CK-2236	SOWAQUA CREEK 9.6km	2016 Inspection

CBR iPad Offline Ver 0.23

CBR Data

Latitude	Longitude
49°23'44.59"	-121°11'51.7"

Crossing Name	Not Known
FSR #	7004
Branch #	1
Road Name	SOWAQUA CREEK
User km	9.6
Current Load Rating (tonnes)	68
Structure Class	Temporary Bridge
Portable	Y
Superstructure	Steel I-beam
Deck Type	Timber - Untreated
Abutment Left	Sill -Temporary Materials
Abutment Right	Sill -Temporary Materials
Spans	1
Total Length (m)	15.2
Deck Width (m)	4.9

Updated Data

Latitude	Longitude
49°23'44.51"	-121°11'51.87"

HD Diff. (m)	4.4	Accuracy (m)	5

Inspection

Date of Inspection	2016-08-17 10:29:04 AM		
Inspector Name	Tyson Miller	Inspection Company	MFLNRO

Inspector Comments

P.Eng Comments

Post bridge ahead signs and monitor bridge following high flow events to confirm the stability of the abutments due to the limited riprap protection. Due to the incomplete bearing of the steel bearing plates and the log sill monitor the plates for deformation during industrial use. There is no indication of the term of this installation, and given the abutment material it is considered temporary; however there is no indication of it meeting the Q10 or Q50 flows (it doesn't meet the Q100 flows as indicated on the record drawings on file). The steel girders indicate L75 loading; however the record drawings on file indicate L100 design. Please send in the signed record drawings, structural drawings and crossing assurance statement ASAP.

P.Eng Seal

Approach

Alignment	Fair	VC 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	Fair	boulders at left approach
Posted Load Rating		not posted
Road Surface	Fair	

Abutment

Log/Timber Cribs	N/A	
Tie Backs	N/A	
Bin Wall	N/A	
Concrete	N/A	
Caps or Sills	Fair	single log sill wrapped in fabric
Piles or Posts	N/A	
Ballast Wall	Fair	
Wing Wall	N/A	
Bracing	N/A	
Hardware	Fair	
Fill	Fair	
Riprap	Fair to poor	limited and not well keyed in or tied together
Bearings	Poor	bear plates not completely on sills and loosely fasten
Corrosion Protection	N/A	

Deck

Running Surface	N/A
Running Planks	Fair
Sub Deck	Fair
Ties	Fair
Nails	Fair
Deck to Girder Bolts	Good
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	N/A
Overall Deck Condition	Fair
Gravel Depth (mm)	

Steel/Concrete

Serial/ID Plate		
Girders	Fair	minor corrosion
Diaphragms	Fair	bottom chords are twisted
Bracing	Fair	
Under Trussing	N/A	
Hardware	N/A	
Welded/grouted shear connectors	N/A	

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

Hazards

Estimated Present Water Level Depth (m)	0.2	High Water ☐	Debris ☐
Estimated Present Water Level Width (m)	2.0	Aggradation ☐	Scour ☐
Estimated High Water Level Clearance (m)	2.0	Ice ☐	

Comments

Repairs and Monitoring

Repair Item	Priority	Repair Description
1	Medium	post bridge ahead signs
2		
3		

Item	Monitor Description	Frequency
1	due to limited riprap monitor abutment scour	following high flow events
2	due to the poor bearing monitor the bearing plates for deformation	during industrial use
3		

Sketch
(Select Signature)

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Approach from Left Bank when facing downstream

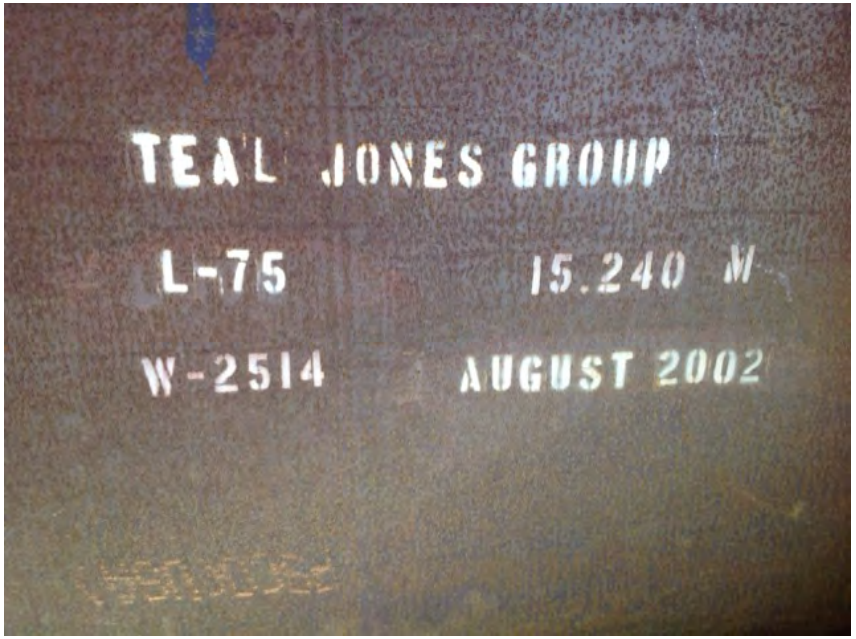
looking upstream from deck

Deck

looking downstream from deck

Approach from Right Bank when facing downstream

Left Bank Abutment when facing downstream



Structure ID

right bank downstream bearing - not fully on log sill - no signs of stress

Right Bank Abutment when facing downstream

left bank upstream bearing not fully on log sill - no signs of stress

deck clips

left bank downstream bearing plate barely on log sill - no signs of stress