

CK-2327

STAVE RIVER 0km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
49°25'43.29"	-122°14'51.4"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	0		
Current Load Rating (tonnes)	68		
Structure Class	Temporary Bridge		
Portable	N		
Superstructure	Steel I-beam		
Deck Type	Timber - Untreated - Panels		
Abutment Left	Concrete Lock Blocks		
Abutment Right	Concrete Lock Blocks		
Spans	1		
Total Length (m)	7		
Deck Width (m)	4.9		

Updated Data

Latitude	Longitude		
49°25'43.57"	-122°14'50.72"		
HD Diff. (m)	16.1	Accuracy (m)	5
30 tonnes			

Inspection

Date of Inspection 2016-07-28 2:39:28 PM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

The bridge deck is heavily worn, the ballast walls are rotten and the sill is rotting under the bearings. All require replacement. The bottom lock block at the downstream corner of the right abutment has spalled and should be monitored.

P.Eng Comments

The steel girders are originally from the old weight scale at the log dump and were refurbished in 1995 for this install. The girders are still in fair condition but appear to be too short for the site. For short term planning and use, replace both timber sills, both ballast walls and all deck planks. Install fenders at all corners, post bridge ahead signs, brush and grade approaches. Limit loading to 30 tonnes until bridge work complete - please post load rating signs. Monitor the bottom lock block at the downstream right abutment. For long term planning consider the site for a complete replacement with a longer structure.



07/03/2017

P.Eng Seal

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Approach

Alignment Poor

Tight horizontal curve.

Bridge Ahead Signs
Missing
☐ 0 ☐ 1 ☒ 2

Brushing Required Y

Vegetation obscuring bridge.

Delineator Missing
Left
☒ 0 ☐ 1 ☐ 2
Delineator Missing
Right
☒ 0 ☐ 1 ☐ 2

Fender Condition Poor

None at left approach. Rotten guide logs at right approach.

Posted Load Rating

No load posting sign.

Road Surface Poor

Potholes at approaches have resulted in heavy wear to deck ends.

Abutment

Log/Timber Cribs N/A

Tie Backs Fair

Steel rods with plates. Light surface corrosion.

Bin Wall N/A

Concrete Fair

Right abutment downstream bottom lock block has spalled. It is outside the bearing area of the abutment and does not appear to have deteriorated since previous inspection.

Caps or Sills Poor

Timber sills. Pockets of rot 90 mm deep below upstream bearings in both sills.

Piles or Posts N/A

Ballast Wall Poor

No access right abutment. Left abutment ballast wall is rotten.

Wing Wall Fair

Wing walls at downstream side.

Bracing N/A

Hardware Fair

Fill Fair

Riprap Fair

Bearings N/A

No rubber bearings in structure.

Corrosion Protection N/A

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Deck

Running Surface	N/A	Potholes at approaches have resulted in heavy wear to deck ends.
Running Planks	Poor	Limited amount of deck visible due to debris accumulation. Heavily worn planks.
Sub Deck	N/A	
Ties	Fair	Debris accumulating on ties. Pockets of rot adjacent to risers. Minor rot at interface with deck planks.
Nails	Unrated	Not visible deck covered in debris.
Deck to Girder Bolts	Fair	
Concrete Deck	N/A	
Grout Pockets	N/A	
Deck Joints	N/A	
Steel Deck Plate	N/A	
Gravel Surface	N/A	
Curb Rail/Blocks/Posts	Fair	
Hand Rails/Walkouts	N/A	
Hardware	Fair	
Overall Deck Condition	Poor	Heavily worn deck planks.
Gravel Depth (mm)		

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Steel/Concrete

Serial/ID Plate No ID Tag.

Girders Fair Light surface corrosion where paint has failed.

Diaphragms Fair Light surface corrosion where paint has failed.

Bracing Fair Light surface corrosion where paint has failed.

Under Trussing N/A

Hardware N/A

Welded/grouted
shear connectors N/A**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
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Hazards

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

Comments Dry channel. Some woody debris has been washed in from the lake.

Repairs and Monitoring

Repair

Item	Priority	Repair Description
1	High	Replace timber sills. Requires 2 4500x400x300 mm timbers. Replace ballast walls. Requires planks for 4500x650 ballast wall. Replace running planks. Requires 100 mm thick planks for 4.9 m wide, 7 m long deck.
2	Medium	Install fenders at all corners, post bridge ahead sign, and grade approaches.
3		

Item	Monitor Description	Frequency
1	Monitor spalling lock block at right abutment downstream corner.	Routine Inspection
2		
3		

Sketch
(Select Signature)



Right Approach Facing Bridge



Deck



Right Approach Facing Away From Bridge



Left Approach Facing Away From Bridge



Left Approach Facing Bridge



Looking Downstream



Looking Upstream



Upstream Elevation



Downstream Elevation



Right Bank Abutment



Left Bank Abutment



Girders



Deck Wear



Spalling of Bottom Lock Block at Downstream Left Abutment



Pothole in Approach with Worn Wearing Planks



Left Abutment Rotten Ballast Wall

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Right Abutment Rotten Sill