

CK-2440

STAVE RIVER 31.8km

2016 Inspection



CBR iPad Offline Ver 0.23 SNT

CBR Data

Latitude	Longitude		
49°35'45.7"	-122°24'19.6"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE RIVER		
User km	31.8		
Current Load Rating (tonnes)	62		
Structure Class	Permanent Bridge		
Portable	N		
Superstructure	Concrete Box Beam		
Deck Type	Concrete		
Abutment Left	Concrete Precast		
Abutment Right	Concrete Precast		
Spans	1		
Total Length (m)	15.2		
Deck Width (m)	4.9		

Updated Data

Latitude	Longitude		
49°35'45.29"	-122°24'19.65"		
HD Diff. (m)	12.8	Accuracy (m)	5
29.9			
Compo Girders			

Inspection

Date of Inspection 2016-07-24 2:05 PM

Inspector Name Jamie Rupar Gilliatt

Inspection Company SNT Engineering

Inspector Comments

Superstructure type changed. The girders look like small compo girders with monolithic concrete deck and diaphragms. They are not concrete box girders. Bridge is at km 29.9 not km 31.8. Fabric is holding debris on deck and accelerating deterioration of risers and blocking. Suggest guardrail is replaced with standard HSS guardrail.

P.Eng Comments

Replace guardrail system; realign and connect the concrete no post barriers; post bridge ahead signs; replace missing delineator and brush approaches. Please send record drawings, fabrication drawings and crossing assurance statement to CEG for an accurate load rating. Until such time limit loading to BCL-625 or 63 tonnes. Post load rating sign.



09/03/2017

P.Eng Seal

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Approach

Alignment Fair

Slight horizontal curve.

Bridge Ahead Signs
Missing
☐ 0
 ☐ 1
 ☒ 2

Brushing Required Y

Vegetation obscuring bridge.

Delineator Missing
Left
☐ 0
 ☒ 1
 ☐ 2

Upstream delineator missing.

Delineator Missing
Right
☒ 0
 ☐ 1
 ☐ 2

Fender Condition Fair

Partially buried in debris. Left approach CRB sections disconnected and partially overturned. Drop to creek is not significant.

Posted Load Rating

No posting sign.

Road Surface Fair

Abutment

Log/Timber Cribs N/A

Tie Backs N/A

Bin Wall N/A

Concrete N/A

Caps or Sills Good

Precast concrete cap and ballast wall.

Piles or Posts Unrated

Buried in fill.

Ballast Wall Good

Precast concrete cap and ballast wall. Typical water staining.

Wing Wall N/A

Bracing N/A

Hardware Unrated

Fabric covering guardrail prevented inspection.

Fill Good

Riprap Good

Left abutment riprap partially buried in remains of beaver dam.

Bearings Good

Corrosion Protection N/A

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Deck

Running Surface	Fair	
Running Planks	N/A	
Sub Deck	N/A	
Ties	N/A	
Nails	N/A	
Deck to Girder Bolts	N/A	
Concrete Deck	Fair	Wear in wheel tracks.
Grout Pockets	Unrated	Debris on deck prevented inspection.
Deck Joints	N/A	
Steel Deck Plate	N/A	
Gravel Surface	N/A	
Curb Rail/Blocks/Posts	Poor	Timber guardrail and riser system. Rot or bug infestation found in 4 of 12 risers. Fungal growth noted on a few risers. Fabric limited inspection of guardrail.
Hand Rails/Walkouts	N/A	
Hardware	N/A	
Overall Deck Condition	Fair	Fabric covering guardrail holds debris on deck, promoting deterioration of guardrail.
Gravel Depth (mm)		

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Steel/Concrete

Serial/ID Plate No ID Tag.

Girders Good

Look like small compo girders with monolithic deck and end diaphragms. Typical watering staining on exterior faces.

Diaphragms Good

Bracing N/A

Under Trussing N/A

Hardware N/A

Welded/grouted
shear connectors Unrated

Debris covered welded shear connectors.

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)	0.2	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	2	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	0.5	Ice	☐		

Comments Opening has been made in old beaver dam since last inspection.

Repairs and Monitoring

Repair		Repair Description
Item	Priority	
1	High	Replace timber guardrail with HSS system to prevent future deterioration due to debris accumulation.
2	Medium	Realign and reconnect CRB barriers.
3	Medium	Install bridge ahead signs and left approach upstream delineator. Brush approaches.

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)



Left Approach Facing Bridge



Deck



Left Approach Facing Away From Bridge



Right Approach Facing Away From Bridge



Right Approach Facing Bridge



Looking Downstream



Looking Upstream



Rotten Riser



Left Approach Downstream Disconnect CRB



Left Bank Abutment



Upstream Elevation



Left Bank Abutment



Girders



Remains of Downstream Beaver Dam



Girders Monolithic with Deck



Downstream Elevation

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Km Marking Up Chainage from Bridge