CK-2331	STAVE RIVER 5.1km	2016 Inspection

CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude
49°27'42.99"	-122°13'11"

Crossing Name	Camp Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	5.1		
Current Load Rating (tonnes)			
Structure Class	Permanent Bridge		
Portable	N		
Superstructure	Concrete Slab Girders		
Deck Type	Concrete		
Abutment Left	Concrete Lock Blocks		
Abutment Right	Concrete Lock Blocks		
Spans	1		
Total Length (m)	12.1		
Deck Width (m)	5.63		

Updated Data

Latitude	Longitude
49°27'42.49"	-122°13'11.01"

HD Diff. (m)	15.6	Accuracy (m)	5
4.3			
L75 or 68 tonnes			

Inspection

Date of Inspection	2016-07-29 7:40:14 AM		
Inspector Name	Jamie Rupar Gilliatt	Inspection Company	SNT Engineering

Inspector Comments

Concrete slab girder bridge with lock block abutments has replaced log stringer structure. Slab girders are recycled with some minor wear and damage. Bridge appears too short for crossing, with signs of water levels reaching near top of lock blocks. Bridge ahead signs to be installed and grading of the approaches required. Updated user km 4.3 based road km markings.

P.Eng Comments

Install bridge ahead signs; replace missing delineator and grade approaches. Present load rating of L75 or 68 tonnes to continue.

P.Eng Seal

Approach

Alignment	Fair	Horizontal and vertical curve.
Bridge Ahead Signs Missing	○ 0 ○ 1 ● 2	
Brushing Required	N	
Delineator Missing Left	● 0 ○ 1 ○ 2	
Delineator Missing Right	○ 0 ● 1 ○ 2	Downstream delineator damaged.
Fender Condition	Fair	Old guide logs.
Posted Load Rating		No load posting sign.
Road Surface	Fair	Fair to poor. Potholes in approach and adjacent to deck end.

Abutment

Log/Timber Cribs	N/A	
Tie Backs	N/A	
Bin Wall	N/A	
Concrete	Good	Lock block abutments.
Caps or Sills	Good	Treated timber sill.
Piles or Posts	N/A	
Ballast Wall	N/A	
Wing Wall	N/A	
Bracing	N/A	
Hardware	Fair	
Fill	Good	
Riprap	Good	Large angular boulders at both abutments.
Bearings	N/A	
Corrosion Protection	N/A	

Deck

Running Surface	Fair	Fair to poor. Potholes in approach and adjacent to deck end.
Running Planks	N/A	
Sub Deck	N/A	
Ties	N/A	
Nails	N/A	
Deck to Girder Bolts	N/A	
Concrete Deck	Fair	Some minor tracked vehicle damage.
Grout Pockets	N/A	
Deck Joints	N/A	
Steel Deck Plate	N/A	
Gravel Surface	N/A	
Curb Rail/Blocks/Posts	Good	
Hand Rails/Walkouts	N/A	
Hardware	N/A	
Overall Deck Condition	Fair	
Gravel Depth (mm)		

Steel/Concrete

Serial/ID Plate	No ID Tag.	
Girders	Fair	Recycled slab girders. Minor damage at ends, some spalling on edges, staining, moss growth.
Diaphragms	N/A	
Bracing	N/A	
Under Trussing	N/A	
Hardware	N/A	
Welded/grouted shear connectors	Fair	Slight misalignment of welded shear connector. Gap between slabs has been grouted.

Log

Log Curbs	N/A
Needle Beam	N/A
Needle Lashing/ Shimming	N/A

Needle Beam to Crib (m)			Needle Diameter (mm)			
Stringer Number	Species	Peeled	Diameter (mm)	Rot Depth (mm)	Condition	Comment

Hazards

Estimated Present Water Level Depth (m)	0.2	High Water	☐	Debris	☒
Estimated Present Water Level Width (m)	1	Aggradation	☒	Scour	☐
Estimated High Water Level Clearance (m)	0	Ice	☐		

Comments: Bridge appears undersized for crossing. 1.4 m high opening with signs of water levels reaching near top of lock blocks. Large woody debris and dead fall upstream. Gravel bars upstream and starting to form under bridge.

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Medium	Install bridge ahead signs and delineator at right approach downstream corner. Grade approaches. Remove debris from deck.
2		
3		

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)

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Right Approach Facing Bridge

Deck

Right Approach Facing Away From Bridge

Guard Rail

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Left Approach Facing Away From Bridge

Looking Upstream

Left Approach Facing Bridge

Looking Downstream

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Minor Damage to End of Slab at Approach

Upstream Elevation

Minor Misalignment of Shear Connector

Downstream Elevation

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Left Bank Abutment

Woody Debris Deposits from High Water

Right Bank Abutment

Slab Girders