

CK-2270

STAVE 22.2km

2019 Inspection

CBR iPad Offline Ver 0.31



CBR Data

Latitude	Longitude		
49°33'52.7"	-122°20'30.2"		
Crossing Name	Side Creek		
FSR #	8013	Branch #	1
Road Name	STAVE		
User km	22.2		
Previous Load Rating (tonnes)			
Structure Class	Temporary Bridge		
Portable	N		
Superstructure	Steel I-beam		
Deck Type	Timber - Untreated		
Abutment Left	Crib, Log or Untreated Timber		
Abutment Right	Crib, Log or Untreated Timber		
Spans	1		
Total Length (m)	18.3		
Deck Width (m)	4.9		

Updated Data

Latitude	Longitude		
49°33'52.85"	-122°20'30.23"		
HD Diff. (m)	4.7	Accuracy (m)	5

Bridge condemned - 0 tonnes load rating

If continued access is required across this structure the RUP holder must submit a plan in order to monitor its current condition and the required load rating until the structure is replaced. This plan must be submitted to the district and approved prior to implementation.

Inspection

Date of Inspection 2019-11-05 8:36:54 AM

Recommended Next Inspection Year 2020

Inspector Name Tyson Miller

Inspection Company FLNRORD

Inspector Comments

This structure is a steel girder with timber deck bearing on top of an old log stringer bridge with log crib. The steel girder structure bears directly on the old log stringers at the upstream left abutment and downstream right abutment. The 2nd stringer on the log stringer structure has failed causing the lockblock supporting the steel girder structure to have inconsistent and relatively low bearing capacity. Recommend closing and replacing the bridge ASAP. If continual use of the structure is required have the RUP holder submit a signed and sealed plan of action for monitoring with the required load rating.

P.Eng Comments

The upstream left bank bearing of the steel girder has now been compromised due to a failed log stringer. The remaining log stringers are in extremely poor condition and the structure is at risk to failure. Bridge condemned (0 tonnes load rating). In the interim, if daily use of the structure is required the RUP holder must submit a plan in order to monitor its current condition and the required load rating until the structure is replaced. This plan must be submitted to the district and approved prior to implementation.



P.Eng Seal

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Approach

Alignment Fair

VC and HC both approaches

Bridge Ahead Signs
Missing
☐ 0
 ☐ 1
 ☒ 2

Brushing Required N

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

Fender Condition Poor

None

Posted Load Rating

Not posted

Road Surface Good

Abutment

Log/Timber Cribs Poor

Old and rotten

Tie Backs Poor

Old and rotten

Bin Wall

Pier

Concrete Poor

Upstream left bank lock block has been undermined

Caps or Sills Fair

Timber cap on compacted fill and lockblock under downstream girder right bank, 2 lockblocks at left bank located directly under the girders with compacted fill in between

Piles or Posts

Ballast Wall Good

Wing Wall

Bracing

Hardware

Fill Poor

Failed under upstream left bank lockblock

Riprap Poor

None in front of cribs

Bearings Poor

Upstream left bank has inconsistent bearing capacity due to failed stringer and undermined

Corrosion Protection

lockblock

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Deck

Running Surface

Running Planks	Poor	Wheel path planks rotten
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Sub Deck

Ties	Fair	Fair to poor as rot indicators are forming on the ties
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Nails	Poor	On rotten planks nails protruding
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Deck to Girder Bolts	Good	
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Concrete Deck

Grout Pockets

Deck Joints

Steel Deck Plate

Gravel Surface

Curb Rail/Blocks/Posts	Fair	
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Hand Rails/Walkouts

Hardware	Fair	
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Overall Deck Condition	Poor	Due to plank and nail condition
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Gravel Depth (mm)

Pier Deck

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**Steel/Concrete**

Girders Good

Diaphragms Good

Bracing Good

Under Trussing

Hardware

Welded/grouted
shear connectors**Log**

Log Curbs

Needle Beam

Needle Lashing/
Shimming

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)	0.5	High Water	☐	Debris	☐
Estimated Present Water Level Width (m)	10.0	Aggradation	☐	Scour	☐
Estimated High Water Level Clearance (m)	1.5	Ice	☐		

Comments Rotten stringers under steel girder put entire structure at risk

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	High	Post load rating sign
2		
3		

Item	Monitor Description	Frequency
1		
2		
3		

Sketch
(Select Signature)



Approach from Left Bank when facing downstream



Deck



Timber deck condition



Upstream from Crossing



Approach from Right Bank when facing downstream



Some planks recently replaced at right approach



Guard Rail



Nails protruding through planks



Tie connection to girders



Upstream Profile



Stringers



Stringers



Left Bank Abutment when facing downstream



Right Bank Abutment when facing downstream



Tie condition



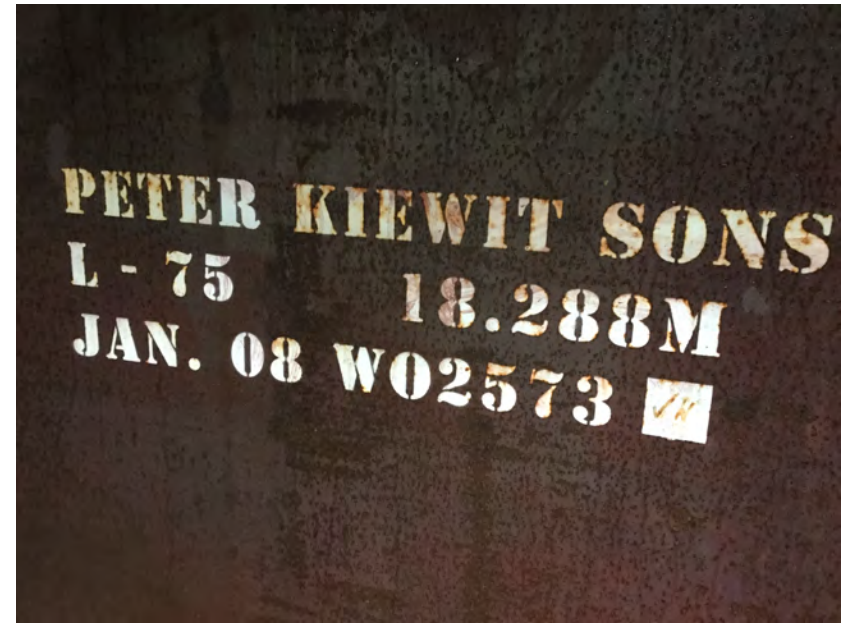
Left Bank Abutment when facing downstream



Scour under upstream left abutment lock block



Right Abutment when facing downstream



Structure ID