next Inspection Date:</b>	2019/06/26
<b>Project File ID #:</b>	0814	<b>Br.</b>	32	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Precast		
<b>Total Length (metres):</b>	7.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	7.2		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	632404	<b>UTM Northing:</b>	5592645		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2004		
<b>Access:</b>	Road is known locally as Laura Lakes MRF 11/2013						

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	Not connected to the superstructure
<b>Concrete Precast</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Good	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Poor	Steep and unstable, rock has pinched the creek
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	Opposing curves at the approaches with the transition over the bridge
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	
<b>Road Surface</b>	Good	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 16 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K888	Site #:	K888	Road Name:	SKUHUN-INKIKUN 32	Inspection Date:	2016/06/26
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	Recent redeck, very dirty
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.2
	Estimated High Water Level Clearance:	2.2		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description
	1	Monitor oversyeeopened and unstable rip rap

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 17 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K888	Site #:	K888	Road Name:	SKUHUN-INKIKUN 32	Inspection Date:	2016/06/26	
GENERAL	Inspector's Comment:	Appears to have been recently redecked						
GENERAL	PEng's Comment:	RSS drawings requested and file request started.						
GENERAL	Replacement Date for full log haul traffic (year):			2054	Replacement Date for light vehicle traffic (year):		2059	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 11:57:06AM		

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 18 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1512	Site #:	K1512	Road Name:	SKUHUN-CALLING LAKE	Inspection Date:	2016/06/26
KM:	0.20	User km:	14.50	Crossing Name:	Calling lake OverFlow	Next Inspection Date:	2019/06/26
Project File ID #:	0814	Br.	40	Forest District:	Cascades Natural Resource District		
Culvert Type:	Open Bottom			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	300			Outlet Cover (mm):	600		
Footing Type:	Steel Footing			Gradient (%):	3.0		
Culvert Length (metres):	9.8	Opening Height (mm):	1,300	Opening Width (mm):	2,700		
UTM Zone:	10	UTM Easting:	634000	UTM Northing:	5591700		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2007		
Access:	Road locally known as Laura Lakes. MRF 11/2013						

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Good	
Coupled Connections	Not Applicable	
Coating	Good	
Embedment Materials	Fair	Erosion along the Lower portion of the footing
Fill	Good	
Floor	Not Applicable	
Footing	Poor	The #1 has been scoured but appears to be stable from last inspection
Head Wall	Good	
Inlet	Good	
Outlet	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 19 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1512	<b>Site #:</b>	K1512	<b>Road Name:</b>	SKUHUN-CALLING LAKE	<b>Inspection Date:</b>	2016/06/26			
<b>Overall</b>	Good									
<b>Riprap</b>	Good									
<b>Roof</b>	Good									
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		1.2			
	<b>Estimated High Water Level Clearance:</b>		1.2							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	The #1 has been scoured but appears to be stable from last inspection								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	The #1 footing has been scoured but appears to be stable from last inspection, continue to monitor								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Erosion of the footing appears to be unchanged								
<b>GENERAL</b>	<b>PEng's Comment:</b>									
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2050		<b>Replacement Date for light vehicle traffic (year):</b>				
	<b>Current Inspection Load Rating:</b>		64		<b>Design Load GVW (tonnes):</b>		63		<b>Design Vehicle Config.:</b>	
	<b>Professional Inspection Required?</b>		No		<b>Report Status:</b>		Reviewed By Drew Alway on 1/10/2017 9:54:35AM			

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 20 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K424	Site #:	K424	Road Name:	PLACER MOUNTAIN	Inspection Date:	2014/08/11
KM:	0.41	User km:	0.20	Crossing Name:	Similkameen R	Next Inspection Date:	2017/08/11
Project File ID #:	0919	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): <small>(looking downstream)</small>	Pile -Permanent Materials		
Total Length (metres):	54.4	# Spans:	2	Span Length(s) (metres):	26.9, 27.5		
UTM Zone:	10	UTM Easting:	678016	UTM Northing:	5451525		
Inspector Name:	M. Hanson & D. Harrison			Year Superstructure Installed:	1997		
Access:							

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CHANNEL	Estimated Present Water Level Depth:		Estimated Present Water Level Width:	
	Estimated High Water Level Clearance:			

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$15,000.00	Replace all curb rails and risers
	2	Required	High	\$500.00	Replace bridge ahead sign at right approach.
	3	Required	Medium	\$5,000.00	Replace deck joint compression seal at Pier 1
	4	Required	Medium	\$20,000.00	Consider extending steel plate pier diaphragm to mudline during low flows.
	5	Required	Low	\$500.00	Remove rodent nests from abutments.

MONITORS	#	Description

GENERAL	Inspector's Comment:	LT 19/12/14: added repair items from pdf inspection report.

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 21 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K424	Site #:	K424	Road Name:	PLACER MOUNTAIN	Inspection Date:	2014/08/11	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2042	Replacement Date for light vehicle traffic (year):		2047	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/19/2014 11:44:15PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1309	<b>Site #:</b>	K1309	<b>Road Name:</b>	PLACER CREEK	<b>Inspection Date:</b>	2014/08/08
<b>KM:</b>	0.45	<b>User km:</b>	12.60	<b>Crossing Name:</b>	Watson Cr	<b>Next Inspection Date:</b>	2017/08/08
<b>Project File ID #:</b>	0919	<b>Br.</b>	03	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	8.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	682899	<b>UTM Northing:</b>	5449460		
<b>Inspector Name:</b>	Ali Sadeghi			<b>Year Superstructure Installed:</b>	2003		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Unrated	not visible
<b>Ballast Wall</b>	Good	
<b>Corrosion Protection</b>	Unrated	not visible
<b>Caps or Sills</b>	Good	concrete cap beam
<b>Fill</b>	Fair	fill behind the right abutment at center span appears to be settling, monitor
<b>Hardware</b>	Good	
<b>Piles or Posts</b>	Good	
<b>Riprap</b>	Good	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left (approaching structure)</b>	0	
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	-	not posted
<b>Road Surface</b>	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 23 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1309	<b>Site #:</b>	K1309	<b>Road Name:</b>	PLACER CREEK	<b>Inspection Date:</b>	2014/08/08			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	timber								
<b>Deck Joints</b>	Good	joints between slabs not sealed LT: not sealing is a standard detail.								
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair									
<b>Running Surface</b>	Fair									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Welded/grouted shear connect</b>	Good	welded shear keys								
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.1	<b>Estimated Present Water Level Width:</b>		2.0					
	<b>Estimated High Water Level Clearance:</b>	1.6								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	it appears the fill behind the structure at center span, on right approach is settling. More fill may be needed.								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	LT (2014/12/17): reviewed. Deleted repair to seal girder joints as this is intentional with welded shear key connectors.								

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 24 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1309	Site #:	K1309	Road Name:	PLACER CREEK	Inspection Date:	2014/08/08
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		2053
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/18/2014 10:40:52AM	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 25 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1310	<b>Site #:</b>	K1310	<b>Road Name:</b>	PLACER CREEK	<b>Inspection Date:</b>	2014/08/08
<b>KM:</b>	3.00	<b>User km:</b>	15.50	<b>Crossing Name:</b>	Lynx Cr	<b>Next Inspection Date:</b>	2017/08/08
<b>Project File ID #:</b>	0919	<b>Br.</b>	03	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Gravel		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	9.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	682599	<b>UTM Northing:</b>	5447972		
<b>Inspector Name:</b>	Ali Sadeghi			<b>Year Superstructure Installed:</b>	2003		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	not visible
Ballast Wall	Good	
Corrosion Protection	Unrated	not visible
Caps or Sills	Good	concrete cap beam
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	installed in the course of inspection
Delineator Missing Right (approaching structure)	0	4 Delineators installed
Fender Condition	None	
Posted Load Rating	-	not posted
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 26 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1310	<b>Site #:</b>	K1310	<b>Road Name:</b>	PLACER CREEK	<b>Inspection Date:</b>	2014/08/08			
<b>Concrete Deck</b>	Fair	5 slabs								
<b>Curb Rail/Blocks/Posts</b>	Fair	timber rail, some damage on the upstream left approach, minor								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Gravel Surface</b>	Unrated	no gravel surface								
<b>Hardware</b>	Fair									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair	fair bit of debris (gravel) on deck								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Welded/grouted shear connect</b>	Good	welded shear keys								
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		5.0			
	<b>Estimated High Water Level Clearance:</b>		1.6							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	2	Required	Low	\$200.00	LT: Clean sand & gravel from deck, install waterbar to prevent gravel from being carried onto deck.					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Damaged rail LBUS corner.								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	4 Delineators installed								
		LT (2014/12/17): Added clean sand & gravel from deck, install waterbar on approach to prevent gravel from being carried onto deck.								

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 27 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1310	Site #:	K1310	Road Name:	PLACER CREEK	Inspection Date:	2014/08/08
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		2053
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/19/2014 11:17:47PM	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 28 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K520	<b>Site #:</b>	K520	<b>Road Name:</b>	HURLEY RIVER NORTH	<b>Inspection Date:</b>	2015/06/18
<b>KM:</b>	0.00	<b>User km:</b>	0.60	<b>Crossing Name:</b>	Bridge R	<b>Next Inspection Date:</b>	2018/06/18
<b>Project File ID #:</b>	10194	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Gravel		
<b>Superstructure</b>	Concrete I/T Beam			<b>Abutments (Left/Right): (looking downstream)</b>	Pile -Permanent Materials		
<b>Total Length (metres):</b>	38.2	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	37.8		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	510725	<b>UTM Northing:</b>	5632525		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1987		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Fair	Continues to ravel toward creek
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 29 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K520	<b>Site #:</b>	K520	<b>Road Name:</b>	HURLEY RIVER NORTH	<b>Inspection Date:</b>	2015/06/18			
<b>Curb Rail/Blocks/Posts</b>	Fair	Some have significant rot, but do not require replacement at this time								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Good									
<b>Gravel Surface</b>	Unrated	None								
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Hardware</b>	Good									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		2.0		<b>Estimated Present Water Level Width:</b>		27.0			
	<b>Estimated High Water Level Clearance:</b>		2.8							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	Water was high no indication of increased erosion.								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Reviewed monitor items all observable comments appear stable, however the water was to high to comment on erosion and crib failure. Ground inspection only.								
<b>GENERAL</b>	<b>PEng's Comment:</b>	Note their are a number of complex concrete repairs that are outstanding for this structure. These will require a qualified contractor and a PEng. certification of repair completion.								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 30 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K520	Site #:	K520	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18	
GENERAL	Replacement Date for full log haul traffic (year):			2047	Replacement Date for light vehicle traffic (year):			2047
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/12/2016 3:08:44PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 31 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K617	Site #:	K617	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
KM:	13.87	User km:	14.60	Crossing Name:	Nine Mile Cr	Next Inspection Date:	2018/06/18
Project File ID #:	10194	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	33.5	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	504737	UTM Northing:	5621711		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Not Applicable	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K617	<b>Site #:</b>	K617	<b>Road Name:</b>	HURLEY RIVER NORTH	<b>Inspection Date:</b>	2015/06/18
<b>Curb Rail/Blocks/Posts</b>	Fair	One section failed, see photo					
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Good						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.5		<b>Estimated Present Water Level Width:</b>		3.0
	<b>Estimated High Water Level Clearance:</b>		8.9				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Required	Medium	\$200.00	Brush out bridge		
	2	Required	High	\$300.00	Replace failed riser at the #2 approach upstream side. requires 1-24"x10x10" block		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
	1	Monitor wing and bulkheads for rot					
	2	Curb and riser rot					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Ground inspection only					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K617	Site #:	K617	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 11:29:26AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K522	Site #:	K522	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
KM:	15.84	User km:	16.50	Crossing Name:	Hurley R	Next Inspection Date:	2018/06/18
Project File ID #:	10194	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Pile -Permanent Materials		
Total Length (metres):	27.5	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	504120	UTM Northing:	5619881		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1982		
Access:							

### ABUTMENTS

Bearings	Fair	No pads metal to metal
Bracing	Good	
Ballast Wall	Fair	Extensive Rot
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Poor	Extensive rot some planks failing

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	1	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Poor	Surface water off the #1 approach has been ditched onto the bridge eroding fill at the downstream corner

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K522	<b>Site #:</b>	K522	<b>Road Name:</b>	HURLEY RIVER NORTH	<b>Inspection Date:</b>	2015/06/18			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Fair									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Poor	Rotten and worn see photo. requires repair								
<b>Sub Deck</b>	Fair									
<b>Ties</b>	Fair	only 4x4" timber								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		2.0		<b>Estimated Present Water Level Width:</b>		26.0			
	<b>Estimated High Water Level Clearance:</b>		2.4							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$200.00	Surface water off the #1 approach has been ditched onto the bridge eroding fill at the downstream corner. Grader could redirect water.					
	2	Required	High	\$5,500.00	Leaving outside planks in place and replacing only the 8 runs of 3x12" the bridge is approximately 90 ft long so 2160 Bf is needed					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor Ballast and wing wall rot								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K522	Site #:	K522	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18	
GENERAL	Inspector's Comment:	The deck needs repair, the outer planks could be left in place. Ground inspection only.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2032	Replacement Date for light vehicle traffic (year):		2032	
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		45	Design Vehicle Config.:	L45
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/12/2016 4:17:54PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1000	Site #:	K1000	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
KM:	16.61	User km:	17.50	Crossing Name:	Waterfalls Cr	Next Inspection Date:	2018/06/18
Project File ID #:	10194	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	15.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	503881	UTM Northing:	5619212		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:	Transferred to MOTI, as road was originally under their tenure. DA Transferred back to FLNRO. MRF 09/14						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1000	Site #:	K1000	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		3.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	No tag on this structure								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1000	Site #:	K1000	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2060	Replacement Date for light vehicle traffic (year):		2065
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 11:04:39AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1002	Site #:	K1002	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
KM:	19.52	User km:	20.50	Crossing Name:	Unnamed	Next Inspection Date:	2018/06/18
Project File ID #:	10194	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	11.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	502710	UTM Northing:	5616786		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2002		
Access:	Transferred back to MOTI, as road was originally under Hwys tenure. DA april 2011. Transferred back to FLNRO. MRF 09/14						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1002	Site #:	K1002	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18			
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		1.4							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Bridge has no tag								
GENERAL	PEng's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1002	Site #:	K1002	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18	
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):			2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/11/2016 11:06:12AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K524	Site #:	K524	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
KM:	22.45	User km:	23.30	Crossing Name:	Hope Cr	Next Inspection Date:	2018/06/18
Project File ID #:	10194	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	24.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	501591	UTM Northing:	5614179		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1998		
Access:	Structure was transferred back to MOTI, as FSR was under original tenure of Hwys. 2011 Transferred back to FLNRO. MRF 09/14						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K524	Site #:	K524	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18			
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.5		Estimated Present Water Level Width:		10.7			
	Estimated High Water Level Clearance:		2.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	No tag on this structure, likely due to new curbs								

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 45 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K524	Site #:	K524	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/12/2016 4:24:14PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 46 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K525	<b>Site #:</b>	K525	<b>Road Name:</b>	HURLEY RIVER NORTH	<b>Inspection Date:</b>	2015/06/18
<b>KM:</b>	28.02	<b>User km:</b>	28.80	<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2018/06/18
<b>Project File ID #:</b>	10194	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	6.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	497655	<b>UTM Northing:</b>	5610618		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1988		
<b>Access:</b>	Section of FSR transferred back to MOTI, as Hwys had original tenure. 2011. DA. Transferred back to FLNRO. MRF 09/14						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Fair	One section @ the #2 approach upstream side has fallen over (see photo) likely not an issue
Road Surface	Good	

### DECK

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K525	Site #:	K525	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
--------------	------	---------	------	------------	--------------------	------------------	------------

### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Fair	Some impact damage @ #2 downstream side, still functional
Deck Joints	Good	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.7
	Estimated High Water Level Clearance:	0.8		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

GENERAL	Inspector's Comment:	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 48 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K525	Site #:	K525	Road Name:	HURLEY RIVER NORTH	Inspection Date:	2015/06/18
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2038	Replacement Date for light vehicle traffic (year):		2038
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/12/2016 4:30:43PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 49 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1021	Site #:	K1021	Road Name:	HURLEY RIVER SOUTH	Inspection Date:	2011/10/19
KM:	0.01	User km:	5.10	Crossing Name:	Unnamed	Next Inspection Date:	2013/10/19
Project File ID #:	10194	Br.	04	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): <small>(looking downstream)</small>	Crib, Log or Untreated Timber		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	494039	UTM Northing:	5611504		
Inspector Name:	Shane Stockwell			Year Superstructure Installed:	1970		
Access:	no vehicular access, quick heli access inspections.						

CHANNEL	Estimated Present Water Level Depth:		Estimated Present Water Level Width:							
	Estimated High Water Level Clearance:	0.0								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1021	Site #:	K1021	Road Name:	HURLEY RIVER SOUTH	Inspection Date:	2011/10/19
GENERAL	Replacement Date for full log haul traffic (year):			2020	Replacement Date for light vehicle traffic (year):		2025
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:	Accepted By Drew Alway on 1/28/2014 12:00:00AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K535	Site #:	K535	Road Name:	HURLEY RVR-SOUTH	Inspection Date:	2011/10/19			
KM:	0.50	User km:	4.30	Crossing Name:	Hurley R	Next Inspection Date:	2013/10/19			
Project File ID #:	10194	Br.	05	Forest District:	Cascades Natural Resource District					
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks					
Superstructure	Steel I-beam			Abutments (Left/Right): <small>(looking downstream)</small>	Sill -Temporary Materials					
Total Length (metres):	15.6	# Spans:	1	Span Length(s) (metres):	0					
UTM Zone:	10	UTM Easting:	494746	UTM Northing:	5612409					
Inspector Name:	Shane Stockwell			Year Superstructure Installed:	1980					
Access:										
CHANNEL	Estimated Present Water Level Depth:			Estimated Present Water Level Width:						
	Estimated High Water Level Clearance:			0.0						
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 52 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K535	Site #:	K535	Road Name:	HURLEY RVR-SOUTH	Inspection Date:	2011/10/19	
GENERAL	Replacement Date for full log haul traffic (year):			2030	Replacement Date for light vehicle traffic (year):			2035
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:	Accepted By Drew Alway on 1/28/2014 12:00:00AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 53 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1346	<b>Site #:</b>	K1346	<b>Road Name:</b>	PARADISE LAKE	<b>Inspection Date:</b>	2015/06/13
<b>KM:</b>	12.33	<b>User km:</b>	16.50	<b>Crossing Name:</b>	Quilchena Cr	<b>Next Inspection Date:</b>	2018/06/13
<b>Project File ID #:</b>	10202	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Treated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	15.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	691941	<b>UTM Northing:</b>	5539960		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2005		
<b>Access:</b>	The Quilchena Bridge K1346 is accessed from the Elkhart interchange up to Paradise Km 16.5, a sharp left turn at the base of the hill just before the washout thence 1.8 km back along the base of the hill on the new road.						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	
Corrosion Protection	Good	
Caps or Sills	Good	Treated no significant rot
Fill	Fair	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Road ends just beyond the bridge
Bridge Ahead Signs Missing	1	Sign is missing on the High chain end
Brushing Required	Yes	Brush out #1 end of bridge
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1346	Site #:	K1346	Road Name:	PARADISE LAKE	Inspection Date:	2015/06/13			
Curb Rail/Blocks/Posts	Good									
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Good									
Overall Deck Condition	Good									
Running Planks	Good									
Sub Deck	Good									
Ties	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		1.3			
	Estimated High Water Level Clearance:									
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	The Road ends just beyond the bridge. There is no bridge ahead sign on that side. The bridge has an incorrect Tag K1343.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 55 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1346	Site #:	K1346	Road Name:	PARADISE LAKE	Inspection Date:	2015/06/13	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 1:04:18PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1492	<b>Site #:</b>	K1492	<b>Road Name:</b>	TEPEE LAKES BR 01	<b>Inspection Date:</b>	2016/07/09
<b>KM:</b>	7.80	<b>User km:</b>	1.00	<b>Crossing Name:</b>	Tepee Cr	<b>Next Inspection Date:</b>	2019/07/09
<b>Project File ID #:</b>	10334	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated - Panels			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	17.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	16.3		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	700930	<b>UTM Northing:</b>	5515883		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2009		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Surface water is running off both approaches onto the bridge
Bridge Ahead Signs Missing	2	Both missing
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Fair	Settled at the #1 approach

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1492	<b>Site #:</b>	K1492	<b>Road Name:</b>	TEPEE LAKES BR 01	<b>Inspection Date:</b>	2016/07/09			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Poor	Only 1/2" lags used, no washers and some loose.								
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Fair	Dirty and some wear								
<b>Sub Deck</b>	Good									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		1.1			
	<b>Estimated High Water Level Clearance:</b>		1.5							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$1,000.00	Grade or waterbar approaches to remove surface water from bridge					
	2	Required	High	\$1,000.00	Remove lags and install larger lags with washers. some of existing are loose					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 58 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1492	Site #:	K1492	Road Name:	TEPEE LAKES BR 01	Inspection Date:	2016/07/09	
GENERAL	Inspector's Comment:	There appear to have been previous inspections. Only 1/2 lags used to connect deck without washers and some are loose.						
GENERAL	PEng's Comment:	road approach works and lag tightening and installation for missing top flange to tie connections to be installed. Utilize tie clips if holes in flange due not line up with ties above.						
GENERAL	Replacement Date for full log haul traffic (year):			2059	Replacement Date for light vehicle traffic (year):			
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 2:43:46PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

- 1) Structure and site information is current at the time of report creation and may have changed since the inspection was submitted and/or accepted.
- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K671	<b>Site #:</b>	K671	<b>Road Name:</b>	THYNNE-LOWER MCPHAIL	<b>Inspection Date:</b>	2016/06/27
<b>KM:</b>	7.59	<b>User km:</b>	6.70	<b>Crossing Name:</b>	McPhail Cr	<b>Next Inspection Date:</b>	2019/06/27
<b>Project File ID #:</b>	1045	<b>Br.</b>	02	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Culvert Type:</b>	Round			<b>Culvert Material:</b>	Corrugated Steel		
<b>Inlet Cover (mm):</b>	1,300			<b>Outlet Cover (mm):</b>	1,200		
<b>Footing Type:</b>				<b>Gradient (%):</b>	0.0		
<b>Culvert Length (metres):</b>	18.0	<b>Opening Height (mm):</b>	3,000	<b>Opening Width (mm):</b>	3,000		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	652621	<b>UTM Northing:</b>	5510375		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1993		
<b>Access:</b>	Lower McPhail road junction around 5-6 km off main.						

### APPROACHES

Alignment	Fair	Tight corner
Bridge Ahead Signs Missing	0	Not required
Brushing Required	Yes	The outlet is very overgrown and debris is collecting at the outlet
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	No access
Coating	Poor	Rusty
Embedment Materials	Not Applicable	
Fill	Fair	Very steep at the outlet and a slump has occurred at the #1 downstream side
Floor	Poor	Rusted out the full length of the culvert
Footing	Not Applicable	
Head Wall	Poor	Oversteepened slumped on the downstream side
Inlet	Fair	Debris was collecting, cleared at inspection
Outlet	Poor	Very grown in debris collecting

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 60 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K671	Site #:	K671	Road Name:	THYNNE-LOWER MCPHAIL	Inspection Date:	2016/06/27			
Overall	Poor	Much of the flow is beneath the culvert now that the bottom is rusted through								
Riprap	Poor	Oversteepened and not much placed at the inlet								
Roof	Poor	Irregular								
Side Walls	Fair	Irregular								
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Fair	Steep								
CHANNEL	Estimated Present Water Level Depth:		0.1		Estimated Present Water Level Width:		0.5			
	Estimated High Water Level Clearance:		0.6							
HAZARDS	High Water:	No	Scour:	Yes	Ice:	No	Debris:	Yes	Aggradation:	Yes
	Comment:	The culvert invert is rusted through and materials are being scoured out under the culvert. Lots of woody debris collecting at the outlet.								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$35,000.00	Replace culvert					
	2	Required	High	\$600.00	Clear debris from inlet and outlet					
MONITORS	#	Description								
	1	Monitor culvert for failure								
	2	Monitor debris collecting at this site								
	3	Monitor downstream fill failure								
GENERAL	Inspector's Comment:	This culvert is in very poor condition, the culvert invert is rusted through the entire length. Consider for replacement The creek is partially flowing under the culvert.								
GENERAL	PEng's Comment:	I'll leave the load rating as 63.7 GVW, but users should plan for this replacement. Note I would verify this site is fish bearing or not as the GA replacement design may require an open bottomed structure. Leave the FLHRD to 2019, giving users time to complete the GA design and make plans for replacement								
GENERAL	Replacement Date for full log haul traffic (year):			2019		Replacement Date for light vehicle traffic (year):			2024	
	Current Inspection Load Rating:		64		Design Load GVW (tonnes):		0		Design Vehicle Config.:	
	Professional Inspection Required?		Yes		Report Status:		Reviewed By Drew Alway on 1/25/2017 1:54:03PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 61 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1495	Site #:	K1495	Road Name:	DUFFEY LAKE	Inspection Date:	2015/06/22
KM:	0.30	User km:	0.30	Crossing Name:	Unnamed	Next Inspection Date:	2017/06/22
Project File ID #:	10583	Br.	02	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	800			Outlet Cover (mm):	800		
Footing Type:				Gradient (%):			
Culvert Length (metres):	12.0	Opening Height (mm):	600	Opening Width (mm):	600		
UTM Zone:	10	UTM Easting:	553517	UTM Northing:	5587485		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2009		
Access:	BCTS to construct 09.						

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Fair	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Not Applicable	
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Poor	Some erosion when flows exceeded culverts capacity
Floor	Good	
Footing	Not Applicable	
Head Wall	Poor	Low
Inlet	Poor	one has damaged inlet and one is partially plugged with a large rock just inside culvert
Outlet	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 62 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1495	<b>Site #:</b>	K1495	<b>Road Name:</b>	DUFFEY LAKE	<b>Inspection Date:</b>	2015/06/22			
<b>Overall</b>	Poor	Under capacity and insufficient diameter								
<b>Riprap</b>	Fair									
<b>Roof</b>	Good									
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Fair									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		10.0			
	<b>Estimated High Water Level Clearance:</b>		0.0							
<b>HAZARDS</b>	<b>High Water:</b>	Yes	<b>Scour:</b>	Yes	<b>Ice:</b>	Yes	<b>Debris:</b>	Yes	<b>Aggradation:</b>	Yes
	<b>Comment:</b>	Chance of failure from any of the hazards high.								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$2,000.00	Remove rock from #3 culvert					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor closely for plugging. spent 1 hour clearing culvert at inspection								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Only 600 mm. x3 culverts materials flushed down creek are larger than diameter of culvert. One has a large rock embedded inside (first #2 approach) Cleared all culverts except the one with the rock. This site will likely blow out at high water if not before.								
<b>GENERAL</b>	<b>PEng's Comment:</b>	These culverts were only designed for a q2 event. Therefore they do need to be cleaned annually. If not then they should be deactivated.								
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2020		<b>Replacement Date for light vehicle traffic (year):</b>			2020	
	<b>Current Inspection Load Rating:</b>		63		<b>Design Load GVW (tonnes):</b>		63		<b>Design Vehicle Config.:</b>	BCL625
	<b>Professional Inspection Required?</b>		No		<b>Report Status:</b>	Reviewed By Drew Alway on 2/11/2016 1:26:10PM				

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 63 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1514	Site #:	K1514	Road Name:	DUFFEY LAKE	Inspection Date:	2015/06/22
KM:	0.80	User km:		Crossing Name:	Unnamed	Next Inspection Date:	2018/06/22
Project File ID #:	10583	Br.	02	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Concrete		
Inlet Cover (mm):	800			Outlet Cover (mm):	800		
Footing Type:				Gradient (%):			
Culvert Length (metres):	12.0	Opening Height (mm):	600	Opening Width (mm):	600		
UTM Zone:	10	UTM Easting:	553592	UTM Northing:	5587541		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2009		
Access:	BCTS constructed 2009.						

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Fair	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Not Applicable	
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Fair	
Floor	Good	
Footing	Not Applicable	
Head Wall	Poor	Low
Inlet	Poor	The middle culvert is damaged
Outlet	Good	
Overall	Poor	likely unable to take maximum flows and very prone to plugging

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 64 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1514	<b>Site #:</b>	K1514	<b>Road Name:</b>	DUFFEY LAKE	<b>Inspection Date:</b>	2015/06/22			
<b>Riprap</b>	Fair									
<b>Roof</b>	Fair									
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Fair									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.1	<b>Estimated Present Water Level Width:</b>	3.0						
	<b>Estimated High Water Level Clearance:</b>	0.0								
<b>HAZARDS</b>	<b>High Water:</b>	Yes	<b>Scour:</b>	Yes	<b>Ice:</b>	Yes	<b>Debris:</b>	Yes	<b>Aggradation:</b>	Yes
	<b>Comment:</b>	Subject to failure from any of the above hazards.								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor closely, likely unable to take maximum flows and very prone to plugging								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Failure of culverts a high probability, only 3x600mm culvert. Cleared inlet at inspection.								
<b>GENERAL</b>	<b>PEng's Comment:</b>	as with the structures downstream, they were only designed for Q2 return events. So they need frequent maintenance or recommend to pull culverts if to be left for wilderness maintenance.								
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>	2020	<b>Replacement Date for light vehicle traffic (year):</b>	2020						
	<b>Current Inspection Load Rating:</b>	63	<b>Design Load GVW (tonnes):</b>	63	<b>Design Vehicle Config.:</b>	BCL625				
	<b>Professional Inspection Required?</b>	No	<b>Report Status:</b>	Reviewed By Drew Alway on 2/11/2016 2:01:11PM						

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1469	Site #:	K1469	Road Name:	DUFFEY LAKE	Inspection Date:	2015/06/22
KM:	3.00	User km:		Crossing Name:	Blowdown Creek	Next Inspection Date:	2018/06/22
Project File ID #:	10583	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated - Panels			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.3	# Spans:	1	Span Length(s) (metres):	17.8		
UTM Zone:	10	UTM Easting:	553507	UTM Northing:	5585901		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2008		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Poor	None
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Missing nuts and washers on 3 curb bolts
------------------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1469	Site #:	K1469	Road Name:	DUFFEY LAKE	Inspection Date:	2015/06/22			
Deck to Girder Bolts	Good									
Hardware	Fair	missing nuts and washers								
Hand Rails/Walkouts	Not Applicable									
Nails	Good									
Overall Deck Condition	Fair									
Running Planks	Fair	Worn and high rot values, may not last long if used for industrial haul								
Sub Deck	Unrated	None								
Ties	Fair									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.0		Estimated Present Water Level Width:		6.0			
	Estimated High Water Level Clearance:		1.7							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$200.00	Brush out bridge					
	2	Required	Low	\$200.00	This work was not completed at this inspection Guardrail: Install 4 nuts and washers on guardrail bolts.  2 X-ties are damaged making the guardrail bolt useless, on these 2 it is possible to redrill the holes into undamaged wood.					
MONITORS	#	Description								
	1	If used for industrial haul deck may deteriorate quickly, the most economical fix might be to add run strips prior to haul.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 67 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1469	Site #:	K1469	Road Name:	DUFFEY LAKE	Inspection Date:	2015/06/22
GENERAL	Inspector's Comment:	If used for industrial haul deck may deteriorate quickly, the most economical fix might be to add run strips prior to haul.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2058	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:
							L75
GENERAL	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/11/2016 1:20:28PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	020-07	Site #:	K1588	Road Name:	DOWNTON CREEK	Inspection Date:	2015/06/24
KM:	0.10	User km:	0.10	Crossing Name:	Cayoosh Cr	Next Inspection Date:	2017/06/24
Project File ID #:	10806	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	36.6	# Spans:	1	Span Length(s) (metres):	36		
UTM Zone:	10	UTM Easting:	564122	UTM Northing:	5603974		
Inspector Name:	Ron Peace			Year Superstructure Installed:			
Access:							

### ABUTMENTS

Bearings	Fair	Sill not well supported at bearing upstream #2
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	As noted above one of the two tie/support logs has extensive rot at upstream bearing
Fill	Good	
Hardware	Not Applicable	
Log/Timber Crib	Fair	Old crib for fill retension and erosion controll primarily
Piles or Posts	Not Applicable	
Riprap	Fair	
Tie-backs	Poor	#1 and #2 tie backs At the #2 abutment have extensive rot in the bearing area (see photo)
Wing Wall	Fair	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Fair	Low

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 69 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	020-07	Site #:	K1588	Road Name:	DOWNTON CREEK	Inspection Date:	2015/06/24			
Posted Load Rating	none									
Road Surface	Good									
DECK										
Span 1										
Curb Rail/Blocks/Posts	Fair	one riser block has elevated rot values, still funtional, some loose curbs								
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Fair									
Overall Deck Condition	Fair									
Running Planks	Fair	The #2 appraoch has some wear and rot as well as a loose plank								
Sub Deck	Good									
Ties	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.5		Estimated Present Water Level Width:		29.0			
	Estimated High Water Level Clearance:		2.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	High	\$2,000.00	Replace worn and loose deck planks, requires 13- 4x8" x9', 312 BF					

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	020-07	Site #:	K1588	Road Name:	DOWNTON CREEK	Inspection Date:	2015/06/24
MONITORS	#	Description					
	1	Monitor log support under Sill log at the upstream side of #2 abutment					
	2	Monitor curb risers and ties for rot					
GENERAL	Inspector's Comment:	This structure has been upgraded, old crib is primarily for fill retention and erosion controll. It has rot but it is stable. New logs have been laid in the retained fill perpendicular to the creek (like tie backs) and the sill log is resting on these (7). Generally the logs are good with exception of #1 and #2 , upstream #2 abutment. These two "tie backs" have extensive rot (see photo) One of the rotten logs is at bearing of the sill log which is 700 mm dia. but is notched to 600 mm at the bearing plate. Additional support may be required.					
GENERAL	PEng's Comment:	Need for professional inspection to assess FLHRD.					
GENERAL	Replacement Date for full log haul traffic (year):		2020		Replacement Date for light vehicle traffic (year):		2025
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		
	Professional Inspection Required?		Yes		Report Status:		Reviewed By Drew Alway on 2/3/2016 3:25:05PM
Design Vehicle Config.:		L75					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1593	<b>Site #:</b>	K1593	<b>Road Name:</b>	DOWNTON CREEK	<b>Inspection Date:</b>	2016/06/17
<b>KM:</b>	4.90	<b>User km:</b>	4.90	<b>Crossing Name:</b>	Downton Cr	<b>Next Inspection Date:</b>	2018/06/17
<b>Project File ID #:</b>	10806	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Log Stringers			<b>Abutments (Left/Right): (looking downstream)</b>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	12.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	11.4		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	560262	<b>UTM Northing:</b>	5604450		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2007		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Log/Timber Cribs	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Tie-backs	Good	
Wing Wall	Good	

### APPROACHES

Alignment	Fair	Corner at the #1 approach
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 72 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1593	Site #:	K1593	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Not Applicable	
Hardware	Good	Curb cables
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	
Running Planks	Fair	Dirty
Sub Deck	Unrated	None
Ties	Fair	Some of the ties are not shimmed to stringer tops

### STRINGERS

#### Span 1

Stringer #	Diameter or Width X Depth	Peeled	Rot Depth (Bottom)	Rot Depth (Side)	Rot Depth (Top)	Wood Species	Comments
3	650	Yes	0	0	0	fir	Core sample at next inspection on #1 end
4	650	Yes	0	0	0	fir	Core sample at #1 end next inspection
Log Curbs		Good					
Needle Beam(s) and Shims		Fair	Shimmed but not tight				

#### CHANNEL

Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	6.0
Estimated High Water Level Clearance:	2.0		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Complete	Medium	\$100.00	Brush out bridge

#### MONITORS

#	Description
1	Monitor ties not shimmed
2	Core sample the #1 end of stringers 3 and 4 at next inspection

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1593	Site #:	K1593	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17	
GENERAL	Inspector's Comment:	No significant rot was found, stringer have many large knots. Some gravel still on deck and not brushed out						
GENERAL	PEng's Comment:	This structure seems to be performing well. I've updated the FLHRD to 2018 as stringer appear fair.						
GENERAL	Replacement Date for full log haul traffic (year):			2018	Replacement Date for light vehicle traffic (year):		2022	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/10/2017 11:59:08AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1592	Site #:	K1592	Road Name:	DOWNTON CREEK	Inspection Date:	2015/06/22
KM:	3.40	User km:		Crossing Name:	Downton Cr	Next Inspection Date:	2017/06/22
Project File ID #:	10806	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	12.5	# Spans:	1	Span Length(s) (metres):	12.2		
UTM Zone:	10	UTM Easting:	561543	UTM Northing:	5604396		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2007		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Log/Timber Cribbs	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Tie-backs	Good	
Wing Wall	Good	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1592	Site #:	K1592	Road Name:	DOWNTON CREEK	Inspection Date:	2015/06/22
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	None
Ties	Good	

### STRINGERS

#### Span 1

Log Curbs	Good	
Needle Beam(s) and Shims	Good	

CHANNEL	Estimated Present Water Level Depth:	1.2	Estimated Present Water Level Width:	7.6
	Estimated High Water Level Clearance:	2.0		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

GENERAL	Inspector's Comment:	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1592	Site #:	K1592	Road Name:	DOWNTON CREEK	Inspection Date:	2015/06/22
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2022	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status: Reviewed By Drew Alway on 2/11/2016 2:03:23PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1590	Site #:	K1590	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
KM:	2.50	User km:		Crossing Name:	Downton Cr	Next Inspection Date:	2018/06/17
Project File ID #:	10806	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Rail Car			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	16.6	# Spans:	1	Span Length(s) (metres):	15.2		
UTM Zone:	10	UTM Easting:	562291	UTM Northing:	5604621		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2007		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Poor	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Poor visibility
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	20	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1590	<b>Site #:</b>	K1590	<b>Road Name:</b>	DOWNTON CREEK	<b>Inspection Date:</b>	2016/06/17			
<b>Curb Rail/Blocks/Posts</b>	Fair	Cabled log, missing mid span riser at the downstream								
<b>Deck to Girder Bolts</b>	Not Applicable									
<b>Hardware</b>	Good	Cables								
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Fair	Some deterioration at the #2 end, if used for heavy industrial may require upgrading								
<b>Sub Deck</b>	Unrated	None								
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good	Rusty and dirty								
<b>Hardware</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.0		<b>Estimated Present Water Level Width:</b>		5.2			
	<b>Estimated High Water Level Clearance:</b>		1.7							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$3,400.00	For heavy industrial haul full deck replacement may be required deck is 16.6 m. long and 4.6 wide					
	2	Required	Low	\$300.00	Clean super structure  This is required to allow for adequate inspection of the railcars on future inspections.					
	3	Complete	High	\$100.00	Brush out bridge					
	4	Complete	Medium	\$2,000.00	Install new curbs					
	5	Required	High	\$2,000.00	Add 19 mm dia bolts to connect each railcar section at the centerline with nuts and bolts, @ O.C. 600 mm.  D.A. Ensure ties in future have angle iron connection to each railcar section @ O.C. spacing of 1200 mm.  The two items above will bring us in line with the ministry std drawing for rail car bridges.					

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 79 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1590	Site #:	K1590	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
MONITORS	#	Description					
GENERAL	Inspector's Comment:	The deck dimensions are 16.6x4.6 m.and the clear span is 15.2 m. the rail cars are resting on a single log sill and the girders are at most 300 mm above the fill. Curbs have not been replaced					
GENERAL	PEng's Comment:	Monitor ties as they may require deck replacement in the coming years. At that time ties should be moved to 200X250 ties @ 400mm O.C. spacing. I've added repair item #5: to outline the hardware required to bring this structure in line with the ministry standard rail car dwgs. See detailed repairs. Consider replacing ties if industrial hauling is required, ok at the time of this inspection, but will most likely require replacement after the next inspection.  Once all the repairs are completed then this bridge will move to CL-625, for now it will stay at a 20 tonnes load restriction.					
GENERAL	Replacement Date for full log haul traffic (year):		2022		Replacement Date for light vehicle traffic (year):		2027
	Current Inspection Load Rating:		20		Design Load GVW (tonnes):		63
	Design Vehicle Config.:		CL625				
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 1/10/2017 11:49:54AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1589	Site #:	K1589	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
KM:	1.50	User km:		Crossing Name:	Downton Cr	Next Inspection Date:	2018/06/17
Project File ID #:	10806	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Rail Car			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	16.6	# Spans:	1	Span Length(s) (metres):	16.3		
UTM Zone:	10	UTM Easting:	563291	UTM Northing:	5604783		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2007		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Poor	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	Installed at inspection
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	None	
Posted Load Rating	20	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1589	Site #:	K1589	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
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Curb Rail/Blocks/Posts	Fair	Lof no mid span riser or cable
Deck to Girder Bolts	Not Applicable	
Hardware	Good	Cables
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Poor	Requires upgrading
Running Planks	Poor	Extensive rot will deteriorate quickly if used for heavy haul
Sub Deck	Unrated	None
Ties	Fair	'Some extensive rot likely 6-10 ties are 8 3/4 " x 83/4" x20' 6"

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	Dirty
Hardware	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	5.6
	Estimated High Water Level Clearance:	1.9		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$4,500.00	New decking 14.5' x 57' or 3306 BF of 4" deck planks.
	2	Complete	Medium	\$2,000.00	New curbs and risers for 60' +/-
	3	Required	Medium	\$1,000.00	Replace ties that have high rot when redecking 6-10 20'x83/4x83/4" each  DA Replace ties with 200X250 ties on 400 mm O/C spacing. You can achieve a 4.88 m deck width. With riser blocks and connection to the curbs at 2400 mm max spacing. With at least one angle iron connection from the ties to each rail car section at 1200 mm spacing.
	4	Complete	Medium	\$100.00	Brush out bridge
	5	Required	Medium	\$250.00	Clean super structure  These girders are dirty and require cleaning to be able to properly inspect them in the future.

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1589	Site #:	K1589	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
MONITORS	#	Description					
GENERAL	Inspector's Comment:	This structures center to center of bearing is 16.3 m. The bridge will need a new deck for industrial haul as well as some new ties and curbs. See amounts in repairs					
GENERAL	PEng's Comment:	Note I've updated the repairs and added some detailed repairs. Once these are completed and reviewed by a P.Eng then this structure load rating will increase to CL-625 loading.					
GENERAL	Replacement Date for full log haul traffic (year):		2022		Replacement Date for light vehicle traffic (year):		2027
	Current Inspection Load Rating:		20		Design Load GVW (tonnes):		Design Vehicle Config.:
	Professional Inspection Required?		No		Report Status:		Reviewed By Drew Alway on 1/10/2017 11:27:09AM

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1591	<b>Site #:</b>	K1591	<b>Road Name:</b>	DOWNTON CREEK	<b>Inspection Date:</b>	2016/06/17
<b>KM:</b>	2.70	<b>User km:</b>		<b>Crossing Name:</b>	Downton Cr	<b>Next Inspection Date:</b>	2018/06/17
<b>Project File ID #:</b>	10806	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Log Stringers			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	11.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	11		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	562149	<b>UTM Northing:</b>	5604564		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2007		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Poor	None
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Log/Timber Crib</b>	Good	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Good	
<b>Tie-backs</b>	Good	
<b>Wing Wall</b>	Good	

### APPROACHES

<b>Alignment</b>	Fair	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	Yes	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	
<b>Road Surface</b>	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1591	Site #:	K1591	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Not Applicable	
Hardware	Good	Cables
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	Will require full redeck soon, sooner if used for industrial haul
Running Planks	Poor	Failed section requires a 12',16' and a 9' 4x8" planks to fill failed and rotten planks
Sub Deck	Unrated	None
Ties	Good	

### STRINGERS

#### Span 1

Log Curbs	Good	
Needle Beam(s) and Shims	Fair	Shimmed but not tight

#### CHANNEL

Estimated Present Water Level Depth:	0.9	Estimated Present Water Level Width:	5.5
Estimated High Water Level Clearance:	1.2		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Complete	High	\$1,000.00	Failed section requires a 12',16' and a 9' 4x8" planks to fill failed and rotten planks. If used for industrial haul others may not last long. Consider full redeck for industrial haul
2	Complete	Medium	\$200.00	Brush out bridge

#### MONITORS

#	Description

#### GENERAL

Inspector's Comment:	No significant stringer rot. the deck has a failed section and materials for a patch job are listed in the repairs. A full redeck might be considered.
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1591	Site #:	K1591	Road Name:	DOWNTON CREEK	Inspection Date:	2016/06/17	
GENERAL	<b>PEng's Comment:</b> planks were replaced after this inspection and approach barriers added. Moved FLHRD to 2019 as stringer appear to be doing well.							
GENERAL	Replacement Date for full log haul traffic (year):			2019	Replacement Date for light vehicle traffic (year):		2022	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 11:46:39AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

- 1) Structure and site information is current at the time of report creation and may have changed since the inspection was submitted and/or accepted.
- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 86 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1587A	Site #:	K1587	Road Name:	VAN HORLICK	Inspection Date:	2016/06/17
KM:	5.90	User km:		Crossing Name:	Unnamed	Next Inspection Date:	2019/06/17
Project File ID #:	10808	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	400			Outlet Cover (mm):	900		
Footing Type:				Gradient (%):	5.0		
Culvert Length (metres):	9.0	Opening Height (mm):	2,000	Opening Width (mm):	2,000		
UTM Zone:	10	UTM Easting:	549563	UTM Northing:	5577899		
Inspector Name:	Ron Peace			Year Superstructure Installed:			
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	Not required
Brushing Required	Yes	The creek channel is very overgrown, brushing might minimize debris hanging up at structure
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Some erosion at inlet to outside edge of road upstream side

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Not Applicable	
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Fair	Not well armoured between the upstream end of the culverts
Inlet	Good	Overgrown

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 87 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1587A	<b>Site #:</b>	K1587	<b>Road Name:</b>	VAN HORLICK	<b>Inspection Date:</b>	2016/06/17			
<b>Outlet</b>	Good	Overgrown								
<b>Overall</b>	Good									
<b>Riprap</b>	Fair	Notmuch protection between the culverts								
<b>Roof</b>	Fair	Irregular and rock bruises on the #1 culvert								
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.2			<b>Estimated Present Water Level Width:</b>	6.4				
	<b>Estimated High Water Level Clearance:</b>	0.8								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	Yes	<b>Aggradation:</b>	No
	<b>Comment:</b>	The creek channel is very overgrown, brushing might minimize debris hanging up at structure, some scouring of fill at inlet								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$400.00	The creek channel is very overgrown, brushing might minimize debris hanging up at structure					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor erosion of fill at inlet, and debris blockage								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The creek channel is very overgrown, brushing might minimize debris hanging up at structure								
<b>GENERAL</b>	<b>PEng's Comment:</b>									
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2031	<b>Replacement Date for light vehicle traffic (year):</b>			2036		
	<b>Current Inspection Load Rating:</b>		63	<b>Design Load GVW (tonnes):</b>				<b>Design Vehicle Config.:</b>		CL625
	<b>Professional Inspection Required?</b>		No	<b>Report Status:</b>	Reviewed By Drew Alway on 1/10/2017 9:57:04AM					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 88 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K753	Site #:	K753	Road Name:	WHIPSAW CREEK	Inspection Date:	2016/07/06
KM:	4.53	User km:	4.50	Crossing Name:	Corral Cr	Next Inspection Date:	2019/07/06
Project File ID #:	3600	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	2,200			Outlet Cover (mm):	0		
Footing Type:				Gradient (%):	3.0		
Culvert Length (metres):	22.0	Opening Height (mm):	2,200	Opening Width (mm):	2,200		
UTM Zone:	10	UTM Easting:	673210	UTM Northing:	5469153		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1983		
Access:							

### APPROACHES

Alignment	Good	Wide sweeping corner
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Fair	Some rust
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Fair	Uneven
Footing	Not Applicable	
Head Wall	Fair	Steep at the outlet
Inlet	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 89 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K753	<b>Site #:</b>	K753	<b>Road Name:</b>	WHIPSAW CREEK	<b>Inspection Date:</b>	2016/07/06			
<b>Outlet</b>	Fair	Eroded back from the outlet 1.8 m. and the drop from invert 0.8 m to large erosion pool								
<b>Overall</b>	Fair									
<b>Riprap</b>	Fair	Steep at the outlet								
<b>Roof</b>	Good									
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Fair	Steep at the outlet								
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.1		<b>Estimated Present Water Level Width:</b>	1.2					
	<b>Estimated High Water Level Clearance:</b>	1.3								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>									
<b>GENERAL</b>	<b>PEng's Comment:</b>									
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>	2033		<b>Replacement Date for light vehicle traffic (year):</b>	2038					
	<b>Current Inspection Load Rating:</b>	64		<b>Design Load GVW (tonnes):</b>	0		<b>Design Vehicle Config.:</b>			
	<b>Professional Inspection Required?</b>	No	<b>Report Status:</b>	Reviewed By Drew Alway on 1/25/2017 2:59:15PM						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K751	<b>Site #:</b>	K751	<b>Road Name:</b>	WHIPSAW CREEK	<b>Inspection Date:</b>	2016/07/06
<b>KM:</b>	9.56	<b>User km:</b>	9.80	<b>Crossing Name:</b>	Fifteen Mile Cr	<b>Next Inspection Date:</b>	2019/07/06
<b>Project File ID #:</b>	3600	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Culvert Type:</b>	Round			<b>Culvert Material:</b>	Corrugated Steel		
<b>Inlet Cover (mm):</b>	7,600			<b>Outlet Cover (mm):</b>	6,600		
<b>Footing Type:</b>				<b>Gradient (%):</b>	5.0		
<b>Culvert Length (metres):</b>	30.0	<b>Opening Height (mm):</b>	2,200	<b>Opening Width (mm):</b>	2,200		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	671051	<b>UTM Northing:</b>	5465751		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1986		
<b>Access:</b>							

### APPROACHES

Alignment	Good	Wide sweeping corner
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Brush out the inlet
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Good	
Bolted Connections	Good	
Coupled Connections	Fair	The first section from the inlet joint is quite wide but appears to be sealed
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Fair	Very overgrown
Outlet	Good	Discharges into large erosion pool

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K751	<b>Site #:</b>	K751	<b>Road Name:</b>	WHIPSAW CREEK	<b>Inspection Date:</b>	2016/07/06			
<b>Overall</b>	Good									
<b>Riprap</b>	Good									
<b>Roof</b>	Fair	The downward deflection of the roof mesurment is 1.6 m. from the weir top at the lowest point								
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Good									
<b>Wiers/Backwater Structures</b>	Good									
<b>Wing Wall</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.1		<b>Estimated Present Water Level Width:</b>	1.5					
	<b>Estimated High Water Level Clearance:</b>	1.3								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$350.00	Clear inlet of brush					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Continue to monitor inlet roof deflection. The downward deflection of the roof mesurment is 1.6 m. from the weir top at the lowest point								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The inlet is very overgrown and should be brushed. The downward deflection of the roof mesurment is 1.6 m. from the weir top at the lowest point								
<b>GENERAL</b>	<b>PEng's Comment:</b>	Keep monitoring the roof								
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>	2033		<b>Replacement Date for light vehicle traffic (year):</b>	2038					
	<b>Current Inspection Load Rating:</b>	64		<b>Design Load GVW (tonnes):</b>	0		<b>Design Vehicle Config.:</b>			
	<b>Professional Inspection Required?</b>	No	<b>Report Status:</b>	Reviewed By Drew Alway on 1/25/2017 2:57:47PM						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K754	Site #:	K754	Road Name:	WHIPSAW-LAMONT	Inspection Date:	2016/07/06
KM:	3.09	User km:	5.20	Crossing Name:	Lamont Cr	Next Inspection Date:	2019/07/06
Project File ID #:	3600	Br.	02	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	9,000			Outlet Cover (mm):	8,000		
Footing Type:				Gradient (%):	5.0		
Culvert Length (metres):	40.0	Opening Height (mm):	1,500	Opening Width (mm):	1,500		
UTM Zone:	10	UTM Easting:	672998	UTM Northing:	5472395		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1979		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Unrated	No access into the culvert.
Coating	Fair	Rusty
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Fair	uneven
Footing	Not Applicable	
Head Wall	Fair	Steep
Inlet	Good	
Outlet	Fair	Drop from invert into large erosion pool is .4 m.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 93 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K754	Site #:	K754	Road Name:	WHIPSAW-LAMONT	Inspection Date:	2016/07/06			
Overall	Fair									
Riprap	Fair									
Roof	Poor	Deflected down, previous 2010 inspection suggests .45 m.								
Side Walls	Fair									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Fair	Steep								
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		2.7			
	Estimated High Water Level Clearance:		0.7							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Continue to monitor roof deflection								
GENERAL	Inspector's Comment:	Deflection of the roof appears unchanged, no access due to water and unsecured footing. Rope may be required to safely traverse to culvert.								
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):			2033		Replacement Date for light vehicle traffic (year):			2038	
	Current Inspection Load Rating:		64		Design Load GVW (tonnes):		0		Design Vehicle Config.:	
	Professional Inspection Required?		No		Report Status:		Reviewed By Drew Alway on 1/25/2017 3:17:28PM			

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K426	Site #:	K426	Road Name:	KENNEDY	Inspection Date:	2010/09/21
KM:	0.32	User km:	9.30	Crossing Name:	Whipsaw Cr	Next Inspection Date:	2012/09/21
Project File ID #:	3600	Br.	04	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	7.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	671351	UTM Northing:	5465882		
Inspector Name:	Chris Cole			Year Superstructure Installed:	1986		
Access:							

### ABUTMENTS

Bearings	Not Applicable	
Bracing	Not Applicable	
Ballast Wall	Unrated	Bridge has been removed.
Corrosion Protection	Not Applicable	
Caps or Sills	Unrated	Bridge has been removed.
Fill	Good	
Hardware	Not Applicable	
Log/Timber Cribbs	Fair	
Piles or Posts	Not Applicable	
Riprap	Not Applicable	
Tie-backs	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Unrated	Bridge has been removed.
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	2	
Delineator Missing Right (approaching structure)	2	
Fender Condition	None	
Posted Load Rating	None	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K426	Site #:	K426	Road Name:	KENNEDY	Inspection Date:	2010/09/21
--------------	------	---------	------	------------	---------	------------------	------------

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Unrated	Bridge has been removed.
Deck to Girder Bolts	Not Applicable	
Hardware	Not Applicable	
Hand Rails/Walkouts	Not Applicable	
Nails	Unrated	Bridge has been removed.
Overall Deck Condition	Unrated	Bridge has been removed.
Running Planks	Not Applicable	
Sub Deck	Unrated	Bridge has been removed.
Ties	Unrated	Bridge has been removed.

### STRINGERS

#### Span 1

Log Curbs	Unrated	Bridge has been removed.
Needle Beam(s) and Shims	Unrated	Bridge has been removed.

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.0
	Estimated High Water Level Clearance:	999.0		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

GENERAL	Inspector's Comment:	Bridge has been removed

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K426	Site #:	K426	Road Name:	KENNEDY	Inspection Date:	2010/09/21
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments					
GENERAL	Replacement Date for full log haul traffic (year):			2008	Replacement Date for light vehicle traffic (year):		2013
	Current Inspection Load Rating:		5	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 1/5/2011 12:00:00AM	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1348	<b>Site #:</b>	K1348	<b>Road Name:</b>	GARRISON	<b>Inspection Date:</b>	2016/07/06
<b>KM:</b>	0.03	<b>User km:</b>	16.00	<b>Crossing Name:</b>	Whipsaw Cr	<b>Next Inspection Date:</b>	2019/07/06
<b>Project File ID #:</b>	3600	<b>Br.</b>	05	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	13.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	13		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	668358	<b>UTM Northing:</b>	5461050		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2006		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Unrated	None
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	A chip on the top edge of the #1 sill
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Good	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Good	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	Yes	
<b>Delineator Missing Left (approaching structure)</b>	0	
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	
<b>Road Surface</b>	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 98 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1348	<b>Site #:</b>	K1348	<b>Road Name:</b>	GARRISON	<b>Inspection Date:</b>	2016/07/06			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	Extensive rot on some of the downstream curbs								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair	Requires repair to downstream curbs and risers								
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.3	<b>Estimated Present Water Level Width:</b>		4.1					
	<b>Estimated High Water Level Clearance:</b>	1.5								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$3,500.00	Some risers and 2 curb sections have very high rot. 2-16' curbs and 7-2' 7-3' risers. 559 BF of 10x10" timber					
	2	Required	High	\$250.00	Brush out bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	There are some curb repairs due for this structure.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 99 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1348	Site #:	K1348	Road Name:	GARRISON	Inspection Date:	2016/07/06	
GENERAL	PEng's Comment:	When completing curb repairs. This structure is a good candidate for moving it to the metal retrofit curb HSS or W beam systems. Alternatively, this structure would benefit from treated bracket and riser blocks, if going with the CL-1 timber curb system.						
GENERAL	Replacement Date for full log haul traffic (year):			2056	Replacement Date for light vehicle traffic (year):		2061	
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 2:30:05PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 100 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K790	Site #:	K790	Road Name:	GARRISON	Inspection Date:	2016/07/06
KM:	12.06	User km:	27.50	Crossing Name:	Copper Cr	Next Inspection Date:	2019/07/06
Project File ID #:	3600	Br.	05	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	11.6	# Spans:	1	Span Length(s) (metres):	11		
UTM Zone:	10	UTM Easting:	665804	UTM Northing:	5452257		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1995		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	The #1 is chipped along its top edge, some rebar is exposed on the downstream corner
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	Not visible
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	Installed at inspection
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 101 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K790	Site #:	K790	Road Name:	GARRISON	Inspection Date:	2016/07/06
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### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	
Deck Joints	Fair	Some are open
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.3
	Estimated High Water Level Clearance:	1.4		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$200.00	The top edge of the #1 sill is chipped, some rebar exposed @ the downstream end.
	2	Required	Medium	\$200.00	Seal the deck joints

MONITORS	#	Description

GENERAL	Inspector's Comment:	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 102 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K790	Site #:	K790	Road Name:	GARRISON	Inspection Date:	2016/07/06
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2046	Replacement Date for light vehicle traffic (year):		2051
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 3:22:13PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 103 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K791	<b>Site #:</b>	K791	<b>Road Name:</b>	GARRISON	<b>Inspection Date:</b>	2016/07/06
<b>KM:</b>	12.17	<b>User km:</b>	27.60	<b>Crossing Name:</b>	Copper Cr Trib	<b>Next Inspection Date:</b>	2019/07/06
<b>Project File ID #:</b>	3600	<b>Br.</b>	05	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <small>(looking downstream)</small>	Concrete Precast		
<b>Total Length (metres):</b>	14.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	13.5		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	665448	<b>UTM Northing:</b>	5452932		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1998		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <small>(approaching structure)</small>	0	Installed @ inspection
Delineator Missing Right <small>(approaching structure)</small>	0	Installed @ inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 104 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K791	Site #:	K791	Road Name:	GARRISON	Inspection Date:	2016/07/06
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### DECK

#### Span 1

Concrete Deck	Fair	Bolt heads at the lift points on the deck, bolt heads extend above the deck panels, see photo
Curb Rail/Blocks/Posts	Fair	
Deck Joints	Fair	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

### CHANNEL

Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.5
Estimated High Water Level Clearance:	1.4		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description

### MONITORS

#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 105 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K791	Site #:	K791	Road Name:	GARRISON	Inspection Date:	2016/07/06	
GENERAL	Inspector's Comment:	The lift bolts are still in the deck panels, see photos						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2049	Replacement Date for light vehicle traffic (year):		2054	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 3:24:24PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 106 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K649	Site #:	K649	Road Name:	NICOMEN	Inspection Date:	2016/07/06
KM:	5.04	User km:	30.50	Crossing Name:	Copper CrTtrib	Next Inspection Date:	2019/07/06
Project File ID #:	3600	Br.	06	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	10.6	# Spans:	1	Span Length(s) (metres):	10		
UTM Zone:	10	UTM Easting:	664060	UTM Northing:	5451661		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2002		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	The #2 approach is a tight corner and some impact damage to both ends of the downstream curb. The 31 approach is on a more gentle curve
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	Repaired at inspection
Delineator Missing Right (approaching structure)	0	repaired at inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 107 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K649	Site #:	K649	Road Name:	NICOMEN	Inspection Date:	2016/07/06
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### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	Some impact to both ends of the downstream still functional
Deck Joints	Good	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	4.8
	Estimated High Water Level Clearance:	1.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

GENERAL	Inspector's Comment:	The shop drawings match the structure.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 108 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K649	Site #:	K649	Road Name:	NICOMEN	Inspection Date:	2016/07/06
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2052	Replacement Date for light vehicle traffic (year):		2052
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 12:31:34PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 109 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K650	Site #:	K650	Road Name:	NICOMEN	Inspection Date:	2016/07/06
KM:	10.79	User km:	36.40	Crossing Name:	Copper Cr Trib	Next Inspection Date:	2018/07/06
Project File ID #:	3600	Br.	06	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): <small>(looking downstream)</small>	Concrete Lock Blocks		
Total Length (metres):	11.3	# Spans:	1	Span Length(s) (metres):	9.8		
UTM Zone:	10	UTM Easting:	660080	UTM Northing:	5452808		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2003		
Access:							

### ABUTMENTS

Bearings	Fair	
Bracing	Not Applicable	
Ballast Wall	Fair	Logs not connected to the superstructure
Concrete Lock Blocks	Poor	3 blocks per abutment 2 paralell to the creek and perpendicular between the other two
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	The 8x10" untreated timber plank is resting on uneven lock blocks. This has the sill to deform and it is splited at the upstream of #2 at bearing.
Fill	Fair	
Hardware	Fair	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <small>(approaching structure)</small>	0	
Delineator Missing Right <small>(approaching structure)</small>	0	
Fender Condition	None	
Posted Load Rating	none	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 110 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K650	<b>Site #:</b>	K650	<b>Road Name:</b>	NICOMEN	<b>Inspection Date:</b>	2016/07/06			
<b>Road Surface</b>		Good								
<b>DECK</b>										
<b>Span 1</b>										
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Good									
<b>Running Planks</b>	Good									
<b>Sub Deck</b>	Unrated		None							
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good		Flanges are dirty							
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		2.9			
	<b>Estimated High Water Level Clearance:</b>		1.5							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	Some along toe, appears stable								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$200.00	Clean flanges					
	2	Required	High	\$80,000.00	I've decreased the FLHRD to 2017. I think users should plan to reconstruct this abutment under the direction of a P. Eng. With a structural evaluation of these steel girders, including steel sections cut for sampling. Timber sill is cracked and undersized, it should be a 200 mm X 400 mm treated timber sill. The abutment configuration should be reviewed as it appears undersized for this structure. Recommend replacement and posting at 10 tonnes. DA					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 111 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K650	Site #:	K650	Road Name:	NICOMEN	Inspection Date:	2016/07/06	
MONITORS	#	Description						
	1	Monitor uneven lock blocks.						
GENERAL	Inspector's Comment:	Scour a monitor item appears to be stable. The lock blocks either were installed uneven or they have settled, causing the sill timber to deform. The upstream corner of the bridge at the #1 abutment appears to be lower.						
GENERAL	PEng's Comment:	I've decreased the FLHRD to 2017. I think users should plan to reconstruct this abutment under the direction of a P. Eng. With a structural evaluation of these steel girders, including steel sections cut for sampling. Timber sill is cracked and undersized, it should be a 200 mm X 400 mm treated timber sill. The abutment configuration should be reviewed as it appears undersized for this structure. Recommend replacement and posting at 10 tonnes.						
GENERAL	Replacement Date for full log haul traffic (year):			2017	Replacement Date for light vehicle traffic (year):		2030	
	Current Inspection Load Rating:		10	Design Load GVW (tonnes):		0	Design Vehicle Config.:	Other
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 1:26:42PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 112 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	TKA017	<b>Site #:</b>	K1625	<b>Road Name:</b>	FOURTH BROTHER	<b>Inspection Date:</b>	2015/06/25
<b>KM:</b>	1.60	<b>User km:</b>	1.60	<b>Crossing Name:</b>	Garrison Creek	<b>Next Inspection Date:</b>	2018/06/25
<b>Project File ID #:</b>	3600	<b>Br.</b>	09	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	19.8	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	19.4		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	662074	<b>UTM Northing:</b>	5453051		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2015		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Fair	At both ends of the bridge there are 8x8 timber and plank stacked on ballast top to bring it to deck grade. Is this a new design or was there issues attaching the ballast wall. There is no tag on this structure
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	Steep and no toe protection @ #2
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Slight jog in approach form low chain (#2), grade down onto the bridge from both approaches is 5- 6%
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 113 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	TKA017	Site #:	K1625	Road Name:	FOURTH BROTHER	Inspection Date:	2015/06/25
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Not bevel cut on ends
Deck to Girder Bolts	Good	
Hardware	Fair	Bolts not countersunk
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	Not many/plank
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.0
	Estimated High Water Level Clearance:	4.1		

HAZARDS	High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	Monitor toes of both abutments								

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description
	1	Monitor toe erosion of rip rap

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 114 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	TKA017	Site #:	K1625	Road Name:	FOURTH BROTHER	Inspection Date:	2015/06/25
GENERAL	Inspector's Comment:	At both ends of the bridge there are 8x8 timber and plank stacked on ballast top to bring it to deck grade. Is this a new design or was there issues attaching the ballast wall. There is no tag on this structure					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2038	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:
							L75
GENERAL	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 4/19/2016 10:45:16AM			

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 115 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO 1619	Site #:	K1642	Road Name:	THREE BROTHERS	Inspection Date:	2016/07/06
KM:	0.20	User km:	0.20	Crossing Name:	Copper Creek	Next Inspection Date:	2018/07/06
Project File ID #:	3600	Br.	13	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated - Panels			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Other		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	15.2		
UTM Zone:	10	UTM Easting:	661895	UTM Northing:	5455249		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2015		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	Mostly buried
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
General Abutment Condition	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	The rip rap is not keyed in well at the toe of both abutments
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	The #2 approach is on a steep hill and slight corner.
Bridge Ahead Signs Missing	0	The #2 is falling over
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Fair	Ungraded and rough

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 116 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO 1619	Site #:	K1642	Road Name:	THREE BROTHERS	Inspection Date:	2016/07/06
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.3
	Estimated High Water Level Clearance:	1.4		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	Some scour potential at the rip rap toes								

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 117 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO 1619	Site #:	K1642	Road Name:	THREE BROTHERS	Inspection Date:	2016/07/06
GENERAL	Inspector's Comment:						
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2048	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:
							L75
GENERAL	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/6/2017 3:27:10PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 118 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1347	<b>Site #:</b>	K1347	<b>Road Name:</b>	HORNET-MYSTERY BR 14	<b>Inspection Date:</b>	2016/07/10
<b>KM:</b>	0.09	<b>User km:</b>	18.00	<b>Crossing Name:</b>	Allison Cr	<b>Next Inspection Date:</b>	2019/07/10
<b>Project File ID #:</b>	3601	<b>Br.</b>	14	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Treated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	9.1	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	9		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	676179	<b>UTM Northing:</b>	5510158		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2005		
<b>Access:</b>	The Mystery Lake is accessed from the Dillard FSR via Hornet to 18K turnoff then 0.8 km to new road start, thence 150m northerly.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Fair	Not connected to superstructure
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Fair	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Poor	Not vertically aligned well, the #2 is very low but #1 is less so.
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	Repaired at inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Poor	Pot holed and low at both ends of the bridge

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 119 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1347	<b>Site #:</b>	K1347	<b>Road Name:</b>	HORNET-MYSTERY BR 14	<b>Inspection Date:</b>	2016/07/10			
<b>Curb Rail/Blocks/Posts</b>	Fair	Punky								
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Fair	Worn, dirty								
<b>Sub Deck</b>	Good									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		2.2			
	<b>Estimated High Water Level Clearance:</b>		1.8							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$1,000.00	Bring both approach up to the level of the deck.					
	2	Required	Medium	\$150.00	Brush out around bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Deck and subdeck are untreated. Bridge ahead signs have been installed								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 120 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1347	Site #:	K1347	Road Name:	HORNET-MYSTERY BR 14	Inspection Date:	2016/07/10	
GENERAL	PEng's Comment:	The repair of the approaches for this structure through addition of fill should be completed and was first identified in 2013. This should be completed prior to industrial hauling to ensure no damage to the structure or decking occurs.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 2:03:39PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 121 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1396	Site #:	K1396	Road Name:	HORNET BR 16	Inspection Date:	2014/06/27
KM:	0.00	User km:	16.70	Crossing Name:	Allison Cr	Next Inspection Date:	2017/06/27
Project File ID #:	3601	Br.	16	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Treated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	12.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	675508	UTM Northing:	5511087		
Inspector Name:	Ben Pellett			Year Superstructure Installed:	2004		
Access:							

### ABUTMENTS

Bearings	Good	difficult to see LT: unrated
Bracing	Not Applicable	
Ballast Wall	Fair	
Corrosion Protection	Not Applicable	
Caps or Sills	Unrated	difficult to assess due to low clearance
Fill	Good	
Hardware	Unrated	not visible
Log/Timber Cribbs	Unrated	n/a
Piles or Posts	Not Applicable	
Riprap	Not Applicable	no riprap
Tie-backs	Not Applicable	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	None	
Road Surface	Fair	needs ditches

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 122 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1396	Site #:	K1396	Road Name:	HORNET BR 16	Inspection Date:	2014/06/27
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	
Deck to Girder Bolts	Good	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Fair	
Running Planks	Poor	very worn, replacements needed. LT: no photo depicting wear.
Sub Deck	Good	
Ties	Fair	

### SUPERSTRUCTURE

#### Span 1

Bracing	Fair	LT: Rated fair in previous inspection.
Diaphragms	Good	
Girders	Good	LT: Rated fair in previous inspection.
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	1.2
	Estimated High Water Level Clearance:	1.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$500.00	Clean inlets LT: and brush grown in vegetation close to structure.

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 123 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1396	Site #:	K1396	Road Name:	HORNET BR 16	Inspection Date:	2014/06/27	
GENERAL	Inspector's Comment:	LT (2014/12/12) No comments on the culverts installed below this bridge. Debris at inlet of culverts is a risk for culvert fill to be washed out. Ties condition and bearings also need to be assessed. No evidence of drilling timber components for rot depth. No photos showing deck wear as indicated in inspection. For long term use of this crossing, culverts should be removed.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2029	Replacement Date for light vehicle traffic (year):		2034	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/18/2014 8:33:57AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 124 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1161	Site #:	K1161	Road Name:	LALUWISSIN-N. LALUWI	Inspection Date:	2016/06/16
KM:	0.00	User km:	17.00	Crossing Name:	Laluwissin Cr trib	Next Inspection Date:	2019/06/16
Project File ID #:	4156	Br.	02	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	0			Outlet Cover (mm):	0		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	20.0	Opening Height (mm):	1,800	Opening Width (mm):	1,800		
UTM Zone:	10	UTM Easting:	599720	UTM Northing:	5596136		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2006		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	None required
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Good	
Embedment Materials	Good	Some loss of fines at the outlet, 2.5 m in
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Good	
Outlet	Good	

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 125 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1161	<b>Site #:</b>	K1161	<b>Road Name:</b>	LALUWISSIN-N. LALUWI	<b>Inspection Date:</b>	2016/06/16				
<b>Overall</b>	Good										
<b>Riprap</b>	Good										
<b>Roof</b>	Good										
<b>Side Walls</b>	Good										
<b>Trash Rack</b>	Not Applicable										
<b>Wiers/Backwater Structures</b>	Not Applicable										
<b>Wing Wall</b>	Good										
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		1.7				
	<b>Estimated High Water Level Clearance:</b>		0.6								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No	
	<b>Comment:</b>										
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>						
<b>MONITORS</b>	<b>#</b>	<b>Description</b>									
	1	Monitor embedded materials, appears to be functioning well									
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Ten years in and this embedded culvert is working well. Some loss of fines in the last 2.5 m. at the outlet									
<b>GENERAL</b>	<b>PEng's Comment:</b>										
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2041		<b>Replacement Date for light vehicle traffic (year):</b>			2046		
	<b>Current Inspection Load Rating:</b>		63		<b>Design Load GVW (tonnes):</b>		63		<b>Design Vehicle Config.:</b>		CL625
	<b>Professional Inspection Required?</b>		No		<b>Report Status:</b>		Reviewed By Drew Alway on 12/6/2016 1:50:49PM				

Corporate Bridge Register (CBR)

### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 126 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K714	Site #:	K714	Road Name:	SPIUS CREEK	Inspection Date:	2016/06/27
KM:	14.48	User km:	14.30	Crossing Name:	S Fork Spius	Next Inspection Date:	2019/06/27
Project File ID #:	4332	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	12.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	635612	UTM Northing:	5533301		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1994		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	The #1 is chipped along its top edge
Fill	Fair	At #2 the fill does not extend up to the base of the sill
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Fair	Large and round some scour along the toe and at the up stream corner of #1
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K714	<b>Site #:</b>	K714	<b>Road Name:</b>	SPIUS CREEK	<b>Inspection Date:</b>	2016/06/27			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck Joints</b>	Fair	A few voids								
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good	The girder panels have many hair line cracks								
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.2	<b>Estimated Present Water Level Width:</b>		3.8					
	<b>Estimated High Water Level Clearance:</b>	2.2								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	Large and round some scour along the toe and at the up stream corner of #1								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$200.00	Brush out bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Large and round some scour along the toe and at the up stream corner of #1								
<b>GENERAL</b>	<b>Inspector's Comment:</b>									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K714	Site #:	K714	Road Name:	SPIUS CREEK	Inspection Date:	2016/06/27	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 2:30:43PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K486	<b>Site #:</b>	K486	<b>Road Name:</b>	SPIUS CREEK	<b>Inspection Date:</b>	2016/06/27
<b>KM:</b>	14.69	<b>User km:</b>	14.50	<b>Crossing Name:</b>	Spius Cr	<b>Next Inspection Date:</b>	2019/06/27
<b>Project File ID #:</b>	4332	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Precast		
<b>Total Length (metres):</b>	22.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	21.2		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	635434	<b>UTM Northing:</b>	5533278		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1990		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Junction at both approaches
Bridge Ahead Signs Missing	0	Junction at both approach, bridge ahead signs may not be required
Brushing Required	Yes	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	None	
Posted Load Rating	none	f

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K486	<b>Site #:</b>	K486	<b>Road Name:</b>	SPIUS CREEK				<b>Inspection Date:</b>	2016/06/27
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair		Some curb sections have extensive rot and may require replacement before next inspection							
<b>Deck Joints</b>	Fair		Small void at the bulkhead to deck at #1							
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>			0.8		<b>Estimated Present Water Level Width:</b>			10.0	
	<b>Estimated High Water Level Clearance:</b>			2.1						
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$300.00	Clean sills					
	2	Required	Medium	\$200.00	Brush out bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Some curb sections have extensive rot and may require replacement before next inspection								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Some curb sections have extensive rot and may require replacement before next inspection								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K486	Site #:	K486	Road Name:	SPIUS CREEK	Inspection Date:	2016/06/27	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2045	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 4:16:32PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K427	Site #:	K427	Road Name:	SPIUS CREEK	Inspection Date:	2016/06/27
KM:	10.35	User km:	21.00	Crossing Name:	Spius Cr	Next Inspection Date:	2019/06/27
Project File ID #:	4332	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Not Available		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	23.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	637607	UTM Northing:	5536708		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1986		
Access:	Bridge is located at 21 km. by markers.						

### ABUTMENTS

Bearings	Poor	Couverted in gravel
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Covered in gravel
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	None at the # 1 its is bedrock
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K427	Site #:	K427	Road Name:	SPIUS CREEK	Inspection Date:	2016/06/27
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Unrated	Grouted
Overall Deck Condition	Good	
Running Planks	Not Applicable	
Sub Deck	Unrated	None, concrete deck
Ties	Unrated	none

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.2	Estimated Present Water Level Width:	13.0
	Estimated High Water Level Clearance:	2.4		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$500.00	Clean sills

MONITORS	#	Description

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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:		K427		Site #:	K427		Road Name:	SPIUS CREEK		Inspection Date:	2016/06/27		
GENERAL	Inspector's Comment:	The inspection comments appear to be for another structure, unless the comment refers to the #2 abutment. Also this structure has concrete deck not ties. The sill should be cleaned											
	PEng's Comment:	Updated the concrete deck in CBR. Follow up professional inspection required to determine non-composite or composite decking and evaluation after that point.											
GENERAL	Replacement Date for full log haul traffic (year):				2036		Replacement Date for light vehicle traffic (year):				2041		
	Current Inspection Load Rating:			68		Design Load GVW (tonnes):			68		Design Vehicle Config.:		L75
	Professional Inspection Required?			Yes	Report Status:		Reviewed By Drew Alway on 2/6/2017 4:14:09PM						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1059	Site #:	K1059	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25
KM:	0.01	User km:	22.70	Crossing Name:	Unnamed	Next Inspection Date:	2016/06/25
Project File ID #:	4332	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	10.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	627854	UTM Northing:	5532769		
Inspector Name:	Ali Sadeghi			Year Superstructure Installed:	1965		
Access:	33.5 km by the road markers.						

### ABUTMENTS

Bearings	Poor	no sill
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	three rows.
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	steel - concrete contact
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	no rip rap in front - rip rap recently added to the up/s right corner
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Steep vertical curve woods direction
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	around delineators
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	n/a	not posted
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1059	Site #:	K1059	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25
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### DECK

#### Span 1

Concrete Deck	Not Applicable	timber deck update CBR
Curb Rail/Blocks/Posts	Good	timber
Deck to Girder Bolts	Poor	missing deck to girder bolts in some spots, add more
Deck Joints	Not Applicable	timber deck update CBR
Grout Pockets	Not Applicable	timber deck update CBR
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Good	
Running Surface	Good	Treated timber
Running Planks	Fair	
Sub Deck	Fair	
Ties	Fair	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Fair	
Girders	Fair	
Hardware	Fair	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	8.0
Estimated High Water Level Clearance:	2.5		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
2	Suggested	Medium	\$2,000.00	Upgrade girder to deck connection by welding more plates to the girder and bolting to ties
4	Suggested	Low	\$500.00	brush road

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1059	Site #:	K1059	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25
MONITORS	#	Description					
GENERAL	Inspector's Comment:	timber deck, update CBR only 4 cross ties on each side bolted to girder, upgrade girder connection Deck to girder connection upgrade may be accomplished through additional tie clips if required. If redecked with timber modules, should have 6 clips or bolt connections per 10 ft section as per ministry standard drawings. DA.					
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments					
GENERAL	Replacement Date for full log haul traffic (year):		2022		Replacement Date for light vehicle traffic (year):		2025
	Current Inspection Load Rating:		63		Design Load GVW (tonnes):		63
	Design Vehicle Config.:						
	Professional Inspection Required?	No	Report Status:	Accepted By Drew Alway on 1/24/2014 12:00:00AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K476	Site #:	K476	Road Name:	SPIUS CREEK	Inspection Date:	2015/06/24
KM:	12.60	User km:	23.10	Crossing Name:	Silver Cr	Next Inspection Date:	2018/06/24
Project File ID #:	4332	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	16.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	636523	UTM Northing:	5534838		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1990		
Access:							

### ABUTMENTS

Bearings	Fair	The downstream at #2 abutment downstream is dirty
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Fair	Some damage and exposed rebar at the #2 abutment top edge
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	Round and not well placed, erosion at the toe of #2 abutment.
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	g

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K476	Site #:	K476	Road Name:	SPIUS CREEK	Inspection Date:	2015/06/24			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good	Newly installed								
Deck Joints	Fair	The joint at the ballast wall to first panel is chipped and open								
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		1.7							
HAZARDS	High Water:	No	Scour:	Yes	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Debris dam upstream of bridge has diverted the histoical flow and caused erosion of the #2 abutment								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$1,000.00	Remove debris dam upstream of bridge has diverted the histoical flow and caused erosion of the #2 abutment					
	2	Required	Low	\$200.00	Fill gap between ballast and deck panel					
	3	Required	Low	\$100.00	Clean bearing ar #2 abutment					
MONITORS	#	Description								
	1	Debris dam upstream of bridge has diverted the histoical flow and caused erosion of the #2 abutment								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K476	Site #:	K476	Road Name:	SPIUS CREEK	Inspection Date:	2015/06/24
GENERAL	Inspector's Comment:	The curb bolts are round machine heads, no washers.					
GENERAL	PEng's Comment:	The lack of timber washers should be fixed at time of next curb replacement.					
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2045
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 2:50:06PM	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 141 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K487	Site #:	K487	Road Name:	SPIUS CREEK	Inspection Date:	2014/07/16
KM:	13.68	User km:	24.30	Crossing Name:	Spius Cr	Next Inspection Date:	2017/07/16
Project File ID #:	4332	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	24.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	636060	UTM Northing:	5533900		
Inspector Name:	Jean-Guy Bernat			Year Superstructure Installed:	1991		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	not visible
Ballast Wall	Good	welded - 50mm gap on right upstream due to deck panel placement, some soil falling between righth Ballast wall and end deck panel
Corrosion Protection	Poor	not painted
Caps or Sills	Unrated	none
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	some rounded but oversize
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	slightly steep vertical
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 142 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K487	<b>Site #:</b>	K487	<b>Road Name:</b>	SPIUS CREEK	<b>Inspection Date:</b>	2014/07/16			
<b>Concrete Deck</b>	Good	minor chips								
<b>Curb Rail/Blocks/Posts</b>	Poor	some rot, do not meet MoF standard, to be replaced with std MoF block and curb designs								
<b>Deck Joints</b>	Good	gap between panels not consistent, LT: third panel from RB on u/s not filled								
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Fair	few damaged bolts, still functional								
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair	due to curbs. LT: not deck photos.								
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable	welded assembly								
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.6		<b>Estimated Present Water Level Width:</b>		12.0			
	<b>Estimated High Water Level Clearance:</b>		2.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$6,000.00	LT: Replace curbs and blocks.					
	2	Required	Medium	\$2,000.00	LT: Custom fit and glue timber at gap location between ballast wall and deck to retain fill properly. Form seat may be required to retain filler.					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Curb and block replacement not completed. Pull back of old birdge fill not completed. Did not repeat these items in repair list. GPS Coordinates: zone 10 0636060 E 5533900 Google Earth Place marker not over bridge, update with new coordinates								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 143 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K487	Site #:	K487	Road Name:	SPIUS CREEK	Inspection Date:	2014/07/16	
		LT (2014/12/17): Repair added: Replace curbs and blocks, seal gap location between RB ballast wall and deck to retain fill properly, previous attempts have failed. No deck photos showing non-standard curbs. Approach photos taken too far away.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2036	Replacement Date for light vehicle traffic (year):		2041	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 9:12:41AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 144 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1057	<b>Site #:</b>	K1057	<b>Road Name:</b>	SPIUS CREEK	<b>Inspection Date:</b>	2013/06/25
<b>KM:</b>	20.70	<b>User km:</b>	31.30	<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2015/06/25
<b>Project File ID #:</b>	4332	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	6.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	629638	<b>UTM Northing:</b>	5533004		
<b>Inspector Name:</b>	Ali Sadeghi			<b>Year Superstructure Installed:</b>	1986		
<b>Access:</b>	31.3 km. by road markers.						

### ABUTMENTS

<b>Bearings</b>	Poor	vertical fracture iobserved n timber crib.
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Poor	rotten
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Poor	fractured underneat load path.
<b>Fill</b>	Fair	
<b>Hardware</b>	Not Applicable	
<b>Log/Timber Crib</b>	Poor	Timber crib four high, vertical fracture underneath load path as far as bottom timber. Left abutment crib is bulding
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Poor	right bank exposed and scouring observed under timber crib.
<b>Tie-backs</b>	Not Applicable	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	Yes	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	5	Update CBR

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 145 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1057	Site #:	K1057	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25
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Road Surface	Poor	Bridge settling caused a bump at left and right approaches.
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	
Deck to Girder Bolts	Poor	Deck not bolted to girder.
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Fair	
Running Planks	Fair	
Sub Deck	Unrated	no present
Ties	Poor	Rot at ends and some have rot in the center of the tie.

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Diaphragms	Fair	
Girders	Fair	Paint chipping off
Hardware	Fair	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	3.0
	Estimated High Water Level Clearance:	1.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Suggested	High	\$60,000.00	Replace structure prior to any loading above a pickup truck

MONITORS	#	Description
	1	To continue to monitor structure for load rating

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 146 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1057	Site #:	K1057	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25
GENERAL	Inspector's Comment:	Bridge should be inspected prior to passage of of any industrial traffic.  Users should plan for removal of this structure within the next two years. As the deck will deteriorate beyond use by 5 tonnes loads within this period. DA.					
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments					
GENERAL	Replacement Date for full log haul traffic (year):			2008	Replacement Date for light vehicle traffic (year):		2014
	Current Inspection Load Rating:		5	Design Load GVW (tonnes):		63	Design Vehicle Config.:
	Professional Inspection Required?		Yes	Report Status:		Accepted By Drew Alway on 1/24/2014 12:00:00AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 147 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1058	<b>Site #:</b>	K1058	<b>Road Name:</b>	SPIUS CREEK	<b>Inspection Date:</b>	2013/06/25
<b>KM:</b>	22.57	<b>User km:</b>	33.20	<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2016/06/25
<b>Project File ID #:</b>	4332	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	9.9	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	627951	<b>UTM Northing:</b>	5532956		
<b>Inspector Name:</b>	Ali Sadeghi			<b>Year Superstructure Installed:</b>	1965		
<b>Access:</b>	33.2 km by the road markers.						

### ABUTMENTS

Bearings	Poor	Not present, right abutment lock block cracked where girder is rested is directly rested on concrete.
Bracing	Not Applicable	
Ballast Wall	Fair	excessive rot
Concrete Lock Blocks	Fair	
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	No cap or bearing pad, right abutment lock block cracked where girder is rested.
Fill	Poor	d/s left abutment scour causing bank to fail into creek.
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Poor	no rip rap in the front and lack of rip rap d/s left corner has led to major scour
Wing Wall	Poor	rotten logs

### APPROACHES

Alignment	Fair	on sharp h-curve.
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	None	
Posted Load Rating	n/a	design load limit indicate as 0 on file - update CBR
Road Surface	Fair	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1058	Site #:	K1058	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25
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### DECK

#### Span 1

Concrete Deck	Fair	u/s right approach panel fractured underneath and rebar exposed
Curb Rail/Blocks/Posts	Good	
Deck Joints	Fair	sealed
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Fair	Non-weathering steel paint peeling off
Hardware	Good	
Under Trussing	Not Applicable	

### CHANNEL

Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	6.0
Estimated High Water Level Clearance:	2.2		

### HAZARDS

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

### REPAIRS

#	Status	Priority	Estimate	Description
2	Suggested	High	\$1,000.00	clean debris off girders a bearing
3	Suggested	High	\$2,000.00	rip rap d/s left abutment to avoid scour (1 load of D50 750mm rip rap)
4	Suggested	Medium	\$1,000.00	repair the damage to panel to ensure rebar not exposed.  Utilize sikatop 123 product and ensure 50 mm of grout coverage. With hand tools, remove as much rust as feasible. Prior to grout repair. DA.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 149 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1058	Site #:	K1058	Road Name:	SPIUS CREEK	Inspection Date:	2013/06/25	
MONITORS	#	Description						
	1	Monitor girders, paint peeling off.						
	2	Monitor scour						
GENERAL	Inspector's Comment:	D/S left approach is scouring. Rip rap should be added. Upon next inspection users should be prepared to install a new timber sill to better distribute the load and replacement of ballast wall timbers will be required at that point. Structure is 48 years old at this point and will continue to provide service for 5 to 10 more years if properly maintained. DA.						
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments						
GENERAL	Replacement Date for full log haul traffic (year):		2018		Replacement Date for light vehicle traffic (year):		2020	
	Current Inspection Load Rating:		63		Design Load GVW (tonnes):		54	
					Design Vehicle Config.:		L60	
	Professional Inspection Required?		No		Report Status:			Accepted By Drew Alway on 1/24/2014 12:00:00AM

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 150 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K626	<b>Site #:</b>	K626	<b>Road Name:</b>	SPIUS SOUTH	<b>Inspection Date:</b>	2016/06/27
<b>KM:</b>	3.66	<b>User km:</b>	19.50	<b>Crossing Name:</b>	S Fork Spius	<b>Next Inspection Date:</b>	2019/06/27
<b>Project File ID #:</b>	4332	<b>Br.</b>	02	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	17.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	635062	<b>UTM Northing:</b>	5530435		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2001		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Fair	Does not extend up to the base of the bulhead
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Tight corner
Bridge Ahead Signs Missing	0	Grown in
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K626	Site #:	K626	Road Name:	SPIUS SOUTH	Inspection Date:	2016/06/27			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Fair	Rot values are elevated in some curbs and risers, may need upgrading prior to the next inspection								
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good	Some rocks and gravel on flanges								
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		7.8			
	Estimated High Water Level Clearance:		2.3							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Low	\$150.00	Clean girder flanges					
	2	Required	Medium	\$250.00	Brush out bridge ahead signs					
MONITORS	#	Description								
	1	Rot values are elevated in some curbs and risers, may need upgrading prior to the next inspection								
GENERAL	Inspector's Comment:	Rot values are elevated in some curbs and risers, may need upgrading prior to the next inspection								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K626	Site #:	K626	Road Name:	SPIUS SOUTH	Inspection Date:	2016/06/27	
GENERAL	PEng's Comment:	This bridge would be a good candidate for treated timber bracket blocks and treated timber risers in the future. Once the curb replacement is required.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/18/2017 1:38:37PM		

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K434	Site #:	K434	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15
KM:	0.09	User km:	13.60	Crossing Name:	Prospect Cr	Next Inspection Date:	2018/06/15
Project File ID #:	4669	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	21.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	632433	UTM Northing:	5545053		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:	Bridge is located at 24.1 km by markers.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Poor	none
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 154 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K434	Site #:	K434	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		10.0			
	Estimated High Water Level Clearance:		1.5							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 155 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K434	Site #:	K434	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 2:05:31PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 156 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K870	Site #:	K870	Road Name:	PROSPECT MINER A	Inspection Date:	2016/06/28
KM:	0.28	User km:	13.70	Crossing Name:	Miner Cr	Next Inspection Date:	2019/06/28
Project File ID #:	4669	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	13.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	632431	UTM Northing:	5544828		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Fair	Pipes are painted
Caps or Sills	Good	
Fill	Fair	Does not extend up to the base of the bulkhead
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	Steep and round
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 157 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K870	Site #:	K870	Road Name:	PROSPECT MINER A	Inspection Date:	2016/06/28			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.6		Estimated Present Water Level Width:		10.0			
	Estimated High Water Level Clearance:		2.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Continue to monitor rip rap stability								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 158 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K870	Site #:	K870	Road Name:	PROSPECT MINER A	Inspection Date:	2016/06/28	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2057	Replacement Date for light vehicle traffic (year):		2062	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/2/2017 1:36:20PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 159 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1437	Site #:	K1437	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15
KM:	10.28	User km:	23.60	Crossing Name:	Silver Cr	Next Inspection Date:	2018/06/15
Project File ID #:	4669	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	11.6	# Spans:	1	Span Length(s) (metres):	11		
UTM Zone:	10	UTM Easting:	631666	UTM Northing:	5538280		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2008		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 160 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1437	Site #:	K1437	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15			
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		2.9			
	Estimated High Water Level Clearance:		2.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 161 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1437	Site #:	K1437		Road Name:	PROSPECT MINER A		Inspection Date:	2015/06/15
GENERAL	Replacement Date for full log haul traffic (year):				2058	Replacement Date for light vehicle traffic (year):			2068
	Current Inspection Load Rating:		63		Design Load GVW (tonnes):		63	Design Vehicle Config.:	BCL625
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/11/2016 1:14:12PM				

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 162 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1438	Site #:	K1438	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15
KM:	12.24	User km:	25.50	Crossing Name:	Silver Cr	Next Inspection Date:	2018/06/15
Project File ID #:	4669	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	11.6	# Spans:	1	Span Length(s) (metres):	11		
UTM Zone:	10	UTM Easting:	630743	UTM Northing:	5536844		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2008		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	Some erosion @ the upstream toe of the #1 abutment
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Fair	Settled at the end of bridge #1 approach

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 163 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1438	<b>Site #:</b>	K1438	<b>Road Name:</b>	PROSPECT MINER A	<b>Inspection Date:</b>	2015/06/15
<b>Curb Rail/Blocks/Posts</b>	Good						
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Not Applicable						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Not Applicable						
<b>Hardware</b>	Not Applicable						
<b>Welded/grouted shear connect</b>	Good						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		2.1
	<b>Estimated High Water Level Clearance:</b>		1.9				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>	Some erosion @ the upstream toe of the #1 abutment					
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Complete	Low	\$100.00	Brush out bridge ahead signs		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
	1	Some erosion @ the upstream toe of the #1 abutment					
<b>GENERAL</b>	<b>Inspector's Comment:</b>						
<b>GENERAL</b>	<b>PEng's Comment:</b>						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 164 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1438	Site #:	K1438	Road Name:	PROSPECT MINER A	Inspection Date:	2015/06/15	
GENERAL	Replacement Date for full log haul traffic (year):			2058	Replacement Date for light vehicle traffic (year):			2068
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	BCL625
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/11/2016 1:17:32PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 165 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K682	Site #:	K682	Road Name:	PROSPECT BR 03	Inspection Date:	2016/06/28
KM:	29.19	User km:	0.50	Crossing Name:	Spilus Cr	Next Inspection Date:	2019/06/28
Project File ID #:	4669	Br.	03	Forest District:	Cascades 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):	16.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	640826	UTM Northing:	5555592		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1993		
Access:							

### ABUTMENTS

Bearings	Fair	Some rubber pad compression, see photo
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Cast in Place	Fair	Not well bonded to the bedrock
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	Some slippage, steep and unstable at the #2 upstream corner, see photo
Wing Wall	Fair	Lock blocks

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	Installed at inspection
Brushing Required	No	Installed at inspection
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 166 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K682	Site #:	K682	Road Name:	PROSPECT BR 03	Inspection Date:	2016/06/28
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### DECK

#### Span 1

Concrete Deck	Fair	Some wear
Curb Rail/Blocks/Posts	Fair	Some of the timber components have high rot levels, expect 3 year life
Deck Joints	Fair	The first joint at the #1 end is partially open. Viewed from the bottom some of the joints are cracked around the joint, see photo
Grout Pockets	Not Applicable	
Hardware	Fair	Some impact damage, still functional
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	Plan to recurb within 3 years
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	Rusty
Diaphragms	Good	
Girders	Good	Rusty
Hardware	Good	
Under Trussing	Not Applicable	

### CHANNEL

Estimated Present Water Level Depth:	1.2	Estimated Present Water Level Width:	14.3
Estimated High Water Level Clearance:	2.2		

### HAZARDS

High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
Comment:	Some scouring of the rip rap on the #2 upstream corner.								

### REPAIRS

#	Status	Priority	Estimate	Description
4	Required	Medium	\$600.00	Add damn sacks under the downstream right bank log wing wall. To protect against scour. DA.

### MONITORS

#	Description
1	Monitor the #2 upstream rip rap
2	Monitor curb and riser rot.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 167 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K682	Site #:	K682	Road Name:	PROSPECT BR 03	Inspection Date:	2016/06/28	
GENERAL	Inspector's Comment:	The water was low enough to access the abutments, the concrete to rock bond does not appear to be fully in contact. connection to the bedrock is not observable.						
GENERAL	PEng's Comment:	review repairs listed as this is a high use public structure and high value fish habitat.						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2043	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 2:21:16PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 168 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K439	<b>Site #:</b>	K439	<b>Road Name:</b>	MANNING CREEK	<b>Inspection Date:</b>	2016/06/26
<b>KM:</b>	0.03	<b>User km:</b>	0.10	<b>Crossing Name:</b>	Nicola R	<b>Next Inspection Date:</b>	2019/06/26
<b>Project File ID #:</b>	4670	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <small>(looking downstream)</small>	Pile -Permanent Materials		
<b>Total Length (metres):</b>	51.5	<b># Spans:</b>	2	<b>Span Length(s) (metres):</b>	34.4, 17.1		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	634290	<b>UTM Northing:</b>	5568644		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2000		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	The #2 approach is tight and also includes navigating through a gated cattle guard.
Bridge Ahead Signs Missing	1	The #2 sign is missing
Brushing Required	No	
Delineator Missing Left <small>(approaching structure)</small>	0	
Delineator Missing Right <small>(approaching structure)</small>	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Fair	Potholed at the #2

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K439	Site #:	K439	Road Name:	MANNING CREEK	Inspection Date:	2016/06/26
Concrete Deck	Good						
Curb Rail/Blocks/Posts	Fair	Some sections have extensive rot and life is limited 1-2 yr.					
Deck Joints	Good						
Grout Pockets	Good						
Hardware	Good						
Hand Rails/Walkouts	Not Applicable						
Overall Deck Condition	Good						
Running Surface	Good						
Span 2							
Concrete Deck	Good						
Curb Rail/Blocks/Posts	Fair	Sections with extensive rot.					
Deck Joints	Good						
Grout Pockets	Good						
Hardware	Good						
Hand Rails/Walkouts	Not Applicable						
Overall Deck Condition	Good						
Running Surface	Good						
PIERS							
Pier 1							
Bearings	Good						
Bracing or Sheathing	Good						
Caps	Good	Ground inspection only					
Cribs	Not Applicable						
Dolphins	Not Applicable						
Hardware	Good						
Overall	Good						
Piles or Posts	Good						
Riprap	Not Applicable						
Wall	Good						
SUPERSTRUCTURE							
Span 1							
Bracing	Good						

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 170 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K439	<b>Site #:</b>	K439	<b>Road Name:</b>	MANNING CREEK	<b>Inspection Date:</b>	2016/06/26			
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>Span 2</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.8	<b>Estimated Present Water Level Width:</b>	26.0						
	<b>Estimated High Water Level Clearance:</b>	3.0								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	Yes	<b>Aggradation:</b>	No
	<b>Comment:</b>	The #1 span is fully plugged with woody debris, see photo. This has concentrated the flow to the #2 span entirely. Consideration might be given to removal of this material								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$2,500.00	The #1 span is fully plugged with woody debris, see photo. This has concentrated the flow to the #2 span entirely. Consideration might be given to removal of this material					
	2	Required	Medium	\$200.00	Install bridge ahead sign at the #2 approach					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor rot in curbs								
	2	Monitor after high-water events. Both woody debris build up upstream of this pier and at times this pier has had significant ice jams above this pier. But the ice has always flushed itself								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Some of the curb sections have extensive rot, expect less than two years life. The #1 jump span is full blocked with woody debris, consider removal or perhaps cutting up the jam with the expectation of it flushing at the nex high water.								
<b>GENERAL</b>	<b>PEng's Comment:</b>	This structure is scheduled for a peeper inspection 2017. Users should monitor both woody debris jams and ice jams above this pier. If either are significant they may require professional inspection or clearing.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 171 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K439	Site #:	K439	Road Name:	MANNING CREEK	Inspection Date:	2016/06/26	
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):			2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 1/11/2017 11:38:13AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 172 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K667	Site #:	K667	Road Name:	MANNING CREEK	Inspection Date:	2015/06/23
KM:	2.03	User km:	2.00	Crossing Name:	Manning Cr	Next Inspection Date:	2018/06/23
Project File ID #:	4670	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	1,600			Outlet Cover (mm):	2,000		
Footing Type:				Gradient (%):	7.0		
Culvert Length (metres):	21.0	Opening Height (mm):	1,000	Opening Width (mm):	1,000		
UTM Zone:	10	UTM Easting:	633235	UTM Northing:	5570030		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1990		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Fair	Very overgrown, lots of small woody debris migrating down the creek
Outlet	Fair	Drop from invert to erosion pool 600mm.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 173 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K667	Site #:	K667	Road Name:	MANNING CREEK	Inspection Date:	2015/06/23			
Overall	Good									
Riprap	Good									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:		0.1		Estimated Present Water Level Width:		2.1			
	Estimated High Water Level Clearance:		1.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Lots of small woody debris migrating down the creek								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$300.00	Brush out inlet. Very overgrown, lots of small woody debris migrating down the creek					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):			2045		
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		64	Design Vehicle Config.:		CL625	
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 11:54:37AM				

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 174 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1094	Site #:	K1094	Road Name:	NICOAMEN RIVER	Inspection Date:	2015/06/23
KM:	16.20	User km:	16.20	Crossing Name:	Unnamed	Next Inspection Date:	2017/06/23
Project File ID #:	4767	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	8.7	# Spans:	1	Span Length(s) (metres):	7.7		
UTM Zone:	10	UTM Easting:	613747	UTM Northing:	5562677		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2002		
Access:							

### ABUTMENTS

Bearings	Fair	200 mm of rot
Bracing	Fair	Cable
Ballast Wall	Poor	None, allowing fill onto stringer ends
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Top rot 200 mm +/-
Fill	Good	
Hardware	Fair	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	1	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 175 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1094	<b>Site #:</b>	K1094	<b>Road Name:</b>	NICOAMEN RIVER	<b>Inspection Date:</b>	2015/06/23			
<b>Curb Rail/Blocks/Posts</b>	Poor	Extensive rot and insect infestation								
<b>Deck to Girder Bolts</b>	Not Applicable									
<b>Hardware</b>	Fair	cable								
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Fair	Elevated rot values								
<b>Sub Deck</b>	Unrated	none								
<b>Ties</b>	Fair									
<b>STRINGERS</b>										
<b>Span 1</b>										
<b>Log Curbs</b>	Poor	Extensive rot and insect infestation								
<b>Needle Beam(s) and Shims</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>				<b>Estimated Present Water Level Width:</b>					
	<b>Estimated High Water Level Clearance:</b>									
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Complete	Low	\$500.00	Install bridge ahead sign					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor closely as structure age is approaching end of industrial life for Fd stringers								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Consider load rating and or replacement. The structure has no bulkheads and fill covers the stringer ends. This has caused all stringers to have some degree of core rot from the ends. The ones noted have extensive rot with stringer #7 rotted through. The main body of the stringers have top rot up to 250 mm. See photo of stringer rot.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 176 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1094	Site #:	K1094	Road Name:	NICOAMEN RIVER	Inspection Date:	2015/06/23
GENERAL	PEng's Comment:	to be professionally inspected in 2016, possible load restriction to follow.					
GENERAL	Replacement Date for full log haul traffic (year):			2018	Replacement Date for light vehicle traffic (year):		2020
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		Yes	Report Status:		Reviewed By Drew Alway on 2/11/2016 12:06:18PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 177 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K882	Site #:	K882	Road Name:	4768	Inspection Date:	2016/06/16
KM:	1.17	User km:	0.10	Crossing Name:	Kwoiek #1	Next Inspection Date:	2019/06/16
Project File ID #:	4768	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	24.6	# Spans:	1	Span Length(s) (metres):	23.4		
UTM Zone:	10	UTM Easting:	601724	UTM Northing:	5551181		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	Some compression of the rubber pad at the #1 downstream bearing
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Fair	
Caps or Sills	Good	
Fill	Fair	Some raveling from in front of the ballast wall at the #2 abutment
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	9700	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 178 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K882	Site #:	K882	Road Name:	4768	Inspection Date:	2016/06/16			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		2.0		Estimated Present Water Level Width:		8.8			
	Estimated High Water Level Clearance:		4.6							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Monitor rubber bearing pads								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 179 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K882	Site #:	K882	Road Name:	4768	Inspection Date:	2016/06/16	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.:	L100
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 11:22:55AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 180 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K544	Site #:	K544	Road Name:	4768	Inspection Date:	2015/06/21
KM:	2.90	User km:	2.00	Crossing Name:	Kwoiek #3	Next Inspection Date:	2017/06/21
Project File ID #:	4768	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	19.3	# Spans:	1	Span Length(s) (metres):	18.3		
UTM Zone:	10	UTM Easting:	600348	UTM Northing:	5552369		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1989		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	68	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 181 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K544	Site #:	K544	Road Name:	4768	Inspection Date:	2015/06/21
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	10.2
	Estimated High Water Level Clearance:	1.6		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	2	Required	Low	\$500.00	Install 2 bridge ahead signs
	3	Required	Medium	\$500.00	The #2 bearing is supported on the upstream but not at the girder end on the downstream. A suggestion would be to shim the bearing on the downstream end

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 182 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K544	Site #:	K544	Road Name:	4768	Inspection Date:	2015/06/21	
GENERAL	Inspector's Comment:	The #2 sill is two timbers and while not centered it is at both stiffners, see photo. The #2 bearing is supported on the upstream but not at the girder end on the downstream. A suggestion would be to shim the bearing on the downstream end. see photo No tag on the bridge						
GENERAL	PEng's Comment:	I'm glad to see the proper signage posted also						
GENERAL	Replacement Date for full log haul traffic (year):			2029	Replacement Date for light vehicle traffic (year):		2035	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 9:46:55AM		

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 183 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K890A	<b>Site #:</b>	K890	<b>Road Name:</b>	4768	<b>Inspection Date:</b>	2016/06/16
<b>KM:</b>	3.69	<b>User km:</b>	3.80	<b>Crossing Name:</b>	Kwoeik #4	<b>Next Inspection Date:</b>	2018/06/16
<b>Project File ID #:</b>	4768	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Sill -Temporary Materials		
<b>Total Length (metres):</b>	26.8	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	26.5		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	599512	<b>UTM Northing:</b>	5552623		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2011		
<b>Access:</b>							

### ABUTMENTS

Bearings	Fair	
Bracing	Not Applicable	
Ballast Wall	Fair	Logs not connected to the super structure
Corrosion Protection	Good	
Caps or Sills	Fair	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Hill at the #1 limited visibility and a jog in the road at both ends, some minimal impact scuffing at the #1 downstream curb
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	Installed at inspection
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Good	
Posted Load Rating	68	
Road Surface	Good	

### DECK

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 184 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K890A	Site #:	K890	Road Name:	4768	Inspection Date:	2016/06/16
--------------	-------	---------	------	------------	------	------------------	------------

### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	Some exposed heads
Overall Deck Condition	Good	
Running Planks	Fair	Somw wear along traffic track
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	Dirty flanges
Hardware	Not Applicable	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	1.2	Estimated Present Water Level Width:	11.0
Estimated High Water Level Clearance:	1.4		

#### HAZARDS

High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
Comment:	Minimal at toe								

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$400.00	Install bridge ahead signs
2	Required	Low	\$400.00	Clean flanges and bearings

#### MONITORS

#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 185 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K890A	Site #:	K890	Road Name:	4768	Inspection Date:	2016/06/16	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2027		Replacement Date for light vehicle traffic (year):		2032	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 7/11/2016 1:02:30PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 186 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K546A	Site #:	K546	Road Name:	4768	Inspection Date:	2016/06/16
KM:	4.53	User km:	4.70	Crossing Name:	Kwoiek #5	Next Inspection Date:	2018/06/16
Project File ID #:	4768	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	26.8	# Spans:	1	Span Length(s) (metres):	26.5		
UTM Zone:	10	UTM Easting:	598878	UTM Northing:	5552352		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2011		
Access:							

### ABUTMENTS

Bearings	Fair	Only 8x10 treated timber, some crushing at the #2 downstream bearing
Bracing	Not Applicable	
Ballast Wall	Fair	No connection to the girders, wall comprises of stacked logs
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Only 8x10 treated timber, some crushing at the #2 downstream bearing
Fill	Good	
Hardware	Not Applicable	
Log/Timber Cribbs	Fair	Old log cribbs are for fill retension and erosion control only
Piles or Posts	Not Applicable	
Riprap	Good	
Tie-backs	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Limited visibility from the #2 approach and a jog in the road from #1
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	Good	
Posted Load Rating	68	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 187 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K546A	Site #:	K546	Road Name:	4768	Inspection Date:	2016/06/16
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	11.0
	Estimated High Water Level Clearance:	3.4		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Low	\$400.00	Install bridge ahead signs
	2	Required	Low	\$150.00	Clean bearings and flanges

MONITORS	#	Description
	1	Only 8x10 treated timber sills utilized by IPP proponent, some crushing at the #2 downstream bearing

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 188 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K546A	Site #:	K546	Road Name:	4768	Inspection Date:	2016/06/16	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2021		Replacement Date for light vehicle traffic (year):		2026	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 2:50:11PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 189 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K547	Site #:	K547	Road Name:	4768	Inspection Date:	2014/08/27
KM:	12.29	User km:	12.60	Crossing Name:	Kwoiek #6	Next Inspection Date:	2017/08/27
Project File ID #:	4768	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	16.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	592327	UTM Northing:	5554773		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1989		
Access:							

### ABUTMENTS

Bearings	Good	treated sills
Bracing	Not Applicable	
Ballast Wall	Good	creosote treated timbers
Concrete Lock Blocks	Good	
Corrosion Protection	Good	bolts coated and timbers creosited
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	scouring LT: appears stable
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	LT: obscuring signs
Delineator Missing Left (approaching structure)	0	LT: No visible delineators on photos.
Delineator Missing Right (approaching structure)	0	LT: No visible delineators on photos.
Fender Condition	Poor	not functional
Posted Load Rating	n/a	not posted
Road Surface	Good	minor potholes

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 190 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K547	Site #:	K547	Road Name:	4768	Inspection Date:	2014/08/27
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	fair to poor, have rot but still intact, replace when doing running deck
Deck to Girder Bolts	Good	see pic
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	except running plank nails
Overall Deck Condition	Poor	due to running planks
Running Planks	Poor	rotten
Sub Deck	Good	creosote
Ties	Good	creosote

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Unrated	none
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	4.0
	Estimated High Water Level Clearance:	1.0		

HAZARDS	High Water:	No	Scour:	Yes	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	monitor for scour. Debris has the potential to make that worse as well								

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$8,000.00	LT: Replace running deck and curbs.
	2	Complete	High	\$600.00	LT: Install bridge ahead signs and delineators.
	3	Required	Medium	\$1,000.00	consider upgrading approach barriers
	4	Complete	High	\$500.00	Brushing required.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 191 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K547	Site #:	K547	Road Name:	4768	Inspection Date:	2014/08/27	
MONITORS	#	Description						
GENERAL	Inspector's Comment:	running deck still not replaced. Scour still a potential but still not affecting load path  LT (2014/12/18): RB approach photo taken from too far away. No visible delineators on photos. Add bridge ahead signs and delineators. Detail extents of riprap scour for monitoring.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2034		Replacement Date for light vehicle traffic (year):		2039	
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68	
					Design Vehicle Config.:		L75	
	Professional Inspection Required?		No		Report Status:			Accepted By Lester Thiessen on 12/20/2014 10:47:26AM

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 192 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K963	Site #:	K963	Road Name:	LAWLESS CREEK	Inspection Date:	2015/06/14
KM:	8.15	User km:	16.70	Crossing Name:	10 Mile Cr	Next Inspection Date:	2018/06/14
Project File ID #:	5104	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	3,400			Outlet Cover (mm):	4,300		
Footing Type:				Gradient (%):	7.0		
Culvert Length (metres):	20.0	Opening Height (mm):	3,000	Opening Width (mm):	3,000		
UTM Zone:	10	UTM Easting:	653302	UTM Northing:	5496341		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:							

### APPROACHES

Alignment	Fair	Limited visibility of the opposing approach
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	The inlet is grown in not critical
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Good	
Outlet	Good	Drop from invert to erosion pool .7 m. The scour back from the outlet at the invert is .6 m. and appears to be stable

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 193 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K963	Site #:	K963	Road Name:	LAWLESS CREEK	Inspection Date:	2015/06/14			
Overall	Good									
Riprap	Good									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	1.4						
	Estimated High Water Level Clearance:	2.2								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Low	\$200.00	Brush is growing up around the inlet, non critical.					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	The scour back from the outlet at the invert is .6 m. and appears to be stable								
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):	2045	Replacement Date for light vehicle traffic (year):	2050						
	Current Inspection Load Rating:	68	Design Load GVW (tonnes):	68	Design Vehicle Config.:	L75				
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 2/15/2016 1:18:17PM						

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 194 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1138	Site #:	K1138	Road Name:	LAWLESS CREEK	Inspection Date:	2009/08/28
KM:	11.32	User km:	19.80	Crossing Name:	Unnamed	Next Inspection Date:	2012/08/28
Project File ID #:	5104	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Open Bottom			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	1,740			Outlet Cover (mm):	3,140		
Footing Type:	Precast Concrete Footing			Gradient (%):	9.0		
Culvert Length (metres):	14.0	Opening Height (mm):	3,000	Opening Width (mm):	3,000		
UTM Zone:	10	UTM Easting:	652103	UTM Northing:	5498761		
Inspector Name:	Travis Mackenzie			Year Superstructure Installed:	2000		
Access:							

### APPROACHES

Alignment	Fair	Sharp vertical curves.
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	2	
Delineator Missing Right (approaching structure)	2	
Fender Condition	None	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Good	
Coupled Connections	Good	
Coating	Good	
Embedment Materials	Poor	Scoured to geotextile fabric
Fill	Good	
Floor	Not Applicable	
Footing	Good	
Head Wall	Good	
Inlet	Good	
Outlet	Good	
Overall	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 195 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1138	<b>Site #:</b>	K1138	<b>Road Name:</b>	LAWLESS CREEK	<b>Inspection Date:</b>	2009/08/28			
<b>Riprap</b>	Good									
<b>Roof</b>	Good									
<b>Side Walls</b>	Fair									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.0			<b>Estimated Present Water Level Width:</b>	0.0				
	<b>Estimated High Water Level Clearance:</b>	1.2								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	bed materials are mostly scoured out, exposing geotextile fabric, no threat to footings as they are embedded deeper.								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor geotextile fabric for damage, check that no more stream bed is eroded.								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	At install a stream bed underlain with geotextile fabric must have been built, it appears that most of the materials on top of fabric have been washed away. There is no threat to the structure as the fabric is staying in place providing protection for the footings. Next inspection ensure fabric is still in place.								
<b>GENERAL</b>	<b>PEng's Comment:</b>	Refer to Inspection Comments for historical PEng Comments								
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>	2060			<b>Replacement Date for light vehicle traffic (year):</b>	2065				
	<b>Current Inspection Load Rating:</b>	63		<b>Design Load GVW (tonnes):</b>	0		<b>Design Vehicle Config.:</b>			
	<b>Professional Inspection Required?</b>	No	<b>Report Status:</b>	Accepted By Drew Alway on 1/27/2010 12:00:00AM						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 196 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1139	Site #:	K1139	Road Name:	LAWLESS CREEK	Inspection Date:	2010/09/22
KM:	11.43	User km:	19.90	Crossing Name:	Unnamed	Next Inspection Date:	2013/09/22
Project File ID #:	5104	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	2,700			Outlet Cover (mm):	3,000		
Footing Type:				Gradient (%):	3.0		
Culvert Length (metres):	14.0	Opening Height (mm):	3,200	Opening Width (mm):	3,200		
UTM Zone:	10	UTM Easting:	650891	UTM Northing:	5500384		
Inspector Name:	Chris Cole			Year Superstructure Installed:	2000		
Access:							

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	2	
Delineator Missing Right (approaching structure)	2	
Fender Condition	None	
Posted Load Rating	None	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Good	
Coupled Connections	Not Applicable	
Coating	Good	
Embedment Materials	Good	
Fill	Good	
Floor	Not Applicable	
Footing	Good	doesn't seem to be exposed.
Head Wall	Not Applicable	
Inlet	Good	
Outlet	Good	

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 197 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1139	Site #:	K1139	Road Name:	LAWLESS CREEK	Inspection Date:	2010/09/22			
Overall	Good									
Riprap	Good									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.0		Estimated Present Water Level Width:		0.0			
	Estimated High Water Level Clearance:		1.3							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments								
GENERAL	Replacement Date for full log haul traffic (year):		2060		Replacement Date for light vehicle traffic (year):			2065		
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		0		Design Vehicle Config.:	
	Professional Inspection Required?		No		Report Status:		Accepted By Drew Alway on 1/5/2011 12:00:00AM			

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Woodbox/Log Culvert Inspection Report

Page 198 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001D  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K664	Site #:	K664	Road Name:	LAWLESS CREEK	Inspection Date:	2011/07/14
KM:	13.35	User km:	22.10	Crossing Name:	Pioneer Cr	Next Inspection Date:	2013/07/14
Project File ID #:	5104	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Box			Culvert Material:	Other		
Inlet Cover (mm):	1,600			Outlet Cover (mm):	2,200		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	13.0	Opening Height (mm):	2,100	Opening Width (mm):	2,100		
UTM Zone:	10	UTM Easting:	650882	UTM Northing:	5500399		
Inspector Name:	Chris Cole			Year Superstructure Installed:	1995		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	None	
Road Surface	Good	Deactivation adjacent on culvert.

### WOODBBOX CULVERT

Fill	Good	
Floor	Good	
Head Wall	Not Applicable	
Inlet	Good	
Outlet	Good	
Overall	Good	
Riprap	Poor	Requires some.
Roof	Good	
Side Walls	Good	
Trash Rack	Not Applicable	
Wiers/Backwater Structures	Not Applicable	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Woodbox/Log Culvert Inspection Report

Page 199 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001D  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K664	Site #:	K664	Road Name:	LAWLESS CREEK	Inspection Date:	2011/07/14
--------------	------	---------	------	------------	---------------	------------------	------------

Wing Wall	Not Applicable
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CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	1.6
	Estimated High Water Level Clearance:	1.4		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	2	Complete	Medium	\$1,000.00	Brush out inlet. Culvert Removed.
	3	Complete	Medium	\$4,000.00	Place rip-rap at inlet and outlet. Culvert Removed.

MONITORS	#	Description

GENERAL	Inspector's Comment:	Coordinates are correct. Cross ditch on left bank of culvert.

GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments

GENERAL	Replacement Date for full log haul traffic (year):			2025	Replacement Date for light vehicle traffic (year):			2030
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 12/20/2011 12:00:00AM		

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 200 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K755	Site #:	K755	Road Name:	LAWLESS-BRITTON	Inspection Date:	2015/06/14
KM:	12.19	User km:	11.90	Crossing Name:	Skwum Cr	Next Inspection Date:	2018/06/14
Project File ID #:	5104	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	12.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	651256	UTM Northing:	5494340		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1995		
Access:							

### ABUTMENTS

Bearings	Fair	Rubber pads are compressed
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Tight corner at the #2 approach, traffic impacting curb
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	1	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Fair	

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K755	Site #:	K755	Road Name:	LAWLESS-BRITTON	Inspection Date:	2015/06/14			
Curb Rail/Blocks/Posts	Poor	Will require replacement soon, missing 2 riser to deck bolts as well								
Deck Joints	Fair									
Grout Pockets	Good									
Hardware	Fair									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Fair									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
CHANNEL	Estimated Present Water Level Depth:		0.1		Estimated Present Water Level Width:		1.3			
	Estimated High Water Level Clearance:		1.6							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Medium	\$250.00	Re grout deck panel damage. see photo					
	2	Complete	Medium	\$3,000.00	Requires approximately 1,500 Bf of 10x10" timber as well as reusing some newer wood on bridge. Also missing 2 riser to deck bolts					
	3	Complete	Low	\$100.00	Install missing delin.					
MONITORS	#	Description								
	1	Continue to monitor grout between panels								
GENERAL	Inspector's Comment:	The deck damage has been repaired but rebar is still exposed. It was previously noted that the grout between the deck panels would need replacing. It has not deteriorated further. Curbs are in poor condition. K755 is incorrectly placed on the supplied map. It is located at the K441 site. The GPS coord for this site are 49' 34.964" 120' 54.448"								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 202 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K755	Site #:	K755	Road Name:	LAWLESS-BRITTON	Inspection Date:	2015/06/14
GENERAL	PEng's Comment:	coord updated					
GENERAL	Replacement Date for full log haul traffic (year):			2044	Replacement Date for light vehicle traffic (year):		2049
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 12:08:50PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K441	Site #:	K441	Road Name:	LAWLESS-BRITTON	Inspection Date:	2015/06/30
KM:	14.58	User km:	14.50	Crossing Name:	Lawless Cr	Next Inspection Date:	2018/06/30
Project File ID #:	5104	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	17.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	653267	UTM Northing:	5494706		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1994		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	1 only
Posted Load Rating	none	
Road Surface	Fair	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K441	Site #:	K441	Road Name:	LAWLESS-BRITTON	Inspection Date:	2015/06/30			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		10.0			
	Estimated High Water Level Clearance:		1.6							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 205 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K441	Site #:	K441	Road Name:	LAWLESS-BRITTON	Inspection Date:	2015/06/30
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2039	Replacement Date for light vehicle traffic (year):		2044
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 2:08:09PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K602	Site #:	K602	Road Name:	MUD CREEK BR 01	Inspection Date:	2014/08/30
KM:	3.22	User km:	3.20	Crossing Name:	Jim Cr	Next Inspection Date:	2017/08/30
Project File ID #:	5496	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	12.7	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	529402	UTM Northing:	5641549		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	buried
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	buried
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Poor	missing on left
Posted Load Rating	n/a	none
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K602	Site #:	K602	Road Name:	MUD CREEK BR 01	Inspection Date:	2014/08/30
--------------	------	---------	------	------------	-----------------	------------------	------------

### DECK

#### Span 1

Concrete Deck	Unrated	gravel over
Curb Rail/Blocks/Posts	Good	
Deck Joints	Unrated	gravel over
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	gravel over

#### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	3.0
Estimated High Water Level Clearance:	3.0		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$2,000.00	add approach barriers on left
2	Required	Low	\$500.00	Clean gravel from deck and assess deck & joints condition.

#### MONITORS

#	Description

#### GENERAL

Inspector's Comment:	LT (2014/12/19): Updated load rating to 68 tonnes. No photos of bearing arrangement. Clean gravel from deck and assess deck & joints condition.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K602	Site #:	K602	Road Name:	MUD CREEK BR 01	Inspection Date:	2014/08/30
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/20/2014 4:45:35PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 209 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K601	<b>Site #:</b>	K601	<b>Road Name:</b>	MUD CREEK BR 01	<b>Inspection Date:</b>	2014/08/30
<b>KM:</b>	14.01	<b>User km:</b>	14.10	<b>Crossing Name:</b>	Liza Cr	<b>Next Inspection Date:</b>	2017/08/30
<b>Project File ID #:</b>	5496	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	18.8	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	522604	<b>UTM Northing:</b>	5645055		
<b>Inspector Name:</b>	Jeremy Araki			<b>Year Superstructure Installed:</b>	1998		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	posts and bracing painted
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	LT: Tight turn radius on RB approach.
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Poor	missing on left
Posted Load Rating	n/a	none
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 210 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K601	<b>Site #:</b>	K601	<b>Road Name:</b>	MUD CREEK BR 01	<b>Inspection Date:</b>	2014/08/30			
<b>Concrete Deck</b>	Unrated	gravel over								
<b>Curb Rail/Blocks/Posts</b>	Fair	some damage to right downstream, see pic. not enough to replace								
<b>Deck Joints</b>	Unrated	gravel over, look good from underneath								
<b>Grout Pockets</b>	Unrated	gravel over								
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Unrated	none								
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		8.0			
	<b>Estimated High Water Level Clearance:</b>		3.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$2,000.00	left approach barriers					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	LT (2014/12/19) Updated load rating to 68 tonnes according to bridge label L75.								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K601	Site #:	K601	Road Name:	MUD CREEK BR 01	Inspection Date:	2014/08/30
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/20/2014 4:55:14PM			

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K503	Site #:	K503	Road Name:	MUD CREEK BR 01	Inspection Date:	2014/08/30
KM:	24.35	User km:	24.90	Crossing Name:	Noaxe Cr	Next Inspection Date:	2017/08/30
Project File ID #:	5496	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	13.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	517595	UTM Northing:	5651486		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	2001		
Access:							

### ABUTMENTS

Bearings	Fair	due to left issue
Bracing	Not Applicable	
Ballast Wall	Good	integral with cap
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Good except for the left issue with touching the slabs
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	cannot see
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Excellent	0
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	noposts
Posted Load Rating	n/a	none
Road Surface	Good	

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K503	<b>Site #:</b>	K503	<b>Road Name:</b>	MUD CREEK BR 01	<b>Inspection Date:</b>	2014/08/30			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good	LT: gravel covered some of the surface.								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.3	<b>Estimated Present Water Level Width:</b>		4.0					
	<b>Estimated High Water Level Clearance:</b>	1.2								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	LT: Monitor cap for LB bearing								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	On the left abutment the very front edge of the cap is touching the slabs. No cracks or anything is noted. I would take this off the monitor items as it is functioning okay. There is another comment about tension cracks, I think they are refering to the surface stress releif cracks in the slabs which are a normal item. I could not find any other cracking. LT (2014/12/20) reviewed.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 214 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K503	Site #:	K503	Road Name:	MUD CREEK BR 01	Inspection Date:	2014/08/30
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2046	Replacement Date for light vehicle traffic (year):		2051
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/20/2014 5:19:34PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 215 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K504	Site #:	K504	Road Name:	MUD-NOAXE CREEK	Inspection Date:	2016/06/14
KM:	15.45	User km:	15.90	Crossing Name:	Noaxe Cr	Next Inspection Date:	2018/06/14
Project File ID #:	5496	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	12.0	# Spans:	1	Span Length(s) (metres):	11.2		
UTM Zone:	10	UTM Easting:	520962	UTM Northing:	5657281		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Log/Timber Cribbs	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	Small angular
Tie-backs	Good	
Wing Wall	Good	

### APPROACHES

Alignment	Fair	The #1 approach was recently widened, it still is tight but traffic is tracking well.
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 216 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K504	Site #:	K504	Road Name:	MUD-NOAXE CREEK	Inspection Date:	2016/06/14
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	4" planks
Sub Deck	Unrated	None
Ties	Good	

### STRINGERS

#### Span 1

Log Curbs	Good	
Needle Beam(s) and Shims	Good	Shimmed and tight

### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	7.8
Estimated High Water Level Clearance:	2.2		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description

### MONITORS

#	Description

### GENERAL

Inspector's Comment:	This structure is in very good condition, no significant rot was encountered. The #1 approach appears to have recently been widened. Consider returning structure to regular inspection interval. There would have to be extensive approach work done in order to install fenders. Stringers are sound.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K504	Site #:	K504	Road Name:	MUD-NOAXE CREEK	Inspection Date:	2016/06/14	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2018	Replacement Date for light vehicle traffic (year):		2021	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 3:39:17PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 218 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K505	<b>Site #:</b>	K505	<b>Road Name:</b>	MUD-TAYLOR CREEK	<b>Inspection Date:</b>	2015/06/19
<b>KM:</b>	1.44	<b>User km:</b>	1.60	<b>Crossing Name:</b>	Tyaughton Cr	<b>Next Inspection Date:</b>	2018/06/19
<b>Project File ID #:</b>	5496	<b>Br.</b>	03	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	26.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	517677	<b>UTM Northing:</b>	5649607		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2005		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Fair	Materials continue to ravel down onto both approaches

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K505	<b>Site #:</b>	K505	<b>Road Name:</b>	MUD-TAYLOR CREEK	<b>Inspection Date:</b>	2015/06/19			
<b>Curb Rail/Blocks/Posts</b>	Fair	Loose								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		2.0		<b>Estimated Present Water Level Width:</b>		5.2			
	<b>Estimated High Water Level Clearance:</b>		1.4							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$400.00	Clear the #2 approach of raveled rock and gravel					
	2	Required	Low	\$300.00	Tighten curb bolts					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	No tag on bridge								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 220 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K505	Site #:	K505	Road Name:	MUD-TAYLOR CREEK	Inspection Date:	2015/06/19
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2065	Replacement Date for light vehicle traffic (year):		2070
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 3:26:00PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 221 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K506	<b>Site #:</b>	K506	<b>Road Name:</b>	MUD-TYAUGHTON CRK	<b>Inspection Date:</b>	2015/06/19
<b>KM:</b>	0.62	<b>User km:</b>	107.50	<b>Crossing Name:</b>	Tyaughton Cr	<b>Next Inspection Date:</b>	2017/06/19
<b>Project File ID #:</b>	5496	<b>Br.</b>	04	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <small>(looking downstream)</small>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	27.8	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	517152	<b>UTM Northing:</b>	5652619		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2000		
<b>Access:</b>	Note a number of cut slope failures on the access to this structure. DA. Feb 2014						

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Log/Timber Cribbs</b>	Good	Old cribbs used for erosion controll only
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Fair	
<b>Tie-backs</b>	Fair	
<b>Wing Wall</b>	Fair	

### APPROACHES

<b>Alignment</b>	Fair	The grade is very steep from the high chain, it does level out somewhat just before the bridge 9%.
<b>Bridge Ahead Signs Missing</b>	2	In stall bridge ahead signs
<b>Brushing Required</b>	No	
<b>Delineator Missing Left</b> <small>(approaching structure)</small>	0	
<b>Delineator Missing Right</b> <small>(approaching structure)</small>	0	
<b>Fender Condition</b>	None	
<b>Road Surface</b>	Fair	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 222 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K506	Site #:	K506	Road Name:	MUD-TYAUGHTON CRK	Inspection Date:	2015/06/19
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Fair	Some break down on plank ends, minimal
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	2.0	Estimated Present Water Level Width:	15.1
Estimated High Water Level Clearance:	3.5		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$500.00	Install bridge ahead signs

#### MONITORS

#	Description
1	Some breakdown on the blank ends

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K506	Site #:	K506	Road Name:	MUD-TYAUGHTON CRK	Inspection Date:	2015/06/19	
GENERAL	Inspector's Comment:	It appears that rock and fill were added to the downstream corner of the #2 approach. addressing the monitor note						
GENERAL	PEng's Comment:	appears water bar was not installed.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 3:34:40PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K620	Site #:	K620	Road Name:	MUD-PARADISE CREEK	Inspection Date:	2014/08/31
KM:	1.10	User km:	0.90	Crossing Name:	Mud Cr #1	Next Inspection Date:	2017/08/31
Project File ID #:	5496	Br.	05	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	27.9	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	515700	UTM Northing:	5655668		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1998		
Access:	12 ft ladder to inspect girders.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	posts and bracing coated
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	LT: RBDS delineator obscured.
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Poor	none
Posted Load Rating	n/a	none
Road Surface	Fair	some potholes

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K620	Site #:	K620	Road Name:	MUD-PARADISE CREEK	Inspection Date:	2014/08/31			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good	LT: Gravel on deck.								
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Unrated	none								
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		5.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$2,000.00	consider adding approach barriers, big drops off bridge corners					
	2	Required	Medium	\$500.00	LT: Brushing required.					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	LT (2014/12/22): Added repair: RB brushing required, RBDS delineator obscured.								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K620	Site #:	K620	Road Name:	MUD-PARADISE CREEK	Inspection Date:	2014/08/31	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/22/2014 11:25:00PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K619	<b>Site #:</b>	K619	<b>Road Name:</b>	MUD-PARADISE CREEK	<b>Inspection Date:</b>	2014/08/31
<b>KM:</b>	1.64	<b>User km:</b>	1.60	<b>Crossing Name:</b>	Relay Cr	<b>Next Inspection Date:</b>	2017/08/31
<b>Project File ID #:</b>	5496	<b>Br.</b>	05	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Gravel		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	21.7	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	515524	<b>UTM Northing:</b>	5656131		
<b>Inspector Name:</b>	Jeremy Araki			<b>Year Superstructure Installed:</b>	1999		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	posts and bracing coated
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	LT: Minor brushing required, one delineator obscured (RBDS)
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Poor	none
Posted Load Rating	n/a	none
Road Surface	Fair	some potholes

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 228 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K619	Site #:	K619	Road Name:	MUD-PARADISE CREEK	Inspection Date:	2014/08/31			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Fair	some rot in risers, see pic								
Deck Joints	Good									
Grout Pockets	Good									
Gravel Surface	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Unrated	none								
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		10.0			
	Estimated High Water Level Clearance:		3.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	2	Required	Medium	\$2,000.00	consider adding approach barriers					
	3	Required	Low	\$500.00	LT: Brushing required.					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	LT (2014/12/22): Updated load rating to L75 according to bridge label. Minor brushing required, one delineator obscured.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 229 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K619	Site #:	K619	Road Name:	MUD-PARADISE CREEK	Inspection Date:	2014/08/31	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2044	Replacement Date for light vehicle traffic (year):		2049	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/23/2014 8:57:01AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 230 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1130	Site #:	K1130	Road Name:	MUD-SLUICEBOX CRK	Inspection Date:	2015/06/19
KM:	0.08	User km:	0.10	Crossing Name:	Mud Cr	Next Inspection Date:	2018/06/19
Project File ID #:	5496	Br.	07	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	517811	UTM Northing:	5662301		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Poor	Both approaches have settled and a sink hole has developed at the #2 approach. This is largely caused by the lack of fill in front of the ballast walls.
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	Install bridge ahead signs
Brushing Required	Yes	Brush out around bridge
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Poor	Both approaches have settled and a sink hole has developed at the #2 approach. This is largely caused by the lack of fill in front of the ballast walls.

### DECK

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1130	<b>Site #:</b>	K1130	<b>Road Name:</b>	MUD-SLUICEBOX CRK	<b>Inspection Date:</b>	2015/06/19
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### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	
Deck Joints	Good	
Grout Pockets	Good	
Hardware	Not Applicable	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

#### CHANNEL

<b>Estimated Present Water Level Depth:</b>	0.3	<b>Estimated Present Water Level Width:</b>	9.5
<b>Estimated High Water Level Clearance:</b>	1.6		

#### HAZARDS

<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
<b>Comment:</b>									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	High	\$1,000.00	Both approaches have settled and a sink hole has developed at the #2 approach. This is largely caused by the lack of fill in front of the ballast walls.  Add additional fill materials to both approaches and some addition 300 mm angular rock at toe of ballast walls where gaps exist.
2	Required	Medium	\$200.00	Brush out around the bridge
3	Required	Low	\$500.00	Install 2 bridge ahead signs

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1130	Site #:	K1130	Road Name:	MUD-SLUICEBOX CRK	Inspection Date:	2015/06/19
MONITORS	#	Description					
GENERAL	Inspector's Comment:	Both approaches have settled and a sink hole has developed at the #2 approach					
GENERAL	PEng's Comment:	addition approach fill required will be a lot cheaper of a fix than the concrete repairs that will be required for the damaged ballast walls. Suggest users should complete this repair as soon as feasible.					
GENERAL	Replacement Date for full log haul traffic (year):		2045		Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		0
	Design Vehicle Config.:						
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 2/11/2016 12:46:40PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K509	Site #:	K509	Road Name:	MUD-PACKHORSE	Inspection Date:	2016/06/14
KM:	0.01	User km:	0.20	Crossing Name:	Mud Cr	Next Inspection Date:	2019/06/14
Project File ID #:	5496	Br.	15	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	23.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	517107	UTM Northing:	5660581		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2001		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	Mostly bed rock
Wing Wall	Good	Lock blocks

### APPROACHES

Alignment	Fair	Corner at the #1 approach
Bridge Ahead Signs Missing	2	Install bridge ahead signs
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K509	Site #:	K509	Road Name:	MUD-PACKHORSE	Inspection Date:	2016/06/14			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Fair	Structure risers have elevated rot at a few locations								
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.5			
	Estimated High Water Level Clearance:		8.5							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Structure risers have elevated rot at a few locations								
GENERAL	Inspector's Comment:	Structure risers have elevated rot								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K509	Site #:	K509	Road Name:	MUD-PACKHORSE	Inspection Date:	2016/06/14	
GENERAL	PEng's Comment:	Suggest users should manage the water at the approaches more actively.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 9:50:06AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 236 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K921	<b>Site #:</b>	K921	<b>Road Name:</b>	West Pavilion	<b>Inspection Date:</b>	2015/06/20
<b>KM:</b>	47.15	<b>User km:</b>	48.00	<b>Crossing Name:</b>	Leon Cr	<b>Next Inspection Date:</b>	2018/06/20
<b>Project File ID #:</b>	5848	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <small>(looking downstream)</small>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	10.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	572615	<b>UTM Northing:</b>	5650186		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1988		
<b>Access:</b>							

### ABUTMENTS

Bearings	Fair	The #1 upstream is covered in gravel
Bracing	Not Applicable	
Ballast Wall	Fair	
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <small>(approaching structure)</small>	0	
Delineator Missing Right <small>(approaching structure)</small>	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 237 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K921	<b>Site #:</b>	K921	<b>Road Name:</b>	West Pavilion	<b>Inspection Date:</b>	2015/06/20			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Fair									
<b>Overall Deck Condition</b>	Poor	Requires attention								
<b>Running Planks</b>	Poor	Worn , rotten failed sections see photo								
<b>Sub Deck</b>	Fair									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good	Flanges are dirty								
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.5		<b>Estimated Present Water Level Width:</b>		5.5			
	<b>Estimated High Water Level Clearance:</b>		3.1							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	Yes	<b>Aggradation:</b>	No
	<b>Comment:</b>	Large tree across creek just upstream of bridge								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$4,800.00	Deck is worn and rotten, failed sections. Will require 1,346 Bf of 3" decking. Bridge is skewed so there may be wasteage cutting skew					
	2	Required	Low	\$200.00	Clean bearing and girder flange					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Tree across creek upstream of the bridge, remove or monitor								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 238 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K921	Site #:	K921	Road Name:	West Pavilion	Inspection Date:	2015/06/20
GENERAL	Inspector's Comment:	Deck is poor, rot and worn.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):		2039		Replacement Date for light vehicle traffic (year):		2044
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68
					Design Vehicle Config.:		L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/15/2016 1:16:40PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K920	<b>Site #:</b>	K920	<b>Road Name:</b>	West Pavilion	<b>Inspection Date:</b>	2015/06/20
<b>KM:</b>	68.61	<b>User km:</b>	77.80	<b>Crossing Name:</b>	Watson Bar	<b>Next Inspection Date:</b>	2018/06/20
<b>Project File ID #:</b>	5848	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	6.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	564299	<b>UTM Northing:</b>	5658541		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1991		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K920	Site #:	K920	Road Name:	West Pavilion	Inspection Date:	2015/06/20			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Fair	Loose curb bolts								
Deck Joints	Good									
Grout Pockets	Not Applicable									
Hardware	Fair	Loose curb bolts								
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		4.0			
	Estimated High Water Level Clearance:		1.7							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Low	\$300.00	Tighten Loose curb bolts					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	appear to have new curbs, but they are loose								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K920	Site #:	K920	Road Name:	West Pavilion	Inspection Date:	2015/06/20
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2041	Replacement Date for light vehicle traffic (year):		2046
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 12:31:34PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K917	<b>Site #:</b>	K917	<b>Road Name:</b>	West Pavilion	<b>Inspection Date:</b>	2014/09/01
<b>KM:</b>	0.00	<b>User km:</b>	83.10	<b>Crossing Name:</b>	Watson Bar Cr	<b>Next Inspection Date:</b>	2017/09/01
<b>Project File ID #:</b>	5848	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Gravel		
<b>Superstructure</b>	Concrete Box Beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Cast in Place		
<b>Total Length (metres):</b>	8.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	568323	<b>UTM Northing:</b>	5662278		
<b>Inspector Name:</b>	Jeremy Araki			<b>Year Superstructure Installed:</b>	1991		
<b>Access:</b>	On IR #1. High bar band, not a public road. Forward copies, Brian Novosel at INAC. Take spur leading east at 74 km on the West Pavilion FSR. Located 5 km off of the West Pavilion FSR. MRF 05/2014						

### ABUTMENTS

<b>Bearings</b>	Good	rubber bearing strip on cast in place concrete
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Unrated	no ballast wall, structure is a slab bridge on cast in place
<b>Concrete Cast in Place</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Unrated	no cap beam
<b>Fill</b>	Fair	Fine grained but stable
<b>Hardware</b>	Not Applicable	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Not Applicable	bedrock channel
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Good	
<b>Bridge Ahead Signs Missing</b>	2	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	none
<b>Posted Load Rating</b>	n/a	not posted
<b>Road Surface</b>	Fair	very silty, will be bad when wet

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 243 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K917	Site #:	K917	Road Name:	West Pavilion	Inspection Date:	2014/09/01
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### DECK

#### Span 1

Concrete Deck	Unrated	gravel over
Curb Rail/Blocks/Posts	Fair	some decay but intact. LT: excessive debris up against curbs promoting rot.
Deck Joints	Unrated	gravel over
Grout Pockets	Unrated	gravel over
Gravel Surface	Fair	a bit silty
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	LT: excessive debris up against curbs promoting rot.

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	gravel over

#### CHANNEL

Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	1.0
Estimated High Water Level Clearance:	2.0		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$2,000.00	consider adding approach barriers

#### MONITORS

#	Description

#### GENERAL

Inspector's Comment:	delineator fixed, curbs fair. LT (2014/12/22): reviewed. Rejected due to missing abutment inspection data. LT (2015/01/29): Accepted.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K917	Site #:	K917	Road Name:	West Pavilion	Inspection Date:	2014/09/01
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2036	Replacement Date for light vehicle traffic (year):		2041
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 1/29/2015 4:09:26PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K919	Site #:	K919	Road Name:	West Pavilion	Inspection Date:	2016/06/15
KM:	93.28	User km:	102.00	Crossing Name:	South French Bar Cr	Next Inspection Date:	2019/06/15
Project File ID #:	5848	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	10.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	551871	UTM Northing:	5669723		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1993		
Access:							

### ABUTMENTS

Bearings	Fair	Not pinned to lock blocks
Bracing	Not Applicable	
Ballast Wall	Fair	Not connected to superstructure
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	No sill, rubber pads on lock blocks
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K919	<b>Site #:</b>	K919	<b>Road Name:</b>	West Pavilion	<b>Inspection Date:</b>	2016/06/15
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### DECK

#### Span 1

<b>Curb Rail/Blocks/Posts</b>	Fair	The curbs have hi rot values and will require replacement soon. Some impact damage at the upstream side of #1, the metal riser is now resting on a cracked tie. This can be remedied when replacing the curbs by moving riser to undamaged tie.
<b>Deck to Girder Bolts</b>	Good	
<b>Hardware</b>	Good	
<b>Hand Rails/Walkouts</b>	Not Applicable	
<b>Nails</b>	Good	
<b>Overall Deck Condition</b>	Good	
<b>Running Planks</b>	Fair	Some rot pockets, generally good
<b>Sub Deck</b>	Good	
<b>Ties</b>	Good	With the exception of 2 damaged by curb impact at the #1 approach upstream side, see photo

### SUPERSTRUCTURE

#### Span 1

<b>Bracing</b>	Poor	Mid span bottom horizontal is bent see photo
<b>Diaphragms</b>	Good	
<b>Girders</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Under Trussing</b>	Not Applicable	

<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.2	<b>Estimated Present Water Level Width:</b>	45.3
	<b>Estimated High Water Level Clearance:</b>	1.5		

<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K919	<b>Site #:</b>	K919	<b>Road Name:</b>	West Pavilion	<b>Inspection Date:</b>	2016/06/15
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Required	Low	\$2,000.00	The curbs have hi rot values and will require replacement soon. Some impact damage at the upstream side of #1, the metal riser is now resting on a cracked tie. This can be remedied when replacing the curbs by moving riser to undamaged tie. Curbs consist of 2- 16' and 2-18' 10x10" timbers on metal risers		
	2	Required	Low	\$150.00	Brush out bridge		
	3	Required	High	\$2,000.00	Replace damaged bottom chord angle at mid span location. CWB certified company and welder required. Documentation of repairs and welder qualification to be sent to RSI engineering branch.		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
	1	Monitor lack of connection to lock blocks at bearing					
	2	Bent horizontal brace					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The curbs have hi rot values and will require replacement soon. Some impact damage at the upstream side of #1, the metal riser is now resting on a cracked tie. This can be remedied when replacing the curbs by moving riser to undamaged tie.					
<b>GENERAL</b>	<b>PEng's Comment:</b>	Note we have no drawings on file for this installation. I've set the load rating to unknown, still safe for industrial hauling. Requires more detailed inspection. Full measure up required and evaluation required.					
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2043	<b>Replacement Date for light vehicle traffic (year):</b>		2048
	<b>Current Inspection Load Rating:</b>		See footnote	<b>Design Load GVW (tonnes):</b>		0	<b>Design Vehicle Config.:</b>
	<b>Professional Inspection Required?</b>		No	<b>Report Status:</b>	Reviewed By Drew Alway on 2/6/2017 1:52:10PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1349	Site #:	K1349	Road Name:	West Pavilion	Inspection Date:	2015/06/20
KM:	103.36	User km:	112.00	Crossing Name:	French Bar	Next Inspection Date:	2018/06/20
Project File ID #:	5848	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	20.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	547088	UTM Northing:	5675564		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2006		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Fair	Low at both approaches

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1349	Site #:	K1349	Road Name:	West Pavilion	Inspection Date:	2015/06/20			
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Good									
Overall Deck Condition	Good									
Running Planks	Good									
Sub Deck	Good									
Ties	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		2.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1349	Site #:	K1349	Road Name:	West Pavilion	Inspection Date:	2015/06/20
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		63	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 1:06:57PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K918	Site #:	K918	Road Name:	W. PAVILION-LEON CRK	Inspection Date:	2016/06/15
KM:	7.57	User km:	60.00	Crossing Name:	Leon Cr	Next Inspection Date:	2018/06/15
Project File ID #:	5848	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	6.0	# Spans:	1	Span Length(s) (metres):	5.9		
UTM Zone:	10	UTM Easting:	569678	UTM Northing:	5647779		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1983		
Access:							

### ABUTMENTS

Bearings	Poor	Rotten at #1
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	The #1 crib has a log on top of the crib as a sill and it is rotten and failing
Fill	Fair	Sink hole at the #1 upstream corner
Hardware	Not Applicable	
Log/Timber Crib	Fair	
Piles or Posts	Not Applicable	
Riprap	Fair	
Tie-backs	Fair	Some crushing and checking
Wing Wall	Fair	

### APPROACHES

Alignment	Fair	Junction at the #1 approach, tight corner at #2
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	5	
Road Surface	Good	

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K918	Site #:	K918	Road Name:	W. PAVILION-LEON CRK	Inspection Date:	2016/06/15
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	Large cabled logs
Deck to Girder Bolts	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	None
Ties	Fair	

### STRINGERS

#### Span 1

Stringer #	Diameter or Width X Depth	Peeled	Rot Depth (Bottom)	Rot Depth (Side)	Rot Depth (Top)	Wood Species	Comments
1	620	Yes	620	0	0	Fir	All strunger have a relatively solid outer shell, on this stringer #2 end is rotten and #1 has core rot
2	600	Yes	0	0	0	fir	good
3	600	Yes	600	0	0	fir	#2 end rotted through and extensive core rot on #1
6	590	Yes	400	0	0	Fir	4 and 5 are good 6 has core rot on #1 end
7	590	Yes	590	0	0	Fir	Rotted through on #1 end
8	610	Yes	0	0	0	fir	good
9	610	Yes	610	0	0	fir	Rotted through on #1 end

Log Curbs	Good	Large logs supporting 2 needle beams
Needle Beam(s) and Shims	Good	Shimmed and cabled not tight

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.8
	Estimated High Water Level Clearance:	2.2		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K918	Site #:	K918	Road Name:	W. PAVILION-LEON CRK	Inspection Date:	2016/06/15
MONITORS	#	Description					
	1	Monitor #1 sill for rot and failure					
	2	Monitor stringers for failure					
GENERAL	Inspector's Comment:	This structure has had double needle beams, set in front of each crib, they are solid and secure as well as supported by large curb logs. The stringers have outer relatively solid shells. Stringers 1,3,7and 9 are rotted through at bearing. Extensive core rot on 1, 3, 6 @#1 abutment. The sill on #1 is rotten and crushing, it is just a log laid on top of the crib. This structure has a limited life, consider closure or replacement					
GENERAL	PEng's Comment:	Professional inspection required to determine closure or not. Safe for pick up traffic until that point.					
GENERAL	Replacement Date for full log haul traffic (year):		2016		Replacement Date for light vehicle traffic (year):		2018
	Current Inspection Load Rating:		5		Design Load GVW (tonnes):		63
	Design Vehicle Config.:						
	Professional Inspection Required?	Yes	Report Status:	Reviewed By Drew Alway on 1/11/2017 10:07:19AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K564	Site #:	K564	Road Name:	W. PAVILION-PONY VLY	Inspection Date:	2016/06/15
KM:	6.99	User km:	7.00	Crossing Name:	Pony Valley Cr	Next Inspection Date:	2018/06/15
Project File ID #:	5848	Br.	05	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	10.0	# Spans:	1	Span Length(s) (metres):	9.4		
UTM Zone:	10	UTM Easting:	542798	UTM Northing:	5673115		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Fair	Some punkness and rot on the #1 abutment, which is constantly wet from the approach run off
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Log/Timber Crib	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Tie-backs	Good	
Wing Wall	Good	

### APPROACHES

Alignment	Poor	Grade steep down onto bridge from High Chain.
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	10	Posted at this inspection as requested by DA

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K564	<b>Site #:</b>	K564	<b>Road Name:</b>	W. PAVILION-PONY VLY	<b>Inspection Date:</b>	2016/06/15			
<b>Road Surface</b>	Poor	Surface water from spring in road is running onto the bridge. The road has been deactivated beyond the bridge, waterbarred								
<b>DECK</b>										
<b>Span 1</b>										
<b>Curb Rail/Blocks/Posts</b>	Fair									
<b>Deck to Girder Bolts</b>	Not Applicable									
<b>Hardware</b>	Good	Cabled curbs								
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Fair									
<b>Overall Deck Condition</b>	Poor	Will require new deck for industrial haul								
<b>Running Planks</b>	Poor	Very dirty and punky, continuous water running onto the bridge, 2x10" only								
<b>Sub Deck</b>	Poor	Rotten and failing, dirty 2x6 only								
<b>Ties</b>	Fair	6x6" ties on 255 mm centers								
<b>STRINGERS</b>										
<b>Span 1</b>										
<b>Stringer #</b>	<b>Diameter or Width X Depth</b>	<b>Peeled</b>	<b>Rot Depth (Bottom)</b>	<b>Rot Depth (Side)</b>	<b>Rot Depth (Top)</b>	<b>Wood Species</b>	<b>Comments</b>			
3	560	Yes	0	0	0	fir	Heavy check, cored no rot			
7	570	Yes	0	0	0	fir	no rot			
8	565	Yes	0	0	0	fir	No rot			
<b>Log Curbs</b>	Fair	Some rot in Downstream, minimal								
<b>Needle Beam(s) and Shims</b>	Fair	Shimmed and cabled but not tight								
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>			0.3		<b>Estimated Present Water Level Width:</b>		2.8		
	<b>Estimated High Water Level Clearance:</b>			2.2						
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$3,200.00	Will require new deck for industrial haul, deck is 14.5' x 33'					
	2	Required	Low	\$200.00	Brush out bridge					
	3	Required	High	\$1,000.00	Reslope road or water bar if not used					
<b>Corporate Bridge Register (CBR)</b>										

### Disclaimer:

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 256 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K564	Site #:	K564	Road Name:	W. PAVILION-PONY VLY	Inspection Date:	2016/06/15	
MONITORS	#	Description						
GENERAL	Inspector's Comment:	The bridge was posted at 10 tonnes as requested. Eronious previous inspections indicate few ties in actuality there are many ties but they are staggered from upstream to downstream under the deck. The ties are 6x6" and spaced approximately 255 mm apart +/- The deck is however in poor condition with one failed spot (see photo) between the run strips. Deck planks are 2x10 and 2x6" sub deck. Stringers appear to be sound, #3 is heavily checkede and was core sampled but is sound as well 7&8 sampled and no rot. there are 8 stringers not 7 as noted in previous inspection. :(						
GENERAL	PEng's Comment:	The stringers seem to be doing well, so if users decided to re-deck this bridge, I would estimate they could get another 4 years at the 41 tonnes load rating. As is right now maintain the 10 tonnes posted load restriction. I would utilize a 406mm o/c spacing at the same 8"X8" tie size but with 4"X10" sub decking.						
GENERAL	Replacement Date for full log haul traffic (year):		2015		Replacement Date for light vehicle traffic (year):		2020	
	Current Inspection Load Rating:		10		Design Load GVW (tonnes):		41	
					Design Vehicle Config.:		L45	
	Professional Inspection Required?		No		Report Status:			Reviewed By Drew Alway on 1/18/2017 1:32:34PM

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Woodbox/Log Culvert Inspection Report

Page 257 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001D  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K629	Site #:	K629	Road Name:	WEST PAVILION BR 14	Inspection Date:	2009/10/08
KM:	0.22	User km:	95.10	Crossing Name:	Ward Cr	Next Inspection Date:	2011/10/08
Project File ID #:	5848	Br.	14	Forest District:	Cascades Natural Resource District		
Culvert Type:	Box			Culvert Material:	Log		
Inlet Cover (mm):	600			Outlet Cover (mm):	600		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	8.0	Opening Height (mm):	1,300	Opening Width (mm):	5,750		
UTM Zone:	10	UTM Easting:	557735	UTM Northing:	5666009		
Inspector Name:	Chris Cole			Year Superstructure Installed:	2004		
Access:	Deactivated by BCTS 2010. DA.						

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Poor	deactivated, waterbars

### WOODBBOX CULVERT

Stringer #	Stringer Rot Depth	Diameter	Stringer Species	Comments
1	0	500	Fd	Stringer Species: All unpeeled and no signs of rot
Fill	Good			
Head Wall	Good			
Inlet	Good			
Outlet	Good			
Overall	Good			
Riprap	Good			
Roof	Good			
Side Walls	Good			
Trash Rack	Not Applicable			
Wiers/Backwater Structures	Not Applicable			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Woodbox/Log Culvert Inspection Report

Page 258 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001D  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K629	Site #:	K629	Road Name:	WEST PAVILION BR 14	Inspection Date:	2009/10/08
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Wing Wall	Good
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CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	1.5
	Estimated High Water Level Clearance:	1.2		

HAZARDS	High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	Upstream town bank is vulnerable as the creek turns hard at the culvert, but there is no scouring.								

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

GENERAL	Inspector's Comment:	There is no debris or scouring occurring from concerns noted in previous inspection.

GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments

GENERAL	Replacement Date for full log haul traffic (year):			2019	Replacement Date for light vehicle traffic (year):			2024
	Current Inspection Load Rating:		0	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 2/5/2010 12:00:00AM		

Corporate Bridge Register (CBR)

### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 259 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1140	<b>Site #:</b>	K1140	<b>Road Name:</b>	MAKA-MURRAY	<b>Inspection Date:</b>	2015/06/15
<b>KM:</b>	19.87	<b>User km:</b>	19.50	<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2018/06/15
<b>Project File ID #:</b>	6069	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Box Beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	9.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	641019	<b>UTM Northing:</b>	5522950		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1999		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Poor	Steep and unstable at the #2, pinched creek
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 260 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1140	<b>Site #:</b>	K1140	<b>Road Name:</b>	MAKA-MURRAY	<b>Inspection Date:</b>	2015/06/15			
<b>Curb Rail/Blocks/Posts</b>	Fair	Steep and unstable at the #2, pinched creek								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		1.6			
	<b>Estimated High Water Level Clearance:</b>		1.5							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	Some scour at the toe of upstream corner of #2 abutment.								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Steep and unstable at the #2, pinched creek, some failure at toe.								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The curb components are nearing end of life, 3 yr. max								
<b>GENERAL</b>	<b>PEng's Comment:</b>									

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 261 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1140	Site #:	K1140		Road Name:	MAKA-MURRAY		Inspection Date:	2015/06/15
GENERAL	Replacement Date for full log haul traffic (year):				2045	Replacement Date for light vehicle traffic (year):			2050
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/11/2016 12:55:54PM				

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 262 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K915	Site #:	K915	Road Name:	LOWER MAKA	Inspection Date:	2014/07/16
KM:	0.56	User km:	18.00	Crossing Name:	Maka Cr	Next Inspection Date:	2017/07/16
Project File ID #:	6069	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	21.3	# Spans:	1	Span Length(s) (metres):	20.7		
UTM Zone:	10	UTM Easting:	640100	UTM Northing:	5524554		
Inspector Name:	Jean-Guy Bernat			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	not visible
Ballast Wall	Good	minor chip LT: No photos
Corrosion Protection	Poor	steel post not painted LT: No photos
Caps or Sills	Unrated	none
Fill	Good	minor settlement at bridge ends, could use some gravel LT: No Photos
Hardware	Unrated	not visible
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	minor and some at left bridge ahead sign
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	minor chips LT: No photos
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 263 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K915	<b>Site #:</b>	K915	<b>Road Name:</b>	LOWER MAKA	<b>Inspection Date:</b>	2014/07/16
<b>Curb Rail/Blocks/Posts</b>	Fair	some rot in blocks, few bolts slightly loose LT: No photos					
<b>Deck Joints</b>	Unrated	LT: changed to unrated due to formwork still in place.					
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Not Applicable	wleded assembly					
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		13.0
	<b>Estimated High Water Level Clearance:</b>		1.8				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>	Monitored tree in channel upstream. NOT a concern for now					
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	2	Required	Low	\$600.00	LT: Consider painting steel posts with xymax to resist corrosion.		
	3	Required	Medium	\$500.00	LT: remove formwork from underside of deck.		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Fill has not been added on the approaches at the bridge ends. Tree in channel upstream monitored and OK for now.					
		LT (2014/12/17): No photos to show deficiencies noted by inspector. Approach photos taken too far away. Repair added: paint steel posts with xymax to resist corrosion, remove formwork from underside of bridge deck joints.					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 264 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K915	Site #:	K915	Road Name:	LOWER MAKA	Inspection Date:	2014/07/16
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2044	Replacement Date for light vehicle traffic (year):		2049
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/18/2014 10:09:16AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 265 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K715	Site #:	K715	Road Name:	MAKA-MICHAEL	Inspection Date:	2016/06/27
KM:	3.85	User km:	4.00	Crossing Name:	Debbie Cr	Next Inspection Date:	2019/06/27
Project File ID #:	6069	Br.	04	Forest District:	Cascades Natural Resource District		
Deck Type:	Gravel			Running Surface:	Gravel		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	9.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	641338	UTM Northing:	5517577		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1994		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	Some chipping along the top
Fill	Fair	Does not extend to the base of the sill, this has allowed the sink hole to develop
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	Round and some movement has occurred
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Tight corner at the #2 and a unnecessary jog at the #1
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Does not extend to the base of the sill, this has allowed the sink hole to develop

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 266 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K715	<b>Site #:</b>	K715	<b>Road Name:</b>	MAKA-MICHAEL	<b>Inspection Date:</b>	2016/06/27			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Gravel Deck Depth (metres)</b>	0									
<b>Grout Pockets</b>	Not Applicable									
<b>Gravel Surface</b>	Unrated	None								
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good	Some chipping and wear at the bridge ends								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.2			<b>Estimated Present Water Level Width:</b>	2.4				
	<b>Estimated High Water Level Clearance:</b>	2.0								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$350.00	Fill small sink hole at the #2 approach, see photo					
	2	Required	Medium	\$200.00	Brush out bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor rip rap								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Fill sink hole at the #2 approach								
<b>GENERAL</b>	<b>PEng's Comment:</b>	The loss of material at the road surface is due to the poor riprap construction. A permanent fix is to add 300 mm minus angular rock below the base of the cap beams. Then backfill and compact the approach materials. This rock can be hand placed.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 267 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K715	Site #:	K715	Road Name:	MAKA-MICHAEL	Inspection Date:	2016/06/27	
GENERAL	Replacement Date for full log haul traffic (year):			2038	Replacement Date for light vehicle traffic (year):			2043
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 1/25/2017 2:36:15PM			

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 268 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K350	Site #:	K350	Road Name:	STEMWINDER-HEDLEY MT	Inspection Date:	2016/07/05
KM:	1.63	User km:	16.90	Crossing Name:	McNulty Cr	Next Inspection Date:	2019/07/05
Project File ID #:	6427	Br.	02	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	3,000			Outlet Cover (mm):	3,000		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	37.0	Opening Height (mm):	3,000	Opening Width (mm):	3,000		
UTM Zone:	10	UTM Easting:	709038	UTM Northing:	5483615		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1991		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Fair	Some rust minimal
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Fair	The comments related to the covert invert in pipe #1 could be a rock in the culvert. No access due to water levels
Footing	Not Applicable	
Head Wall	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 269 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K350	Site #:	K350	Road Name:	STEMWINDER-HEDLEY MT	Inspection Date:	2016/07/05			
Inlet	Good	There is considerable debris collected on the #1 culvert inlet, it should be removed before more can collect.								
Outlet	Good									
Overall	Good									
Riprap	Good									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:		0.4		Estimated Present Water Level Width:		8.0			
	Estimated High Water Level Clearance:		1.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	There is considerable debris collected on the #1 culvert inlet, it should be removed before more can collect.								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$400.00	There is considerable debris collected on the #1 culvert inlet, it should be removed before more can collect.					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	There is considerable debris collected on the #1 culvert inlet, it should be removed before more can collect.								
GENERAL	PEng's Comment:									

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 270 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K350	Site #:	K350	Road Name:	STEMWINDER-HEDLEY MT	Inspection Date:	2016/07/05	
GENERAL	Replacement Date for full log haul traffic (year):			2041	Replacement Date for light vehicle traffic (year):			2046
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		Yes	Report Status:	Reviewed By Drew Alway on 1/10/2017 12:27:17PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 271 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K551	Site #:	K551	Road Name:	6678	Inspection Date:	2015/06/30
KM:	0.23	User km:	0.20	Crossing Name:	Texas #1	Next Inspection Date:	2018/06/30
Project File ID #:	6678	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	21.6	# Spans:	1	Span Length(s) (metres):	21.6		
UTM Zone:	10	UTM Easting:	582865	UTM Northing:	5601115		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Fair	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 272 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K551	<b>Site #:</b>	K551	<b>Road Name:</b>	6678	<b>Inspection Date:</b>	2015/06/30
<b>Concrete Deck</b>	Good						
<b>Curb Rail/Blocks/Posts</b>	Good						
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Good						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.2	<b>Estimated Present Water Level Width:</b>		7.0	
	<b>Estimated High Water Level Clearance:</b>		1.9				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Required	Medium	\$500.00	Install both bridge ahead signs		
	2	Required	Medium	\$150.00	Brush out bridge		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
<b>GENERAL</b>	<b>Inspector's Comment:</b>						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 273 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K551	Site #:	K551	Road Name:	6678	Inspection Date:	2015/06/30
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2055	Replacement Date for light vehicle traffic (year):		2055
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.: BCL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 9:49:19AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 274 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K569	Site #:	K569	Road Name:	MURRAY-LALUWISSIN CK	Inspection Date:	2015/06/24
KM:	2.72	User km:	4.80	Crossing Name:	Murray #1	Next Inspection Date:	2018/06/24
Project File ID #:	6879	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	13.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	613966	UTM Northing:	5588327		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 275 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K569	<b>Site #:</b>	K569	<b>Road Name:</b>	MURRAY-LALUWISSIN CK	<b>Inspection Date:</b>	2015/06/24			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Poor	One curb section and 2 risers have recently been replaced. Many of the remaining have extensive rot, (see photo)								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		4.0			
	<b>Estimated High Water Level Clearance:</b>		1.4							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	One curb section and 2 risers have recently been replaced. Many of the remaining have extensive rot and should be monitored, (see photo)								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	One curb section and 2 risers have recently been replaced. Many of the remaining have extensive rot, (see photo)								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 276 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K569	Site #:	K569	Road Name:	MURRAY-LALUWISSIN CK	Inspection Date:	2015/06/24	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/16/2016 3:35:48PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 277 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K568	<b>Site #:</b>	K568	<b>Road Name:</b>	MURRAY-LALUWISSIN CK	<b>Inspection Date:</b>	2015/06/24
<b>KM:</b>	2.88	<b>User km:</b>	4.90	<b>Crossing Name:</b>	Murray #2	<b>Next Inspection Date:</b>	2018/06/24
<b>Project File ID #:</b>	6879	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	13.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	613801	<b>UTM Northing:</b>	5588314		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1999		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 278 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K568	<b>Site #:</b>	K568	<b>Road Name:</b>	MURRAY-LALUWISSIN CK	<b>Inspection Date:</b>	2015/06/24			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	Some of the curb components where replaced, many of the remaining have high rot values and loose								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.3	<b>Estimated Present Water Level Width:</b>	3.6						
	<b>Estimated High Water Level Clearance:</b>	1.1								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	Yes	<b>Aggradation:</b>	No
	<b>Comment:</b>	Woody debris collecting at bridge								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Complete	Medium	\$250.00	Clear Woody debris collecting at bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Some of the curb components where replaced, many of the remaining have high rot values. Mat require replacement soon								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Some of the curb components where replaced, many of the remaining have high rot values								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 279 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K568	Site #:	K568	Road Name:	MURRAY-LALUWISSIN CK	Inspection Date:	2015/06/24
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Reviewed By Drew Alway on 2/15/2016 11:18:49AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 280 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K567	Site #:	K567	Road Name:	MURRAY-LALUWISSIN CK	Inspection Date:	2015/06/24
KM:	3.10	User km:	5.20	Crossing Name:	Murray #3	Next Inspection Date:	2018/06/24
Project File ID #:	6879	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	13.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	613595	UTM Northing:	5588372		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 281 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K567	<b>Site #:</b>	K567	<b>Road Name:</b>	MURRAY-LALUWISSIN CK	<b>Inspection Date:</b>	2015/06/24			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Poor	Extensive will require replacement soon								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.3	<b>Estimated Present Water Level Width:</b>		3.2					
	<b>Estimated High Water Level Clearance:</b>	1.3								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Complete	Low	\$100.00	Brush out around bridge					
	2	Required	Medium	\$4,500.00	All curb components have extensive rot. Requires 1284 Bf. of 10x10" timber which includes 12-24" and 12-36" riser blocks					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Bridge will require new curbs and risers soon								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 282 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K567	Site #:	K567	Road Name:	MURRAY-LALUWISSIN CK	Inspection Date:	2015/06/24	
GENERAL	PEng's Comment:	These curb repairs should be completed as soon as feasible. Note this structure is a good candidate for HSS retro-fit rail replacement and would decrease long term maintenance costs.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 10:50:42AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 283 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K570	Site #:	K570	Road Name:	MURRAY CREEK WEST	Inspection Date:	2015/06/24
KM:	1.70	User km:	18.00	Crossing Name:	Murray Cr North	Next Inspection Date:	2017/06/24
Project File ID #:	6879	Br.	04	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	6.2	# Spans:	1	Span Length(s) (metres):	5.4		
UTM Zone:	10	UTM Easting:	604880	UTM Northing:	5595752		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1970		
Access:							

### ABUTMENTS

Bearings	Poor	No bearing pads
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Individual lock block on their sides
Fill	Fair	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	Some erosion has occurred
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 284 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K570	<b>Site #:</b>	K570	<b>Road Name:</b>	MURRAY CREEK WEST	<b>Inspection Date:</b>	2015/06/24			
<b>Curb Rail/Blocks/Posts</b>	Fair	Two sections at the #2 approach have high rot values								
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Fair									
<b>Sub Deck</b>	Fair									
<b>Ties</b>	Fair	Some new treated and some old have been rolled over								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good	Dirt on flanges								
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		2.6			
	<b>Estimated High Water Level Clearance:</b>		0.3							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$300.00	Brush out bridge					
	2	Required	Medium	\$900.00	Two section of curb timber have high rot, Requires 2-6"x10x10" curb timbers					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 285 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K570	Site #:	K570	Road Name:	MURRAY CREEK WEST	Inspection Date:	2015/06/24	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:	curb replacement is required prior to industrial hauling. Structure will be downgraded if not completed by the next routine inspection						
GENERAL	Replacement Date for full log haul traffic (year):			2020	Replacement Date for light vehicle traffic (year):		2025	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 11:24:22AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 286 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K563	Site #:	K563	Road Name:	MURRAY CREEK N-WEST	Inspection Date:	2016/06/16
KM:	5.20	User km:	7.00	Crossing Name:	Unnamed	Next Inspection Date:	2018/06/16
Project File ID #:	6879	Br.	05	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	6.2	# Spans:	1	Span Length(s) (metres):	6.2		
UTM Zone:	10	UTM Easting:	603690	UTM Northing:	5600841		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:	Road is deactivated for the last 4.5 km. The structure is still accessible by pickup. 2010 inspection info						

### ABUTMENTS

Bearings	Fair	Treated timber sill
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	Treated timber
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	At bridge only road to structure is waterbared and many trees down

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 287 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K563	<b>Site #:</b>	K563	<b>Road Name:</b>	MURRAY CREEK N-WEST	<b>Inspection Date:</b>	2016/06/16			
<b>Curb Rail/Blocks/Posts</b>	Fair									
<b>Deck to Girder Bolts</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Fair									
<b>Overall Deck Condition</b>	Poor	Soon to be traffic hazard								
<b>Running Planks</b>	Poor	Rotten and failing, see photo								
<b>Sub Deck</b>	Unrated	None								
<b>Ties</b>	Fair									
<b>STRINGERS</b>										
<b>Span 1</b>										
<b>Log Curbs</b>	Fair	Elevated rot								
<b>Needle Beam(s) and Shims</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		1.5			
	<b>Estimated High Water Level Clearance:</b>		0.9							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor failing deck								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Stringer rot was additionally noted in the very ends and core rot of Both ends of #1 and #2 end of stringer #3. Stringer #7 is very rotten. The deck is failing see photo. The road is heavily waterbared.Consider load rating and or closure. Redecking this structure is likely not warranted.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 288 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K563	Site #:	K563	Road Name:	MURRAY CREEK N-WEST	Inspection Date:	2016/06/16	
GENERAL	PEng's Comment:	Post 10 tonnes load restriction due to structure age and progression of rot in stringers and decking.						
GENERAL	Replacement Date for full log haul traffic (year):			2017	Replacement Date for light vehicle traffic (year):		2020	
	Current Inspection Load Rating:		10	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 3:20:50PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1488	Site #:	K1488	Road Name:	ME7469.02	Inspection Date:	2016/07/09
KM:	0.50	User km:	6.50	Crossing Name:	Simen Cr	Next Inspection Date:	2019/07/09
Project File ID #:	7469	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Removable			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	14.7		
UTM Zone:	10	UTM Easting:	694115	UTM Northing:	5512360		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2009		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Junction at the #2 approach
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	Heavily shot up
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Poor	The #2 approach has water flowing onto the bridge, previous waterbarring has failed

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 290 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1488	<b>Site #:</b>	K1488	<b>Road Name:</b>	ME7469.02	<b>Inspection Date:</b>	2016/07/09			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Not Applicable									
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.4		<b>Estimated Present Water Level Width:</b>		3.3			
	<b>Estimated High Water Level Clearance:</b>		2.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$2,000.00	The #2 approach has water flowing onto the bridge, previous waterbarring has failed. Reestablish					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The #2 approach has water flowing onto the bridge, previous waterbarring has failed								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 291 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1488	Site #:	K1488	Road Name:	ME7469.02	Inspection Date:	2016/07/09
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2059	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		63	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 2:38:56PM	
		BCL625					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 292 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K445	Site #:	K445	Road Name:	PASAYTEN RIVER	Inspection Date:	2016/07/05
KM:	0.27	User km:	0.30	Crossing Name:	Similkameen R	Next Inspection Date:	2019/07/05
Project File ID #:	7573	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Glulam Girder			Abutments (Left/Right): (looking downstream)	Pile -Permanent Materials		
Total Length (metres):	32.0	# Spans:	1	Span Length(s) (metres):	32		
UTM Zone:	10	UTM Easting:	674855	UTM Northing:	5446590		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1982		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Good	Creosote
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Fair	The #7 pile on the #1 abutment is rotted through
Riprap	Good	
Wing Wall	Good	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 293 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K445	<b>Site #:</b>	K445	<b>Road Name:</b>	PASAYTEN RIVER	<b>Inspection Date:</b>	2016/07/05			
<b>Curb Rail/Blocks/Posts</b>	Fair	Some impact damage @ the #1 upstream, see photo								
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Fair									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair	Dirty and worn								
<b>Running Planks</b>	Poor	Worn and deteriorated on plank ends, dirty. Two run strips 1.3 wide with 3" planks								
<b>Sub Deck</b>	Good									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good	Ground inspection only								
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.2		<b>Estimated Present Water Level Width:</b>		21.2			
	<b>Estimated High Water Level Clearance:</b>		3.7							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$300.00	Clean the deck					
	2	Required	Medium	\$300.00	Repair impact damage to curb, see photo					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor the running plank deterioration								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The #7 pile on the #2 abutment is rotted through								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K445	Site #:	K445	Road Name:	PASAYTEN RIVER	Inspection Date:	2016/07/05
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2032	Replacement Date for light vehicle traffic (year):		2032
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		45	Design Vehicle Config.: Other
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 3:54:36PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K446	Site #:	K446	Road Name:	PASAYTEN RIVER	Inspection Date:	2015/06/26
KM:	20.39	User km:	21.00	Crossing Name:	Pasayten R	Next Inspection Date:	2018/06/26
Project File ID #:	7573	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	30.5	# Spans:	1	Span Length(s) (metres):	29.9		
UTM Zone:	10	UTM Easting:	679462	UTM Northing:	5433116		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2006		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Poor	Low at both approaches, grader could raise material

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K446	Site #:	K446	Road Name:	PASAYTEN RIVER	Inspection Date:	2015/06/26			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.1		Estimated Present Water Level Width:		15.5			
	Estimated High Water Level Clearance:		2.7							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$300.00	Low at both approaches, grader could raise material					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 297 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K446	Site #:	K446	Road Name:	PASAYTEN RIVER	Inspection Date:	2015/06/26	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2065	Replacement Date for light vehicle traffic (year):		2070	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 2:28:41PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 298 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K447	Site #:	K447	Road Name:	PASAYTEN RIVER	Inspection Date:	2015/06/26
KM:	20.79	User km:	21.30	Crossing Name:	Peeve Cr	Next Inspection Date:	2018/06/26
Project File ID #:	7573	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	679528	UTM Northing:	5432771		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Brush out around the bridge
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Low fill at the #2 approach

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 299 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K447	Site #:	K447	Road Name:	PASAYTEN RIVER	Inspection Date:	2015/06/26			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.4		Estimated Present Water Level Width:		3.5			
	Estimated High Water Level Clearance:		1.4							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$200.00	Brush out around the bridge					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 300 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K447	Site #:	K447	Road Name:	PASAYTEN RIVER	Inspection Date:	2015/06/26
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2065	Replacement Date for light vehicle traffic (year):		2070
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 2:32:37PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 301 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K448	Site #:	K448	Road Name:	PASAYTEN RIVER	Inspection Date:	2016/07/07
KM:	24.79	User km:	25.50	Crossing Name:	Upper Peeve Cr	Next Inspection Date:	2019/07/07
Project File ID #:	7573	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	681832	UTM Northing:	5431695		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:	May need quad on next inspection due to brush if not brushed out. Jan 2014 DA.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	The grade at the #2 is 14%
Bridge Ahead Signs Missing	1	The #1 is missing and the #2 has fallen over
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Surface water likely flows onto both ends of the bridge

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 302 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K448	<b>Site #:</b>	K448	<b>Road Name:</b>	PASAYTEN RIVER	<b>Inspection Date:</b>	2016/07/07			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	One riser has failed see photo, the curbs and some risers have significant rot. Minimum replace the failed riser consider full replacement of curbs and risers.								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		8.1			
	<b>Estimated High Water Level Clearance:</b>		1.3							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$300.00	One riser has failed see photo, the curbs and some risers have significant rot. Minimum replace the failed riser consider full replacement of curbs and risers. Requires 1-2' 10x10" riser block					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor curb deterioration								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	One riser has failed see photo, the curbs and some risers have significant rot. Minimum replace the failed riser consider full replacement of curbs and risers.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 303 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K448	Site #:	K448	Road Name:	PASAYTEN RIVER	Inspection Date:	2016/07/07	
GENERAL	PEng's Comment:	Most likely all the curbs will need to be done shortly. But as mentioned, I would replaced the failed riser block prior to any industrial use.						
GENERAL	Replacement Date for full log haul traffic (year):			2065	Replacement Date for light vehicle traffic (year):		2070	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 12:04:02PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K512	Site #:	K512	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
KM:	1.67	User km:	0.10	Crossing Name:	Yalakom #1	Next Inspection Date:	2017/09/08
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Binwall		
Total Length (metres):	16.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	553487	UTM Northing:	5640370		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1988		
Access:							

### ABUTMENTS

Bearings	Good	erosion not yet under bearings on left. LT: debris appears to have accumulated around steel bgr area.
Binwall	Fair	fill sucked out on left
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Poor	due to left fill in bin
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	steep and tight on right
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	n/a	none
Road Surface	Good	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 305 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K512	Site #:	K512	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
--------------	------	---------	------	------------	---------------	------------------	------------

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Poor	Add wear surface before you damage the sub deck!
Running Planks	Unrated	there are none! Running on treated sub deck
Sub Deck	Good	treated
Ties	Good	treated

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Unrated	none
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

### CHANNEL

Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	9.0
Estimated High Water Level Clearance:	2.0		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$2,000.00	add approach barriers
2	Required	High	\$5,000.00	Add running planks
3	Required	Medium	\$500.00	Clean debris from bearing areas.

### MONITORS

#	Description
1	Monitor fill in bin on left

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 306 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K512	Site #:	K512	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08	
GENERAL	Inspector's Comment:	Add running planks before you damage the treated sub deck!!!!!!  LT: (2014/12/22): Debris appears to have accumulated in bearing areas although photos are not that conclusive.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2033	Replacement Date for light vehicle traffic (year):		2038	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/22/2014 4:58:08PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 307 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K911	Site #:	K911	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
KM:	4.41	User km:	2.80	Crossing Name:	Shulaps Cr	Next Inspection Date:	2017/09/08
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Gravel		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	12.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	551999	UTM Northing:	5642063		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1996		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Poor	posts not coated
Caps or Sills	Good	minor concrete damage, likely hit during construction
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	tight corner on left
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	1	cannot replace due to rotten guardrail
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	none
Posted Load Rating	n/a	none
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K911	Site #:	K911	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Poor	rotten. LT: damaged. excessive gravel graded up against curbs.								
Deck Joints	Unrated	gravel over								
Grout Pockets	Not Applicable									
Gravel Surface	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Fair									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Unrated	gravel over								
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		1.8							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	2	Required	High	\$2,000.00	add approach barriers					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	guardrails not replaced, spalling minor and likely construction damage, riprap seems okay								
		LT (2014/12/22): Reviewed. Curb/Block replacement required. Excessive gravel up against curbs, curbs beginning to fail.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 309 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K911	Site #:	K911	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2041	Replacement Date for light vehicle traffic (year):		2046
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/22/2014 2:52:32PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K514	Site #:	K514	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20
KM:	9.22	User km:	7.70	Crossing Name:	Yalakom #3	Next Inspection Date:	2018/06/20
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	20.0	# Spans:	1	Span Length(s) (metres):	19.4		
UTM Zone:	10	UTM Easting:	549323	UTM Northing:	5645116		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Fair	Rubbers are compressed and bulging out the front
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Traffic is damaging curb @ the #1 approach, there is lots room to make the turn without hitting the curb.
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K514	<b>Site #:</b>	K514	<b>Road Name:</b>	YALAKOM RIVER	<b>Inspection Date:</b>	2015/06/20
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<b>Concrete Deck</b>	Good	
<b>Curb Rail/Blocks/Posts</b>	Fair	Impact damage @ #1 approach
<b>Deck Joints</b>	Fair	Some cracking and dropping out from the bottom, does not appear to be open to deck top
<b>Grout Pockets</b>	Good	
<b>Hardware</b>	Fair	Curbs are loose
<b>Hand Rails/Walkouts</b>	Not Applicable	
<b>Overall Deck Condition</b>	Good	
<b>Running Surface</b>	Good	

### SUPERSTRUCTURE

#### Span 1

<b>Bracing</b>	Good	
<b>Diaphragms</b>	Good	
<b>Girders</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Under Trussing</b>	Not Applicable	

<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.5	<b>Estimated Present Water Level Width:</b>	11.9
	<b>Estimated High Water Level Clearance:</b>	2.4		

<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									

<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>
	1	Required	Medium	\$2,000.00	Impact damage at the #1 approach upstream side. still functional. Requires 3-36" and 2-24" risers and tighten all curbs
	2	Required	Medium	\$5,000.00	recommend addition of no-post approach barriers to deter users from contacting end of curb rails. Align with inside edge of curb rails.
	3	Required	Medium	\$4,000.00	Add new deck joint seals, either para-seal or compression seals are recommended. User should measure deck gap sizing, then discuss with Rapid span or engineering branch to determine appropriate replacement product.

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 312 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K514	Site #:	K514	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20	
MONITORS	#	Description						
	1	Some of the deck joints have cracked and fallen out, does not appear to extend to the top.						
	2	Bulging compressed rubber bearing pads						
GENERAL	Inspector's Comment:	Some of the deck joints have cracked and fallen out, does not appear to extend to the top. Curbs require attention						
GENERAL	PEng's Comment:	I think this structure is a candidate for deck joint (non-composite deck panels) replacement to ensure less sedimentation to the channel. See detailed repair item #3.						
GENERAL	Replacement Date for full log haul traffic (year):		2057		Replacement Date for light vehicle traffic (year):		2062	
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68	
					Design Vehicle Config.:		L75	
	Professional Inspection Required?		No		Report Status:			Reviewed By Drew Alway on 2/12/2016 2:11:04PM

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 313 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1131	Site #:	K1131	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20
KM:	9.86	User km:	8.20	Crossing Name:	Junction Cr	Next Inspection Date:	2018/06/20
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	10.6	# Spans:	1	Span Length(s) (metres):	10		
UTM Zone:	10	UTM Easting:	548910	UTM Northing:	5645493		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:	UTMs converted from Lat/Long- check in field.						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 314 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1131	<b>Site #:</b>	K1131	<b>Road Name:</b>	YALAKOM RIVER	<b>Inspection Date:</b>	2015/06/20			
<b>Curb Rail/Blocks/Posts</b>	Poor	Impact damage and rot @ the #2 approach upstrea side.								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Fair	Loose curb bolts								
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		4.1			
	<b>Estimated High Water Level Clearance:</b>		1.3							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$2,500.00	Impact damage and rot @ the #2 approach upstrea side. Requires 2-36" and 2-24" and 1- 11' 10x10" timber. Curbs also need to be tightened.					
	4	Required	Medium	\$10,000.00	change out the timber rail for an HSS retro fit rail. This will decrease maintenance cost in the long run.  Add approach no-post barriers, with transitions and bullnose. Ensure these are placed in line with the inside edge of the curb system.					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 315 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1131	Site #:	K1131	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20
GENERAL	PEng's Comment:	See repairs listed regarding rail works. These concrete slab girders are good candidates for HSS rail retrofits.					
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status: Reviewed By Drew Alway on 2/11/2016 12:53:42PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 316 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K517	Site #:	K517	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
KM:	26.04	User km:	24.80	Crossing Name:	Yalakom #6	Next Inspection Date:	2017/09/08
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	537689	UTM Northing:	5653632		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	tight corner
Bridge Ahead Signs Missing	2	
Brushing Required	No	soon
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	n/a	none
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 317 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K517	Site #:	K517	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Fair	soft but intact. LT: drill results? percent rot?								
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Unrated	none								
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		7.0			
	Estimated High Water Level Clearance:		2.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Low	\$2,000.00	add approach barriers					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	some rails replaced.								
		LT (2014/12/22): Reviewed. Previous inspection (2011) noted to replace curbs and rails. Spot repairs were completed. Inspector should drill and indicate % rot on remaining sections.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 318 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K517	Site #:	K517	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2060	Replacement Date for light vehicle traffic (year):		2065
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/22/2014 2:31:46PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K518	Site #:	K518	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
KM:	28.32	User km:	26.90	Crossing Name:	Yalakom #7	Next Inspection Date:	2017/09/08
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	20.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	537203	UTM Northing:	5654882		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1996		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Fair	some rust showing through
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	can only see right
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	drain onto deck, LT: difficult to see from photos, consider grading? or waterbar?
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	n/a	none
Road Surface	Good	

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 320 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K518	<b>Site #:</b>	K518	<b>Road Name:</b>	YALAKOM RIVER	<b>Inspection Date:</b>	2014/09/08			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	silt rails rotten								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Unrated	none								
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.0		<b>Estimated Present Water Level Width:</b>		5.0			
	<b>Estimated High Water Level Clearance:</b>		3.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Complete	High	\$1,000.00	add downstream guidelogs					
	2	Complete	High	\$500.00	replace silt curbs					
	3	Complete	Medium	\$500.00	LT: clean accumulated debris from LBUS bearing area.					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	deck panel monitor is fine.								
		LT (2014/12/22): repair added: remove debris from LBUS bearing. Photos appear to be mixed up. Check with inspector.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 321 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K518	Site #:	K518	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2041	Replacement Date for light vehicle traffic (year):		2046	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/22/2014 12:48:48PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 322 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K910	Site #:	K910	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
KM:	30.69	User km:	29.50	Crossing Name:	Yalakom Cr	Next Inspection Date:	2017/09/08
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Gravel		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Concrete Cast in Place		
Total Length (metres):	11.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	535902	UTM Northing:	5656745		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1996		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	cannot see
Ballast Wall	Good	
Concrete Cast in Place	Not Applicable	assuming cap is precast
Corrosion Protection	Unrated	cannot see
Caps or Sills	Good	can only see concrete cap and then riprap
Fill	Good	
Hardware	Unrated	cannot see
Piles or Posts	Unrated	cannot see
Riprap	Fair	movement at right bank but all still functioning and seems stable
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	LT: light brushing required, beginning to obscure signs and growing over deck.
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	n/a	none
Road Surface	Fair	potholes

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 323 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K910	Site #:	K910	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08
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### DECK

#### Span 1

Concrete Deck	Unrated	gravel over, LT spoty coverage, recommend complete removal to inspect joints.
Curb Rail/Blocks/Posts	Fair	risers starting to decay
Deck Joints	Unrated	gravel over, looks okay from under
Grout Pockets	Not Applicable	
Gravel Surface	Fair	potholes
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	gravel over

### CHANNEL

Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	2.0
Estimated High Water Level Clearance:	1.0		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description
2	Required	Low	\$1,000.00	LT: suggest to remove spotty coverage of gravel deck to inspect slab connectors and joints.
3	Required	Medium	\$500.00	LT: light brushing required. Beginning to grow over deck and obscure signs.

### MONITORS

#	Description
1	LT: monitor RB rip rap.

### GENERAL

Inspector's Comment:	riprap not fixed or changed.  LT (2014/12/22): Light brushing required - beginning to obscure signs and growing over deck. Deficient gravel wearing surface. Consider complete removal to inspect joints.
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K910	Site #:	K910	Road Name:	YALAKOM RIVER	Inspection Date:	2014/09/08	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2041	Replacement Date for light vehicle traffic (year):		2046	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/22/2014 5:24:06PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K519	Site #:	K519	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20
KM:	38.71	User km:	37.50	Crossing Name:	Yalakom #8	Next Inspection Date:	2017/06/20
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Gravel		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	11.0	# Spans:	1	Span Length(s) (metres):	10.4		
UTM Zone:	10	UTM Easting:	531024	UTM Northing:	5662040		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1996		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Not Applicable	Covered in gravel
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 326 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K519	Site #:	K519	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20			
Curb Rail/Blocks/Posts	Fair	Some rot , minimal in risers								
Deck Joints	Not Applicable	Covered in gravel								
Grout Pockets	Not Applicable									
Gravel Surface	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Not Applicable	Covered in gravel								
CHANNEL	Estimated Present Water Level Depth:		0.4		Estimated Present Water Level Width:		4.0			
	Estimated High Water Level Clearance:		1.3							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 327 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K519	Site #:	K519	Road Name:	YALAKOM RIVER	Inspection Date:	2015/06/20	
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):			2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/11/2016 3:50:08PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 328 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K880	Site #:	K880	Road Name:	YALAKOM RIVER	Inspection Date:	2016/06/14
KM:	16.65	User km:	57.00	Crossing Name:	Beaver Dam	Next Inspection Date:	2019/06/14
Project File ID #:	7649	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	10.6	# Spans:	1	Span Length(s) (metres):	10		
UTM Zone:	10	UTM Easting:	544287	UTM Northing:	5648568		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Fair	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Poor	Low velocity creek, the toe of the fill has not been protected. Very little placed
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Not aligned well vertically, fill was used to blend the road grade to the bridge
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 329 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K880	<b>Site #:</b>	K880	<b>Road Name:</b>	YALAKOM RIVER	<b>Inspection Date:</b>	2016/06/14	
<b>Concrete Deck</b>	Good	Where visible at the #2 end						
<b>Curb Rail/Blocks/Posts</b>	Poor	Some impact damage and elevated rot values in risers and curb rail						
<b>Deck Joints</b>	Good							
<b>Grout Pockets</b>	Not Applicable							
<b>Hardware</b>	Fair	2 bent curb bolts						
<b>Hand Rails/Walkouts</b>	Not Applicable							
<b>Overall Deck Condition</b>	Fair	Will require repair soon						
<b>Running Surface</b>	Good	Grade of deck gravel goes from 12" @ the #1 to 0 at the #2 approach						
<b>SUPERSTRUCTURE</b>								
<b>Span 1</b>								
<b>Bracing</b>	Not Applicable							
<b>Hardware</b>	Not Applicable							
<b>Welded/grouted shear connect</b>	Good	Only visible at the end of the bridge#2						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		3.6	
	<b>Estimated High Water Level Clearance:</b>		2.6					
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> Yes	<b>Aggradation:</b> No
	<b>Comment:</b>	Creek channel very grown in and brush and woody debris collecting under the bridge. Some scouring along the toe of fill.						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>			
	1	Complete	High	\$3,200.00	The structure has some curb issues and rot values vary through out. Some impact damage at the downstream side #2 end. Still functional but should be repaired. Best advice replace all. 616 BF of 10x10" curb rail and 416 BF of riser blocks			
	2	Complete	High	\$300.00	Brush out bridge			
	4	Complete	Medium	\$1,000.00	Replaced damaged curbs, bracket and riser blocks for one side. Including grader strip replacement.			
<b>MONITORS</b>	<b>#</b>	<b>Description</b>						
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The structure has some curb issues and rot values vary through out. Some impact damage at the downstream side #2 end. Still functional but should be repaired. Best advice replace all. Fill is used to blend the grade of the road to the bridge, 12" at the #1 end to 0 at the other end.						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 330 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K880	Site #:	K880	Road Name:	YALAKOM RIVER	Inspection Date:	2016/06/14
GENERAL	PEng's Comment: Don't forget the grader strip will need replacement.						
GENERAL	Replacement Date for full log haul traffic (year):			2057	Replacement Date for light vehicle traffic (year):		2062
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 11:19:41AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 331 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K838	Site #:	K838	Road Name:	-BURKHOLDER B	Inspection Date:	2016/06/14
KM:	0.05	User km:	0.00	Crossing Name:	Yalakom B	Next Inspection Date:	2019/06/14
Project File ID #:	7649	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	16.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	540522	UTM Northing:	5651615		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1994		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Fair	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	Poor gradation at the #2 and steep @ #1
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Junction at the #1 or low chain approach
Bridge Ahead Signs Missing	0	The #2 has a sign, the #1 likely does not require one
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Small sink hole at the #2, a grader could fill it in.

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 332 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K838	<b>Site #:</b>	K838	<b>Road Name:</b>	-BURKHOLDER B	<b>Inspection Date:</b>	2016/06/14			
<b>Concrete Deck</b>	Not Applicable									
<b>Curb Rail/Blocks/Posts</b>	Poor		Extensive rot particularly on the downstream side							
<b>Deck Joints</b>	Not Applicable									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair									
<b>Running Surface</b>	Good		Gravel, pushed up on side to a max depth of 200 mm							
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>			0.3		<b>Estimated Present Water Level Width:</b>		9.3		
	<b>Estimated High Water Level Clearance:</b>			2.2						
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$4,000.00	The riser blocks are in poor condition partly due to gravel running surface. Consider replacement soon. Will require 1900 BF to replace all with 10x10" timber					
	2	Required	Low	\$150.00	Brush out bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The riser blocks are in poor condition partly due to gravel running surface. Consider replacement soon								

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 333 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K838	Site #:	K838	Road Name:	-BURKHOLDER B	Inspection Date:	2016/06/14
GENERAL	PEng's Comment: Shop drawings not on file yet but record dwgs requested from RSS and WCP. As built information on file notes L75 GA design and PO.						
GENERAL	Replacement Date for full log haul traffic (year):			2044	Replacement Date for light vehicle traffic (year):		2049
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Reviewed By Drew Alway on 1/25/2017 3:56:03PM			

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 334 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO 3470	Site #:	K1586	Road Name:	YALAKOM-LAKE LA MARE	Inspection Date:	2014/09/08
KM:	1.30	User km:		Crossing Name:	Shulaps Cr	Next Inspection Date:	2017/09/08
Project File ID #:	7649	Br.	07	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	15		
UTM Zone:	10	UTM Easting:	551100	UTM Northing:	5642017		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:			
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	steep on left onto bridge. LT: sediment is being carried onto bridge deck.
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	n/a	none
Road Surface	Fair	potholes and some erosion

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 335 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	WO 3470	<b>Site #:</b>	K1586	<b>Road Name:</b>	YALAKOM-LAKE LA MARE	<b>Inspection Date:</b>	2014/09/08
<b>Concrete Deck</b>	Good						
<b>Curb Rail/Blocks/Posts</b>	Good						
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Fair	LT: excessive sediment deposited onto bridge deck from LB approach.					
<b>Running Surface</b>	Fair	LT: excessive sediment deposited onto bridge deck from LB approach.					
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Fair						
<b>Diaphragms</b>	Unrated	none					
<b>Girders</b>	Good						
<b>Hardware</b>	Good						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		6.0
	<b>Estimated High Water Level Clearance:</b>		2.0				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Complete	Low	\$2,000.00	add approach barriers		
	2	Complete	Medium	\$1,000.00	LT: grade LB approach or install waterbar to control sediment being carried onto bridge deck. Clean debris off deck.		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	bearing pads look fine.					
		LT (2014/12/22): repair added to control LB runoff to prevent sediment being deposited onto deck. Clean deck.					

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 336 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO 3470	Site #:	K1586	Road Name:	YALAKOM-LAKE LA MARE	Inspection Date:	2014/09/08
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2046	Replacement Date for light vehicle traffic (year):		2051
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/22/2014 11:52:43AM	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 337 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K351	<b>Site #:</b>	K351	<b>Road Name:</b>	SALMON RIVER	<b>Inspection Date:</b>	2014/09/19
<b>KM:</b>	0.14	<b>User km:</b>	27.60	<b>Crossing Name:</b>	Salmon R	<b>Next Inspection Date:</b>	2017/09/19
<b>Project File ID #:</b>	7666	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Cast in Place			<b>Abutments (Left/Right): (looking downstream)</b>	Concrete Precast		
<b>Total Length (metres):</b>	6.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	11	<b>UTM Easting:</b>	288943	<b>UTM Northing:</b>	5578248		
<b>Inspector Name:</b>	Ben Pellett			<b>Year Superstructure Installed:</b>	1983		
<b>Access:</b>							

### ABUTMENTS

Bearings	Unrated	Not visible
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Not Applicable	
Wing Wall	Good	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 338 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K351	Site #:	K351	Road Name:	SALMON RIVER	Inspection Date:	2014/09/19			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Not Applicable									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good	LT: Fair - Sand and gravel accumulated on deck.								
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.1		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		2.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	LT: Gravel bar in the middle of upstream channel. Few debris upstream of LB abutment.								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Low	\$1,000.00	Clean deck					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Gravel to be removed from deck.								
		LT (2014/12/17) Reviewed.								

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 339 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K351	Site #:	K351	Road Name:	SALMON RIVER	Inspection Date:	2014/09/19
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2023	Replacement Date for light vehicle traffic (year):		2028
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/17/2014 7:54:25PM	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 340 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K637	Site #:	K637	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2016/06/13
KM:	5.20	User km:	14.40	Crossing Name:	Hawthorn Cr	Next Inspection Date:	2019/06/13
Project File ID #:	8059	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Treated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	14.0	# Spans:	1	Span Length(s) (metres):	13.4		
UTM Zone:	10	UTM Easting:	520416	UTM Northing:	5621255		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2004		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 341 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K637	<b>Site #:</b>	K637	<b>Road Name:</b>	KINGDOM LAKE BR 01	<b>Inspection Date:</b>	2016/06/13			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair									
<b>Running Planks</b>	Fair	Punky and rot pockets, will likely not take much industrial haul.								
<b>Sub Deck</b>	Good									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.7		<b>Estimated Present Water Level Width:</b>		7.0			
	<b>Estimated High Water Level Clearance:</b>		1.9							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$3,200.00	Punky and rot pockets, will likely not take much industrial haul. Full deck will require 1794BF of 3" planks					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Will soon require running decking replacement, if used for industrial Haul								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K637	Site #:	K637	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2016/06/13	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2054	Replacement Date for light vehicle traffic (year):		2054	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/18/2017 1:41:39PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K638	Site #:	K638	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2016/06/13
KM:	0.00	User km:	19.10	Crossing Name:	Piebiter Cr	Next Inspection Date:	2019/06/13
Project File ID #:	8059	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	524112	UTM Northing:	5618370		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2004		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Settled at both approaches , grade up would fix

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 344 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K638	<b>Site #:</b>	K638	<b>Road Name:</b>	KINGDOM LAKE BR 01	<b>Inspection Date:</b>	2016/06/13			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Fair	Will require at minimum a patch of failed run planks, recommend new top deck								
<b>Running Planks</b>	Poor	Some have failed others with high rot values, consists of two 5' running strips								
<b>Sub Deck</b>	Fair									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		5.2			
	<b>Estimated High Water Level Clearance:</b>		2.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$100.00	Settled at both approaches , grade up would fix					
	2	Required	High	\$2,800.00	Some have failed others with high rot values, consists of two 5' running strips. Full replacement would require 1500 BF of 3" planks					
	3	Required	Medium	\$200.00	Brush out bridge					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K638	Site #:	K638	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2016/06/13	
GENERAL	Inspector's Comment:	Structure labeling is WO 1628 McGillvary 15.24 m. L-75 Mar98 Bridge requires deck repairs						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2054	Replacement Date for light vehicle traffic (year):		2059	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/18/2017 3:16:35PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 346 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1006	<b>Site #:</b>	K1006	<b>Road Name:</b>	KINGDOM LAKE BR 01	<b>Inspection Date:</b>	2016/06/13
<b>KM:</b>	25.28	<b>User km:</b>	24.00	<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2019/06/13
<b>Project File ID #:</b>	8059	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Precast		
<b>Total Length (metres):</b>	18.3	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	525404	<b>UTM Northing:</b>	5614432		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1997		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Fair	Superstructure is not pinned to the sill or blocks
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Concrete Precast</b>	Good	Lock Blocks
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Fair	None on the #2 and the #1 is only resting on a single timber
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Fair	
<b>Wing Wall</b>	Good	Lock blocks

### APPROACHES

<b>Alignment</b>	Poor	The bridge is not well aligned vertically to the approaches, the bridge is unnecessarily sloped down toward the high chain approach, #1
<b>Bridge Ahead Signs Missing</b>	2	
<b>Brushing Required</b>	Yes	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	
<b>Road Surface</b>	Fair	Uneven at bridge ends

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 347 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1006	Site #:	K1006	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2016/06/13
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Fair	
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.4	Estimated Present Water Level Width:	5.3
	Estimated High Water Level Clearance:	1.9		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Some woody debris upstream of the bridge								

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$300.00	Brush out bridge
	2	Required	Low	\$500.00	Install bridge ahead signs

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1006	Site #:	K1006	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2016/06/13	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2045		Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 1:33:37PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1007	Site #:	K1007	Road Name:	KINGDOM LAKE BR 01	Inspection Date:	2015/06/17
KM:	25.71	User km:	24.40	Crossing Name:	Cadwallader Cr	Next Inspection Date:	2018/06/17
Project File ID #:	8059	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	525227	UTM Northing:	5614038		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Poor	No connection girder to lock block
Bracing	Not Applicable	
Ballast Wall	Poor	Not connected to the girders
Concrete Precast	Poor	Lock Block abutment, blocks supporting the girders are independant of the oposing bearing. The supporting block is resting on a block that is length ways to the creek, which in turn is resting on two blocks perpendicular to the creek. Resulting in 3 blocks per bearing. They are settling and uneven.
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	None
Fill	Poor	Silty unstable
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Tight corner at the High chain
Bridge Ahead Signs Missing	2	Requires signs
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	1	
Fender Condition	None	
Posted Load Rating	20	Bridge was posted at this inspection

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1007	<b>Site #:</b>	K1007	<b>Road Name:</b>	KINGDOM LAKE BR 01	<b>Inspection Date:</b>	2015/06/17
<b>Road Surface</b>		Poor		Drop from deck to settled road .3 m.			
<b>DECK</b>							
<b>Span 1</b>							
<b>Curb Rail/Blocks/Posts</b>	Fair		Loose, one missing washer				
<b>Deck to Girder Bolts</b>	Fair		Angleiron along flange and J clips through the deck planks				
<b>Hardware</b>	Fair						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Nails</b>	Good						
<b>Overall Deck Condition</b>	Fair						
<b>Running Planks</b>	Good						
<b>Sub Deck</b>	Unrated		None				
<b>Ties</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Not Applicable						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		6.0
	<b>Estimated High Water Level Clearance:</b>		1.5				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> Yes
	<b>Comment:</b>	Large tree has fallen onto deck.					
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Required	Low	\$30,000.00	Bridge should be removed and rebuilt for industrial haul		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
	1	Lock Block abutment, blocks supporting the girders are independant of the oposing bearing. The supporting block is resting on a block that is length ways to the creek, which in turn is resting on two blocks perpendicular to the creek. Resulting in 3 blocks per bearing. They are settling and uneven. (see photo)					

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:		K1007	Site #:		K1007	Road Name:		KINGDOM LAKE BR 01	Inspection Date:		2015/06/17	
GENERAL	Inspector's Comment:	None of the issues mentioned in the previous inspections appear to have been addressed. Posted @ 20 tonnes this inspection, structure should likely be removed and rebuilt for industrial haul.										
	PEng's Comment:	maintain the load restriction posting and PEng to determine appropriate abutment design for structure rebuild if required for industrial hauling.										
GENERAL	Replacement Date for full log haul traffic (year):				2012		Replacement Date for light vehicle traffic (year):				2045	
	Current Inspection Load Rating:			20		Design Load GVW (tonnes):			68	Design Vehicle Config.:		L75
	Professional Inspection Required?			No		Report Status:		Reviewed By Drew Alway on 2/11/2016 11:13:53AM				

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1023	Site #:	K1023	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13
KM:	0.70	User km:	11.20	Crossing Name:	Cadwallader Cr	Next Inspection Date:	2019/06/13
Project File ID #:	8059	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	27.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	517993	UTM Northing:	5622074		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Fair	Unknown connection to lock blocks
Bracing	Not Applicable	
Ballast Wall	Fair	Not connected to the super structure
Concrete Precast	Good	Lock blocks
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	None
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Structure located in two curve transition, limited visibility
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1023	Site #:	K1023	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	Flange dirty
Hardware	Good	Inspected from ground visually only
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	16.1
	Estimated High Water Level Clearance:	2.2		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Some woody debris collecting under the bridge								

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Low	\$150.00	Clean flanges

MONITORS	#	Description
	1	Some woody debris collecting under the bridge
	2	The #1 upstream corner of the bridge may have settled, 5mm on a 1 m. hand level on the box diaphragm

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### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 354 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1023	Site #:	K1023	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13	
GENERAL	Inspector's Comment:	Unknown connections girder bearing plate to lock blocks and structure has no sill. It appears that the structure has settled or perhaps was built with the #1 abutment lower on the upstream side by 5 mm on a 1m. hand level. Perhaps a survey of the structure could more closely determine the levelness.						
GENERAL	PEng's Comment:	continue to monitor left abutment for further settlement, but no significant issues at this time with the bearing. Therefor safe for industrial use.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		54	Design Vehicle Config.:	L60
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 1:12:33PM		

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 355 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K639	<b>Site #:</b>	K639	<b>Road Name:</b>	KINGDOM LAKE BR 03	<b>Inspection Date:</b>	2016/06/13
<b>KM:</b>	1.25	<b>User km:</b>	12.50	<b>Crossing Name:</b>	Crazy #1	<b>Next Inspection Date:</b>	2019/06/13
<b>Project File ID #:</b>	8059	<b>Br.</b>	03	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	14.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	13.4		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	518378	<b>UTM Northing:</b>	5621673		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2003		
<b>Access:</b>	Turn @km 11.2 onKingdom Lake FSR, go.0.7 km and cross K1023 then go 0.6 km to Crazy #1 then 0.1 to Crazy #2						

### ABUTMENTS

<b>Bearings</b>	Fair	Girders are resting on the ends of the treated timber sills
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Fair	Not connected to the girders
<b>Concrete Lock Blocks</b>	Good	
<b>Corrosion Protection</b>	Good	Creosote
<b>Caps or Sills</b>	Fair	Short only extend to girder edges
<b>Fill</b>	Good	
<b>Hardware</b>	Fair	Girders pinned on outside edges to limit movement
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Good	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Good	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	g

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 356 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K639	Site #:	K639	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13			
Curb Rail/Blocks/Posts	Good									
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Good									
Overall Deck Condition	Good									
Running Planks	Good									
Sub Deck	Unrated	None								
Ties	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good	Flanges are dirty								
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		4.0			
	Estimated High Water Level Clearance:		2.4							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Woody debris collecting upstream								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Low	\$250.00	Clean girder bearing and flanges					
MONITORS	#	Description								
	1	Monitor woody debris upstream								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K639	Site #:	K639	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2056	Replacement Date for light vehicle traffic (year):		2061	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/24/2017 4:27:31PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 358 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K640	Site #:	K640	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13
KM:	1.43	User km:	12.60	Crossing Name:	Crazy #2	Next Inspection Date:	2019/06/13
Project File ID #:	8059	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	518430	UTM Northing:	5621620		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2003		
Access:	Turn @km 11.2 onKingdom Lake FSR, go.0.7 km and cross K1023 then go 0.6 km to Crazy #1 then 0.1 to Crazy #2						

### ABUTMENTS

Bearings	Fair	Compressing rotting planks at bearing particulaly #2 abutment, see photo
Bracing	Not Applicable	
Ballast Wall	Poor	Not stacked well or connected to the superstructure
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	High rot values and untreated sills, stacked 2 ( 3x12") planks, has caused some compression
Fill	Good	
Hardware	Fair	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Good	Lock block at #2

### APPROACHES

Alignment	Fair	Limited vissibility @ #1
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 359 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K640	Site #:	K640	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Some gaps up to 11cm at panel joints
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	Limited life for industrial haul
Running Planks	Fair	Punky sections and rot pockets, may not perform well under heavy industrial haul
Sub Deck	Unrated	None
Ties	Fair	

### SUPERSTRUCTURE

#### Span 1

Bracing	Fair	First diaphragm from #1 has a bent diagonal brace, see photo
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	3.0
	Estimated High Water Level Clearance:	2.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Low	\$500.00	Bent diagonal brace on superstructure

MONITORS	#	Description
	1	High rot values and untreated sills, stacked2 ( 3x12") planks, has caused some compression
	2	Deck deterioration

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 360 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K640	Site #:	K640	Road Name:	KINGDOM LAKE BR 03	Inspection Date:	2016/06/13	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:	users should plan on replacing the untreated timber sill with a proper size and treated timber sill.						
GENERAL	Replacement Date for full log haul traffic (year):			2056	Replacement Date for light vehicle traffic (year):		2061	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 9:32:41AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1344	Site #:	K1344	Road Name:	KINGDOM LAKE BR 04	Inspection Date:	2016/06/13
KM:	1.53	User km:	14.10	Crossing Name:	Plutus Cr.	Next Inspection Date:	2019/06/13
Project File ID #:	8059	Br.	04	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	18.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	519762	UTM Northing:	5620710		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:							

### ABUTMENTS

Bearings	Fair	Not conected to sills, rebar drifts through sill maybe into blocks?
Bracing	Not Applicable	
Ballast Wall	Fair	No conection to girders
Concrete Lock Blocks	Poor	Appears to only be 3 per side and not well centered under girders
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	not bearing flat at the #1 abutment, see photo, due to settling of block.
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Road ends across bridge
Bridge Ahead Signs Missing	1	Incomplete road
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 362 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1344	Site #:	K1344	Road Name:	KINGDOM LAKE BR 04	Inspection Date:	2016/06/13
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Not bevel cut on ends
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	9.8
	Estimated High Water Level Clearance:	2.2		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description
	1	Monitor settling of lock block, specifically upstream #1 abutment

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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 363 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1344	Site #:	K1344	Road Name:	KINGDOM LAKE BR 04	Inspection Date:	2016/06/13
GENERAL	Inspector's Comment:	The road ends at this bridge. The lock block abutment appears to be 3 blocks per side. The upstream of the #1 has rotated out of level back toward the approach, see photo. This has caused uneven bearing at this location. Appears new decking has been installed.					
GENERAL	PEng's Comment:	Structure has not seen much industrial traffic. Items identified are fine for monitoring at this time. Safe for industrial use.					
GENERAL	Replacement Date for full log haul traffic (year):			2056	Replacement Date for light vehicle traffic (year):		2061
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 1:56:11PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 364 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1345	<b>Site #:</b>	K1345	<b>Road Name:</b>	KINGDON-CHISM BR 05	<b>Inspection Date:</b>	2014/08/29
<b>KM:</b>	0.53	<b>User km:</b>	12.60	<b>Crossing Name:</b>	Chism Cr.	<b>Next Inspection Date:</b>	2017/08/29
<b>Project File ID #:</b>	8059	<b>Br.</b>	05	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	18.3	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	521596	<b>UTM Northing:</b>	5619900		
<b>Inspector Name:</b>	Jeremy Araki			<b>Year Superstructure Installed:</b>	2005		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Unrated	left is fine, right not built
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	1	install when finishing crossing
Delineator Missing Right <i>(approaching structure)</i>	1	
Fender Condition	None	install when finishing crossing
Posted Load Rating	n/a	none
Road Surface	Unrated	good on left, not built on right

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 365 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1345	<b>Site #:</b>	K1345	<b>Road Name:</b>	KINGDON-CHISM BR 05	<b>Inspection Date:</b>	2014/08/29			
<b>Curb Rail/Blocks/Posts</b>	Fair									
<b>Deck to Girder Bolts</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Fair									
<b>Overall Deck Condition</b>	Poor	rot								
<b>Running Planks</b>	Poor	totally rotten								
<b>Sub Deck</b>	Unrated	none								
<b>Ties</b>	Fair	fair to poor, some will require replacing								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Unrated	none								
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		3.0			
	<b>Estimated High Water Level Clearance:</b>		1.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	not sure that this is 1345, the coordinates are correct and this was the one inspected last time but it is a 60' not a 50' as in the summary.								
		Right approach is still not built, when you come to finish the crossing add guide logs or some type of approach								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1345	Site #:	K1345	Road Name:	KINGDON-CHISM BR 05	Inspection Date:	2014/08/29	
		barriers and delineators on the right side, replace the deck and likely 30% of the ties. I did not add this as a repair because the crossing is not yet completed.						
		LT (2014/1219) Reviewed.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		2055	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 3:17:32PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1342	<b>Site #:</b>	K1342	<b>Road Name:</b>	KINGDON-CHISM BR 05	<b>Inspection Date:</b>	2015/06/17
<b>KM:</b>	0.20	<b>User km:</b>	16.00	<b>Crossing Name:</b>	Cadwallader Cr	<b>Next Inspection Date:</b>	2017/06/17
<b>Project File ID #:</b>	8059	<b>Br.</b>	05	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	24.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	521714	<b>UTM Northing:</b>	5620201		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2005		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Fair	Not pinned to the sill log.
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Log/Timber Cribbs</b>	Good	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Good	
<b>Tie-backs</b>	Good	Cabled
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Good	
<b>Bridge Ahead Signs Missing</b>	2	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	None	
<b>Road Surface</b>	Good	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 368 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1342	Site #:	K1342	Road Name:	KINGDON-CHISM BR 05	Inspection Date:	2015/06/17
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.3	Estimated Present Water Level Width:	11.7
	Estimated High Water Level Clearance:	2.1		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	2	Complete	Medium	\$400.00	Lag bridge to log crib. Talked with P.Eng and since bridge hasn't moved since installation, then not required.

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 369 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1342	Site #:	K1342	Road Name:	KINGDON-CHISM BR 05	Inspection Date:	2015/06/17
GENERAL	Inspector's Comment:	Structure is still not pinned to the log crib					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):		2026		Replacement Date for light vehicle traffic (year):		2031
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68
					Design Vehicle Config.:		L75
GENERAL	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 2/11/2016 12:59:28PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 370 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K541	<b>Site #:</b>	K541	<b>Road Name:</b>	TRUAX CREEK	<b>Inspection Date:</b>	2016/06/11
<b>KM:</b>	8.45	<b>User km:</b>	8.70	<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2019/06/11
<b>Project File ID #:</b>	8060	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Box Beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	10.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	521821	<b>UTM Northing:</b>	5633617		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2001		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Good	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	Road has been deactivated on the main and the branch road is unused and overgrown
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### DECK

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 371 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K541	Site #:	K541	Road Name:	TRUAX CREEK	Inspection Date:	2016/06/11
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### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	
Deck Joints	Fair	Joints are not filled but little material is falling through at this time. If the bridge use increases perhaps filling may be required, minimal risk or damage
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	

#### CHANNEL

Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.0
Estimated High Water Level Clearance:	1.5		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$200.00	If bridge and road become active install bridge ahead signs

#### MONITORS

#	Description

#### GENERAL

Inspector's Comment:	Past inspections noted concern that deck joints should be sealed, it is this inspectors opinion that if any material is falling through it is very minimal. Given that the road is now deactivated on one branch and unused on the other further diminishes the reported problem. The road into this structure is overgrown with numerous small slides and material ravling onto the road.
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 372 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K541	Site #:	K541	Road Name:	TRUAX CREEK	Inspection Date:	2016/06/11	
GENERAL	PEng's Comment:	The repair commented on by the inspector, is already listed as low priority						
GENERAL	Replacement Date for full log haul traffic (year):			2060	Replacement Date for light vehicle traffic (year):		2065	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 2:43:21PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 373 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K543	Site #:	K543	Road Name:	TRUAX CREEK	Inspection Date:	2014/08/30
KM:	10.05	User km:	9.70	Crossing Name:	Truax Cr	Next Inspection Date:	2016/08/30
Project File ID #:	8060	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	10.5	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	521769	UTM Northing:	5632102		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1993		
Access:	to be deactivated in 2013. DA Deactivated in 2015. SS						

### ABUTMENTS

Bearings	Fair	
Bracing	Not Applicable	
Ballast Wall	Fair	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	
Fill	Good	
Hardware	Fair	
Log/Timber Cribbs	Fair	still intact
Piles or Posts	Not Applicable	
Riprap	Not Applicable	
Tie-backs	Fair	
Wing Wall	Fair	downstream side only

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	0	Posted as 0 and closed
Road Surface	Fair	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 374 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K543	Site #:	K543	Road Name:	TRUAX CREEK	Inspection Date:	2014/08/30
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Poor	rotten
Deck to Girder Bolts	Fair	
Hardware	Poor	loose and old
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Poor	rotten
Running Planks	Poor	rotten
Sub Deck	Unrated	none
Ties	Poor	rotten

### STRINGERS

#### Span 1

Log Curbs	Poor	rotten
Needle Beam(s) and Shims	Poor	rotten, there are three, not toughing all stringers

### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	3.0
Estimated High Water Level Clearance:	0.5		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description

### MONITORS

#	Description

### GENERAL

Inspector's Comment:	Posted as closed already. Stringers 1, 4, and 7 have failed in shear atright abutment. Bridge is still upright. Still poses a risk of failing if someone ignores the signs. Suggest removing for liability. Not much environmental liability since its all wood with no gravel fill. I did not put any of the missing signs or anything as a repair or monitor because the bridge is to be removed. Since it is already failing I suggest to remove it soon or it will be in the creek if someone drives on it. It is not blocked off. If nobody drive on it it will likely fail in winter under snow load. Not sure when that will happen but it could be 1-10 years out??
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 375 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K543	Site #:	K543	Road Name:	TRUAX CREEK	Inspection Date:	2014/08/30
LT (2014/12/22): Agree with inspector's recommendation to remove bridge for liability.							
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2008	Replacement Date for light vehicle traffic (year):		2012
	Current Inspection Load Rating:		0	Design Load GVW (tonnes):			Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/23/2014 11:07:05AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 376 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K995	Site #:	K995	Road Name:	SWAKUM-HELMER	Inspection Date:	2016/09/16
KM:	1.09	User km:	1.00	Crossing Name:	Clapperton Cr	Next Inspection Date:	2019/09/16
Project File ID #:	8071	Br.	02	Forest District:	Cascades Natural Resource District		
Culvert Type:	Elliptical			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	2,300			Outlet Cover (mm):	2,500		
Footing Type:				Gradient (%):	0.5		
Culvert Length (metres):	9.0	Opening Height (mm):	1,100	Opening Width (mm):	2,200		
UTM Zone:	10	UTM Easting:	666925	UTM Northing:	5576249		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1989		
Access:	Culvert is located approximately 1 km. from the Helmer interchange off the Coquihalla hwy. Culvert is approximately 200 m. below the Helmer Lake dam.						

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	No access into culvert
Coating	Fair	Some rust
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Fair	Not a lot of erosion protection, some erosion of head fills to road edge
Inlet	Good	
Outlet	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 377 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K995	Site #:	K995	Road Name:	SWAKUM-HELMER	Inspection Date:	2016/09/16			
Overall	Good									
Riprap	Fair	More rip rap on the outlet than the inlet. controlled flows								
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	2.1						
	Estimated High Water Level Clearance:	0.7								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Continue to monitor head wall erosion								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):	2025	Replacement Date for light vehicle traffic (year):	2030						
	Current Inspection Load Rating:	64	Design Load GVW (tonnes):	0	Design Vehicle Config.:					
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 2/6/2017 3:15:11PM						

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 378 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K539A	<b>Site #:</b>	K539	<b>Road Name:</b>	SLIM CREEK	<b>Inspection Date:</b>	2014/08/30
<b>KM:</b>	9.33	<b>User km:</b>	9.30	<b>Crossing Name:</b>	Roxey Cr	<b>Next Inspection Date:</b>	2017/08/30
<b>Project File ID #:</b>	8151	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	15.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	15		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	504540	<b>UTM Northing:</b>	5640514		
<b>Inspector Name:</b>	Jeremy Araki			<b>Year Superstructure Installed:</b>	2013		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Excellent	good gap btwn slabs and cap
<b>Bracing</b>	Unrated	cannot see and bracing
<b>Ballast Wall</b>	Excellent	integrated cap/wall
<b>Corrosion Protection</b>	Not Applicable	onlt concrete showing
<b>Caps or Sills</b>	Excellent	
<b>Fill</b>	Poor	due to failure on left downstream corner, see comments
<b>Hardware</b>	Not Applicable	
<b>Piles or Posts</b>	Not Applicable	can't see if its an invert T or has posts and pads
<b>Riprap</b>	Poor	good other than the failure
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Poor	bad corner
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left (approaching structure)</b>	0	
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	Excellent	new no posts barriers
<b>Posted Load Rating</b>	n/a	not posted
<b>Road Surface</b>	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 379 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K539A	<b>Site #:</b>	K539	<b>Road Name:</b>	SLIM CREEK	<b>Inspection Date:</b>	2014/08/30			
<b>Concrete Deck</b>	Excellent									
<b>Curb Rail/Blocks/Posts</b>	Excellent	new HSS								
<b>Deck Joints</b>	Excellent	grouted seams								
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Excellent									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Excellent									
<b>Running Surface</b>	Excellent									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Excellent									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.3	<b>Estimated Present Water Level Width:</b>		4.0					
	<b>Estimated High Water Level Clearance:</b>	0.0								
<b>HAZARDS</b>	<b>High Water:</b>	Yes	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	Yes	<b>Aggradation:</b>	No
	<b>Comment:</b>	steep bouldery stream with low clearance bridge								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	High	\$5,000.00	Build retaining wall on left downstream side, see comments					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Newish install. Riprap failure on right downstream side at corner of bridge. Really steep down into creek. One boulder and some fill went into the creek. Some riprap left hanging. Suggest small GRS wall. Bring 5 forms and half a roll of Armtect855 to fix.								
		LT (2014/12/22): Updated load rating to 64 according to BCL-625 bridge label. I agree with inspector's recommendation to install a retaining wall at RBDS corner.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 380 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K539A	Site #:	K539	Road Name:	SLIM CREEK	Inspection Date:	2014/08/30
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2058	Replacement Date for light vehicle traffic (year):		2063
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		63	Design Vehicle Config.: BCL625
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/23/2014 10:29:55AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 381 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1311	Site #:	K1311	Road Name:	SLIM CREEK	Inspection Date:	2014/08/30
KM:	18.71	User km:	18.80	Crossing Name:	Erin Creek	Next Inspection Date:	2017/08/30
Project File ID #:	8151	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	300			Outlet Cover (mm):	400		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	0.0	Opening Height (mm):	1,500	Opening Width (mm):	1,500		
UTM Zone:	10	UTM Easting:	500845	UTM Northing:	5643183		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1982		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	2	
Delineator Missing Right (approaching structure)	2	did not install as the road is not narrowed and there is no place to put them anyway
Fender Condition	None	
Posted Load Rating	n/a	not posted
Road Surface	Fair	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Fair	LT: Poor - Separating, Water flowing through and underneath culverts. (from previous inspection)
Coating	Fair	some corrosion on bottom, but not bad
Embedment Materials	Not Applicable	
Fill	Poor	too shallow over culverts
Floor	Fair	minor corrosion LT: Separation is allowing water to flow through. (from previous inspection)
Footing	Not Applicable	
Head Wall	Not Applicable	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 382 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1311	Site #:	K1311	Road Name:	SLIM CREEK	Inspection Date:	2014/08/30
--------------	-------	---------	-------	------------	------------	------------------	------------

Inlet	Poor	LT: creek alignment to inlet is poor.
Outlet	Fair	has drop so I hope this is not a fish creek
Overall	Poor	LT: Poor installation greatly decreased lifespan (previous inspection)
Riprap	Good	
Roof	Poor	both dented from rocks
Side Walls	Poor	LT: Poor - dented (previous inspection)
Trash Rack	Not Applicable	
Wiers/Backwater Structures	Not Applicable	
Wing Wall	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	1.0
	Estimated High Water Level Clearance:	0.3		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	comes in at tight angle								

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description
	1	LT: Monitor crown for failure if used for industrial haul. Caution graders regarding shallow fill over culvert.

GENERAL	Inspector's Comment:	The roof of both culvert 1 and 2 are damaged. Likely from rocks during construction. They both have about 1' of fill over their crowns so the monitor item about crushing once its active here again is valid.
		LT (2014/12/23) : Monitor crown for failure if used for industrial haul. Caution graders regarding shallow fill over culvert.

GENERAL	PEng's Comment:	

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 383 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1311	Site #:	K1311		Road Name:	SLIM CREEK		Inspection Date:	2014/08/30
GENERAL	Replacement Date for full log haul traffic (year):				2020	Replacement Date for light vehicle traffic (year):			2022
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/23/2014 10:36:04AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 384 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	PS-024	Site #:	K540	Road Name:	SLIM CREEK	Inspection Date:	2014/09/09
KM:	24.02	User km:	24.30	Crossing Name:	Slim Cr	Next Inspection Date:	2017/09/09
Project File ID #:	8151	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	21.3	# Spans:	1	Span Length(s) (metres):	21.3		
UTM Zone:	10	UTM Easting:	492966	UTM Northing:	5640720		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1985		
Access:							

### ABUTMENTS

Bearings	Excellent	
Bracing	Not Applicable	
Ballast Wall	Excellent	New
Corrosion Protection	Not Applicable	
Caps or Sills	Excellent	New, 2 logs high with 4 tiebacks
Fill	Good	LT: Sand on log sill visible on one photo.
General Abutment Condition	Excellent	new
Hardware	Good	crib pinned
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	tight curve on left and road unfinished, right has steep ramp onto bridge
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	logs
Posted Load Rating	43.5	See pic for axle weights.
Road Surface	Fair	to poor, finish road, see repair

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 385 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	PS-024	Site #:	K540	Road Name:	SLIM CREEK	Inspection Date:	2014/09/09
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Excellent	New
Deck to Girder Bolts	Excellent	New
Hardware	Excellent	New
Hand Rails/Walkouts	Not Applicable	
Nails	Excellent	New
Overall Deck Condition	Excellent	New
Running Planks	Not Applicable	New
Sub Deck	Excellent	New
Ties	Excellent	New

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Unrated	none
Girders	Fair	LT: L45 girders not bolted to ballast walls.
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	10.0
	Estimated High Water Level Clearance:	1.2		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$5,000.00	Finish left approach and build up right approach
	2	Required	Low	\$400.00	LT: Bolt ballast wall to girders.
	3	Required	Low	\$100.00	LT: Clean sand on log sills to prevent rot.

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 386 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	PS-024	Site #:	K540	Road Name:	SLIM CREEK	Inspection Date:	2014/09/09	
GENERAL	Inspector's Comment:	New install with road not yet complete  LT (2014/12/22): Updated load rating to 43 tonnes according to bridge label L-45. Repairs added: Bolt ballast wall to girders. Clean sand from sills to prevent rot.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2035		Replacement Date for light vehicle traffic (year):		2035	
	Current Inspection Load Rating:		43	Design Load GVW (tonnes):		41	Design Vehicle Config.:	L45
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/23/2014 10:54:35AM		

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 387 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K966	Site #:	K966	Road Name:	ARRASTRA CREEK	Inspection Date:	2014/06/26
KM:	2.57	User km:	2.70	Crossing Name:	Blakeburn Cr	Next Inspection Date:	2017/06/26
Project File ID #:	8479	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.0	# Spans:	1	Span Length(s) (metres):	17.6		
UTM Zone:	10	UTM Easting:	663046	UTM Northing:	5483364		
Inspector Name:	Ben Pellett			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Fair	good on left, none on right LT: No photos.
Caps or Sills	Unrated	n/a
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	LT: Good angular riprap, steep slope on right bank downstream beside bedrock outcrop.
Wing Wall	Good	

### APPROACHES

Alignment	Fair	LT: Curves at both approaches.
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	None	
Road Surface	Good	

### DECK

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 388 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K966	Site #:	K966	Road Name:	ARRASTRA CREEK	Inspection Date:	2014/06/26
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### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Excellent	new timber curbs & risers
Deck Joints	Good	
Grout Pockets	Good	
Hardware	Excellent	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	9.0
Estimated High Water Level Clearance:	2.0		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$250.00	Install bridge ahead signs

#### MONITORS

#	Description
1	Monitor riprap at RBDS.

#### GENERAL

Inspector's Comment:	No site ID tag  LT (2014/12/11): Recommend to monitor riprap at RBDS due to steeper slope. No photos of deck.
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 389 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K966	Site #:	K966	Road Name:	ARRASTRA CREEK	Inspection Date:	2014/06/26
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/17/2014 9:13:43PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 390 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1092	<b>Site #:</b>	K1092	<b>Road Name:</b>	ARRASTRA CREEK	<b>Inspection Date:</b>	2016/07/07
<b>KM:</b>	5.48	<b>User km:</b>	5.30	<b>Crossing Name:</b>	Newton Cr	<b>Next Inspection Date:</b>	2019/07/07
<b>Project File ID #:</b>	8479	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Concrete Precast		
<b>Total Length (metres):</b>	12.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	12		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	663827	<b>UTM Northing:</b>	5481495		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2000		
<b>Access:</b>	The Bridge is at 5.3 km. by markers.						

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Concrete Precast</b>	Good	
<b>Corrosion Protection</b>	Good	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Piles or Posts</b>	Good	
<b>Riprap</b>	Good	Smaller angular
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	Very tight corner requires full use of the road width.
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left (approaching structure)</b>	0	Damaged bracket and shot up.
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	n0ne	
<b>Road Surface</b>	Poor	The low chain (#1) has a soft shoulder and muddy filled ditch.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 391 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1092	Site #:	K1092	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07
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### DECK

#### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Fair	Insect infestation
Deck Joints	Good	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	4.1
	Estimated High Water Level Clearance:	2.3		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$10,000.00	Stabilize and reditch the #1 approach. To negotiate on and off the bridge requires full use of the road width at both approaches. The exposed and actively sloughing bank at the #1 approach which has a number of small springs has filled the ditch line and saturated the road shoulder. Water is running down and across the bridge. Stabilizing and reditching is required to alleviate this issue. Lock block wall may be required.

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 392 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:		K1092	Site #:		K1092	Road Name:		ARRASTRA CREEK	Inspection Date:		2016/07/07	
GENERAL	Inspector's Comment:	To negotiate on and off the bridge requires full use of the road width at both approaches. The exposed and actively sloughing bank at the #1 approach which has a number of small springs has filled the ditch line and saturated the road shoulder. Water is running down and across the bridge. Stabilizing and reditching is required to alieviate this issue.										
	PEng's Comment:	The works required are mostly road approach works and water management. This can most likely be completed by technical staff, whom can request Eng Branch assistance if required.										
GENERAL	Replacement Date for full log haul traffic (year):				2065		Replacement Date for light vehicle traffic (year):				2070	
	Current Inspection Load Rating:			68		Design Load GVW (tonnes):			68	Design Vehicle Config.:		L75
	Professional Inspection Required?			Yes	Report Status:		Reviewed By Drew Alway on 1/5/2017 3:34:25PM					

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 393 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1091	Site #:	K1091	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07
KM:	14.81	User km:	14.60	Crossing Name:	Arrastra Cr	Next Inspection Date:	2019/07/07
Project File ID #:	8479	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	661172	UTM Northing:	5475631		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2000		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	Damaged mounting angle bracket
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 394 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1091	Site #:	K1091	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Not Applicable									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		7.2			
	Estimated High Water Level Clearance:		2.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$100.00	Replace angle bracket to delineator					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 395 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1091	Site #:	K1091	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2065	Replacement Date for light vehicle traffic (year):		2070	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 1:22:04PM		

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 396 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	TKA008	<b>Site #:</b>	K1609	<b>Road Name:</b>	ARRASTRA CREEK	<b>Inspection Date:</b>	2016/07/07
<b>KM:</b>	19.10	<b>User km:</b>	19.10	<b>Crossing Name:</b>	Trib to Arrastra Cr	<b>Next Inspection Date:</b>	2019/07/07
<b>Project File ID #:</b>	8479	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	9.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	9		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	658121	<b>UTM Northing:</b>	5473033		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2013		
<b>Access:</b>	From Coalmont, turn left onto Main St., then right onto Betties Ave and follow across bridge (Tulameen River). Turn left onto Blackburn Rd road and follow to the 6km board. Turn left onto Arrastra FSR and follow to 19.1km.						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	Some cracks on the top edge at the #2 upstream
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Poor	The fill does not extend to the base of the sill, this is causing sink holes to develop at all 4 corners of the bridge
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Poor	Steep, the creek is pinched
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Tight corner, but a wide approach from both
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Fair	The #2 downstream has settled and is leaning over
Posted Load Rating	none	
Road Surface	Good	

### DECK

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 397 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	TKA008	Site #:	K1609	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07
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### Span 1

Concrete Deck	Good	Many patched locations
Curb Rail/Blocks/Posts	Fair	One missing bolt mid span upstream side due to girder concrete repairs
Deck Joints	Good	
Grout Pockets	Not Applicable	
Hardware	Fair	One bent delineator bracket at the #2 upstream
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	

CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	0.0
	Estimated High Water Level Clearance:	2.7		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$500.00	Fill and compact sinks at all bridge corners

MONITORS	#	Description
	1	Monitor settling and leaning fender at the #2 downstream

GENERAL	Inspector's Comment:	The outside concrete girders have been chipped up and repaired. This patching has resulted in one bolt missed at the mid upstream curb riser. The creek has been pinched to 0 and is steep.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	TKA008	Site #:	K1609	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07	
GENERAL	PEng's Comment:	Approach repairs are required or damage may occur to end of girders. Place and compact in more fill and manage water at a approaches. Channel is not encroached, it has just greened up with vegetation.						
GENERAL	Replacement Date for full log haul traffic (year):			2058	Replacement Date for light vehicle traffic (year):		2063	
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		64	Design Vehicle Config.:	BCL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 3:20:58PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO2125	Site #:	K1610	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07
KM:	19.50	User km:	19.50	Crossing Name:	Arrastra Cr	Next Inspection Date:	2019/07/07
Project File ID #:	8479	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated - Panels			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	15.2	# Spans:	1	Span Length(s) (metres):	14.6		
UTM Zone:	10	UTM Easting:	657676	UTM Northing:	5473072		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2000		
Access:	Princeton, travel north to Coalmont. Turn left onto Main St., then right onto Bettles Ave and follow across bridge (Tulameen River). Turn left onto Blackburn Rd road and follow to the 6km board. Turn left onto Arrastra FSR and follow to 19.5km.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	WO2125	<b>Site #:</b>	K1610	<b>Road Name:</b>	ARRASTRA CREEK	<b>Inspection Date:</b>	2016/07/07			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck to Girder Bolts</b>	Good	Clips and some are lagged								
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Nails</b>	Good									
<b>Overall Deck Condition</b>	Good									
<b>Running Planks</b>	Good									
<b>Sub Deck</b>	Good									
<b>Ties</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		8.1			
	<b>Estimated High Water Level Clearance:</b>		1.3							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$200.00	move no-post approach barriers to line up with inside edge of the timber rails.					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The structure components match the shop drawings supplied								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO2125	Site #:	K1610	Road Name:	ARRASTRA CREEK	Inspection Date:	2016/07/07	
GENERAL	PEng's Comment:	move no-post approach barriers to line up with inside edge of the timber rails.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):			
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 3:32:45PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K528	<b>Site #:</b>	K528	<b>Road Name:</b>	BRIDGE RIVER	<b>Inspection Date:</b>	2015/06/17
<b>KM:</b>	5.11	<b>User km:</b>	5.00	<b>Crossing Name:</b>	Ault Cr	<b>Next Inspection Date:</b>	2018/06/17
<b>Project File ID #:</b>	8490	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete I/T Beam			<b>Abutments (Left/Right): (looking downstream)</b>	Concrete Precast		
<b>Total Length (metres):</b>	28.5	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	27.5		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	506236	<b>UTM Northing:</b>	5629114		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1987		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Fair	Couwered in gravel
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Concrete Precast</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	Some ravelling at sill faces
<b>Fill</b>	Good	
<b>Hardware</b>	Good	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Not Applicable	Steep rock canyon
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Good	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	Yes	Brush out the #1 approach
<b>Delineator Missing Left (approaching structure)</b>	0	
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	Good	
<b>Road Surface</b>	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K528	Site #:	K528	Road Name:	BRIDGE RIVER	Inspection Date:	2015/06/17			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Hardware	Good									
Welded/grouted shear connect	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.0		Estimated Present Water Level Width:		4.0			
	Estimated High Water Level Clearance:		15.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$200.00	Clean bearings of bridge					
	2	Required	Medium	\$150.00	Brush out the #1 approach					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	This was a ground inspection only, no significant issues noted.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K528	Site #:	K528	Road Name:	BRIDGE RIVER	Inspection Date:	2015/06/17	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2047	Replacement Date for light vehicle traffic (year):		2047	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/16/2016 3:08:32PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K618	Site #:	K618	Road Name:	BRIDGE RIVER	Inspection Date:	2014/08/29
KM:	8.00	User km:	7.90	Crossing Name:	Paul Cr	Next Inspection Date:	2017/08/29
Project File ID #:	8490	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	24.9	# Spans:	1	Span Length(s) (metres):	24.4		
UTM Zone:	10	UTM Easting:	504236	UTM Northing:	5629909		
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	LT: LB beginning to brush in and obscure signs.
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	concrete barriers
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K618	Site #:	K618	Road Name:	BRIDGE RIVER	Inspection Date:	2014/08/29			
Curb Rail/Blocks/Posts	Good									
Deck Joints	Fair	Minor cracks								
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		4.0			
	Estimated High Water Level Clearance:		4.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Low	\$500.00	LT: Minor brushing					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Structure is in good condition.								
		LT (2014/12/18): Added light brushing.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K618	Site #:	K618	Road Name:	BRIDGE RIVER	Inspection Date:	2014/08/29
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/20/2014 10:56:28AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K530A	Site #:	K530	Road Name:	BRIDGE RIVER	Inspection Date:	2016/06/12
KM:	9.74	User km:	9.70	Crossing Name:	Cathy Cr	Next Inspection Date:	2019/06/12
Project File ID #:	8490	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.3	# Spans:	1	Span Length(s) (metres):	17.7		
UTM Zone:	10	UTM Easting:	502663	UTM Northing:	5630445		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2012		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	Round and steep
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K530A	<b>Site #:</b>	K530	<b>Road Name:</b>	BRIDGE RIVER	<b>Inspection Date:</b>	2016/06/12			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck Joints</b>	Fair	Seal broken and small section damage to panel at bulkhead of #2 end see Photo. May require repair								
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Good									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.4		<b>Estimated Present Water Level Width:</b>		3.3			
	<b>Estimated High Water Level Clearance:</b>		3.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$500.00	Seal broken and small section damage to panel at bulkhead of #2 end see Photo. May require repair					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor oversteepened rip rap								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Seal broken and small section damage to panel at bulkhead of #2 end see Photo. May require repair								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K530A	Site #:	K530	Road Name:	BRIDGE RIVER	Inspection Date:	2016/06/12
GENERAL	PEng's Comment:	Ensure gravel approach compacted and sitting at the same elevation or higher than the top of deck.					
GENERAL	Replacement Date for full log haul traffic (year):			2057	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		63	Design Vehicle Config.:
							BCL625
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 1/13/2017 9:56:19AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K531	Site #:	K531	Road Name:	BRIDGE RIVER	Inspection Date:	2015/06/17
KM:	17.56	User km:	17.40	Crossing Name:	Jamie Cr	Next Inspection Date:	2018/06/17
Project File ID #:	8490	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Compo Girders			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	27.0	# Spans:	1	Span Length(s) (metres):	26.8		
UTM Zone:	10	UTM Easting:	496165	UTM Northing:	5630486		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1993		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Fair	
Hardware	Good	
Piles or Posts	Good	
Riprap	Not Applicable	Steep rock canyon
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K531	Site #:	K531	Road Name:	BRIDGE RIVER	Inspection Date:	2015/06/17			
Concrete Deck	Fair	The first deck panel is chipped and exposed rebar								
Curb Rail/Blocks/Posts	Fair	Some of the bottom risers have high rot values								
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Hardware	Good									
CHANNEL	Estimated Present Water Level Depth:		1.3		Estimated Present Water Level Width:		1.5			
	Estimated High Water Level Clearance:		0.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Monitor riser blocks, lower blocks have extensive rot								
GENERAL	Inspector's Comment:	This was a ground only inspection, no significant issues noted. CBR issue caused this inspection to be entered manually,								
GENERAL	PEng's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K531	Site #:	K531	Road Name:	BRIDGE RIVER	Inspection Date:	2015/06/17	
GENERAL	Replacement Date for full log haul traffic (year):			2053	Replacement Date for light vehicle traffic (year):		2053	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/16/2016 3:28:59PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K834	Site #:	K834	Road Name:	BRIDGE RIVER	Inspection Date:	2016/05/12
KM:	29.75	User km:	29.40	Crossing Name:	McParlon Cr	Next Inspection Date:	2019/05/12
Project File ID #:	8490	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	36.0	# Spans:	1	Span Length(s) (metres):	36		
UTM Zone:	10	UTM Easting:	485253	UTM Northing:	5629236		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1994		
Access:							

### ABUTMENTS

Bearings	Poor	Buried, clear bearings
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Not Applicable	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K834	Site #:	K834	Road Name:	BRIDGE RIVER	Inspection Date:	2016/05/12			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Poor	The lower risers are rotten, requires 28-3' 700 BF								
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.0		Estimated Present Water Level Width:		12.0			
	Estimated High Water Level Clearance:		0.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$300.00	Clear Bearing					
	2	Required	High	\$4,500.00	Replace the lower Risers 28 - 3' riser blocks 700 BF					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K834	Site #:	K834	Road Name:	BRIDGE RIVER	Inspection Date:	2016/05/12	
GENERAL	PEng's Comment:	If curb repairs are not completed after the next routine inspection, this structure will get a load restriction. Replacement of bracket blocks and riser blocks with treated timber would remove this repair for a longer timeframe in the future. Non-treated would work also.						
GENERAL	Replacement Date for full log haul traffic (year):			2044	Replacement Date for light vehicle traffic (year):		2049	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 4:17:33PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K623	<b>Site #:</b>	K623	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2015/06/16
<b>KM:</b>	3.75	<b>User km:</b>	3.30	<b>Crossing Name:</b>	Switchback Cr	<b>Next Inspection Date:</b>	2018/06/16
<b>Project File ID #:</b>	8528	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	30.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	644502	<b>UTM Northing:</b>	5498490		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2000		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Fair	The rubber bearing pads are compressed and bulging
<b>Bracing</b>	Good	
<b>Ballast Wall</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Good	
<b>Piles or Posts</b>	Good	
<b>Riprap</b>	Good	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left (approaching structure)</b>	0	
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	None	Install concrete no post barriers
<b>Road Surface</b>	Good	

### DECK

#### Span 1

<b>Concrete Deck</b>	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K623	Site #:	K623	Road Name:	TULAMEEN	Inspection Date:	2015/06/16			
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good	Some rocks on flange								
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		2.5			
	Estimated High Water Level Clearance:		9.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$5,000.00	Install concrete no post barriers					
MONITORS	#	Description								
	1	The rubber bearing pads are compressed and bulging								
GENERAL	Inspector's Comment:	The no post barriers have not been installed.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K623	Site #:	K623	Road Name:	TULAMEEN	Inspection Date:	2015/06/16
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 11:44:49AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K853	<b>Site #:</b>	K853	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2014/08/07
<b>KM:</b>	8.25	<b>User km:</b>	8.30	<b>Crossing Name:</b>	Britton Cr	<b>Next Inspection Date:</b>	2017/08/07
<b>Project File ID #:</b>	8528	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	16.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	15.4		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	645717	<b>UTM Northing:</b>	5494702		
<b>Inspector Name:</b>	Ali Sadeghi			<b>Year Superstructure Installed:</b>	1998		
<b>Access:</b>							

### ABUTMENTS

Bearings	Fair	
Bracing	Fair	
Ballast Wall	Fair	
Corrosion Protection	Fair	
Caps or Sills	Unrated	no caps or sills
Fill	Fair	
Hardware	Fair	
Piles or Posts	Fair	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	room to install no posts barriers - bridge on a mainline
Posted Load Rating	n	not posted
Road Surface	Good	recently graded

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K853	<b>Site #:</b>	K853	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2014/08/07			
<b>Concrete Deck</b>	Fair	concrete comp								
<b>Curb Rail/Blocks/Posts</b>	Fair	some damage to the rail from snow plower								
<b>Deck Joints</b>	Fair									
<b>Grout Pockets</b>	Fair									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair	LT: Gravel on deck.								
<b>Running Surface</b>	Fair	some track vehicle damage								
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Unrated	none								
<b>Girders</b>	Good									
<b>Hardware</b>	Good	welded connections								
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.2		<b>Estimated Present Water Level Width:</b>		5.0			
	<b>Estimated High Water Level Clearance:</b>		2.0							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Complete	High	\$1,000.00	bridge ahead signs					
	2	Required	High	\$1,500.00	no post barriers					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	structure sound								
		LT (2014/12/18): Inspector tends to rate all components fair without comments. More appropriate rating may be good.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K853	Site #:	K853	Road Name:	TULAMEEN	Inspection Date:	2014/08/07
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/20/2014 9:25:35AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K873	<b>Site #:</b>	K873	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2014/08/07
<b>KM:</b>	12.44	<b>User km:</b>	13.00	<b>Crossing Name:</b>	Eagle Cr	<b>Next Inspection Date:</b>	2017/08/07
<b>Project File ID #:</b>	8528	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete Composite			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <small>(looking downstream)</small>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	27.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	648152	<b>UTM Northing:</b>	5491872		
<b>Inspector Name:</b>	Ali Sadeghi			<b>Year Superstructure Installed:</b>	1997		
<b>Access:</b>							

### ABUTMENTS

Bearings	Fair	
Bracing	Unrated	buried
Ballast Wall	Poor	gap between panels and ballast wall, damaging panels and surface drainage from above is scouring the fill in front of the abutments
Corrosion Protection	Unrated	not visible
Caps or Sills	Unrated	no caps or sill
Fill	Fair	scour in front of of RB abutments
Hardware	Fair	
Piles or Posts	Fair	
Riprap	Fair	steep and long fill slope at 67% with little riprap at the toe of fill
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	1	
Brushing Required	No	
Delineator Missing Left <small>(approaching structure)</small>	0	
Delineator Missing Right <small>(approaching structure)</small>	0	
Fender Condition	None	no fenders
Posted Load Rating	na	not posted
Road Surface	Good	recently graded

### DECK

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K873	Site #:	K873	Road Name:	TULAMEEN	Inspection Date:	2014/08/07
--------------	------	---------	------	------------	----------	------------------	------------

### Span 1

Concrete Deck	Fair	
Curb Rail/Blocks/Posts	Fair	one of the risers has been damaged from mechanical impact; remove 2008 monitor item
Deck Joints	Fair	
Grout Pockets	Fair	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Fair	some track vehicle damage LT: no photo evidence.

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Unrated	none
Girders	Good	LT: Sand and gravel on flanges.
Hardware	Good	bolted connectors
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.0
Estimated High Water Level Clearance:	10.0		

#### HAZARDS

High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
Comment:	in front of the abutments LT: Which one?								

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Complete	High	\$300.00	bridge ahead sign on left approach
2	Complete	Medium	\$1,000.00	Replace 1 - 0.9m 10"x10" Fd riser
3	Complete	High	\$1,000.00	seal the joint between ballast walls and end deck panel
4	Required	High	\$3,000.00	Install no post barriers on both approaches.
5	Complete	Low	\$600.00	LT: Clean sand and gravel from deck and from girder flanges.

#### MONITORS

#	Description
1	scour in front of the RB abutment

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 425 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K873	Site #:	K873	Road Name:	TULAMEEN	Inspection Date:	2014/08/07	
GENERAL	Inspector's Comment:	LT (2014/12/18) Clean sand and gravel from deck and flanges. No photo evidence of deck wear as indicated in inspection. Changed adding no-post fenders as a high priority.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2047	Replacement Date for light vehicle traffic (year):		2062	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 9:40:11AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 426 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K874	Site #:	K874	Road Name:	TULAMEEN	Inspection Date:	2014/08/07
KM:	18.35	User km:	18.50	Crossing Name:	Illal Cr	Next Inspection Date:	2017/08/27
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Treated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	21.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	647454	UTM Northing:	5488482		
Inspector Name:	Ali Sadeghi			Year Superstructure Installed:	1997		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Unrated	buried
Ballast Wall	Good	
Corrosion Protection	Fair	
Caps or Sills	Unrated	no caps or sills
Fill	Good	
Hardware	Good	
Piles or Posts	Fair	pipe risers
Riprap	Fair	installed steep LT: no photo showing LB rip rap
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	on a tight hor curve
Bridge Ahead Signs Missing	1	missing on right approach
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	no fenders
Posted Load Rating	na	not posted
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 427 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K874	Site #:	K874	Road Name:	TULAMEEN	Inspection Date:	2014/08/07			
Curb Rail/Blocks/Posts	Fair	downstream left approach rail is damaged (1 -10' 10"x10" Fd)								
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Fair									
Overall Deck Condition	Good									
Running Planks	Good	LT: New timber planks.								
Sub Deck	Fair	treated timber								
Ties	Fair	treated 8 x 10 - one cross tie has excessive check								
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Unrated	no diaphragms								
Girders	Good	LT: Debris on girder flanges.								
Hardware	Good	bolted connection								
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		15.0			
	Estimated High Water Level Clearance:		1.8							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	High	\$500.00	bridge ahead sign					
	2	Complete	Medium	\$1,500.00	Replace one section of the rail and riser: 1 - 10' 10" X 10" Fd					
MONITORS	#	Description								
	1	LT: Monitor checking in ties.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 428 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K874	Site #:	K874	Road Name:	TULAMEEN	Inspection Date:	2014/08/07	
GENERAL	Inspector's Comment:	LT (2014/12/18) Running planks were replaced in 2012. Monitor checks in ties. No photo showing LB rip rap and RB rip rap photo does not show creek.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2047	Replacement Date for light vehicle traffic (year):		2062	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 10:05:18AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 429 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K457	Site #:	K457	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	21.62	User km:	21.60	Crossing Name:	McGee Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Gravel		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	9.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	648115	UTM Northing:	5486436		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1984		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Good	No apparent movement

### APPROACHES

Alignment	Fair	Tight corner, some impact at the #2 downstream curb, still finctional
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 430 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K457	Site #:	K457	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
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### DECK

#### Span 1

Concrete Deck	Fair	6 exposed plates that may catch when being graded. The plates connect the added box girder
Curb Rail/Blocks/Posts	Fair	
Deck Joints	Good	
Grout Pockets	Not Applicable	
Gravel Surface	Unrated	None
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Good	
Welded/grouted shear connect	Good	

### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	4.3
Estimated High Water Level Clearance:	2.5		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description

### MONITORS

#	Description

### GENERAL

Inspector's Comment:	There are 6 plates on the deck connecting the box girder to the double T girder.
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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 431 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K457	Site #:	K457	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2034	Replacement Date for light vehicle traffic (year):		2039
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		55	Design Vehicle Config.: L60
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 12:15:27PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 432 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K458	<b>Site #:</b>	K458	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2016/07/08
<b>KM:</b>	27.20	<b>User km:</b>	27.00	<b>Crossing Name:</b>	Jim Kelly Cr	<b>Next Inspection Date:</b>	2019/07/08
<b>Project File ID #:</b>	8528	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Gravel		
<b>Superstructure</b>	Concrete I/T Beam			<b>Abutments (Left/Right): (looking downstream)</b>	Concrete Cast in Place		
<b>Total Length (metres):</b>	9.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	647019	<b>UTM Northing:</b>	5482334		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1984		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Good	Dewy dag
<b>Ballast Wall</b>	Fair	The center panel, bulkhead/sill has chipped edges upstream and down on the #1 abutment. Exposed rebar, see photo
<b>Concrete Cast in Place</b>	Fair	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Good	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Fair	
<b>Wing Wall</b>	Fair	Unable to view any of the previous measurements of the wing walls. The #1 approach low chain u/s 131 d/s 173 mm. #2 148 u/s 115 mm. d/s

### APPROACHES

<b>Alignment</b>	Fair	Tight corner at #1 approach
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left (approaching structure)</b>	0	
<b>Delineator Missing Right (approaching structure)</b>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K458	Site #:	K458	Road Name:	TULAMEEN	Inspection Date:	2016/07/08			
Road Surface		Good								
<b>DECK</b>										
<b>Span 1</b>										
Concrete Deck	Fair	Chipped and worn								
Curb Rail/Blocks/Posts	Good	The short curb blocks only have one bolt								
Deck Joints	Good									
Grout Pockets	Not Applicable									
Gravel Surface	Unrated	Now								
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good	Some chipping at welds								
<b>CHANNEL</b>	Estimated Present Water Level Depth:		1.0		Estimated Present Water Level Width:		2.8			
	Estimated High Water Level Clearance:		4.2							
<b>HAZARDS</b>	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
<b>REPAIRS</b>	#	Status	Priority	Estimate	Description					
<b>MONITORS</b>	#	Description								
	1	Continue to monitor wing walls								
<b>GENERAL</b>	Inspector's Comment:	Unable to view any of the previous measurements of the wing walls. The #1 approach low chain u/s 131 d/s 173 mm. #2 148 u/s 115 mm. d/s The center panel, bulkhead/sill has chipped edges upstream and down on the #1 abutment. Exposed rebar, see photo								

### Corporate Bridge Register (CBR)

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Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K458	Site #:	K458	Road Name:	TULAMEEN	Inspection Date:	2016/07/08	
		Curbs have been repaired						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2034	Replacement Date for light vehicle traffic (year):		2039	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		91	Design Vehicle Config.:	L100
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 1/11/2017 2:48:15PM			

## Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 435 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K459	Site #:	K459	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	31.21	User km:	30.80	Crossing Name:	Railroad Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Gravel		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Concrete Cast in Place		
Total Length (metres):	6.1	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	644762	UTM Northing:	5479492		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1984		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Cast in Place	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Poor	Impeding creek flow and not protecting the footing and abutment face
Wing Wall	Good	Cracks at the upstream side of #1, see photo

### APPROACHES

Alignment	Fair	Tight corner at both approaches
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Poor	The bridge requires fill at both approaches, grader could fix this problem.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 436 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K459	Site #:	K459	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
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### DECK

#### Span 1

Concrete Deck	Fair	Welded and bolted tabs to secure added box girders are exposed to damage from graders. 4 clips are visible on the downstream side and 2 are not covered by gravel on the upstream
Curb Rail/Blocks/Posts	Good	
Deck Joints	Good	
Grout Pockets	Not Applicable	
Gravel Surface	Fair	some on upstream side of bridge
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Fair	The tabs used to secure the added box girders are exposed to damage from the grader

### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	3.4
Estimated High Water Level Clearance:	2.0		

### HAZARDS

High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
Comment:	Scouring along the face of #2 abutment								

### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	High	\$250.00	Fill in potholes at both ends of the bridge, grader could likely resolve

### MONITORS

#	Description
1	Monitor scour along face of #2 abutment

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 437 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K459	Site #:	K459	Road Name:	TULAMEEN	Inspection Date:	2016/07/08	
GENERAL	Inspector's Comment:	no water appears to be flowing onto the bridge. The bridge requires fill at both approaches, grader could fix this problem.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2034	Replacement Date for light vehicle traffic (year):		2039	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		55	Design Vehicle Config.:	L60
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 3:35:29PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 438 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K461	Site #:	K461	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	33.61	User km:	33.20	Crossing Name:	Sutter Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	18.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	644014	UTM Northing:	5477600		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1988		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	#2 is covered in gravel
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Not Applicable	Bedrock
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Potholed

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K461	Site #:	K461	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Fair	Worn and dirty
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	2.3
	Estimated High Water Level Clearance:	4.0		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Low	\$300.00	Clean the sills

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 440 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K461	Site #:	K461	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
GENERAL	Inspector's Comment:	The #2 sill is buried, clear debris from sill.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2038	Replacement Date for light vehicle traffic (year):		2043
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 3:39:57PM	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 441 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1113	Site #:	K1113	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	36.71	User km:	36.30	Crossing Name:	Unnamed	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Elliptical			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	750			Outlet Cover (mm):	1,100		
Footing Type:	Precast Concrete Footing			Gradient (%):	0.0		
Culvert Length (metres):	18.0	Opening Height (mm):	1,500	Opening Width (mm):	2,000		
UTM Zone:	10	UTM Easting:	642534	UTM Northing:	5475503		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1998		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Fair	Some rust
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Good	
Outlet	Good	Some trees have fallen onto the #2 bank

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 442 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1113	<b>Site #:</b>	K1113	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2016/07/08			
<b>Overall</b>	Good									
<b>Riprap</b>	Good									
<b>Roof</b>	Good									
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		1.4			
	<b>Estimated High Water Level Clearance:</b>		0.8							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	Yes	<b>Aggradation:</b>	No
	<b>Comment:</b>	Some trees have fallen onto the #2 bank at the outlet, likely not an issue, should be monitored								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Some trees have fallen onto the #2 bank at the outlet, likely not an issue, should be monitored								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The cover depth is .75 m. at the inlet and 1.1 m. at the outlet								
<b>GENERAL</b>	<b>PEng's Comment:</b>	inlet and outlet cover depths are updated in CBR. Load rating set to CL-625.								
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2060		<b>Replacement Date for light vehicle traffic (year):</b>			2065	
	<b>Current Inspection Load Rating:</b>		63		<b>Design Load GVW (tonnes):</b>		63		<b>Design Vehicle Config.:</b>	CL625
	<b>Professional Inspection Required?</b>		No		<b>Report Status:</b>	Reviewed By Drew Alway on 12/6/2016 1:48:31PM				

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 443 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1118	Site #:	K1118	Road Name:	TULAMEEN	Inspection Date:	2015/06/14
KM:	37.65	User km:	37.20	Crossing Name:	Vuich Cr	Next Inspection Date:	2018/06/14
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	17.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	642488	UTM Northing:	5474658		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1999		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Fair	The repair to the #2 downstream side of the concrete ballast wall has not been done
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	1	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 444 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1118	<b>Site #:</b>	K1118	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2015/06/14			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	Rot values are starting to be significant, repair may be required in a year or two								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Good									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Good									
<b>Diaphragms</b>	Good									
<b>Girders</b>	Good									
<b>Hardware</b>	Not Applicable									
<b>Under Trussing</b>	Not Applicable									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.4		<b>Estimated Present Water Level Width:</b>		4.2			
	<b>Estimated High Water Level Clearance:</b>		1.4							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Medium	\$200.00	Install a bridge ahead for the #2 approach					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Rot values are starting to be significant, repair may be required in a year or two								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	The repair to the #2 downstream side of the concrete ballast wall has not been done								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 445 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1118	Site #:	K1118	Road Name:	TULAMEEN	Inspection Date:	2015/06/14	
GENERAL	PEng's Comment:	concrete repair is pretty simple and users should complete as soon as possible. Contact the engineering branch if more direction is required.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 12:39:07PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 446 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K463A	Site #:	K463	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	46.00	User km:	47.20	Crossing Name:	Podunk Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	24.4	# Spans:	1	Span Length(s) (metres):	23.5		
UTM Zone:	10	UTM Easting:	641213	UTM Northing:	5467377		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2009		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	one	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 447 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K463A	Site #:	K463	Road Name:	TULAMEEN	Inspection Date:	2016/07/08			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		3.6			
	Estimated High Water Level Clearance:		4.6							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Nicely built bridge. 10U 0641213 5467377 long 49 20 34.1 lat 121 03 21.5 Clear old repairs etc. from reg.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 448 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K463A	Site #:	K463	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
GENERAL	PEng's Comment:	repairs updated. GPS data updated. I believe the realigning of the no-post barriers to be in front of the HSS rails is still not completed.					
GENERAL	Replacement Date for full log haul traffic (year):		2050		Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		91		Design Load GVW (tonnes):		91
					Design Vehicle Config.:		L100
	Professional Inspection Required?		No		Report Status:		Reviewed By Drew Alway on 1/11/2017 3:45:05PM

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 449 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K464	Site #:	K464	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	48.19	User km:	49.20	Crossing Name:	Chan Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete Composite			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.3	# Spans:	1	Span Length(s) (metres):	17.7		
UTM Zone:	10	UTM Easting:	643026	UTM Northing:	5467150		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2009		
Access:	Structure was replaced by Tolko Sept 09 UTMs converted from Lat/Long- check in field.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	#2 approach has a flare but traffic is hitting on on transition to straight, minimal
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	Soft and punching out at the #1

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 450 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K464	Site #:	K464	Road Name:	TULAMEEN	Inspection Date:	2016/07/08			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		4.0			
	Estimated High Water Level Clearance:		3.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Structure location UTM 10U 0643026 5467150 Lat 49 20 25.0 Long 121 01 51.7								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 451 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K464	Site #:	K464	Road Name:	TULAMEEN	Inspection Date:	2016/07/08	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		2059	
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.:	L100
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 3:49:10PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 452 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K465	<b>Site #:</b>	K465	<b>Road Name:</b>	TULAMEEN	<b>Inspection Date:</b>	2016/07/08
<b>KM:</b>	50.96	<b>User km:</b>	52.00	<b>Crossing Name:</b>	White Cloud Cr	<b>Next Inspection Date:</b>	2019/07/08
<b>Project File ID #:</b>	8528	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right):</b> <small>(looking downstream)</small>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	12.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	12		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	645438	<b>UTM Northing:</b>	5468145		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2009		
<b>Access:</b>	Structure replaced by Tolko Sept 09 UTMs converted from Lat/Long- check in field.						

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Not Applicable	
<b>Piles or Posts</b>	Unrated	Buried
<b>Riprap</b>	Good	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	The #2 is narrow and potholed
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	No	
<b>Delineator Missing Left</b> <small>(approaching structure)</small>	0	
<b>Delineator Missing Right</b> <small>(approaching structure)</small>	0	
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	
<b>Road Surface</b>	Fair	Potholed at the #2

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 453 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K465	Site #:	K465	Road Name:	TULAMEEN	Inspection Date:	2016/07/08			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		1.2			
	Estimated High Water Level Clearance:		2.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 454 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K465	Site #:	K465	Road Name:	TULAMEEN	Inspection Date:	2016/07/08	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		2059	
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.:	L100
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 9:27:13AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 455 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1093	Site #:	K1093	Road Name:	TULAMEEN	Inspection Date:	2016/07/08
KM:	53.93	User km:	53.00	Crossing Name:	Ugly Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	900			Outlet Cover (mm):	900		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	23.0	Opening Height (mm):	2,400	Opening Width (mm):	2,400		
UTM Zone:	10	UTM Easting:	647785	UTM Northing:	5469617		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2001		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Fair	Some rust
Embedment Materials	Good	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Good	
Outlet	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 456 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1093	Site #:	K1093	Road Name:	TULAMEEN	Inspection Date:	2016/07/08			
Overall	Good									
Riprap	Good									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	1.2						
	Estimated High Water Level Clearance:	1.2								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):	2045	Replacement Date for light vehicle traffic (year):	2050						
	Current Inspection Load Rating:	68	Design Load GVW (tonnes):	68	Design Vehicle Config.:	L75				
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 12/6/2016 1:43:31PM						

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 457 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K466	Site #:	K466	Road Name:	TULAMEEN-CHAMPION	Inspection Date:	2015/06/14
KM:	0.12	User km:	0.20	Crossing Name:	Tulameen R	Next Inspection Date:	2018/06/14
Project File ID #:	8528	Br.	02	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Cast in Place		
Total Length (metres):	28.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	648217	UTM Northing:	5483145		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1986		
Access:							

### ABUTMENTS

Bearings	Fair	Light rubber pads only 3/8" thick
Bracing	Good	Dewydog tie backs appear tight and working
Ballast Wall	Fair	The wooden planks have high rot and some at the #1 are broken
Concrete Cast in Place	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Fair	Cracks in the concrete

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 458 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K466	Site #:	K466	Road Name:	TULAMEEN-CHAMPION	Inspection Date:	2015/06/14			
Curb Rail/Blocks/Posts	Fair									
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Fair									
Overall Deck Condition	Fair	Will require repair soon								
Running Planks	Fair	Some of the planks are failing on there ends, see photo								
Sub Deck	Unrated	No sub deck								
Ties	Fair									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
Bracing	Good									
Diaphragms	Good									
Girders	Good	Ground inspection only								
Hardware	Good									
Under Trussing	Not Applicable									
<b>CHANNEL</b>	Estimated Present Water Level Depth:		1.2		Estimated Present Water Level Width:		4.5			
	Estimated High Water Level Clearance:		2.6							
<b>HAZARDS</b>	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
<b>REPAIRS</b>	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$9,000.00	For a full deck replacement will require 5820 bf of 4" timber. The deck is 97' long and 15' wide. Various planks may be replced until full redeck					
<b>MONITORS</b>	#	Description								
	1	Continue to monitor wings. There appears to be some discrepancies regarding the measurement of the concrete wing wall posible movement. It does not appear that there is significant movement. Across the road flat face to flat face of the wing wall is @#2 4.827 m and @#1 5.083 m. Also measured at the #2 was from the flat face to the girder web, downstream was 1.045 m. and upstream .98 m.								
	2	Failing bulkhead planks								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 459 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K466	Site #:	K466	Road Name:	TULAMEEN-CHAMPION	Inspection Date:	2015/06/14	
GENERAL	Inspector's Comment:	There appears to be some discrepancies regarding the measurement of the concrete wing wall possible movement. It does not appear that there is significant movement. Across the road flat face to flat face of the wing wall is @#2 4.827 m and @#1 5.083 m. Also measured at the #2 was from the flat face to the girder web, downstream was 1.045 m. and upstream .98 m. The deck will require at a minimum some planks replaced soon and a full deck within a year or two						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2036	Replacement Date for light vehicle traffic (year):		2041	
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.:	L100
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 3:57:45PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 460 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K636	Site #:	K636	Road Name:	OLIVINE	Inspection Date:	2015/06/14
KM:	3.25	User km:	25.00	Crossing Name:	Tulameen R	Next Inspection Date:	2018/06/14
Project File ID #:	8528	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	39.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	649979	UTM Northing:	5486107		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2003		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Tight corner on both approaches, traffic is hitting on the #2 downstream curb
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Poor	damage to 1st panel D/S R/B deck panel to curb connection.
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 461 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K636	<b>Site #:</b>	K636	<b>Road Name:</b>	OLIVINE	<b>Inspection Date:</b>	2015/06/14
<b>Curb Rail/Blocks/Posts</b>	Poor	Requires curb repairsw at the #2 downstream. Requires 6 riser blocks (existing are rotten) 3-27" 3-36" and One 2.0 m. and one 4.0 m. 10x10" curb timbers. As well as 3 bolts for riser to pa nel connection					
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Fair						
<b>Hand Rails/Walkouts</b>	Fair						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Good						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.5		<b>Estimated Present Water Level Width:</b>		2.0
	<b>Estimated High Water Level Clearance:</b>		3.8				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Complete	High	\$1,500.00	Requires curb repairsw at the #2 downstream. Requires 6 riser blocks (existing are rotten) 3-27" 3-36" and One 2.0 m. and one 4.0 m. 10x10" curb timbers. As well as 3 bolts for riser to pa nel connection		
	4	Complete	High	\$500.00	Concrete repair required as per Drew Alway prescription. 1St panel, D/S R/B approach.		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 462 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K636	Site #:	K636	Road Name:	OLIVINE	Inspection Date:	2015/06/14
GENERAL	Inspector's Comment:	Requires curb repairsw at the #2 downstream DA. See repair prescription for deck panel and approach barriers required by Drew Alway PEng.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2053	Replacement Date for light vehicle traffic (year):		2058
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 7/17/2015 1:15:57PM	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 463 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K635	Site #:	K635	Road Name:	OLIVINE	Inspection Date:	2015/06/14
KM:	3.42	User km:	25.10	Crossing Name:	Champion Cr	Next Inspection Date:	2018/06/14
Project File ID #:	8528	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	36.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	650035	UTM Northing:	5486127		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2003		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Clear slump filling ditch and onto #2 approach, see photo
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Fair	Clear slump filling ditch and onto #2 approach, see photo

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 464 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K635	<b>Site #:</b>	K635	<b>Road Name:</b>	OLIVINE	<b>Inspection Date:</b>	2015/06/14
<b>Curb Rail/Blocks/Posts</b>	Fair	Some with elevated rot values					
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Good						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.4		<b>Estimated Present Water Level Width:</b>		5.0
	<b>Estimated High Water Level Clearance:</b>		8.0				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Complete	Medium	\$200.00	Clear slump filling ditch and onto #2 approach, see photo. Grader can complete.		
	2	Complete	Medium	\$400.00	Add two loads of fill to Left Bank Approach, to decrease deck damage to first panel. DA.		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
	1	Curb rot					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Clear slump filling ditch and onto #2 approach, see photo.					
		DA. A number of specific repairs and monitor items have been added based on professional inspection completed by myself on June 19, 2014.					

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 465 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K635	Site #:	K635	Road Name:	OLIVINE	Inspection Date:	2015/06/14
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2053	Replacement Date for light vehicle traffic (year):		2058
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 7/16/2015 3:32:22PM	

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 466 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K033	Site #:	K033	Road Name:	TULAMEEN-RAILROAD CR	Inspection Date:	2016/07/08
KM:	3.83	User km:	3.00	Crossing Name:	Railroad Cr	Next Inspection Date:	2019/07/08
Project File ID #:	8528	Br.	04	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	2,700			Outlet Cover (mm):	3,100		
Footing Type:				Gradient (%):	3.5		
Culvert Length (metres):	14.3	Opening Height (mm):	2,000	Opening Width (mm):	2,000		
UTM Zone:	10	UTM Easting:	642727	UTM Northing:	5480607		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1995		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	Narrow

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Good	Woody debris collecting upstream of structure
Outlet	Good	200 mm. drop into large erosion pool

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 467 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K033	Site #:	K033	Road Name:	TULAMEEN-RAILROAD CR	Inspection Date:	2016/07/08			
Overall	Good									
Riprap	Good									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:		1.2					
	Estimated High Water Level Clearance:	1.1								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Woody debris collecting upstream of structure								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$250.00	Clear debris, Woody debris collecting upstream of structure					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):			2025	Replacement Date for light vehicle traffic (year):			2030		
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		64	Design Vehicle Config.:		BCL625	
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 12:58:29PM				

Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 468 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K719	<b>Site #:</b>	K719	<b>Road Name:</b>	DILLARD CREEK	<b>Inspection Date:</b>	2016/07/10
<b>KM:</b>	10.88	<b>User km:</b>	11.00	<b>Crossing Name:</b>	Shrimpton Cr	<b>Next Inspection Date:</b>	2019/07/10
<b>Project File ID #:</b>	8529	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete I/T Beam			<b>Abutments (Left/Right): (looking downstream)</b>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	7.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	6.6		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	677702	<b>UTM Northing:</b>	5520210		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1988		
<b>Access:</b>	Bridge is located at 11.0 km. by marker.						

### ABUTMENTS

<b>Bearings</b>	Poor	No bearing pads just concrete to steel sill
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Concrete Lock Blocks</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Good	
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Fair	Not much protection along the face of the abutments
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	Sharp u turn
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	Yes	Clear out the channel downstream
<b>Delineator Missing Left (approaching structure)</b>	2	Steel risers requires drilled or welded delineators
<b>Delineator Missing Right (approaching structure)</b>	1	One misssing
<b>Fender Condition</b>	None	
<b>Posted Load Rating</b>	none	
<b>Road Surface</b>	Fair	Surface water off the #1 approach is running onto the #1 downstream corner and eroding fill.

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 469 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K719	Site #:	K719	Road Name:	DILLARD CREEK	Inspection Date:	2016/07/10
--------------	------	---------	------	------------	---------------	------------------	------------

### DECK

#### Span 1

Concrete Deck	Not Applicable	Covered in gravel
Curb Rail/Blocks/Posts	Poor	The downstream curb has had impact damage, two of the welds have broken away.
Deck Joints	Not Applicable	
Grout Pockets	Not Applicable	
Hardware	Fair	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Fair	Uneven potholed

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	Covered in gravel

#### CHANNEL

Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	3.2
Estimated High Water Level Clearance:	2.1		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	High	\$800.00	The downstream curb has had impact damage, two of the welds have broken away. Weld repairs to be completed.
2	Required	Low	\$200.00	Brush out bridge
3	Required	Medium	\$300.00	Waterbar or contour road to remove surface water from the road and eroding the downstream #1 corner

#### MONITORS

#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 470 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K719	Site #:	K719	Road Name:	DILLARD CREEK	Inspection Date:	2016/07/10	
GENERAL	Inspector's Comment:	The downstream curb has had impact damage, two of the welds have broken away.						
GENERAL	PEng's Comment:	Curb damage will require a welder.						
GENERAL	Replacement Date for full log haul traffic (year):			2038	Replacement Date for light vehicle traffic (year):		2043	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/25/2017 2:43:05PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 471 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1301	<b>Site #:</b>	K1301	<b>Road Name:</b>	GALENA	<b>Inspection Date:</b>	2014/08/23
<b>KM:</b>	12.35	<b>User km:</b>	11.90	<b>Crossing Name:</b>	Siwash #1	<b>Next Inspection Date:</b>	2017/08/23
<b>Project File ID #:</b>	8529	<b>Br.</b>	04	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Treated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	18.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	687150	<b>UTM Northing:</b>	5521525		
<b>Inspector Name:</b>	Donovan J. A. Melin			<b>Year Superstructure Installed:</b>	2004		
<b>Access:</b>	0 km. is at the Loon Lake interchange from the Coquihalla Hwy. Okanagan Connector.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	LT: Grown in vegetation on abutment slopes.
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	LT: Good and angular, well graded.
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Good	concrete barriers w/o no posts
Road Surface	Good	

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	showing age
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### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 472 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1301	Site #:	K1301	Road Name:	GALENA	Inspection Date:	2014/08/23			
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Fair	showing age								
Overall Deck Condition	Fair	showing age LT: some gravel accumulated on deck.								
Running Planks	Fair	showing age								
Sub Deck	Fair	showing age								
Ties	Fair	showing age								
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.5		Estimated Present Water Level Width:		5.0			
	Estimated High Water Level Clearance:		2.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Low	\$800.00	LT: Brush vegetation on abutment slopes next to bridge.					
	2	Required	Low	\$200.00	LT: Clean gravel off deck.					
MONITORS	#	Description								
	1	LT: condition of timber components for rot.								
GENERAL	Inspector's Comment:	Structure is in good condition.								
		LT (2014/12/12) Monitor all timber components for rot. May soon affect load rating. Repairs added: Brush abutment vegetation next to bridge, clean deck gravel.								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 473 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1301	Site #:	K1301	Road Name:	GALENA	Inspection Date:	2014/08/23
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2045
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/17/2014 10:16:00PM	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 474 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1302	<b>Site #:</b>	K1302	<b>Road Name:</b>	GALENA	<b>Inspection Date:</b>	2014/08/23
<b>KM:</b>	13.06	<b>User km:</b>	12.30	<b>Crossing Name:</b>	Siwash #2	<b>Next Inspection Date:</b>	2017/08/23
<b>Project File ID #:</b>	8529	<b>Br.</b>	04	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	18.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	687607	<b>UTM Northing:</b>	5521046		
<b>Inspector Name:</b>	Donovan J. A. Melin			<b>Year Superstructure Installed:</b>	2004		
<b>Access:</b>	The bridge is located at 15.2 km. by the markers. 0 km. is at the Loon Lake exit from the Coquihalla hwy. - Okanagan connector.						

### ABUTMENTS

Bearings	Fair	LT: Rock resting on bearing plates.
Bracing	Fair	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Good	concrete barriers w/o noposts
Road Surface	Good	

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	showing age
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 475 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1302	Site #:	K1302	Road Name:	GALENA	Inspection Date:	2014/08/23
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Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	showing age LT: Some gravel accumulated on deck.
Running Planks	Fair	showing age
Sub Deck	Fair	showing age
Ties	Fair	showing age

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Fair	LT: Rocks on girder flanges.
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	6.0
	Estimated High Water Level Clearance:	2.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Low	\$200.00	LT: Clean gravel from deck.
	2	Required	Low	\$200.00	LT: Remove rocks from girder flanges and bearing area.

MONITORS	#	Description
	1	LT: Monitor condition of timber components for rot. Will soon effect haul capacity.

GENERAL	Inspector's Comment:	Update gps coordinates to 49 48 42.3 x 120 23 32. Structure is in good condition.
		LT (2014/12/12) Given the age, all timber components should be assessed for rot condition as it may soon effect capacity to haul. Repairs added: Clean gravel off deck, remove rocks from girder flanges and abutment bracing.

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 476 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1302	Site #:	K1302	Road Name:	GALENA	Inspection Date:	2014/08/23
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2045
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status: Accepted By Lester Thiessen on 12/18/2014 8:02:26AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 477 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1303	<b>Site #:</b>	K1303	<b>Road Name:</b>	GALENA	<b>Inspection Date:</b>	2014/08/23
<b>KM:</b>	15.90	<b>User km:</b>	15.20	<b>Crossing Name:</b>	Siwash #3	<b>Next Inspection Date:</b>	2017/08/23
<b>Project File ID #:</b>	8529	<b>Br.</b>	04	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	17.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	689844	<b>UTM Northing:</b>	5520012		
<b>Inspector Name:</b>	Donovan J. A. Melin			<b>Year Superstructure Installed:</b>	2003		
<b>Access:</b>	The bridge is located at km. 18.0 by the markers. 0 km. is at the Loon Lake exit on the Coquihalla - Okanagan connector.						

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 478 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1303	<b>Site #:</b>	K1303	<b>Road Name:</b>	GALENA	<b>Inspection Date:</b>	2014/08/23
<b>Curb Rail/Blocks/Posts</b>	Good						
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Not Applicable						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Fair	LT: Sand and gravel accumulated on each side of deck, promotes rot in curb blocks.					
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Good						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		4.5
	<b>Estimated High Water Level Clearance:</b>		2.5				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Required	Low	\$2,000.00	Consider installing 4 fenders - may have to widen road or pin logs to ground.		
	2	Required	Low	\$200.00	LT: Clean sand and gravel accumulated on deck.		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
	1	LT: assess condition of curb blocks. given age and gravel against curbs rot may soon be an issue.					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Update gps coordinates to 49 48 05.5 x 120 21 37.9. K1303 steel id plate has been installed. Structure is in good condition.					
		LT (2014/12/12) Repairs added: Clean gravel of deck. Monitor rot condition of curb blocks					

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 479 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1303	Site #:	K1303	Road Name:	GALENA	Inspection Date:	2014/08/23	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/18/2014 8:12:36AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

- 1) Structure and site information is current at the time of report creation and may have changed since the inspection was submitted and/or accepted.
- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 480 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K2042	Site #:	K2042	Road Name:	GALENA	Inspection Date:	2016/07/10
KM:	17.93	User km:	17.80	Crossing Name:	Elusive Cr	Next Inspection Date:	2019/07/10
Project File ID #:	8529	Br.	04	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	500			Outlet Cover (mm):	900		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	18.0	Opening Height (mm):	1,500	Opening Width (mm):	6,000		
UTM Zone:	10	UTM Easting:	691559	UTM Northing:	5518884		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2000		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Brus hout inlet
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Fair	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Good	
Coupled Connections	Not Applicable	
Coating	Good	
Embedment Materials	Good	
Fill	Good	
Floor	Good	
Footing	Good	
Head Wall	Good	
Inlet	Good	Grown in
Outlet	Good	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Major Culvert Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K2042	Site #:	K2042	Road Name:	GALENA	Inspection Date:	2016/07/10				
Overall	Good										
Riprap	Good										
Roof	Good										
Side Walls	Good										
Trash Rack	Not Applicable										
Wiers/Backwater Structures	Not Applicable										
Wing Wall	Good										
CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:		3.1						
	Estimated High Water Level Clearance:	1.2									
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No	
	Comment:										
REPAIRS	#	Status	Priority	Estimate	Description						
	1	Required	Low	\$300.00	Brush out inlet.						
MONITORS	#	Description									
GENERAL	Inspector's Comment:	There is some geotextile exposed of footing "rock sausage" but the creek is relatively centered and functioning well. 2014 repairs do not appear to have been done.									
GENERAL	PEng's Comment:	Footing repairs are still required for long term stability.									
GENERAL	Replacement Date for full log haul traffic (year):		2050		Replacement Date for light vehicle traffic (year):		2050				
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68		Design Vehicle Config.:		L75
	Professional Inspection Required?		No		Report Status:		Reviewed By Drew Alway on 7/14/2016 11:46:37AM				

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 482 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K718	Site #:	K718	Road Name:	GALENA	Inspection Date:	2016/07/10
KM:	19.11	User km:	30.40	Crossing Name:	Galena Cr	Next Inspection Date:	2019/07/10
Project File ID #:	8529	Br.	04	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	2,000			Outlet Cover (mm):	3,000		
Footing Type:				Gradient (%):	7.0		
Culvert Length (metres):	24.0	Opening Height (mm):	2,000	Opening Width (mm):	2,000		
UTM Zone:	10	UTM Easting:	692179	UTM Northing:	5518165		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1986		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Clear inlet channel
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	No access into culvert due water velocity
Coating	Good	
Embedment Materials	Not Applicable	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Good	
Inlet	Fair	Grown in and constricted from rip rap
Outlet	Good	

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 483 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K718	Site #:	K718	Road Name:	GALENA	Inspection Date:	2016/07/10			
Overall	Fair									
Riprap	Fair	Some has shifted into channel at inlet, restricting flow a little								
Roof	Fair	Deflected downward								
Side Walls	Fair									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Good									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		2.2			
	Estimated High Water Level Clearance:		1.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Trees across the channel upstream of the culvert								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	Medium	\$400.00	Clear brush and trees from inlet					
MONITORS	#	Description								
	1	Continue to monitor culvert deformation								
GENERAL	Inspector's Comment:									
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):			2036		Replacement Date for light vehicle traffic (year):			2041	
	Current Inspection Load Rating:		64		Design Load GVW (tonnes):		0		Design Vehicle Config.:	
	Professional Inspection Required?		No		Report Status:		Reviewed By Drew Alway on 1/25/2017 2:38:28PM			

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 484 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K634	Site #:	K634	Road Name:	DILLARD CREEK BR 35	Inspection Date:	2015/06/12
KM:	4.72	User km:	4.00	Crossing Name:	Galais Cr	Next Inspection Date:	2018/06/12
Project File ID #:	8529	Br.	35	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	500			Outlet Cover (mm):	500		
Footing Type:				Gradient (%):	0.0		
Culvert Length (metres):	0.0	Opening Height (mm):	2,000	Opening Width (mm):	2,000		
UTM Zone:	10	UTM Easting:	681082	UTM Northing:	5514796		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2002		
Access:							

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Brush inlet and roadside
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Not Applicable	
Embedment Materials	Good	
Fill	Good	
Floor	Good	
Footing	Not Applicable	
Head Wall	Fair	
Inlet	Poor	There is a tree growing across the inlet which is collecting debris. It has built up .8 m. above the invert at the inlet.
Outlet	Fair	Drop from invert to erosion pool approx. .6 m

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 485 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K634	Site #:	K634	Road Name:	DILLARD CREEK BR 35	Inspection Date:	2015/06/12			
Overall	Fair									
Riprap	Fair									
Roof	Good									
Side Walls	Good									
Trash Rack	Not Applicable									
Wiers/Backwater Structures	Not Applicable									
Wing Wall	Fair									
CHANNEL	Estimated Present Water Level Depth:	0.1			Estimated Present Water Level Width:	2.0				
	Estimated High Water Level Clearance:	1.2								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	inlet is overgrown and debris is collecting on brush.								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$300.00	There is a tree growing across the inlet which is collecting debris. It has built up .8 m. above the invert at the inlet. Clear debris to allow bedload to flush through					
MONITORS	#	Description								
	1	No significant change to outlet erosion.								
GENERAL	Inspector's Comment:	There is a tree growing across the inlet which is collecting debris. It has built up .8 m. above the invert at the inlet.								
GENERAL	PEng's Comment:									
GENERAL	Replacement Date for full log haul traffic (year):	2045			Replacement Date for light vehicle traffic (year):	2050				
	Current Inspection Load Rating:	68		Design Load GVW (tonnes):	68		Design Vehicle Config.:	L75		
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 2/15/2016 11:49:13AM						

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 486 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	930-B006	Site #:	K1575	Road Name:	ELKHART-GALENA	Inspection Date:	2014/08/22
KM:	2.90	User km:		Crossing Name:	Galena Cr	Next Inspection Date:	2017/08/22
Project File ID #:	8529	Br.	60	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	11.6	# Spans:	1	Span Length(s) (metres):	11		
UTM Zone:	10	UTM Easting:	696188	UTM Northing:	5520813		
Inspector Name:	Donovan J. A. Melin			Year Superstructure Installed:			
Access:	BCTS takeback structure. MRF 2011						

### ABUTMENTS

Bearings	Poor	LT: Bearing pads are not in contact with concrete slabs at both abutments.
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Fair	LT: Good angular rock, but small and poorly graded. Monitor RB
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 487 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	930-B006	Site #:	K1575	Road Name:	ELKHART-GALENA	Inspection Date:	2014/08/22			
Concrete Deck	Fair	LT: Excessive sand and gravel accumulation on deck obscuring welded tab inspection.								
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good	LT: welded tabs								
Grout Pockets	Not Applicable									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.1		Estimated Present Water Level Width:		3.0			
	Estimated High Water Level Clearance:		1.9							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	High	\$10,000.00	Consider reinstalling structure so that slabs will bear on bearing pads to prevent severe concrete damage.  Repair was completed by Aspen planners. Note this was under the supervision of Drew Alway. Bearing restored through multiple bearing plates where required. Deck is un-even but fair. Repair should be fine for 5 years.					
	2	Complete	Low	\$200.00	LT: Clean gravel from deck.					
MONITORS	#	Description								
	2	LT: Monitor RB rip rap. Appears small in photos.								
Corporate Bridge Register (CBR)										

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 488 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	930-B006	Site #:	K1575	Road Name:	ELKHART-GALENA	Inspection Date:	2014/08/22	
GENERAL	Inspector's Comment:	Left bearing pad is not in contact with slabs for the last metre from the upstream side. Right bearing pad is in NO contact with slab (except for where the gap has been filled with dirt). The entire bearing pad is loose. No repairs have been completed since previous inspections. Structure is in poor condition due to lack of bearing and should be reinstalled prior to active use.  LT (2014/12/11): P.Eng inspection required to assess bearing condition and determine cause of uneven bearing. Could be due to inconsistent cap grade compared to superstructure grade. Recommend to download rate to 5 tonnes until structure is reviewed by P.Eng.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2021	Replacement Date for light vehicle traffic (year):		2030	
	Current Inspection Load Rating:		5	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		Yes	Report Status:		Accepted By Lester Thiessen on 12/17/2014 10:04:25PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 489 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	930-B007	Site #:	K1577	Road Name:	BRANCH 62	Inspection Date:	2015/06/12
KM:	2.30	User km:	2.30	Crossing Name:	Galena Cr	Next Inspection Date:	2017/06/12
Project File ID #:	8529	Br.	62	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	7.6	# Spans:	1	Span Length(s) (metres):	7		
UTM Zone:	10	UTM Easting:	697575	UTM Northing:	5521807		
Inspector Name:	Ron Peace			Year Superstructure Installed:			
Access:	BCTS takeback structure						

### ABUTMENTS

Bearings	Fair	
Bracing	Not Applicable	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Some top rot
Fill	Fair	
Hardware	Not Applicable	
Log/Timber Cribs	Fair	Single log sill, some top rot
Piles or Posts	Not Applicable	
Riprap	Poor	Large round and poorly placed, pinched creek and no toe protection. One rock is resting on a stump and the bottom of the concrete deck.
Tie-backs	Not Applicable	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Bridge and #1 approach not well aligned
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Fair	Some erosion at bridge corners, minimal

### DECK

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 490 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	930-B007	Site #:	K1577	Road Name:	BRANCH 62	Inspection Date:	2015/06/12
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### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	
Deck Joints	Good	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	2.0
	Estimated High Water Level Clearance:	0.8		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	Sawn logs under bridge								

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description
	1	rock pinched between stump and underside of concrete deck
	2	Debris under bridge
	3	Monitor sill logs for future rot as per planned inspection comment.

GENERAL	Inspector's Comment:	Approach and bridge grade are not well aligned. There are no fender/noposts. This structure is resting on single log sills and may have settled slightly.

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 491 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	930-B007	Site #:	K1577	Road Name:	BRANCH 62	Inspection Date:	2015/06/12
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2022	Replacement Date for light vehicle traffic (year):		2027
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		91	Design Vehicle Config.: L100
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 7/13/2015 1:07:24PM	

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 492 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1031	Site #:	K1031	Road Name:	MELLIN LAKE	Inspection Date:	2015/06/13
KM:	11.04	User km:	9.80	Crossing Name:	Spahomin Cr	Next Inspection Date:	2018/06/13
Project File ID #:	8551	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	14.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	706812	UTM Northing:	5548281		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Fair	

### DECK

#### Span 1

Concrete Deck	Good	
---------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 493 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1031	<b>Site #:</b>	K1031	<b>Road Name:</b>	MELLIN LAKE	<b>Inspection Date:</b>	2015/06/13
<b>Curb Rail/Blocks/Posts</b>	Fair	One section of timber has high rot values and may require replacement prior to next inspection					
<b>Deck Joints</b>	Good						
<b>Grout Pockets</b>	Good						
<b>Hardware</b>	Good						
<b>Hand Rails/Walkouts</b>	Not Applicable						
<b>Overall Deck Condition</b>	Good						
<b>Running Surface</b>	Good						
<b>SUPERSTRUCTURE</b>							
<b>Span 1</b>							
<b>Bracing</b>	Good						
<b>Diaphragms</b>	Good						
<b>Girders</b>	Good						
<b>Hardware</b>	Not Applicable						
<b>Under Trussing</b>	Not Applicable						
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.3		<b>Estimated Present Water Level Width:</b>		6.9
	<b>Estimated High Water Level Clearance:</b>		1.3				
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>						
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Required	Medium	\$1,000.00	One section of timber has high rot values and may require replacement prior to next inspection. Requires a 13' 2" 10x10. Some of the risers have elevated rot values as well		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	One section of timber rail has high rot values and may require replacement prior to next inspection					

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 494 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1031	Site #:	K1031	Road Name:	MELLIN LAKE	Inspection Date:	2015/06/13	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 11:16:36AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 495 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1033	Site #:	K1033	Road Name:	RED CREEK	Inspection Date:	2014/06/26
KM:	0.27	User km:	0.20	Crossing Name:	Hayes Cr	Next Inspection Date:	2017/06/26
Project File ID #:	8614	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	20.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	687293	UTM Northing:	5494066		
Inspector Name:	Ben Pellett			Year Superstructure Installed:	1998		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Unrated	n/a
Caps or Sills	Unrated	n/a
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	1	replaced
Fender Condition	None	
Posted Load Rating	None	
Road Surface	Fair	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1033	Site #:	K1033	Road Name:	RED CREEK	Inspection Date:	2014/06/26			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Fair	LT: gravel accumulated on deck surface.								
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Fair	slight warp in tension flanges								
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.5		Estimated Present Water Level Width:		19.0			
	Estimated High Water Level Clearance:		2.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	LT: Tall snag in creek along LB.								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Low	\$500.00	LT: remove accumulated gravel from deck surface.					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	No site ID								
		LT (204/12/17): Reviewed.								

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1033	Site #:	K1033	Road Name:	RED CREEK	Inspection Date:	2014/06/26
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.: L75
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 12:06:45AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1567	Site #:	K1567	Road Name:	RED CREEK	Inspection Date:	2014/06/26
KM:	10.40	User km:	10.40	Crossing Name:	unamed	Next Inspection Date:	2017/06/26
Project File ID #:	8614	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	11.0	# Spans:	1	Span Length(s) (metres):	10.3		
UTM Zone:	10	UTM Easting:	692556	UTM Northing:	5488819		
Inspector Name:	Ben Pellett			Year Superstructure Installed:	2013		
Access:	Proposed FIA culvert replacement, currently not a major culvert. GA design approved in 2010. DA						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	n/a
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	poor visibility
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Excellent	
Posted Load Rating	None	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1567	Site #:	K1567	Road Name:	RED CREEK	Inspection Date:	2014/06/26
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### DECK

#### Span 1

Concrete Deck	Good	
Curb Rail/Blocks/Posts	Good	
Deck Joints	Good	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	good- d/s most stopped

### CHANNEL

Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.0
Estimated High Water Level Clearance:	3.5		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description

### MONITORS

#	Description

### GENERAL

Inspector's Comment:	No site ID tag LT (2014/12/17): Reviewed. Could use more photos taken under bridge facing abutments.
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1567	Site #:	K1567	Road Name:	RED CREEK	Inspection Date:	2014/06/26
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2058	Replacement Date for light vehicle traffic (year):		2062
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.: L100
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 12:15:40AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1499	Site #:	K1499	Road Name:	RED CREEK	Inspection Date:	2014/06/26
KM:	19.00	User km:	19.00	Crossing Name:	unkown	Next Inspection Date:	2017/06/26
Project File ID #:	8614	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	8.6	# Spans:	1	Span Length(s) (metres):	8.2		
UTM Zone:	10	UTM Easting:	698359	UTM Northing:	5490326		
Inspector Name:	Ben Pellett			Year Superstructure Installed:	2010		
Access:	FIA 2010 install						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	integrated
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	n/a
Riprap	Fair	rounded, steep on right u/s half
Wing Wall	Good	integrated

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	None	
Road Surface	Good	

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1499	Site #:	K1499	Road Name:	RED CREEK	Inspection Date:	2014/06/26			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Fair									
Deck Joints	Fair	no filler, LT no photos								
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Not Applicable	none. LT: ?? can't confirm from photos.								
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		3.0			
	Estimated High Water Level Clearance:		1.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	Yes
	Comment:	Scouring into right u/s corner, meanders u/s.								
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Significant meandering u/s. No name plate. LT (2014/12/17): Reviewed. No deck photos.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1499	Site #:	K1499	Road Name:	RED CREEK	Inspection Date:	2014/06/26
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2055	Replacement Date for light vehicle traffic (year):		2060
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.: L100
	Professional Inspection Required?		No	Report Status:		Accepted By Lester Thiessen on 12/20/2014 12:33:31AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K408A	Site #:	K408	Road Name:	RED CREEK	Inspection Date:	2014/08/23
KM:	36.88	User km:	38.60	Crossing Name:	Alaric Cr	Next Inspection Date:	2017/08/23
Project File ID #:	8614	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	12.6	# Spans:	1	Span Length(s) (metres):	12		
UTM Zone:	10	UTM Easting:	708979	UTM Northing:	5496829		
Inspector Name:	Donovan J. A. Melin			Year Superstructure Installed:	2010		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	can't see
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Fair	LT: Large boulders used as fenders.
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Excellent	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K408A	<b>Site #:</b>	K408	<b>Road Name:</b>	RED CREEK	<b>Inspection Date:</b>	2014/08/23			
<b>Curb Rail/Blocks/Posts</b>	Good									
<b>Deck Joints</b>	Good	no epoxy.								
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.4		<b>Estimated Present Water Level Width:</b>		3.5			
	<b>Estimated High Water Level Clearance:</b>		1.7							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$2,000.00	Consider installing 4 real fenders (log or concrete barriers) as a visual for drivers to keep onto the bridge. The rocks are good for keeping vehicles out of the creek but lack the visual that the road is narrowing.					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Deck joints have not yet been filled with epoxy. No damaged block could be found so it must have been replaced as per previous inspection. Structure is in good condition.  LT (2014/12/17): Reviewed.								
<b>GENERAL</b>	<b>PEng's Comment:</b>									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K408A	Site #:	K408	Road Name:	RED CREEK	Inspection Date:	2014/08/23	
GENERAL	Replacement Date for full log haul traffic (year):			2055	Replacement Date for light vehicle traffic (year):			2060
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	BCL625
	Professional Inspection Required?		No	Report Status:	Accepted By Lester Thiessen on 12/20/2014 8:50:39AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1501	Site #:	K1501	Road Name:	RED CREEK	Inspection Date:	2016/07/09
KM:	36.80	User km:	39.00	Crossing Name:	Unknown	Next Inspection Date:	2019/07/09
Project File ID #:	8614	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	10.5	# Spans:	1	Span Length(s) (metres):	10		
UTM Zone:	10	UTM Easting:	709961	UTM Northing:	5492141		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2009		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1501	Site #:	K1501	Road Name:	RED CREEK	Inspection Date:	2016/07/09			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		4.2			
	Estimated High Water Level Clearance:		1.7							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1501	Site #:	K1501	Road Name:	RED CREEK	Inspection Date:	2016/07/09
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2060	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.:
							L100
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 12/6/2016 2:48:12PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K407	<b>Site #:</b>	K407	<b>Road Name:</b>	RED CREEK	<b>Inspection Date:</b>	2016/07/09
<b>KM:</b>	40.23	<b>User km:</b>	41.90	<b>Crossing Name:</b>	McNulty Cr	<b>Next Inspection Date:</b>	2019/07/09
<b>Project File ID #:</b>	8614	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	12.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	710351	<b>UTM Northing:</b>	5495298		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2001		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	Covered
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	Both missing
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	Repaired at inspection
Delineator Missing Right (approaching structure)	0	Repaired at inspection
Fender Condition	Fair	3 logs placed
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

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Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K407	<b>Site #:</b>	K407	<b>Road Name:</b>	RED CREEK	<b>Inspection Date:</b>	2016/07/09			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Poor	Two risers have failed, see photo. the rest of the wood components have elevated rot values								
<b>Deck Joints</b>	Fair									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Fair	Requires new curbs								
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good	Girders have many hair line cracks								
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>	0.4	<b>Estimated Present Water Level Width:</b>		3.0					
	<b>Estimated High Water Level Clearance:</b>	1.4								
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Complete	High	\$4,000.00	Full curb replacement requires 4- 18' and 2- 8' ft curb rails. 12- 2' and 12- 3' riser blocks, all 10x10 " timber. 1234 BF					
						DA: This bridge is a good candidate to move the curbs from a CL-1 timber curb to a CL-2 HSS rail as it has good alignment and this would eliminate the requirement for curb maintenance in the future.				
	2	Required	Medium	\$300.00	Install both bridge ahead signs					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor hair line cracks in the girders								

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 512 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K407	Site #:	K407	Road Name:	RED CREEK	Inspection Date:	2016/07/09	
GENERAL	Inspector's Comment:	the curbs have not been replaced.						
GENERAL	PEng's Comment:	This structure is restricted to 5 tonnes gvw, (post asap) traffic due to lack of curb maintenance. This bridge is a good candidate to move the curbs from a CL-1 timber curb to a CL-2 HSS rail as it has good alignment and this would eliminate the requirement for curb maintenance in the future.						
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		5	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/10/2017 1:51:38PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 513 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K406	Site #:	K406	Road Name:	RED CREEK	Inspection Date:	2016/07/09
KM:	40.59	User km:	42.30	Crossing Name:	McNulty Cr	Next Inspection Date:	2019/07/09
Project File ID #:	8614	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	12.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	710299	UTM Northing:	5495092		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2001		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	Junction at the #1 approach
Bridge Ahead Signs Missing	2	Both missing
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	Repaired at inspection
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 514 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K406	<b>Site #:</b>	K406	<b>Road Name:</b>	RED CREEK	<b>Inspection Date:</b>	2016/07/09			
<b>Concrete Deck</b>	Good									
<b>Curb Rail/Blocks/Posts</b>	Fair	May not make to the next inspection								
<b>Deck Joints</b>	Fair	Some open.								
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Good									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.1		<b>Estimated Present Water Level Width:</b>		6.0			
	<b>Estimated High Water Level Clearance:</b>		1.6							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	No	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>									
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	1	Required	Low	\$4,000.00	May require replacement prior to next inspection. Full curb replacement requires 4- 18' and 2- 8' ft curb rails. 12- 2' and 12- 3' riser blocks, all 10x10 " timber. 1234 BF					
	2	Required	Medium	\$350.00	Install bridge ahead signs					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Monitor curbs rot								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	May require curbs and risers prior to next inspection								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 515 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K406	Site #:	K406	Road Name:	RED CREEK	Inspection Date:	2016/07/09	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):		2050	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/10/2017 1:02:54PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 516 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1500	<b>Site #:</b>	K1500	<b>Road Name:</b>	RED-ISINTOK BR 04	<b>Inspection Date:</b>	2016/07/09
<b>KM:</b>	24.80	<b>User km:</b>		<b>Crossing Name:</b>	Unnamed	<b>Next Inspection Date:</b>	2019/07/09
<b>Project File ID #:</b>	8614	<b>Br.</b>	04	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Concrete			<b>Running Surface:</b>	Concrete		
<b>Superstructure</b>	Concrete Slab Girders			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	11.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	11		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	702858	<b>UTM Northing:</b>	5492260		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2009		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	It appears that the #1 might be leaning slightly toward the creek
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Unrated	Buried
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	Installed at inspection
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 517 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1500	Site #:	K1500	Road Name:	RED-ISINTOK BR 04	Inspection Date:	2016/07/09			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Not Applicable									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Not Applicable									
Hardware	Not Applicable									
Welded/grouted shear connect	Good									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		4.5			
	Estimated High Water Level Clearance:		1.4							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
	1	Slight lean of the #1 sill toward the creek								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 518 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1500	Site #:	K1500	Road Name:	RED-ISINTOK BR 04	Inspection Date:	2016/07/09	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2060	Replacement Date for light vehicle traffic (year):			
	Current Inspection Load Rating:		91	Design Load GVW (tonnes):		91	Design Vehicle Config.:	L100
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 2:46:02PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 519 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO4622	Site #:	K1485	Road Name:	ME8614.06	Inspection Date:	2015/06/26
KM:		User km:		Crossing Name:	Red Cr	Next Inspection Date:	2017/06/26
Project File ID #:	8614	Br.	06	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated - Panels			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	9.1	# Spans:	1	Span Length(s) (metres):	8.7		
UTM Zone:	10	UTM Easting:	700596	UTM Northing:	5489429		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2010		
Access:							

### ABUTMENTS

Bearings	Poor	No rubber bearing pads, bearings are bolted directly to individual lock bblocks.
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	one for each bearing only
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	No cap or sill
Fill	Fair	Light erodable material
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	At corners of old crib only
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	1	#2 approach missing
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Fair	The downstream side #2 approach has been pushed off the road grade
Posted Load Rating	none	
Road Surface	Fair	Some erosion at the corner of #2, downstream side

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 520 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO4622	Site #:	K1485	Road Name:	ME8614.06	Inspection Date:	2015/06/26
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	1.6
	Estimated High Water Level Clearance:	1.6		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	lots of woody debris upstream of bridge								

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$500.00	The downstream side fender log #2 approach has been pushed off the road grade
	2	Required	Low	\$250.00	Install a bridge ahead sign at the #2 approach
	3	Required	Low	\$2,000.00	Add rip rap and fill, Some erosion at the corner of #2, downstream side

MONITORS	#	Description
	1	Monitor woody debris upstream of bridge

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 521 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO4622	Site #:	K1485	Road Name:	ME8614.06	Inspection Date:	2015/06/26
GENERAL	Inspector's Comment:	This structure has no tag.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2025	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 1:29:37PM	
BCL625							

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 522 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO3228	Site #:	K1486	Road Name:	ME8614.07	Inspection Date:	2015/06/26
KM:	0.40	User km:	0.40	Crossing Name:	Unnamed Cr	Next Inspection Date:	2017/06/26
Project File ID #:	8614	Br.	07	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated - Panels			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Sill -Temporary Materials		
Total Length (metres):	7.6	# Spans:	1	Span Length(s) (metres):	7.2		
UTM Zone:	10	UTM Easting:	698144	UTM Northing:	5491429		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2006		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Fair	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	19x19" timber
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	1	The #1 sign has fallen over, requires a post as well
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Fair	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 523 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO3228	Site #:	K1486	Road Name:	ME8614.07	Inspection Date:	2015/06/26
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Curb Rail/Blocks/Posts	Fair	Impact damage at the #1 approach has split the first curb timber.
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	
Running Planks	Fair	A hole has been punched into one plank
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	1.0
	Estimated High Water Level Clearance:	1.0		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	2	Required	Medium	\$300.00	The #1 sign has fallen over, requires a post as well
	3	Required	Medium	\$300.00	A hole has been punched through one of the planks, requires 2-10'x4x10" planks
	4	Required	High	\$500.00	Impact damage has split the first section @#1 approach downstream side. Requires 1-10'x10x10" timber

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 524 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO3228	Site #:	K1486	Road Name:	ME8614.07	Inspection Date:	2015/06/26
GENERAL	Inspector's Comment:	The deck and curb need repair. No tag on this structure					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2065	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:
							L75
GENERAL	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/15/2016 1:27:26PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 525 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K842	Site #:	K842	Road Name:	GRANT CREEK	Inspection Date:	2016/07/09
KM:	0.16	User km:	0.20	Crossing Name:	Hayes Cr	Next Inspection Date:	2019/07/09
Project File ID #:	8615	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	16.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	691034	UTM Northing:	5501071		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1995		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	5	
Road Surface	Poor	Overgrown grass trail

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 526 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K842	Site #:	K842	Road Name:	GRANT CREEK	Inspection Date:	2016/07/09			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Poor	Rotten								
Deck Joints	Fair									
Grout Pockets	Poor	There now appears to be 10 of the deck grout pockets that have some degree of degeneration. It doesnt help that as the concrete disitergrates the pockets are continuesly full of water. Recommend removal of disintergrating concrete assess depth and refill if satifactory from a structural standard.								
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Poor	Requires curbs and grout pocket assessment.								
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphrams	Good									
Girders	Good									
Hardware	Not Applicable									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.4		Estimated Present Water Level Width:		10.0			
	Estimated High Water Level Clearance:		0.8							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Required	High	\$2,000.00	There now appears to be 10 of the deck grout pockets that have some degree of degeneration. It doesnt help that as the concrete disitergrates the pockets are continuesly full of water. Recommend removal of disintergrating concrete assess depth and refill if satifactory from a structural standard.					
	2	Required	High	\$4,500.00	Curbs have extensive rot. Required materials: all 10x10" timber. 6-13' 2-20' and 20- 2' , 20-3' riser blocks					
	3	Required	Medium	\$200.00	Brush out bridge					
Corporate Bridge Register (CBR)										

Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 527 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K842	<b>Site #:</b>	K842	<b>Road Name:</b>	GRANT CREEK	<b>Inspection Date:</b>	2016/07/09	
<b>MONITORS</b>	#	Description						
<b>GENERAL</b>	<b>Inspector's Comment:</b>	There now appears to be 10 of the deck grout pockets that have some degree of degeneration. It doesnt help that as the concrete disintergrates the pockets are continuesly full of water. Recommend removal of disintergrating concrete assess depth and refill if satifactory from a structural standard. The bridge is now posted @ 5 tonnes and the curbs have not been replaced. The road is overgrown and appears to be only used by a private residence. It looks like a new power line has been placed directly over the middle of the deck						
	<b>PEng's Comment:</b>	I've professionally inspected this bridge in 2012 and developed a detailed repair prescription at that time. The works are still not completed. There the structure as planned will move to a 5 tonnes load restriction and will continue to be downgraded if at minimum, curb works are not completed. If curbs are not completed by the next inspection in 2019, structure will be closed.						
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2012	<b>Replacement Date for light vehicle traffic (year):</b>		2016	
	<b>Current Inspection Load Rating:</b>		5	<b>Design Load GVW (tonnes):</b>		68	<b>Design Vehicle Config.:</b>	L75
	<b>Professional Inspection Required?</b>		Yes	<b>Report Status:</b>	Reviewed By Drew Alway on 1/25/2017 4:07:17PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 528 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K683	Site #:	K683	Road Name:	POTHOLE CREEK	Inspection Date:	2015/06/12
KM:	0.49	User km:	0.30	Crossing Name:	Pothole Cr	Next Inspection Date:	2018/06/12
Project File ID #:	8707	Br.	01	Forest District:	Cascades Natural Resource District		
Culvert Type:	Round			Culvert Material:	Corrugated Steel		
Inlet Cover (mm):	800			Outlet Cover (mm):	1,000		
Footing Type:				Gradient (%):	0.5		
Culvert Length (metres):	13.0	Opening Height (mm):	2,400	Opening Width (mm):	2,400		
UTM Zone:	10	UTM Easting:	680227	UTM Northing:	5530792		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1987		
Access:	UTMs converted from Lat/Long- check in field.						

### APPROACHES

Alignment	Good	
Alignment	Good	
Bridge Ahead Signs Missing	0	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Fender Condition	None	
Posted Load Rating	0	Not posted
Road Surface	Good	
Road Surface	Good	

### CULVERT ELEMENT

Baffles	Not Applicable	
Bolted Connections	Not Applicable	
Coupled Connections	Good	
Coating	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 529 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K683	<b>Site #:</b>	K683	<b>Road Name:</b>	POTHOLE CREEK	<b>Inspection Date:</b>	2015/06/12			
<b>Embedment Materials</b>	Not Applicable									
<b>Fill</b>	Good									
<b>Floor</b>	Good									
<b>Footing</b>	Not Applicable									
<b>Head Wall</b>	Fair									
<b>Inlet</b>	Fair									
<b>Outlet</b>	Good									
<b>Overall</b>	Good									
<b>Riprap</b>	Fair									
<b>Roof</b>	Good									
<b>Side Walls</b>	Good									
<b>Trash Rack</b>	Not Applicable									
<b>Wiers/Backwater Structures</b>	Not Applicable									
<b>Wing Wall</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.4		<b>Estimated Present Water Level Width:</b>		1.2			
	<b>Estimated High Water Level Clearance:</b>		0.7							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	Not much rip rap protection, creek makes a sharp turn into the inlet. This is causing some erosion of the #1 bank								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Continue to monitor inlet erosion. has not deteriorated substantially.								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	No significant change to inlet erosion, continue to monitor if not repaired.								

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Major Culvert Inspection Report

Page 530 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001C  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K683	Site #:	K683	Road Name:	POTHOLE CREEK	Inspection Date:	2015/06/12	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2037	Replacement Date for light vehicle traffic (year):		2042	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		64	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/15/2016 11:56:02AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 531 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K666	Site #:	K666	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16
KM:	3.43	User km:	3.40	Crossing Name:	Unnamed	Next Inspection Date:	2018/06/16
Project File ID #:	8708	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	8.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	639895	UTM Northing:	5511244		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1994		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Fair	Round and does not extend to base of sill allowinf to ravel through
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Span 1

Concrete Deck	Good	
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 532 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K666	<b>Site #:</b>	K666	<b>Road Name:</b>	JULIET CREEK	<b>Inspection Date:</b>	2015/06/16			
<b>Curb Rail/Blocks/Posts</b>	Poor	Extensive rot and failing risers								
<b>Deck Joints</b>	Good									
<b>Grout Pockets</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Hand Rails/Walkouts</b>	Not Applicable									
<b>Overall Deck Condition</b>	Good									
<b>Running Surface</b>	Good									
<b>SUPERSTRUCTURE</b>										
<b>Span 1</b>										
<b>Bracing</b>	Not Applicable									
<b>Hardware</b>	Not Applicable									
<b>Welded/grouted shear connect</b>	Good									
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		0.1		<b>Estimated Present Water Level Width:</b>		2.0			
	<b>Estimated High Water Level Clearance:</b>		1.2							
<b>HAZARDS</b>	<b>High Water:</b>	No	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b>	No	<b>Aggradation:</b>	No
	<b>Comment:</b>	Minor scouring								
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>					
	2	Complete	High	\$3,500.00	Replace curbs and risers. Requires 933 Bf of 10x10 timber, includes 10-24" and 10-36" risers					
<b>MONITORS</b>	<b>#</b>	<b>Description</b>								
	1	Round rip rap does not extend to base of sill allowinf to ravel through								
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Curb repairs have not been done.								
<b>GENERAL</b>	<b>PEng's Comment:</b>	curb repairs were completed after this inspection was done.								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 533 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K666	Site #:	K666	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16	
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):			2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/15/2016 11:52:59AM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 534 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K488	Site #:	K488	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16
KM:	3.69	User km:	3.60	Crossing Name:	Juliet Cr	Next Inspection Date:	2018/06/16
Project File ID #:	8708	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	16.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	639665	UTM Northing:	5511116		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1990		
Access:							

### ABUTMENTS

Bearings	Fair	Dirty
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Junction at the high chain #2 as well as a cattle guard just off the bridge
Bridge Ahead Signs Missing	2	Install one at each branch at The #2 approach
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	5	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 535 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K488	Site #:	K488	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Poor	Extensive rot requires replacement
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Poor	Both deck and curbs have extensive rot
Running Planks	Poor	Extensive rot and failing sections
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

### CHANNEL

Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	12.0
Estimated High Water Level Clearance:	0.7		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description
1	Complete	Medium	\$12,000.00	Deck rot is very high and failing. Will require 3224 BR of 3x10" deck planks
2	Complete	High	\$3,000.00	requires 1010 BF of 10x10" curb timber
3	Complete	Medium	\$200.00	Brush out bridge
4	Complete	Low	\$100.00	Clean bearings
5	Complete	Low	\$250.00	Install two bridge ahead signs at the two branches off #@ approach

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 536 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K488	Site #:	K488	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16	
MONITORS	#	Description						
GENERAL	Inspector's Comment:	Bridge requires deck and curb components.						
GENERAL	PEng's Comment:	Running deck and curbs already replaced after this field inspection was completed. Load restriction removed.						
GENERAL	Replacement Date for full log haul traffic (year):		2035		Replacement Date for light vehicle traffic (year):		2040	
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68	
					Design Vehicle Config.:		L75	
	Professional Inspection Required?		No		Report Status:			Reviewed By Drew Alway on 2/12/2016 8:57:06AM

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 537 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K489	Site #:	K489	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16
KM:	6.71	User km:	6.60	Crossing Name:	Unnamed	Next Inspection Date:	2018/06/16
Project File ID #:	8708	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Slab Girders			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	6.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	636868	UTM Northing:	5510924		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1990		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	No wall other than girder ends
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	Road very grown in as well as bridge
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	5	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 538 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K489	Site #:	K489	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16
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### DECK

#### Span 1

Concrete Deck	Not Applicable	
Curb Rail/Blocks/Posts	Poor	Curbs have extensive rot values and some risers are rotten
Deck Joints	Not Applicable	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Fair	
Running Surface	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	Covered in gravel

CHANNEL	Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	2.6
	Estimated High Water Level Clearance:	0.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Complete	Low	\$150.00	Brush out bridge
	2	Complete	High	\$2,500.00	Curbs have extensive rot values and some risers are rotten Requires 750 Bf total of 10x10 timber. 8- 24" and 8-36" riser blocks

MONITORS	#	Description

GENERAL	Inspector's Comment:	Structure is still load rated @ 5 Tonnes and curbs have not been repaired

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 539 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K489	Site #:	K489	Road Name:	JULIET CREEK	Inspection Date:	2015/06/16	
GENERAL	PEng's Comment:	curb repairs were completed after this inspection. Load restriction has been lifted.						
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2045	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/12/2016 9:06:52AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 540 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K532	Site #:	K532	Road Name:	HOPE CREEK	Inspection Date:	2015/06/18
KM:	8.13	User km:	8.50	Crossing Name:	West Hope Cr	Next Inspection Date:	2017/06/18
Project File ID #:	9150	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	10.7	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	502747	UTM Northing:	5607292		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:							

### ABUTMENTS

Bearings	Fair	
Bracing	Not Applicable	
Ballast Wall	Fair	Not connected to the superstructure
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Some rot
Fill	Good	
Hardware	Not Applicable	
Log/Timber Cribs	Fair	
Piles or Posts	Not Applicable	
Riprap	Fair	
Tie-backs	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	Brush out
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 541 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K532	Site #:	K532	Road Name:	HOPE CREEK	Inspection Date:	2015/06/18
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Straffed and damaged by snow cat tracks
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Poor	Bent and exposed
Overall Deck Condition	Poor	Requires new deck.
Running Planks	Poor	Rotten failing
Sub Deck	Good	Treated
Ties	Good	Treated

### SUPERSTRUCTURE

#### Span 1

Bracing	Fair	Bent bottom brace
Diaphragms	Fair	Bottom cross brace is bent (see photo)
Girders	Fair	Flanges are dirty
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	5.0
	Estimated High Water Level Clearance:	1.1		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Low	\$100.00	Brush out bridge
	2	Required	Low	\$400.00	Install bridge ahead signs 2
	3	Required	Low	\$100.00	Clean flanges
	4	Required	High	\$3,500.00	Requires 1122 Bf of 3x10" deck planks

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 542 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K532	Site #:	K532	Road Name:	HOPE CREEK	Inspection Date:	2015/06/18
MONITORS	#	Description					
GENERAL	Inspector's Comment:	Measured up the bridge, see photo. This structure appears to be used by snow cats which is damaging the curbs as it crosses the bridge.					
GENERAL	PEng's Comment:	Evaluation completed based on Ron's measure up. Safe for CL-625 64 tonnes loading.					
GENERAL	Replacement Date for full log haul traffic (year):		2030		Replacement Date for light vehicle traffic (year):		2035
	Current Inspection Load Rating:		64	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/16/2016 11:52:33AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 543 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K533	Site #:	K533	Road Name:	EAST HOPE CREEK	Inspection Date:	2016/06/12
KM:	0.28	User km:	7.30	Crossing Name:	Hope Cr	Next Inspection Date:	2018/06/12
Project File ID #:	9150	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	12.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	503018	UTM Northing:	5607903		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2005		
Access:							

### ABUTMENTS

Bearings	Fair	Girders not pinned to the sills
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	High rot values from the end into bearing on the upstream of #2
Fill	Poor	Scoured from behind #1 crib
Hardware	Not Applicable	
Log/Timber Crib	Poor	Some settling of the #1 crib upstream end and scouring along its face.
Piles or Posts	Not Applicable	
Riprap	Poor	Large round poor gradation
Tie-backs	Poor	Rotten and crushed
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Poor	Sink hole at the bridge end @#1 approach

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 544 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K533	Site #:	K533	Road Name:	EAST HOPE CREEK	Inspection Date:	2016/06/12
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Poor	Exposed heads
Overall Deck Condition	Poor	Requires new running surface
Running Planks	Poor	Rotten and failed
Sub Deck	Good	Creosote
Ties	Good	Creosote

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.1	Estimated Present Water Level Width:	7.0
	Estimated High Water Level Clearance:	1.5		

HAZARDS	High Water:	Yes	Scour:	Yes	Ice:	No	Debris:	Yes	Aggradation:	No
	Comment:	The creek is running hard onto the #1 rip rap and abutment, there is a high water escape/overflow to the south of the armoured bank, see photo. Scouring has removed fill from under most of the #1 crib and caused it to settle. 6 m. along the face of a 8.5 m. wide crib. A debris dam has built up just below the bridge.								

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	High	\$3,500.00	Full running deck required 1560 BF of 3" planks
	2	Required	High	\$1,500.00	Fill in #1 approach sink hole

MONITORS	#	Description
	1	Monitor rot and settling or failure of crib
	2	Fill erosion

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 545 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K533	Site #:	K533	Road Name:	EAST HOPE CREEK	Inspection Date:	2016/06/12	
GENERAL	Inspector's Comment:	The creek is running hard onto the #1 abutment and rip rap, armouring of the upstream bank has been successful to this point but the large poorly graded rip rap under the bridge and along the crib face has allowed the fill to be come scoured. This has caused some settling of the upstream corner and a sink has developed in the #1 approach fill.the crib face is scoured 6 m. of a 8.5 m. wide crib. This bridge may have to be longer in length or shifted to the #1 approach. Elevated rot in the crib logs and sill as well as crushed rotten tiebacks rotten deck planks all culminate in structures life. Consider replacement of structure for industrial haul						
GENERAL	PEng's Comment:	Please post 5 tonnes load restriction due to scour on left abutment. Superstructure is in fair condition, but the bridge appears to be too short for this crossing location and the channel migration that is occurring. Suggest a GA design for replacement is required prior to industrial hauling activities.						
GENERAL	Replacement Date for full log haul traffic (year):			2017	Replacement Date for light vehicle traffic (year):		2025	
	Current Inspection Load Rating:		5	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 10:19:27AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 546 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K534	Site #:	K534	Road Name:	EAST HOPE CREEK	Inspection Date:	2016/06/12
KM:	0.63	User km:	7.50	Crossing Name:	Unnamed	Next Inspection Date:	2018/06/12
Project File ID #:	9150	Br.	03	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	12.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	503248	UTM Northing:	5607835		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1995		
Access:							

### ABUTMENTS

Bearings	Poor	#2 has extensive rot, monitor closely
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Poor	The #2 is rotten from both ends the upstream rot extends into the bearing area
Fill	Good	
Hardware	Good	
Log/Timber Cribbs	Fair	
Piles or Posts	Not Applicable	
Riprap	Good	
Tie-backs	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	Both missing
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	Consider if used for industrial haul
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 547 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K534	Site #:	K534	Road Name:	EAST HOPE CREEK	Inspection Date:	2016/06/12
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	Lower deck components are creosoted, running deck untreated full deck
Running Planks	Poor	If used for industrial haul will require redecking
Sub Deck	Good	Creosote
Ties	Good	Creosote

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.5	Estimated Present Water Level Width:	5.2
Estimated High Water Level Clearance:	1.8		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Medium	\$3,500.00	Requires deck of 3" planks 1560 bf.
2	Required	High	\$250.00	Brush out bridge
3	Required	Low	\$400.00	Install bridge ahead signs

#### MONITORS

#	Description
1	The #2 is rotten from both ends the upstream rot extends into the bearing area. The #1 sill has les rot

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 548 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K534	Site #:	K534	Road Name:	EAST HOPE CREEK	Inspection Date:	2016/06/12	
GENERAL	Inspector's Comment:	Bridge requires bridge ahead signs and brushing. For industrial haul running deck will deteriorate quickly. The #2 sill log is rotten from both ends primarily on the upstream end. This rot extends into the bearing area. The #1 sill is less so.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2020	Replacement Date for light vehicle traffic (year):		2025	
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 2:33:15PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 549 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K914	Site #:	K914	Road Name:	HOPE CREEK BR 05	Inspection Date:	2015/06/18
KM:	0.59	User km:	9.80	Crossing Name:	Hope Cr	Next Inspection Date:	2017/06/18
Project File ID #:	9150	Br.	05	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	10.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	502378	UTM Northing:	5605808		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1995		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Log/Timber Crib	Fair	The #1 crib is settled at the upstream end
Piles or Posts	Not Applicable	
Riprap	Fair	
Tie-backs	Good	
Wing Wall	Poor	Rotten

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	Install bridge ahead signs
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	10	Posted at inspection
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 550 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K914	Site #:	K914	Road Name:	HOPE CREEK BR 05	Inspection Date:	2015/06/18
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Cabled log only cabled at curb ends, 300 mm. of top rot
Deck to Girder Bolts	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Fair	
Overall Deck Condition	Poor	Will not take industrial haul and will deteriorate quickly if use increases
Running Planks	Poor	Rotten, dirty and failing
Sub Deck	Fair	
Ties	Poor	Some are rotten and failing at both ends of the bridge

### STRINGERS

#### Span 1

Stringer #	Diameter or Width X Depth	Peeled	Rot Depth (Bottom)	Rot Depth (Side)	Rot Depth (Top)	Wood Species	Comments
1	600	Yes	600	600	200	fir	Stringer has rot at both ends that extends through the stringer, at mid span top rot is 200mm.
7	550	Yes	600	600	600	fir	Rotted through on both ends and rot to core at mid span. Those not noted had no significant rot. (see Photo)
Log Curbs		Fair	Cabled at both ends only, 300 mm. of top rot				
Needle Beam(s) and Shims		Not Applicable					

### CHANNEL

Estimated Present Water Level Depth:	1.3	Estimated Present Water Level Width:	8.0
Estimated High Water Level Clearance:	1.2		

### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$500.00	Install bridge ahead signs
3	Required	High	\$40,000.00	survey and design for replacement if required for industrial use

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 551 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K914	Site #:	K914	Road Name:	HOPE CREEK BR 05	Inspection Date:	2015/06/18
MONITORS	#	Description					
GENERAL	Inspector's Comment:	Notified Region of structure condition, Drew offered to notify the district and concerned users.Posted tructure @ 10 tonnes.					
GENERAL	PEng's Comment:	structure already downgraded. Added repair for survey and design for replacement if required for industrial use.					
GENERAL	Replacement Date for full log haul traffic (year):		2015		Replacement Date for light vehicle traffic (year):		2020
	Current Inspection Load Rating:		68		Design Load GVW (tonnes):		68
	Design Vehicle Config.:						
	Professional Inspection Required?	No	Report Status:	Reviewed By Drew Alway on 2/15/2016 12:22:03PM			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 552 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1392	<b>Site #:</b>	K1392	<b>Road Name:</b>	NOEL CREEK	<b>Inspection Date:</b>	2015/06/17
<b>KM:</b>	0.47	<b>User km:</b>	0.80	<b>Crossing Name:</b>	Noel Cr	<b>Next Inspection Date:</b>	2018/06/17
<b>Project File ID #:</b>	9177	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Treated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right): (looking downstream)</b>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	21.3	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	513928	<b>UTM Northing:</b>	5623997		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2006		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
------------------------	------	--

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 553 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1392	Site #:	K1392	Road Name:	NOEL CREEK	Inspection Date:	2015/06/17			
Deck to Girder Bolts	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Nails	Good									
Overall Deck Condition	Good									
Running Planks	Good									
Sub Deck	Good	Treated								
Ties	Good	Treated								
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		1.0		Estimated Present Water Level Width:		11.2			
	Estimated High Water Level Clearance:		1.2							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:									

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 554 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1392	Site #:	K1392	Road Name:	NOEL CREEK	Inspection Date:	2015/06/17	
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2055	Replacement Date for light vehicle traffic (year):		2060	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	BCL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 1:09:11PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 555 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1393	<b>Site #:</b>	K1393	<b>Road Name:</b>	NOEL CREEK	<b>Inspection Date:</b>	2015/06/17
<b>KM:</b>	5.01	<b>User km:</b>	5.40	<b>Crossing Name:</b>	Noel Cr	<b>Next Inspection Date:</b>	2017/06/17
<b>Project File ID #:</b>	9177	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Treated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	27.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	513943	<b>UTM Northing:</b>	5620244		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2006		
<b>Access:</b>							

### ABUTMENTS

<b>Bearings</b>	Good	
<b>Bracing</b>	Not Applicable	
<b>Ballast Wall</b>	Good	
<b>Corrosion Protection</b>	Not Applicable	
<b>Caps or Sills</b>	Good	
<b>Fill</b>	Good	
<b>Hardware</b>	Good	
<b>Log/Timber Cribbs</b>	Good	Left in place from old structure, for erosion control only
<b>Piles or Posts</b>	Not Applicable	
<b>Riprap</b>	Good	
<b>Tie-backs</b>	Good	
<b>Wing Wall</b>	Not Applicable	

### APPROACHES

<b>Alignment</b>	Fair	Tight corner at The #1 approach, steep down onto the bridge as well
<b>Bridge Ahead Signs Missing</b>	0	
<b>Brushing Required</b>	Yes	
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	
<b>Fender Condition</b>	Good	
<b>Road Surface</b>	Fair	Rough and rutted at the #1

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 556 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1393	Site #:	K1393	Road Name:	NOEL CREEK	Inspection Date:	2015/06/17
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.0	Estimated Present Water Level Width:	10.0
	Estimated High Water Level Clearance:	3.7		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

#	Status	Priority	Estimate	Description
1	Complete	Low	\$100.00	Brush around bridge

#	Description
1	Road at top of hill at the high chain is rough and a small slump has blocked the ditch and flowed onto the road. Continue to monitor unstable terrain.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 557 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1393	Site #:	K1393	Road Name:	NOEL CREEK	Inspection Date:	2015/06/17	
GENERAL	Inspector's Comment:	Road at top of hill at the high chain is rough and a small slump has blocked the ditch and flowed onto the road						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2040	Replacement Date for light vehicle traffic (year):		2060	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/11/2016 1:12:02PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 558 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K1394	<b>Site #:</b>	K1394	<b>Road Name:</b>	NOEL CREEK	<b>Inspection Date:</b>	2016/06/12
<b>KM:</b>	7.44	<b>User km:</b>	7.90	<b>Crossing Name:</b>	Noel Cr	<b>Next Inspection Date:</b>	2018/06/12
<b>Project File ID #:</b>	9177	<b>Br.</b>	01	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Treated			<b>Running Surface:</b>	Not Available		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Precast		
<b>Total Length (metres):</b>	27.4	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	513853	<b>UTM Northing:</b>	5618488		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2006		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Steep and very sharp corner at the #2 approach
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Fair	Unsecured logs but very large
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 559 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1394	Site #:	K1394	Road Name:	NOEL CREEK	Inspection Date:	2016/06/12
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	1.3	Estimated Present Water Level Width:	11.1
	Estimated High Water Level Clearance:	3.3		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 560 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1394	Site #:	K1394	Road Name:	NOEL CREEK	Inspection Date:	2016/06/12	
GENERAL	Inspector's Comment:							
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2051		Replacement Date for light vehicle traffic (year):		2056	
	Current Inspection Load Rating:		63	Design Load GVW (tonnes):		63	Design Vehicle Config.:	CL625
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 12/6/2016 2:32:30PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 561 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	PS-029	<b>Site #:</b>	K1300	<b>Road Name:</b>	NOEL CREEK-WEST	<b>Inspection Date:</b>	2016/06/12
<b>KM:</b>	0.14	<b>User km:</b>	8.30	<b>Crossing Name:</b>	Noel Cr	<b>Next Inspection Date:</b>	2018/06/12
<b>Project File ID #:</b>	9177	<b>Br.</b>	02	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated - Panels			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Concrete Lock Blocks		
<b>Total Length (metres):</b>	20.0	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	19.4		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	513944	<b>UTM Northing:</b>	5617873		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2014		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	Treated Timber
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Fair	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Steep at the #1 approach with a slight curve as well
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Fair	Unsecured logs
Posted Load Rating	20	
Road Surface	Fair	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 562 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	PS-029	Site #:	K1300	Road Name:	NOEL CREEK-WEST	Inspection Date:	2016/06/12
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	
Deck to Girder Bolts	Good	Clips
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Fair	
Running Planks	Fair	Some rot pockets near through, if used extensively will require at a mininum 6 - 10' 4x10" planks
Sub Deck	Unrated	None
Ties	Fair	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Fair	Extensive rusting and spall of flang and web, up to 5 mm.
Hardware	Not Applicable	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.9	Estimated Present Water Level Width:	6.2
Estimated High Water Level Clearance:	2.9		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Medium	\$500.00	Some rot pockets near through, if used extensively will require at a mininum 6 - 10' 4x10" planks

#### MONITORS

#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 563 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	PS-029	Site #:	K1300	Road Name:	NOEL CREEK-WEST	Inspection Date:	2016/06/12	
GENERAL	Inspector's Comment:	The structure is posted @ 20 Tonnes. The rust and spall of the web and flange is up to 5 mm. deep						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):		2044		Replacement Date for light vehicle traffic (year):		2049	
	Current Inspection Load Rating:		20	Design Load GVW (tonnes):		68	Design Vehicle Config.:	L75
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 2/6/2017 3:17:13PM		

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 564 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K490	Site #:	K490	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27
KM:	1.40	User km:	1.40	Crossing Name:	Coldwater R	Next Inspection Date:	2019/06/27
Project File ID #:	9279	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Concrete Lock Blocks		
Total Length (metres):	15.0	# Spans:	1	Span Length(s) (metres):	14.4		
UTM Zone:	10	UTM Easting:	642165	UTM Northing:	5501153		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1991		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Unrated	None
Concrete Lock Blocks	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Not Applicable	
Piles or Posts	Not Applicable	
Riprap	Fair	Some erosion, seems to be functioning well
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	Installed at inspection
Delineator Missing Right (approaching structure)	0	Installed at inspection
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Fair	May require fill at the #2 downstream corner, material has been pulled down by ATV's

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 565 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K490	Site #:	K490	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27
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### DECK

#### Span 1

Concrete Deck	Unrated	Covered in gravel
Curb Rail/Blocks/Posts	Good	
Deck Joints	Not Applicable	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Fair	Potholed and uneven

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Unrated	Covered in gravel

#### CHANNEL

Estimated Present Water Level Depth:	1.3	Estimated Present Water Level Width:	6.0
Estimated High Water Level Clearance:	1.8		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Required	Low	\$1,000.00	May require fill at the #2 downstream corner, material has been pulled down by ATV's

#### MONITORS

#	Description
1	Continue to monitor rip rap

#### GENERAL

Inspector's Comment:	May require fill at the #2 downstream corner, material has been pulled down by ATV's
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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 566 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K490	Site #:	K490	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27	
GENERAL	PEng's Comment:	Reviewed fabrication details, noted accurate loading. GMC sign off on installation.						
GENERAL	Replacement Date for full log haul traffic (year):		2041		Replacement Date for light vehicle traffic (year):		2046	
	Current Inspection Load Rating:		55	Design Load GVW (tonnes):		55	Design Vehicle Config.:	L60
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/13/2017 9:40:47AM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 567 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K479	Site #:	K479	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27
KM:	6.48	User km:	4.90	Crossing Name:	Unnamed	Next Inspection Date:	2019/06/27
Project File ID #:	9279	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	11.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	639154	UTM Northing:	5500723		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1987		
Access:	5.6 by km. markers.						

### ABUTMENTS

Bearings	Good	Covered in gravel
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Unrated	None
Corrosion Protection	Not Applicable	
Caps or Sills	Fair	Covered in debris and gravel
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Poor	A shallow layer was placed over geotextile, some has slipped off
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	Surface water off the #1 approach flows onto and over the bridge
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Fair	Surface water runs onto the bridge

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 568 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K479	Site #:	K479	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	Curb bolts not countersunk
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Unrated	None
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	Dirty flanges
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.2	Estimated Present Water Level Width:	2.6
	Estimated High Water Level Clearance:	2.0		

HAZARDS	High Water:	No	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	A shallow layer was placed over geotextile, some has slipped off								

REPAIRS	#	Status	Priority	Estimate	Description
	1	Required	Medium	\$1,000.00	Water bar or reslope the #1 approach to remove surface water from the bridge
	2	Required	High	\$350.00	Clean sills bearing and girder flanges

MONITORS	#	Description
	1	Monitor rip rap erosion, appears stable from last inspection

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 569 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K479	Site #:	K479	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27	
GENERAL	Inspector's Comment:	This structure has been redecked						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2037	Replacement Date for light vehicle traffic (year):		2042	
	Current Inspection Load Rating:		55	Design Load GVW (tonnes):		55	Design Vehicle Config.:	L60
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 4:00:58PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K475	Site #:	K475	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27
KM:	5.44	User km:	6.60	Crossing Name:	Little Douglas Cr	Next Inspection Date:	2019/06/27
Project File ID #:	9279	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Treated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Concrete Precast		
Total Length (metres):	16.3	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	637692	UTM Northing:	5500482		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1992		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	
Concrete Precast	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Not Applicable	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Good	
Posted Load Rating	none	
Road Surface	Good	

### Corporate Bridge Register (CBR)

#### Disclaimer:

- 1) Structure and site information is current at the time of report creation and may have changed since the inspection was submitted and/or accepted.
- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 571 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K475	Site #:	K475	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Not Applicable	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.3	Estimated Present Water Level Width:	6.0
	Estimated High Water Level Clearance:	1.6		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 572 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K475	Site #:	K475	Road Name:	UPPER COLDWATER	Inspection Date:	2016/06/27	
GENERAL	Inspector's Comment:	Structure has been redecked recently						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2042	Replacement Date for light vehicle traffic (year):		2047	
	Current Inspection Load Rating:		55	Design Load GVW (tonnes):		54	Design Vehicle Config.:	L60
	Professional Inspection Required?		No	Report Status:		Reviewed By Drew Alway on 1/11/2017 3:56:43PM		

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K659	Site #:	K659	Road Name:	COPPER CREEK FSR	Inspection Date:	2015/06/25
KM:	2.68	User km:	4.30	Crossing Name:	Copper Cr #1	Next Inspection Date:	2018/06/25
Project File ID #:	9362	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.4	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	674723	UTM Northing:	5452032		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1993		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 574 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K659	Site #:	K659	Road Name:	COPPER CREEK FSR	Inspection Date:	2015/06/25			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Good									
Deck Joints	Good									
Grout Pockets	Good									
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Good									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.3		Estimated Present Water Level Width:		9.9			
	Estimated High Water Level Clearance:		1.7							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Newer curbs and risers, curb bolts not countersunk								

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K659	Site #:	K659	Road Name:	COPPER CREEK FSR	Inspection Date:	2015/06/25
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 7/13/2015 1:10:40PM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K658	Site #:	K658	Road Name:	SUNDAY SUMMIT	Inspection Date:	2015/06/25
KM:	18.61	User km:	18.00	Crossing Name:	Copper Cr #2	Next Inspection Date:	2018/06/25
Project File ID #:	9397	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	18.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	668754	UTM Northing:	5451484		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1993		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Fair	

### DECK

#### Span 1

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 577 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K658	Site #:	K658	Road Name:	SUNDAY SUMMIT	Inspection Date:	2015/06/25			
Concrete Deck	Good									
Curb Rail/Blocks/Posts	Poor	Extensive rot failing								
Deck Joints	Fair	See repair item								
Grout Pockets	Fair	Two of the grout pockets at the #1 end, upstream side are deficient, see photo								
Hardware	Good									
Hand Rails/Walkouts	Not Applicable									
Overall Deck Condition	Fair									
Running Surface	Good									
SUPERSTRUCTURE										
Span 1										
Bracing	Good									
Diaphragms	Good									
Girders	Good									
Hardware	Good									
Under Trussing	Not Applicable									
CHANNEL	Estimated Present Water Level Depth:		0.2		Estimated Present Water Level Width:		9.0			
	Estimated High Water Level Clearance:		1.6							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Low	\$200.00	Fill four of the grout pockets at the #1 end, upstream side are deficient, see photo					
	2	Complete	High	\$6,500.00	Curbs and risers have extensive rot, some risers failing. in total 1783 Bf of 10x10" timber, includes 18-24" and 18-36" riser blocks					
	3	Complete	Medium	\$200.00	Brush out bridge - Completed by Deverell Contractin Ltd.					
MONITORS	#	Description								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 578 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K658	Site #:	K658	Road Name:	SUNDAY SUMMIT	Inspection Date:	2015/06/25
GENERAL	Inspector's Comment:	Four of the grout pockets at are deficiant, see photo. the curbs and risers are in poor condition.  DA I professionally inspected this structure in July 2014 and provided a repair prescription for the grout pocket issues to BCTS. Works still to be completed.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2043	Replacement Date for light vehicle traffic (year):		2048
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 7/16/2015 10:46:44AM	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 579 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K631	Site #:	K631	Road Name:	SUNDAY SUMMIT	Inspection Date:	2015/06/25
KM:	22.81	User km:	23.00	Crossing Name:	Unnamed	Next Inspection Date:	2018/06/25
Project File ID #:	9397	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Concrete			Running Surface:	Concrete		
Superstructure	Concrete Box Beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	12.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	666768	UTM Northing:	5448329		
Inspector Name:	Ron Peace			Year Superstructure Installed:	2002		
Access:							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	
Fill	Poor	Settled nad sink hole at the #2 approach, likely due lack of compaction
Hardware	Not Applicable	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Poor	Grade of bridge does not match well with approaches. Junction at the #1 approach.
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Posted Load Rating	none	
Road Surface	Poor	Have grader bar or shape appraoches to divert surface water from eroding fill at bridge corners

### DECK

#### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K631	Site #:	K631	Road Name:	SUNDAY SUMMIT	Inspection Date:	2015/06/25
--------------	------	---------	------	------------	---------------	------------------	------------

### Span 1

Concrete Deck	Fair	
Curb Rail/Blocks/Posts	Good	
Deck Joints	Fair	
Grout Pockets	Not Applicable	
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Overall Deck Condition	Good	
Running Surface	Fair	Some surface damage from equipment track ice lugs

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Hardware	Not Applicable	
Welded/grouted shear connect	Good	

#### CHANNEL

Estimated Present Water Level Depth:	0.1	Estimated Present Water Level Width:	2.5
Estimated High Water Level Clearance:	2.5		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Complete	High	\$1,000.00	Fill Settled sink hole at the #2 approach, likely due lack of compaction - Completed by Deverell Contracting Ltd.
2	Complete	Low	\$500.00	Install bridge ahead sign at high chain
3	Complete	Medium	\$200.00	Have grader bar or shape approaches to divert surface water from eroding fill at bridge corners. - Completed by Deverell Contracting Ltd. (excavator).  DA requires at minimum four loads of fill placed at all four corners of the ballast walls.

#### MONITORS

#	Description

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K631	Site #:	K631	Road Name:	SUNDAY SUMMIT	Inspection Date:	2015/06/25	
GENERAL	Inspector's Comment:	This structure is on a 4-5% grade roughly matching the #2 approach (low chain) but the grade rises up off the bridge at 6%. the bridge requires approach fill.  DA I inspected this structure in July 2014. Recommend that approaches have water bars installed when not industrial hauling. As surface water management is a problem for this structure. The structure also requires at least four loads of approach fill added to all four corners of the wing-walls, which have either eroded away or settled.						
GENERAL	PEng's Comment:							
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):			2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 7/16/2015 11:26:15AM		

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 582 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	WO-1871	<b>Site #:</b>	K1482	<b>Road Name:</b>	RESERVOIR	<b>Inspection Date:</b>	2015/06/12
<b>KM:</b>	0.56	<b>User km:</b>	3.53	<b>Crossing Name:</b>	Reservoir Lake Crk	<b>Next Inspection Date:</b>	2018/06/12
<b>Project File ID #:</b>	9764	<b>Br.</b>	05	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Steel I-beam			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Steel Pipe and Precast Pad		
<b>Total Length (metres):</b>	15.3	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	14.8		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	701193	<b>UTM Northing:</b>	5531063		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	2010		
<b>Access:</b>							

### ABUTMENTS

Bearings	Good	
Bracing	Good	
Ballast Wall	Good	
Corrosion Protection	Good	
Caps or Sills	Good	
Fill	Fair	Light easily eroded
General Abutment Condition	Good	
Hardware	Good	
Piles or Posts	Good	
Riprap	Good	
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	0	
Brushing Required	No	
Delineator Missing Left <i>(approaching structure)</i>	0	
Delineator Missing Right <i>(approaching structure)</i>	0	
Fender Condition	Good	
Road Surface	Good	

### DECK

#### Span 1

### Corporate Bridge Register (CBR)

#### Disclaimer:

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO-1871	Site #:	K1482	Road Name:	RESERVOIR	Inspection Date:	2015/06/12
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Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Fair	No lag washers
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	
Running Planks	Good	
Sub Deck	Good	
Ties	Good	

<b>SUPERSTRUCTURE</b>			
<b>Span 1</b>			
Bracing	Good		
Diaphragms	Good		
Girders	Good		
Hardware	Good		
Under Trussing	Not Applicable		

<b>CHANNEL</b>	Estimated Present Water Level Depth:		0.2	Estimated Present Water Level Width:		6.7
	Estimated High Water Level Clearance:		1.6			

<b>HAZARDS</b>	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

<b>REPAIRS</b>	#	Status	Priority	Estimate	Description
	1	Required	Low	\$200.00	Clean bridge flanges
	2	Required	Medium	\$500.00	repair damaged culvert end at the #1 approach see photo. The cross drain culvert at the #1 approach has a crushed end, which has caused the culvert to silt up and not run freely. It appears that concerns from the previous inspection were addressed with exception of the fore noted.

<b>MONITORS</b>	#	Description
	1	Approach culvert siltation

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	WO-1871	Site #:	K1482	Road Name:	RESERVOIR	Inspection Date:	2015/06/12
GENERAL	Inspector's Comment:	The cross drain culvert at the#1 approach has a crushed end, which has caused the culvert to silt up and not run freely. It appears that concerns from the previous inspection were addressed with exception of the fore noted. The structure does not have a tag.					
GENERAL	PEng's Comment:						
GENERAL	Replacement Date for full log haul traffic (year):			2050	Replacement Date for light vehicle traffic (year):		
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		68	Design Vehicle Config.:
							L75
GENERAL	Professional Inspection Required?		No	Report Status:	Reviewed By Drew Alway on 2/15/2016 1:24:01PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.





# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

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Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1168	Site #:	K1168	Road Name:	9856	Inspection Date:	2011/10/19
KM:	0.62	User km:	1.50	Crossing Name:	Tommy Cr	Next Inspection Date:	2014/10/19
Project File ID #:	9856	Br.	01	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Treated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Steel Pipe and Precast Pad		
Total Length (metres):	23.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	533550	UTM Northing:	5632230		
Inspector Name:	Shane Stockwell			Year Superstructure Installed:	2000		
Access:	Barge across Carpenter Lake						

CHANNEL	Estimated Present Water Level Depth:		Estimated Present Water Level Width:							
	Estimated High Water Level Clearance:	0.0								
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Heli access								
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments								

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 586 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1168	Site #:	K1168	Road Name:	9856	Inspection Date:	2011/10/19	
GENERAL	Replacement Date for full log haul traffic (year):			2045	Replacement Date for light vehicle traffic (year):			2050
	Current Inspection Load Rating:		68	Design Load GVW (tonnes):		0	Design Vehicle Config.:	
	Professional Inspection Required?		No	Report Status:		Accepted By Drew Alway on 1/28/2014 12:00:00AM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Woodbox/Log Culvert Inspection Report

Page 587 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001D  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1304	Site #:	K1304	Road Name:	9856	Inspection Date:	2011/10/19			
KM:	6.53	User km:	2.70	Crossing Name:	Unnamed	Next Inspection Date:	2013/10/19			
Project File ID #:	9856	Br.	01	Forest District:	Cascades Natural Resource District					
Culvert Type:	Box			Culvert Material:	Log					
Inlet Cover (mm):	1,000			Outlet Cover (mm):	1,000					
Footing Type:				Gradient (%):	0.0					
Culvert Length (metres):	10.0	Opening Height (mm):	2,000	Opening Width (mm):	4,000					
UTM Zone:	10	UTM Easting:	533649	UTM Northing:	5629658					
Inspector Name:	Shane Stockwell			Year Superstructure Installed:	2001					
Access:										
CHANNEL	Estimated Present Water Level Depth:		0.0		Estimated Present Water Level Width:		0.0			
	Estimated High Water Level Clearance:		0.0							
HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									
REPAIRS	#	Status	Priority	Estimate	Description					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Heli access required MRF 2011								
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments								

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Woodbox/Log Culvert Inspection Report

Page 588 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001D  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K1304	Site #:	K1304	Road Name:	9856	Inspection Date:	2011/10/19
GENERAL	Replacement Date for full log haul traffic (year):		2016		Replacement Date for light vehicle traffic (year):		2021
	Current Inspection Load Rating:		0	Design Load GVW (tonnes):		0	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status: Accepted By Drew Alway on 12/5/2011 12:00:00AM			

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 589 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K552	Site #:	K552	Road Name:	TEXAS CREEK	Inspection Date:	2007/07/12
KM:	2.03	User km:	2.20	Crossing Name:	Texas #2	Next Inspection Date:	2008/07/01
Project File ID #:	R15756	Br.	233.1	Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Log Stringers			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	10.6	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:	10	UTM Easting:	582330	UTM Northing:	5599688		
Inspector Name:	Ron Peace			Year Superstructure Installed:	1983		
Access:							

### ABUTMENTS

Bracing	Not Applicable	No Comment Available -Converter.RSI
Ballast Wall	Fair	No Comment Available -Converter.RSI
Caps or Sills	Fair	No Comment Available -Converter.RSI
Fill	Fair	FILL: At the low chain downstream corner of the bridge the fill has stress cracks to the edge of the road due to failing wing wall. Failure is due to rot and erosion.. COVERFILL: No Comment Available -Converter.RSI.
Tie-backs	Poor	The low chain top crib log (sill) has no tiebacks.
Wing Wall	Poor	The low chain downstream is rotten and failing.

### APPROACHES

Alignment	Good	No Comment Available -Converter.RSI
Bridge Ahead Signs Missing	0	no bridge ahead signs, bridge is posted @ 2 tonnes
Brushing Required	Yes	No Comment Available -Converter.RSI
Delineator Missing Left (approaching structure)	0	The low chain downstream and the high chain upstream are missing.
Delineator Missing Right (approaching structure)	0	The low chain downstream and the high chain upstream are missing.
Posted Load Rating	d signs, bridge is post	no bridge ahead signs, bridge is posted @ 2 tonnes

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	Extensive rot.
Hardware	Not Applicable	HW: No Comment Available -Converter.RSI. RIV: No Comment Available -Converter.RSI.
Nails	Good	No Comment Available -Converter.RSI
Running Surface	Good	No Comment Available -Converter.RSI

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 590 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K552	Site #:	K552	Road Name:	TEXAS CREEK	Inspection Date:	2007/07/12
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Running Planks	Not Applicable	No Comment Available -Converter.RSI
Ties	Fair	Fair to rotted through.

### PIERS

Concrete	Not Applicable	No Comment Available -Converter.RSI
Cribs	Poor	The low chain crib appears to be eroded in behind the crib, high water limits access. Fill on the downstream corner low chain is being eroded
Hardware	Not Applicable	HW: No Comment Available -Converter.RSI. RIV: No Comment Available -Converter.RSI.
Overall	Poor	Failed sections
Overall	Poor	Eroded crib and rotten failing stringers, Closure is recommended.
Riprap	Fair	No Comment Available -Converter.RSI

### STRINGERS

#### Span 1

Stringer #	Diameter or Width X Depth	Peeled	Rot Depth (Bottom)	Rot Depth (Side)	Rot Depth (Top)	Wood Species	Comments
1			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru on end. MIDTHIRD: t200. #2BEAR: rotted thru Rot Depth (Side): #1BEAR: rotted thru on end. MIDTHIRD: t200. #2BEAR: rotted thru Rot Depth (Top): #1BEAR: rotted thru on end. MIDTHIRD: t200. #2BEAR: rotted thru
2			F	F	F		Rot Depth (Bottom): #1BEAR: 180good then cor rot. #1THIRD: core rot 200 good. #2BEAR: core rot 110good Rot Depth (Side): #1BEAR: 180good then cor rot. #1THIRD: core rot 200 good. #2BEAR: core rot 110good Rot Depth (Top): #1BEAR: 180good then cor rot. #1THIRD: core rot 200 good. #2BEAR: core rot 110good
3			F	F	F		Rot Depth (Bottom): #1BEAR: core rot 210 good. #1THIRD: core rot 300 good. #2BEAR: core rot 210 good. #2THIRD: core rot 300 good Rot Depth (Side): #1BEAR: core rot 210 good. #1THIRD: core rot 300 good. #2BEAR: core rot 210 good. #2THIRD: core rot 300 good Rot Depth (Top): #1BEAR: core rot 210 good. #1THIRD: core rot 300 good. #2BEAR: core rot 210 good. #2THIRD: core rot 300 good

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 591 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K552	Site #:	K552	Road Name:	TEXAS CREEK	Inspection Date:	2007/07/12
4			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru. #2BEAR: b70 dry rot. #2THIRD: sound Rot Depth (Side): #1BEAR: rotted thru. #2BEAR: b70 dry rot. #2THIRD: sound Rot Depth (Top): #1BEAR: rotted thru. #2BEAR: b70 dry rot. #2THIRD: sound
5			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru. #1THIRD: core rot 300 good. #2BEAR: rotted thru Rot Depth (Side): #1BEAR: rotted thru. #1THIRD: core rot 300 good. #2BEAR: rotted thru Rot Depth (Top): #1BEAR: rotted thru. #1THIRD: core rot 300 good. #2BEAR: rotted thru
6			F	F	F		Rot Depth (Bottom): #1BEAR: core rot 100 good. #2BEAR: core rot 150 good. #2THIRD: core rot 200 good Rot Depth (Side): #1BEAR: core rot 100 good. #2BEAR: core rot 150 good. #2THIRD: core rot 200 good Rot Depth (Top): #1BEAR: core rot 100 good. #2BEAR: core rot 150 good. #2THIRD: core rot 200 good
7			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru. #1THIRD: core rot 250 good. MIDTHIRD: dry punky. #2BEAR: 150 good rotten core. #2THIRD: core rot 300 good Rot Depth (Side): #1BEAR: rotted thru. #1THIRD: core rot 250 good. MIDTHIRD: dry punky. #2BEAR: 150 good rotten core. #2THIRD: core rot 300 good Rot Depth (Top): #1BEAR: rotted thru. #1THIRD: core rot 250 good. MIDTHIRD: dry punky. #2BEAR: 150 good rotten core. #2THIRD: core rot 300 good
8			F	F	F		Rot Depth (Bottom): #1BEAR: core rot 100 good. #2BEAR: core rot 150 good Rot Depth (Side): #1BEAR: core rot 100 good. #2BEAR: core rot 150 good Rot Depth (Top): #1BEAR: core rot 100 good. #2BEAR: core rot 150 good
9			F	F	F		Rot Depth (Bottom): #1BEAR: core rot 100 good. #2BEAR: rotted thru Rot Depth (Side): #1BEAR: core rot 100 good. #2BEAR: rotted thru Rot Depth (Top): #1BEAR: core rot 100 good. #2BEAR: rotted thru
10			F	F	F		Rot Depth (Bottom): #1BEAR: 150 good rotten core Rot Depth (Side): #1BEAR: 150 good rotten core Rot Depth (Top): #1BEAR: 150 good rotten core

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 592 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K552	Site #:	K552	Road Name:	TEXAS CREEK	Inspection Date:	2007/07/12			
11			F	F	F	Rot Depth (Bottom): #1BEAR: rotted thru. #1THIRD: t60. MIDTHIRD: t50. #2BEAR: rotted thru Rot Depth (Side): #1BEAR: rotted thru. #1THIRD: t60. MIDTHIRD: t50. #2BEAR: rotted thru Rot Depth (Top): #1BEAR: rotted thru. #1THIRD: t60. MIDTHIRD: t50. #2BEAR: rotted thru				
Needle Beam(s) and Shims		Poor		BEAM: Cabled. SHIM: Not shimmed tight..						
CHANNEL	Estimated Present Water Level Depth:		1.5		Estimated Present Water Level Width:					
	Estimated High Water Level Clearance:		5.4							
HAZARDS	High Water:	Yes	Scour:	Yes	Ice:	No	Debris:	No	Aggradation:	No
	Comment:	HighW: Fill is being eroded at both sides of the low chain crib, it is likely that water is flowing under and behind the crib.. Scour: Fill is being eroded at both sides of the low chain crib, it is likely that water is flowing under and behind the crib..								
REPAIRS	#	Status	Priority	Estimate	Description					
	1	Complete	Medium	\$0.00	Deck: Repair not warranted					
MONITORS	#	Description								
GENERAL	Inspector's Comment:	Overall: Eroded crib and rotten failing stringers, Closure is recommended.. Region: GMc Feb 14/08 This bridge should be closed to vehicular traffic. Stringer: Stringer #1 is failing at the high chain end..								
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments								
GENERAL	Replacement Date for full log haul traffic (year):			2004		Replacement Date for light vehicle traffic (year):			2013	
	Current Inspection Load Rating:		0		Design Load GVW (tonnes):		0		Design Vehicle Config.:	
	Professional Inspection Required?		Yes		Report Status:		Accepted By Converter.RSI on 5/1/2008 10:23:25PM			
Corporate Bridge Register (CBR)										

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 593 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K553	<b>Site #:</b>	K553	<b>Road Name:</b>	TEXAS CREEK	<b>Inspection Date:</b>	2007/07/12
<b>KM:</b>	2.77	<b>User km:</b>	3.00	<b>Crossing Name:</b>	Texas #3	<b>Next Inspection Date:</b>	2008/07/01
<b>Project File ID #:</b>	R15756	<b>Br.</b>	233.1	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Log Stringers			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	10.6	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	582402	<b>UTM Northing:</b>	5599115		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1983		
<b>Access:</b>							

### ABUTMENTS

Bracing	Not Applicable	No Comment Available -Converter.RSI
Ballast Wall	Good	No Comment Available -Converter.RSI
Caps or Sills	Poor	The low chain abutment is only a log sill. The log is rotten and scoured.
Fill	Good	FILL: No Comment Available -Converter.RSI. COVERFILL: No Comment Available -Converter.RSI.
Tie-backs	Poor	rotten.
Wing Wall	Not Applicable	No Comment Available -Converter.RSI

### APPROACHES

Alignment	Good	No Comment Available -Converter.RSI
Bridge Ahead Signs Missing	0	Only signs are, posted @ 2 tonnes.
Brushing Required	Yes	Overgrown.
Delineator Missing Left <i>(approaching structure)</i>	0	No Comment Available -Converter.RSI
Delineator Missing Right <i>(approaching structure)</i>	0	No Comment Available -Converter.RSI
Posted Load Rating	gns are, posted @ 2 t	Only signs are, posted @ 2 tonnes.

### DECK

#### Span 1

Curb Rail/Blocks/Posts	Fair	The downstream curb is rotten
Hardware	Not Applicable	HW: No Comment Available -Converter.RSI. RIV: No Comment Available -Converter.RSI.
Nails	Good	No Comment Available -Converter.RSI
Running Surface	Good	No Comment Available -Converter.RSI

### Corporate Bridge Register (CBR)

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 594 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K553	<b>Site #:</b>	K553	<b>Road Name:</b>	TEXAS CREEK	<b>Inspection Date:</b>	2007/07/12
<b>Running Planks</b>	Not Applicable	No Comment Available -Converter.RSI					
<b>Ties</b>	Poor	Extensive rot.					
<b>PIERS</b>							
<b>Concrete</b>	Not Applicable	No Comment Available -Converter.RSI					
<b>Cribs</b>	Fair	Limited access due to high water. Crib is scoured and appears unstable.					
<b>Hardware</b>	Not Applicable	HW: No Comment Available -Converter.RSI. RIV: No Comment Available -Converter.RSI.					
<b>Overall</b>	Good	No Comment Available -Converter.RSI					
<b>Overall</b>	Poor	Stringers are in poor condition, but the determining factor in this structures life is the failing low chain sill log. Consider closure.					
<b>Riprap</b>	Poor	No crib face protection.					
<b>STRINGERS</b>							
<b>Span 1</b>							
<b>Stringer #</b>	<b>Diameter or Width X Depth</b>	<b>Peeled</b>	<b>Rot Depth (Bottom)</b>	<b>Rot Depth (Side)</b>	<b>Rot Depth (Top)</b>	<b>Wood Species</b>	<b>Comments</b>
1			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru on end Rot Depth (Side): #1BEAR: rotted thru on end Rot Depth (Top): #1BEAR: rotted thru on end
2			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru Rot Depth (Side): #1BEAR: rotted thru Rot Depth (Top): #1BEAR: rotted thru
3			F	F	F		Rot Depth (Bottom): No Comment Available -Converter.RSI Rot Depth (Side): No Comment Available -Converter.RSI Rot Depth (Top): No Comment Available -Converter.RSI
4			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru Rot Depth (Side): #1BEAR: rotted thru Rot Depth (Top): #1BEAR: rotted thru
5			F	F	F		Rot Depth (Bottom): #1BEAR: core rot Rot Depth (Side): #1BEAR: core rot Rot Depth (Top): #1BEAR: core rot
6			F	F	F		Rot Depth (Bottom): #1BEAR: dry rot Rot Depth (Side): #1BEAR: dry rot Rot Depth (Top): #1BEAR: dry rot
7			F	F	F		Rot Depth (Bottom): No Comment Available -Converter.RSI Rot Depth (Side): No Comment Available -Converter.RSI Rot Depth (Top): No Comment Available -Converter.RSI

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 595 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K553	<b>Site #:</b>	K553	<b>Road Name:</b>	TEXAS CREEK	<b>Inspection Date:</b>	2007/07/12
8			F	F	F	Rot Depth (Bottom): No Comment Available -Converter.RSI Rot Depth (Side): No Comment Available -Converter.RSI Rot Depth (Top): No Comment Available -Converter.RSI	
9			F	F	F	Rot Depth (Bottom): #1BEAR: t100 Rot Depth (Side): #1BEAR: t100 Rot Depth (Top): #1BEAR: t100	
10			F	F	F	Rot Depth (Bottom): #1BEAR: rotted thru on end Rot Depth (Side): #1BEAR: rotted thru on end Rot Depth (Top): #1BEAR: rotted thru on end	
<b>Needle Beam(s) and Shims</b>		Poor		BEAM: Cabled. SHIM: Not shimmed..			
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		1.3		<b>Estimated Present Water Level Width:</b>		
	<b>Estimated High Water Level Clearance:</b>		5.4				
<b>HAZARDS</b>	<b>High Water:</b>	Yes	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>	Debris: Tree across creek just above the bridge.. Scour: The high chain crib.					
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
	1	Complete	Medium	\$0.00	Abutment: Monitor for failure		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Overall: Stringers are in poor condition, but the determining factor in this structures life is the failing low chain sill log. Consider closure.. Region: GMc Feb 14/08 This bridge should be closed to vehicular traffic. Stringer: Stringers are in poor condition, sampling was not done as the rotten failing sill log is the determining factor in the life of this structure..					
<b>GENERAL</b>	<b>PEng's Comment:</b>	Refer to Inspection Comments for historical PEng Comments					
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>			2008	<b>Replacement Date for light vehicle traffic (year):</b>		2013
	<b>Current Inspection Load Rating:</b>		0	<b>Design Load GVW (tonnes):</b>		0	<b>Design Vehicle Config.:</b>
	<b>Professional Inspection Required?</b>		Yes	<b>Report Status:</b>	Accepted By Converter.RSI on 5/1/2008 10:23:30PM		

### Corporate Bridge Register (CBR)

#### Disclaimer:

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- 2) Historic Load Rating data not available, contact FLNRO Regional Office for detailed information.



# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 596 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K554	<b>Site #:</b>	K554	<b>Road Name:</b>	TEXAS CREEK	<b>Inspection Date:</b>	2007/07/13
<b>KM:</b>	4.16	<b>User km:</b>	4.40	<b>Crossing Name:</b>	Texas #4	<b>Next Inspection Date:</b>	2008/07/06
<b>Project File ID #:</b>	R15756	<b>Br.</b>	233.1	<b>Forest District:</b>	Cascades Natural Resource District		
<b>Deck Type:</b>	Timber - Untreated			<b>Running Surface:</b>	Timber Planks		
<b>Superstructure</b>	Log Stringers			<b>Abutments (Left/Right):</b> <i>(looking downstream)</i>	Crib, Log or Untreated Timber		
<b>Total Length (metres):</b>	9.5	<b># Spans:</b>	1	<b>Span Length(s) (metres):</b>	0		
<b>UTM Zone:</b>	10	<b>UTM Easting:</b>	582232	<b>UTM Northing:</b>	5597870		
<b>Inspector Name:</b>	Ron Peace			<b>Year Superstructure Installed:</b>	1983		
<b>Access:</b>							

### ABUTMENTS

<b>Bracing</b>	Not Applicable	No Comment Available -Converter.RSI
<b>Ballast Wall</b>	Good	No Comment Available -Converter.RSI
<b>Caps or Sills</b>	Good	No Comment Available -Converter.RSI
<b>Fill</b>	Fair	FILL: Low due to crib erosion and lose of fill behind.. COVERFILL: No Comment Available -Converter.RSI.
<b>Tie-backs</b>	Fair	No Comment Available -Converter.RSI
<b>Wing Wall</b>	Poor	Wings are eroded and exposed.

### APPROACHES

<b>Alignment</b>	Good	No Comment Available -Converter.RSI
<b>Bridge Ahead Signs Missing</b>	0	Only signs are bridge posted @ 2 tonnes.
<b>Brushing Required</b>	Yes	No Comment Available -Converter.RSI
<b>Delineator Missing Left</b> <i>(approaching structure)</i>	0	No Comment Available -Converter.RSI
<b>Delineator Missing Right</b> <i>(approaching structure)</i>	0	No Comment Available -Converter.RSI
<b>Posted Load Rating</b>	are bridge posted @	Only signs are bridge posted @ 2 tonnes.

### DECK

#### Span 1

<b>Curb Rail/Blocks/Posts</b>	Poor	Rotten.
<b>Hardware</b>	Not Applicable	HW: No Comment Available -Converter.RSI. RIV: No Comment Available -Converter.RSI.
<b>Nails</b>	Poor	Exposed heads.
<b>Running Surface</b>	Good	No Comment Available -Converter.RSI

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 597 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K554	Site #:	K554	Road Name:	TEXAS CREEK	Inspection Date:	2007/07/13
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Running Planks	Not Applicable	No Comment Available -Converter.RSI
Ties	Fair	No Comment Available -Converter.RSI

### PIERS

Concrete	Not Applicable	No Comment Available -Converter.RSI
Cribs	Fair	The low chain is scoured.
Hardware	Not Applicable	HW: No Comment Available -Converter.RSI. RIV: No Comment Available -Converter.RSI.
Overall	Poor	extensive rot.
Overall	Poor	Failure may occur, consider closure or removal.
Riprap	Poor	No erosion protection to the low chain crib.

### STRINGERS

#### Span 1

Stringer #	Diameter or Width X Depth	Peeled	Rot Depth (Bottom)	Rot Depth (Side)	Rot Depth (Top)	Wood Species	Comments
1			F	F	F		Rot Depth (Bottom): #1BEAR: rotted thru on end. MIDTHIRD: t200. #2BEAR: rotted thru on end Rot Depth (Side): #1BEAR: rotted thru on end. MIDTHIRD: t200. #2BEAR: rotted thru on end Rot Depth (Top): #1BEAR: rotted thru on end. MIDTHIRD: t200. #2BEAR: rotted thru on end
2			F	F	F		Rot Depth (Bottom): . #2BEAR: core rot Rot Depth (Side): . #2BEAR: core rot Rot Depth (Top): . #2BEAR: core rot
3			F	F	F		Rot Depth (Bottom): No Comment Available -Converter.RSI Rot Depth (Side): No Comment Available -Converter.RSI Rot Depth (Top): No Comment Available -Converter.RSI
4			F	F	F		Rot Depth (Bottom): #1BEAR: sound Rot Depth (Side): #1BEAR: sound Rot Depth (Top): #1BEAR: sound
5			F	F	F		Rot Depth (Bottom): #1BEAR: s60. #2BEAR: core rot on end Rot Depth (Side): #1BEAR: s60. #2BEAR: core rot on end Rot Depth (Top): #1BEAR: s60. #2BEAR: core rot on end
6			F	F	F		Rot Depth (Bottom): . #2THIRD: s110 Rot Depth (Side): . #2THIRD: s110 Rot Depth (Top): . #2THIRD: s110

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 598 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

<b>Structure #:</b>	K554	<b>Site #:</b>	K554	<b>Road Name:</b>	TEXAS CREEK	<b>Inspection Date:</b>	2007/07/13
7			F	F	F		Rot Depth (Bottom): . #2BEAR: dry core rot Rot Depth (Side): . #2BEAR: dry core rot Rot Depth (Top): . #2BEAR: dry core rot
8			F	F	F		Rot Depth (Bottom): #1BEAR: t140 s100. #2BEAR: rotted thru on end Rot Depth (Side): #1BEAR: t140 s100. #2BEAR: rotted thru on end Rot Depth (Top): #1BEAR: t140 s100. #2BEAR: rotted thru on end
<b>Needle Beam(s) and Shims</b>		Not Applicable		BEAM: No Comment Available -Converter.RSI. SHIM: No Comment Available -Converter.RSI.			
<b>CHANNEL</b>	<b>Estimated Present Water Level Depth:</b>		2.2		<b>Estimated Present Water Level Width:</b>		
	<b>Estimated High Water Level Clearance:</b>		7.2				
<b>HAZARDS</b>	<b>High Water:</b>	Yes	<b>Scour:</b>	Yes	<b>Ice:</b>	No	<b>Debris:</b> No <b>Aggradation:</b> No
	<b>Comment:</b>	HighW: May further eroded abutment..					
<b>REPAIRS</b>	<b>#</b>	<b>Status</b>	<b>Priority</b>	<b>Estimate</b>	<b>Description</b>		
<b>MONITORS</b>	<b>#</b>	<b>Description</b>					
<b>GENERAL</b>	<b>Inspector's Comment:</b>	Overall: Failure may occur, consider closure or removal.. Region: GMc Feb 14/08 This bridge should be closed to vehicular traffic. Stringer: Due to high water access is limited, appears that #1 stringer at the high chain is close to failure..					
<b>GENERAL</b>	<b>PEng's Comment:</b>	Refer to Inspection Comments for historical PEng Comments					
<b>GENERAL</b>	<b>Replacement Date for full log haul traffic (year):</b>		2007		<b>Replacement Date for light vehicle traffic (year):</b>		2012
	<b>Current Inspection Load Rating:</b>		0		<b>Design Load GVW (tonnes):</b>		0
	<b>Design Vehicle Config.:</b>						
	<b>Professional Inspection Required?</b>		Yes	<b>Report Status:</b>	Accepted By Converter.RSI on 5/1/2008 10:23:35PM		
<b>Corporate Bridge Register (CBR)</b>							

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 599 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K546	Site #:	STORE 8	Road Name:		Inspection Date:	2013/09/26
KM:		User km:		Crossing Name:	Lillooet	Next Inspection Date:	2013/07/21
Project File ID #:		Br.		Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Untreated			Running Surface:	Timber Planks		
Superstructure	Steel I-beam			Abutments (Left/Right): (looking downstream)	Crib, Log or Untreated Timber		
Total Length (metres):	19.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:		UTM Easting:		UTM Northing:			
Inspector Name:	Jeremy Araki			Year Superstructure Installed:	1989		
Access:	BCTS Yard Lilloet Airport						

### ABUTMENTS

Bearings	Good	
Bracing	Not Applicable	
Ballast Wall	Good	logs
Corrosion Protection	Not Applicable	
Caps or Sills	Good	Timber sills on cross timbers
Fill	Fair	fill eroding slightly on right upstream corner
Hardware	Not Applicable	
Log/Timber Cribbs	Unrated	Timber sills on cross timbers
Piles or Posts	Not Applicable	
Riprap	Good	
Tie-backs	Not Applicable	Timber sills on cross timbers
Wing Wall	Not Applicable	

### APPROACHES

Alignment	Fair	high crest on left
Bridge Ahead Signs Missing	2	
Brushing Required	No	
Delineator Missing Left (approaching structure)	0	
Delineator Missing Right (approaching structure)	0	
Fender Condition	Poor	missing on downstream side
Posted Load Rating	75	Posted as "75 Tonne GVW
Road Surface	Good	

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 600 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K546	Site #:	STORE 8	Road Name:		Inspection Date:	2013/09/26
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### DECK

#### Span 1

Curb Rail/Blocks/Posts	Good	
Deck to Girder Bolts	Good	tabs
Hardware	Good	
Hand Rails/Walkouts	Not Applicable	
Nails	Good	
Overall Deck Condition	Good	new in 2012
Running Planks	Good	
Sub Deck	Unrated	none
Ties	Good	

### SUPERSTRUCTURE

#### Span 1

Bracing	Good	
Diaphragms	Good	
Girders	Good	
Hardware	Good	
Under Trussing	Not Applicable	

CHANNEL	Estimated Present Water Level Depth:	0.8	Estimated Present Water Level Width:	7.0
	Estimated High Water Level Clearance:	1.5		

HAZARDS	High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
	Comment:									

REPAIRS	#	Status	Priority	Estimate	Description

MONITORS	#	Description

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### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Log Stringer Bridge Inspection Report

Page 601 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001B  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K546	Site #:	STORE 8	Road Name:		Inspection Date:	2013/09/26
GENERAL	Inspector's Comment:	Inspector completed this inspection for the wrong site. DA.					
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments					
GENERAL	Replacement Date for full log haul traffic (year):		2005		Replacement Date for light vehicle traffic (year):		2010
	Current Inspection Load Rating:		See footnote	Design Load GVW (tonnes):		5	Design Vehicle Config.:
	Professional Inspection Required?		No	Report Status:			

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 602 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K922	Site #:	STORE 8	Road Name:		Inspection Date:	2011/10/24
KM:		User km:		Crossing Name:	Lillooet	Next Inspection Date:	2014/10/24
Project File ID #:		Br.		Forest District:	Cascades Natural Resource District		
Deck Type:	Timber - Treated			Running Surface:	Timber Planks		
Superstructure	Glulam Girder			Abutments (Left/Right): (looking downstream)	Pile -Permanent Materials		
Total Length (metres):	37.0	# Spans:	1	Span Length(s) (metres):	0		
UTM Zone:		UTM Easting:		UTM Northing:			
Inspector Name:	R. Veitch, M. Horner			Year Superstructure Installed:	1968		
Access:	BCTS Yard Lilloet Airport						

### ABUTMENTS

Bearings	Fair	
Bracing	Not Applicable	
Ballast Wall	Fair	
Corrosion Protection	Not Applicable	
Caps or Sills	Good	Debris accumulation on top of caps.
Fill	Fair	
Hardware	Fair	
Piles or Posts	Unrated	No access
Riprap	Not Applicable	
Wing Wall	Fair	Camp end - Upstream wingwall Pile 2 75mm shell then void, downstream wingwall Pile 1 80mm shell then void, Pile 2 very wide vertical split. Woods end - Upstream wall Pile 3 40mm shell then void.

### APPROACHES

Alignment	Good	
Bridge Ahead Signs Missing	2	
Brushing Required	Yes	
Delineator Missing Left (approaching structure)	0	Camp end upstream delineator incorrect.
Delineator Missing Right (approaching structure)	0	
Fender Condition	None	
Road Surface	Good	

### DECK

#### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 603 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K922	Site #:	STORE 8	Road Name:		Inspection Date:	2011/10/24
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### Span 1

Curb Rail/Blocks/Posts	Fair	Minor impact damage at several locations.
Deck to Girder Bolts	Good	
Hardware	Fair	
Hand Rails/Walkouts	Fair	
Nails	Fair	
Overall Deck Condition	Fair	
Running Planks	Poor	Planks are heavily worn at ends with pockets of rot.
Sub Deck	Fair	
Ties	Fair	

### SUPERSTRUCTURE

#### Span 1

Bracing	Not Applicable	
Diaphragms	Good	
Girders	Poor	Girder 2 has extensive checking in both flanges and rot in the bottom flange. Several existing checks on all girders marked with nails and letters less than 50mm deep not noted below. Checking noted at deck clips.
Hardware	Good	
Under Trussing	Not Applicable	

#### CHANNEL

Estimated Present Water Level Depth:	0.6	Estimated Present Water Level Width:	5.0
Estimated High Water Level Clearance:	11.0		

#### HAZARDS

High Water:	No	Scour:	No	Ice:	No	Debris:	No	Aggradation:	No
Comment:									

#### REPAIRS

#	Status	Priority	Estimate	Description
1	Complete	High	\$0.00	Post a 5 tonne load restriction until a load rating has been completed. Bridge Replaced. Now MOTI.
2	Complete	High	\$0.00	Schedule the bridge for replacement. Bridge Replaced. Now MOTI.
3	Complete	Medium	\$0.00	Place correct delineator on camp end upstream corner. Bridge Replaced. Now MOTI.

### Corporate Bridge Register (CBR)

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# BC Ministry of Forests and Range

## Permanent Bridge Inspection Report

Page 604 of 604  
Date Printed: 2017/02/16  
User Id: IDIR\KCONWAYB  
Database: PROD  
Report Id: CBR001A  
File:

Forest District: Cascades Natural Resource District Most Recent Inspections Only: Yes Sort By: Project Number, Brar

Structure #:	K922	Site #:	STORE 8	Road Name:		Inspection Date:	2011/10/24	
MONITORS	#	Description						
GENERAL	Inspector's Comment:	Found rot in one girder, so recommended immediate downgrade to 5 tonne GVW until a detailed analysis is done or the structure is replaced. Structure currently being replaced. DA.						
GENERAL	PEng's Comment:	Refer to Inspection Comments for historical PEng Comments						
GENERAL	Replacement Date for full log haul traffic (year):		2011		Replacement Date for light vehicle traffic (year):		2023	
	Current Inspection Load Rating:		5		Design Load GVW (tonnes):		63	
					Design Vehicle Config.:		CL625	
	Professional Inspection Required?		No		Report Status:			Accepted By Drew Alway on 2/13/2012 12:00:00AM

### Corporate Bridge Register (CBR)

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